Professional Report

La Cienega and La Cieneguilla PFAS Investigation
Santa Fe County, New Mexico

Prepared for:



Santa Fe County
Public Works Department
424 NM Highway 599 Frontage Road
Santa Fe, New Mexico 87507

Prepared by:



INTERA Incorporated
2440 Louisiana Boulevard NE, Suite 700
Albuquerque, New Mexico 87110

MARCH 19, 2026

Executive Summary

Santa Fe County retained INTERA Incorporated (INTERA) of Albuquerque, NM, to evaluate the occurrence, distribution, and potential sources of per- and polyfluoroalkyl substances (PFAS) in groundwater and surface water in the area of the historic communities of La Cienega and La Cieneguilla in Santa Fe County. The evaluation was initiated in response to PFAS compounds being identified in groundwater samples collected from wells at the nearby Army National Guard base and in domestic wells in La Cienega and La Cieneguilla. In addition, Santa Fe County needed to understand the growing public concern about potential health risks for La Cienega and La Cieneguilla residents, who rely primarily on private wells for their drinking water. This report integrates existing data, new groundwater data, groundwater flow modeling, and transport calculations to characterize PFAS occurrence and potential transport pathways, assess potential area sources, and inform near- and long-term mitigation and remediation options for impacted communities.

The study area is underlain by a complex hydrogeologic system in which geology exerts strong control on groundwater flow and PFAS migration. A geologic groundwater divide between La Cienega and La Cieneguilla creates a distinct separation in hydraulic communication that, to date, appears to have limited the migration of PFAS into La Cienega. In La Cienega, most domestic wells draw from the coarser-grained Ancha Formation, which overlies the finer-grained Tesuque Formation. Groundwater modeling indicates that flow in La Cieneguilla generally parallels the Santa Fe River, moving from northeast to southwest, with key potential source areas, including the Santa Fe Regional Airport, the Paseo Real Wastewater Reclamation Facility (PRWRF), and the Army Aviation Support Facility (AASF), located upgradient of the community.

INTERA conducted a comprehensive data review of prior PFAS sampling, preliminary assessment and site investigation reports, and data from Santa Fe County, before implementing additional groundwater and surface water sampling across La Cienega and La Cieneguilla. PFAS was not detected in INTERA-collected domestic water samples from La Cienega, and other available data indicate only low-level detections below current U.S. Environmental Protection Agency (EPA) Maximum Contaminant Levels (MCLs). In contrast, multiple domestic wells in La Cieneguilla exhibited detections of regulated PFAS above their respective EPA MCLs, with the highest PFAS concentrations observed near the southern and western margins of the community. PFAS signatures in La Cieneguilla groundwater are dominated by perfluorocarboxylic acids (PFCAs), with variable contributions from perfluorosulfonic acids (PFSAs) such as perfluorooctanesulfonic acid (PFOS) and perfluorohexanesulfonic acid (PFHxS). Surface water sampling along the Santa Fe River and associated channels confirmed the presence of PFAS at all locations, with the highest concentration occurring at the southernmost sampling location.

Source evaluation considered multiple lines of evidence, including PFAS composition ratios and principal component analyses. The AASF reporting shows soil and perched-zone groundwater impacts, but little to no PFAS has been detected in the deeper regional aquifer. Groundwater at PRWRF MW-1, located west of the biosolids surface disposal site, exhibits a PFAS profile similar to that observed at the surface disposal site. PFOS is notably absent in groundwater at the AASF yet constitutes a substantial portion of the PFAS mass in several La Cieneguilla domestic wells. Collectively, the data suggest a potentially mixed source with possible other, as-yet unconfirmed source areas.

The investigation also identified several important data gaps that limit the ability to fully resolve PFAS sources and long-term transport behavior. These include uncertainties regarding the vertical extent of PFAS contamination and hydraulic communication between the Ancha and Tesuque Formations, limited temporal data to evaluate trends and seasonal variability, incomplete characterization of PFAS in downstream surface water and sediments, and sparse information on historical PFAS use and management practices at potential source areas. **Section 7.0** outlines recommended actions to address these gaps, including installation of nested monitoring wells to include deeper wells within the Tesuque Formation in the La Cieneguilla area, and additional groundwater and surface water sampling.

In parallel with continued investigation, Santa Fe County, the New Mexico Environment Department (NMED), and community stakeholders are considering both interim and long-term measures to reduce PFAS exposure. As an interim step, NMED is providing point-of-use (POU) and point-of-entry (POE) treatment systems for La Cieneguilla households within the NMED-defined PFAS-impacted La Cieneguilla area. These measures are understood to be temporary risk-reduction tools rather than permanent remedies. Long-term options under consideration include expansion of treated water service, evaluation of deeper supply wells if deeper aquifer zones are confirmed to be protective, and potential source-area remediation where feasible. Given the agricultural character of La Cieneguilla and reliance on irrigation, Santa Fe County may also consider an ecological risk assessment to evaluate PFAS exposure pathways for crops, livestock, and aquatic receptors.

This report provides a technical foundation for decision-making by summarizing the current understanding of PFAS occurrence, hydrogeologic controls, and potential sources in La Cienega and La Cieneguilla; documenting key data gaps; and outlining a logical path forward for additional investigation, risk evaluation, and mitigation planning. INTERA recognizes the substantial impact PFAS contamination has placed on both the La Cienega and La Cieneguilla and will continue to support transparent, regular engagement with NMED, Santa Fe County residents, and local partners as the investigation and response actions progress.

Table of Contents

1.0 Introduction 1
1.1 Background and Regulatory Framework 1
1.2 Project Goals 1
1.3 Study Area Location and Land Use 2
1.4 Site Geology 2
1.5 Site Hydrogeology 3
1.6 Previous Investigations 3
1.7 Report Organization 4
2.0 Data Review and Evaluation 5
2.1 Summary of Available Data Sources 5
2.2 Evaluation of Data Quality and Completeness 5
2.3 Identification of Initial Data Gaps 6
3.0 Hydrogeology Characterization 7
4.0 Groundwater Flow Model 9
5.0 Field Investigation 10
5.1 Sampling Design and Rationale 10
5.1.1 Selection Criteria for Sampling Locations 10
5.1.2 Community Outreach and Access Efforts 10
5.2 Field and Lab Methods 11
5.3 Data Validation and Usability 11
5.4 Summary of Analytical Results 11
6.0 PFAS Source Evaluation 13
6.1 Key Findings 13
6.2 Data Limitations 15
6.3 Conclusions 15
6.4 Recommendations 16
7.0 Data Gaps and Recommended Actions 17
7.1 Additional Evaluation: Ecological Risk Assessment 17
8.0 Comparison with Similar Projects 19
8.1 DoD Approach to PFAS 19
8.2 Cannon Air Force Base 21
8.3 Holloman AFB 22

8.4 Santa Fe County PFAS Approach Versus Cannon and Holloman AFB Investigations 23
9.0 Mitigation and Remediation Considerations 25
9.1 Interim Options for the Community 25
9.1.1 POE System 26
9.1.2 POU System 26
9.2 Long-Term Options for the Community 27
10.0 Summary and Path Forward 28
11.0 References 29

List of Appendices

Appendix A JSAI Hydrogeologic Setting Report
Appendix B WEPL Source Identification Report
Appendix C Laboratory Reports

List of Figures

Figure 1. Site Location Overview
Figure 2. ARNG and PRWRF Groundwater Sampling Locations
Figure 3. ARNG and PRWRF Soil Sampling Locations
Figure 4. Sum of Detected PFAS
Figure 5. PFHxS, PFOA, PFOS, and Hazard Index Results (Above MCL)
Figure 6. PFAS Results Above MCLs
Figure 7. Surface Water Sampling Locations
Figure 8. Comparison of La Cieneguilla wells to the mean PRWRF wells and reference WWTP and septic effluent source.
Figure 9. Comparison of La Cieneguilla wells to PRWRF Well MW-01 and reference biosolids surface disposal.
Figure 10. Comparison of La Cieneguilla wells to the mean AASF and reference airport source.

List of Tables

Table 1. Summary of PFAS Data Sources Used in This Investigation
Table 2. Recommended Actions to Address Key Data Gaps
Table 3. ARNG AASF SI Groundwater Analytical Results
Table 4. PRWRF Groundwater Analytical Results
Table 5. ARNG AASF SI Soil Analytical Results
Table 6. PRWRF Soil Analytical Results
Table 7. PRWRF Wastewater Analytical Results
Table 8. PRWRF Process Analytical Results
Table 9. Surface Water Analytical Results
Table 10. Domestic Water Supply Wells Analytical Results

Acronyms and Abbreviations

µg/kg	micrograms per kilogram
AASF	Army Aviation Support Facility
AFB	Air Force Base
AFFF	aqueous film-forming foam
AFW	Amec Foster Wheeler Programs, Inc.
ANSI	American National Standards Institute
ARNG	Army National Guard
BLM	Bureau of Land Management
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CSM	conceptual site model
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
EA	EA Engineering, Science, and Technology, PBC
EBTAG	Española Basin Technical Advisory Group
EPA	U.S. Environmental Protection Agency
ft	foot/feet
GAC	granular activated carbon
HFPO-DA	hexafluoropropylene oxide dimer acid
HI	hazard index
INTERA	INTERA Incorporated
IPRA	Inspection of Public Records Act
IX	ion exchange
JSAI	John Shomaker & Associates, Inc.
KDF	kinetic degradation fluxion
LCMDWCA	La Cienega Mutual Domestic Water Consumers Association
MCL	maximum contaminant level
ng/L	nanograms per liter
ND	non-detect
NERP	Navy Environmental Restoration Program
NMED	New Mexico Environment Department
NMOSE	New Mexico Office of the State Engineer
NSF	National Sanitation Foundation
PA	Preliminary Assessment
PFAS	per- and polyfluoroalkyl substances
PFBS	perfluorobutanesulfonic acid
PFCA	perfluoroalkyl carboxylic acid

PFDA	perfluorodecanoic acid
PFHpA	perfluoroheptanoic acid
PFHxS	perfluorohexanesulfonic acid
PFNA	perfluorononanoic acid
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
PFOSA	perfluorooctanesulfonamide
PFPeA	perfluoropentanoic acid
PFPeS	perfluoropentanesulfonic acid
PFSA	perfluorosulfonic acid
POE	point-of-entry
POU	point-of-use
ppt	parts per trillion
PRWRF	Paseo Real Wastewater Reclamation Facility
QA	quality assurance
QC	quality control
Report	Professional Report, La Cienega and La Cieneguilla PFAS Investigation, Santa Fe County, New Mexico
RI	remedial investigation
RO	reverse osmosis
SAP	Sampling and Analysis Plan
SI	site inspection
Study Area	La Cienega and La Cieneguilla communities
TOP Assay	Total Oxidizable Precursor Assay
WEPL	Western Environmental Pty Ltd
WQA	Water Quality Association
WWTP	wastewater treatment plant

1.0 Introduction

INTERA Incorporated (INTERA) prepared this Professional Report (Report) to document the investigation of per- and polyfluoroalkyl substances (PFAS) contamination in groundwater affecting domestic water wells in the La Cienega and La Cieneguilla communities (Study Area) of Santa Fe County, New Mexico. The investigation was conducted in accordance with the Work Plan dated August 16, 2024 (INTERA, 2024) and authorized by Santa Fe County under the Professional Services Agreement dated August 27, 2024. Field activities occurred between April and August of 2025 and included the collection and analysis of samples from domestic drinking water wells and surface water. The investigation Study Area is illustrated on **Figure 1** and is described below.

1.1 Background and Regulatory Framework

A site inspection conducted in 2022 by the Army National Guard (ARNG) at the Army Aviation Support Facility (AASF) detected PFAS in groundwater approximately 1.3 miles upgradient from domestic drinking water wells (EA Engineering, Science, and Technology, PBC [EA], 2023). The health concerns related to this discovery prompted Santa Fe County to sample and analyze six domestic drinking water wells in 2023, selected from an estimated approximately 1,000 domestic drinking water wells (New Mexico Office of the State Engineer [NMOSE] GIS database, 2024). Results indicated PFAS in five of the six wells, with three exceeding the U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs). Based on these findings, Santa Fe County, in collaboration with the New Mexico Environment Department (NMED) and the City of Santa Fe, procured services to perform a comprehensive investigation of PFAS in groundwater and surface water within the Study Area. This Report presents the results of that investigation.

PFAS investigation and response activities are implemented within regulatory frameworks at both the federal and state levels. The EPA finalized national primary drinking water standards for six PFAS compounds in 2024, establishing enforceable MCLs under the Safe Drinking Water Act for public drinking water systems. These MCLs can also be used to evaluate potential health risks to private drinking water well owners. EPA also designated perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) as hazardous substances under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), triggering additional reporting and cleanup requirements at sites where releases have occurred. In New Mexico, NMED applies these federal standards for drinking water along with its own human health risk–based soil screening levels to assess groundwater quality and determine the need for remedial action. This regulatory framework guided the planning and execution of the investigation, informed decisions on data gaps, and supported coordination between Santa Fe County and NMED.

1.2 Project Goals

The primary goals of this investigation were to define the extent of PFAS contamination affecting the La Cienega and La Cieneguilla communities, identify the source or sources of contamination, and develop

feasible alternatives for mitigation and/or remediation. To achieve these goals, the investigation focused on the following key elements:

1. Estimating the probable flow path(s) for fate and transport of the PFAS using a hydrogeologic conceptual site model (CSM) based on previous studies.
2. Applying information from previous studies and the probable flow paths to design a sampling and analysis plan.
3. Identifying area(s) of the communities of La Cienega and La Cieneguilla that are impacted by PFAS concentrations exceeding EPA and NMED drinking water standards.
4. Developing a structured decision-making approach (e.g., decision matrix) to evaluate the feasibility of mitigation measures and/or remediation strategies that provide short-term and long-term solutions for residents in the Study Area.
5. Identifying the challenges to mitigation measures and remediation strategies and determining how they can be managed.
6. Communicating project information to La Cienega and La Cieneguilla community members.

The investigation was conducted in a phased approach, allowing new data to be incorporated into updates of the CSM, adjustments to the sampling strategy, and evaluation of potential mitigation and remediation alternatives. The scope was refined as additional information became available, and all findings were documented and communicated to stakeholders in a clear and timely manner.

1.3 Study Area Location and Land Use

The Study Area encompasses approximately 13.4 square miles southwest of the City of Santa Fe in Santa Fe County, New Mexico, just outside city limits. The Study Area is roughly bound by US Interstate 25 to the southeast and the Santa Fe River to the northwest. The Santa Fe Regional Airport, located on the northeast side within the city limits, is the most upgradient location within the Study Area at an approximate elevation of 6,350 feet (ft). Surface water features include the Santa Fe River, Cienega Creek, and numerous associated acequias, tributaries, and springs. Surface water generally flows from northeast to southwest, with the lowest elevation—approximately 5,850 ft—occurring at the southwest corner of the Study Area near the confluence of Cienega Creek, Alamo Creek, and the Santa Fe River.

Land within the Study Area is primarily used for residential and agricultural purposes, while areas outside the Study Area support light industrial activities. The Study Area has a rich cultural heritage, with archaeological evidence indicating human occupation dating back 5,000 years and acequias established in the 18th century. Drinking water is predominantly supplied by private domestic drinking water wells and is supported by a Mutual Domestic water system in La Cienega. Wastewater disposal is managed through individual septic systems.

1.4 Site Geology

The Study Area is located within the Española Basin in the Rio Grande Rift and along the east border of the Rio Grande trough. The Basin formed over 25 million years ago as a wide area of land was pulled apart by plate tectonic stress and subsided. During basin formation, large swaths of sediment washed in due to the flow of the ancient Rio Grande drainage system, while occasional volcanic episodes deposited

lava and ash. These infill sediments comprise the aquifer system that serves as the primary source of water for residents living within the basin (Española Basin Technical Advisory Group [EBTAG], n.d.).

Rifting within the Española Basin as early as the Oligocene epoch experienced the most active period of subsidence during the Miocene (Grauch and Hudson, 2007). The Santa Fe area is comprised primarily of four main stratigraphic units: Precambrian igneous and metamorphic rocks in the East that include the foothills of the Sangre de Cristo mountains; Neogene- to Quaternary-aged volcanic and sedimentary rocks in the southwest; Quaternary basalt flows in the west; and the Santa Fe group basin infill in the piedmont slope (Spiegel and Baldwin, 1963; Grauch and Hudson, 2007).

The piedmont slopes cover most of the area and are underlain by late Cenozoic basin fill deposits called the Santa Fe marls. The 300-ft-thick section of marls is composed of silty sandstones, sand, and gravel. This layer overlies the sedimentary and igneous bedrock floor (Spiegel and Baldwin, 1963).

1.5 Site Hydrogeology

The Study Area is within the Española Basin, a major structural depression of the Rio Grande Rift. Basin formation began over 25 million years ago, when regional crustal extension caused the land to subside. Near-surface sediments deposited within the Española Basin, which make up the primary aquifer system, are represented by the Tertiary-Quaternary Santa Fe Group.

Within the Study Area, the Santa Fe Group is comprised of the Ancha Formation (Pliocene to Lower Pleistocene) and the Tesuque Formation (Upper Oligocene to Lower Miocene). The principal aquifer that provides water to the La Cienega and La Cieneguilla communities is contained within these formations (EBTAG, n.d.). Additional details of the hydrogeology of the Study Area are provided in Section 3 and in the report by John Shomaker & Associates (JSAI) titled *La Cienega-La Cieneguilla Hydrogeologic Setting for Santa Fe County PFAS Investigation*, included in Appendix A.

1.6 Previous Investigations

The AASF, the biosolids surface disposal site, and influent and effluent from the Paseo Real Wastewater Reclamation Facility (PRWRF) have undergone limited PFAS investigation. In 2020, the ARNG conducted a preliminary assessment (PA) at Santa Fe AASF identifying two potential PFAS release areas (AECOM, 2020). During site inspection (SI) planning and review of historical aerial photographs, evidence of surface biosolid disposal from the adjacent wastewater treatment plant (WWTP) was noted extending into the current AASF lease area at its northern end. This area was designated for further evaluation under the SI as a historical potential release area.

An SI was subsequently conducted at the AASF to determine the presence or absence of PFAS, at or above screening levels in effect at that time. Field activities included surface and subsurface soil sampling, installation and development of permanent monitoring wells, and groundwater sampling (Figures 2 and 3). The SI was conducted during two mobilizations in February 2022 and April–June 2022 (EA, 2023). Results confirmed PFAS in soil and groundwater exceeding screening levels, warranting further evaluation in a remedial investigation (RI) that is ongoing. In response, Santa Fe County tested six domestic drinking water wells in La Cienega and La Cieneguilla in October 2023, detecting PFAS in

five of the six wells, three of which were above the MCLs. Additionally, some residents submitted private drinking water well samples for laboratory testing.

The City of Santa Fe PRWRF, located northeast of La Cieneguilla and directly north of the AASF, has also been investigated. PFAS sampling at the PRWRF was conducted in June 2020, February 2023, and September 2023. The June 2020 event detected PFAS in the influent, effluent, biosolids, and compost. The February 2023 event analyzed only effluent and had detections for two of the three PFAS compounds analyzed for. The September 2023 sampling focused on groundwater monitoring wells; of the nine wells sampled, two monitoring wells had detectable concentrations of PFAS. Subsequently, the City of Santa Fe initiated a broader investigation at the PRWRF, including soil sampling in biosolid disposal areas and quarterly groundwater monitoring. This effort began in June 2024 and concluded in March 2025 after four quarters of groundwater data were collected (Figure 2). Soil sampling occurred in July 2024 and March 2025 to characterize PFAS concentrations in land-applied biosolids and underlying soils (Figure 3). Groundwater reporting results for this effort also provided well location and completion information. Further review of the quarterly sampling results at the PRWRF monitoring wells can be found in Section 6.1.

1.7 Report Organization

This Technical Report is organized to present the methods, data, and findings of the investigation in a clear and sequential manner. **Section 2.0** summarizes all available data reviewed for this Project, evaluates data quality and completeness, and identifies initial data gaps. **Section 3.0** provides the hydrogeologic characterization of the Study Area, including development of the conceptual site model and evaluation of groundwater flow and aquifer conditions.

Section 4.0 describes the groundwater flow modeling and particle-tracking analyses used to evaluate potential PFAS migration pathways. **Section 5.0** presents the field investigation program, including sampling design, field methods, analytical results, and data validation procedures. **Section 6.0** provides an evaluation of potential PFAS sources through review of land use, analytical signatures, and spatial correlation of detections.

Section 7.0 outlines remaining data gaps and recommended additional investigations to support further refinement of the CSM. **Section 8.0** compares the project design and execution of other, similar PFAS projects in New Mexico with the PFAS work being conducted in Santa Fe County. **Section 9.0** summarizes mitigation and remediation technologies considered for site conditions and evaluates potential interim and long-term options for the communities. **Section 10.0** presents an overall summary of findings and recommended next steps. **Section 11.0** contains the references cited in this report.

2.0 Data Review and Evaluation

2.1 Summary of Available Data Sources

As noted in **Section 1.6**, previous investigations include the PA and SI reports for the ARNG AASF, as well as data collected by the PRWRF and Santa Fe County. Following the identification of PFAS contamination in the ARNG AASF SI, Santa Fe County conducted a targeted sampling event to evaluate PFAS in the La Cienega and La Cieneguilla communities. After this sampling event confirmed the presence of PFAS in private drinking water wells downgradient from the PRWRF and the AASF, many residents opted to have their private wells tested for PFAS as well.

INTERA submitted an Inspection of Public Records Act (IPRA) request to the City of Santa Fe on April 24, 2024, for PFAS sampling data at the PRWRF. In response, INTERA received a sampling report from June 2020 and September 2023. The response to an IPRA request submitted to NMED on May 3, 2024, provided an additional laboratory report from February 2023, required by Condition #19 in Discharge Permit 289 (DP-289). **Table 1** lists the available data sources utilized to develop the sampling strategy for this investigation.

In addition to PFAS data sources, public resources were used to build a more comprehensive evaluation of the Study Area. Maps and files from the NMOSE were used to gather an initial determination of domestic drinking water well locations and well construction details. The Santa Fe County Assessor website was used to determine property boundaries and ownerships for mapping and securing access agreements.

2.2 Evaluation of Data Quality and Completeness

Sampling protocols consistent with accepted PFAS best practices were followed for the collection and analysis of samples obtained at the AASF, City of Santa Fe, and Santa Fe County locations. In contrast, PFAS results provided directly by community members were evaluated with caution, as samples collected outside of controlled conditions may not adhere to standard field procedures. Given the extremely low detection limits associated with PFAS analytes, even minor deviations from established sampling protocols can introduce contamination or bias into the results.

Analytical completeness varied across the datasets. Not all laboratory reports included the same suite of PFAS compounds; some results were generated using EPA Method 533 (25 analytes), 537.1 (18 analytes), or 1633 (40 analytes), while older datasets included only a limited subset of analytes (typically PFOA, PFOS, and perfluorohexanesulfonic acid [PFHxS]). These differences in analytical methods and historical shifts in target analyte lists were considered when assessing data comparability and evaluating temporal and spatial trends.

PFAS results reported as non-detect (ND) were excluded from numerical calculations. No surrogate values (e.g., zero, one-half the reporting limit, or the full reporting limit) were assigned. As a result, calculated statistics (e.g., sums of detected PFAS, and comparisons to screening levels) reflect only those concentrations at or above the laboratory reporting limits.

2.3 Identification of Initial Data Gaps

Initial review of existing data identified several limitations that may affect the completeness and interpretability of PFAS conditions within the Study Area. These limitations include well construction details, inaccurate spatial data, and an irregular sampling distribution.

INTERA attempted to collect well construction and completion information (including total depth, screen interval, and annular seal presence) from property owners and NMOSE, but data are often missing, which constrains the ability to evaluate vertical gradients and potential influence of construction practices on observed PFAS concentrations. Geographic coordinates for wells, obtained from the state database, can exhibit positional inaccuracies, introducing uncertainty into spatial analyses and the interpretation of plume geometry or proximity to potential source areas. Finally, available sampling results are distributed across scattered portions of the community rather than derived from a systematic design, limiting the degree to which these data can be considered representative of the broader Study Area.

Additionally, temporal data gaps are also present, as most locations have only one sampling event, reducing the ability to assess trends, temporal variability, or the influence of changes in site conditions over time.

Community-supplied information has been used to supplement the formal dataset and provide additional context; however, as previously discussed, these data cannot be treated as definitive due to potential variability in sample collection and method of analysis.

3.0 Hydrogeology Characterization

As noted in Section 1.2 (Project Goals), estimating probable flow paths for PFAS transport from possible source areas and using this estimation to inform sampling and analysis decisions were key elements of the investigation. To support these goals, a desktop study of the Study Area's hydrogeology was conducted, and an existing groundwater flow model for the Santa Fe area was updated using findings from the study. This work was performed by JSAI, and their report on hydrogeology and model development is provided in Appendix A. The following subsections summarize findings most relevant to the Project Goals. Additional details are incorporated throughout this section to present an updated hydrogeologic conceptual site model. Groundwater flow model update results are discussed in **Section 4**.

The hydrogeology of the Santa Fe area has been studied in detail by Spiegel and Baldwin (1963), Johnson et al. (2013), and Koning and Read (2010), and the hydrogeology of the La Cienega area has been studied in detail by Johnson et al. (2016) and Finch (2023). These existing studies, combined with more recent well logs like those developed for the SI at the AASF, the discharge permit monitoring wells at the biosolids discharge area, and those available in the NMOSE database for private domestic drinking water wells, were used to characterize the hydrogeology of the Study Area.

As shown in the geologic map and cross sections in the report provided by JSAI (Appendix A), Quaternary alluvium exists at the surface of the AASF, the PRWRF effluent discharge location, and the biosolids discharge area, which have been identified as possible source locations. Beneath the alluvium lies the Ancha Formation (Quaternary/Tertiary), which also crops out at the Santa Fe Regional Airport, another PFAS potential source area.

The Ancha Formation and underlying Tesuque Formation contain the regional aquifer that supplies groundwater to domestic drinking water wells within the Study Area. This aquifer has been impacted by PFAS. Monitoring wells at the AASF are screened across a perched groundwater zone within the Ancha Formation and across deeper intervals in the Ancha and Tesuque units below the regional water table.

Groundwater samples from perched wells AOI01-02 and -04 at the AASF contained relatively high concentrations of dissolved-phase PFAS, as did MW-1 within the biosolids discharge area (Appendix A, Figure 7). As discussed further in Section 5, PFAS was also detected in groundwater samples collected from the domestic drinking water wells in La Cieneguilla and to a lesser extent in domestic drinking water wells sampled within La Cienega. Most domestic drinking water wells in the two communities are completed in the Ancha Formation, where saturated, and in the Tesuque Formation, where the Ancha Formation is not saturated. The area of saturated Ancha can be referenced in Figure 2 of the JSAI report (Appendix A).

Key elements of the hydrogeologic CSM that affect groundwater flow, and consequently, PFAS movement include:

1) **Groundwater Flow Direction**. Generally, groundwater flows from northeast to southwest, but local variations occur near the groundwater divide created by the Tesuque Ridge (Appendix A, Figures 2 and 8).

- On the northwest side of the divide, which includes the source areas and La Cieneguilla, groundwater flow is towards the Santa Fe River and locally towards major pumping stresses like irrigation well RG-590 or former supply wells for the airport. Groundwater mounding is expected below the losing sections of the Santa Fe River; monitoring near the biosolids discharge area indicates a hydraulic gradient towards the southwest of 0.0033 ft/ft.
- On the southeast side of the divide, in portions of the Santa Fe Regional Airport and in La Cienega, groundwater flow is towards Cienega Creek. This groundwater flow divide explains the existence of higher PFAS in samples collected from La Cieneguilla drinking water wells relative to La Cienega drinking water wells and supports source locations at the AASF, PRWRF, and biosolids areas.

2) **Permeability Differences Between Formations**. The coarse-grained unit of the Ancha Formation was deposited within paleochannels and has a hydraulic conductivity of approximately one order of magnitude greater than that of the underlying Tesuque Formation. This difference, combined with the likelihood of vertical upward flow from the Tesuque Formation to the Ancha Formation, suggests that PFAS contamination is currently limited to the Ancha Formation. However, this assumption remains uncertain and is considered a data gap until wells designed to test this element are installed and monitored.
3) **Darcy Tracer Velocity**. Using the average hydraulic conductivity of the Ancha Formation of 52.3 ft/day (Appendix A, Table 2), a hydraulic gradient of 0.0033 ft/ft, and an effective porosity of 0.1 results in a Darcy tracer velocity (also known as pore water velocity) of 17.5 ft/day. PFAS transport will be retarded so its movement through the Ancha Formation will be at a slower rate.
4) **Perched Groundwater**. The perched zone identified at the AASF appears to be inhibiting vertical movement of groundwater containing PFAS (Appendix A, Figure 7). The geometry (i.e., the extent and thickness) of this unit has not been determined, which significantly influences the PFAS transport from the AASF. This represents a major data gap in the hydrogeologic CSM.
5) **Losing vs. Gaining Sections of the Santa Fe River**. The section of the Santa Fe River near the PRWRF discharge location and extending to the La Cieneguilla boundary is losing, meaning surface water infiltrates into underlying units and eventually enters the regional aquifer. If PFAS is present in surface water, this losing section may act as a secondary source of groundwater contamination. Conversely, gaining sections of the river receive groundwater discharge, which could introduce PFAS into surface water.

4.0 Groundwater Flow Model

An existing groundwater flow model developed by JSAI (2018) was updated to evaluate contaminant transport pathways in the Study Area. The objective was to support development of the investigation Sampling and Analysis Plan (SAP) (INTERA, 2025) and assess potential PFAS source areas that may have contributed to domestic drinking water well impacts. A summary of the model and simulated particle migration results is provided below; the full JSAI report detailing model development, updates, calibration, and predicted flow paths is included in Appendix A.

The model was constructed and updated using the MODFLOW-96 finite difference code with the Groundwater Vistas graphical interface. The JSAI (2018) model extent is shown in Figure 9 of the JSAI report (Appendix A), which includes the southwestern corner of the Study Area. The model consists of four layers:

- **Layer 1** represents the Ancha Formation and the coarse-grain unit of Lithosome S of the Tesuque Formation.
- **Layers 2 through 4** represent deeper finer-grained units within the Tesuque Formation.

Updates made to improve representation of the hydrogeologic conditions in the Study Area are summarized in Table 5 of the JSAI report (Appendix A).

Particle-tracking simulation indicated that particles released from the PRWRF, AASF, and the Santa Fe Regional Airport areas migrate towards Cieneguilla Spring, the gaining section of the Santa Fe River, and domestic drinking water wells located west of the Santa Fe River (Figure 11, Appendix A). Based on these results, drinking water wells located along the modeled flow paths were targeted for sampling and analysis. Investigation results show a PFAS distribution that is in good agreement with the modeled flow paths.

5.0 Field Investigation

Field investigation activities for this study began in April 2025 and continued through August 2025. The initial round of groundwater sampling was executed concurrently with a door-to-door outreach effort to maximize participation and access to private drinking water wells within the Study Area.

5.1 Sampling Design and Rationale

INTERA designed the field investigation as a dynamic, data-driven program intended to strategically refine the conceptual site model, support future decision-making, and ensure the effectiveness of project activities.

5.1.1 Selection Criteria for Sampling Locations

Selection of drinking water wells for sampling was guided by multiple lines of evidence, including review of existing PFAS data, interpretation of groundwater modeling results, and the need for comprehensive characterization of contamination in La Cienega and La Cieneguilla. Existing data sources, described in **Section 2.1**, include results from prior sampling conducted by various entities and provide an initial indication of potential PFAS source areas, migration pathways, and distribution of PFAS. The calibrated groundwater model, evaluated under both steady-state and transient flow conditions, provided a spatial representation of groundwater flow directions and gradients within the Study Area, enabling targeted selection of drinking water wells along key flow paths and in areas of inferred plume migration.

Other considerations for proposed sampling locations included: targeting drinking water wells with varying total depths relative to ground surface and distributed throughout the Study Area to improve spatial and vertical coverage; targeting multi-household systems where a single drinking water well serves multiple residences; and targeting drinking water wells to inform the feasibility and prioritization of potential mitigation measures. While these criteria were applied to develop an initial list of target locations, ultimate inclusion in the sampling program was contingent on property owner interest and willingness to grant access for sampling.

5.1.2 Community Outreach and Access Efforts

To obtain access to private drinking water wells, approximately 100 letters were mailed to La Cienega and La Cieneguilla community residents requesting participation in the investigation and offering free PFAS testing of their domestic drinking water wells. Santa Fe County also hosted a public open house to provide information about the study, answer questions, and allow residents to indicate interest in having their drinking water wells sampled. In addition, INTERA conducted a targeted door-to-door outreach campaign encompassing both the La Cienega and La Cieneguilla communities, during which approximately 40 homes were visited to discuss the investigation and solicit access agreements.

These outreach activities were supplemented by ongoing communication through community events, word-of-mouth, and distribution of information via community email distribution lists and listservs. Collectively, these efforts resulted in executed access agreements that allowed INTERA to collect eight surface water samples and 34 groundwater samples for PFAS analysis.

5.2 Field and Lab Methods

Groundwater and surface water sampling methods are identified and described in detail in the SAP (INTERA, 2025). The SAP was delivered to Santa Fe County on March 31, 2025, prior to the initiation of sampling. The SAP specifies project data quality objectives, sample collection and handling procedures, field quality assurance/quality control (QA/QC) requirements, and the analytical program, including applicable PFAS methods and reporting requirements. For each sampling event, INTERA field teams implemented the procedures and guidance presented in the SAP, including documentation of field conditions and adherence to chain-of-custody and QA/QC protocols, to ensure that data generated during the investigation are suitable for their intended use.

Groundwater, surface water, and sediment samples were submitted to Pace Analytical in accordance with the chain-of-custody procedures outlined in the SAP. Laboratory reports are provided in Appendix C, respectively. All samples were analyzed for 40 PFAS compounds via EPA Method 1633 liquid chromatography tandem mass spectrometry.

5.3 Data Validation and Usability

Data validation and usability criteria are defined in the SAP. The SAP outlines QA/QC requirements related to field activities, sample preparations and procedures, and quality control considerations such as field blanks and laboratory QC results to assess fulfillment of the project's data quality objectives. Based on this review, PFAS data generated by INTERA are considered usable for the purposes of this investigation and appropriate for supporting the interpretations and conclusions presented in this report. As noted in **Section 2.2**, community-supplied sampling data were used to support overall understanding of potential PFAS impacts. Select locations were re-sampled by INTERA to verify reported results and to provide consistency with the analytical methods and QA/QC framework applied in this study.

5.4 Summary of Analytical Results

For purposes of this investigation, the detected PFAS of analytes quantified using EPA Methods 533, 537.1, or 1633 in a given sample were summed. This summed PFAS metric is used in this report as a tool to facilitate comparison of PFAS values among sampling locations and to support evaluation of potential sources and transport pathways. It does not represent a true mass balance of all PFAS present and should be interpreted within the constraints of the analytical methods and reporting limits. Analytical results were evaluated in the context of current MCLs for the regulated PFAS compounds.

Of the 16 groundwater samples collected in La Cienega by INTERA, only one location (DWS-63) had any detectable PFAS compounds, and no detections exceeded an MCL. Of the two surface water samples collected from La Cienega Creek, one location (SWS-02), situated downstream of most of La Cienega, exhibited low-level PFAS detections (primarily PFOA and PFOS).

In La Cieneguilla, INTERA-collected samples showed multiple MCL exceedances, with the sum of detected PFAS (EPA Method 1633) reaching nearly 150 nanograms per liter (ng/L) at one location. The most elevated PFAS concentrations were commonly observed along the south, southwest, and west borders of the Santa Fe Airport (Figure 4). Community-supplied data also indicated high PFAS

concentrations along the southwestern edge of the La Cieneguilla community. Analysis of an INTERA-collected sample in this vicinity similarly showed elevated PFAS concentrations, corroborating the presence of high PFAS levels in the area. No PFAS were detected at the southern end of the main La Cieneguilla community. However, a sample collected approximately one mile south of the main La Cieneguilla community exhibited elevated PFAS concentrations with several MCL exceedances.

The spatial distribution of MCL exceedances for individual PFAS compounds with established MCLs is illustrated in Figure 5. No exceedances of perfluorononanoic acid (PFNA) were observed in any drinking water samples evaluated for this study. Hexafluoropropylene oxide dimer acid (HFPO-DA, also known as GenX) was not detected in any PFAS samples; however, EPA Method 537.1, which does not include GenX was often used for analysis, especially within the La Cieneguilla community, and therefore, GenX could not be consistently evaluated across the Study Area. Many of the same wells exceed MCLs for more than one PFAS compound. The largest footprint of exceedances is associated with PFHxS, which also exhibits the highest observed concentration at 230 ng/L (23 times the MCL). In contrast, the hazard index (HI) has the fewest exceedances. Figure 6 represents the overall footprint of exceedances for any regulated PFAS compound and illustrates that MCL exceedances are confined to wells within La Cieneguilla, with no MCL exceedances observed in La Cienega.

All surface water sample locations in the Santa Fe River contained detectable levels of PFAS. Currently, the State of New Mexico does not have fully adopted surface water quality criteria specific to PFAS. Instead, New Mexico relies on a narrative toxicity standard and uses a screening value of 40 ng/L for the sum of PFOA and PFOS in certain permitting contexts to determine whether additional evaluation of surface water discharge is warranted. None of the samples from Santa Fe River exceeded this 40 ng/L PFOA+PFOS screening value, and only one surface water location (SWS-05) approached it (32 ng/L). The sum of all detected PFAS analytes in Santa Fe River samples averaged 71.8 ng/L, with one sampling location (SWS-04) exceeding 100 ng/L (Figure 7). This highest summed detected PFAS concentration was observed at the most downstream Santa Fe River location. Proposed additional work includes extending surface water sampling further downstream to better characterize PFAS occurrence in the Santa Fe River.

Although the lateral distribution of PFAS impacts within the La Cienega and La Cieneguilla communities is now better defined, the vertical extent of PFAS contamination remains less well constrained. Well construction across the Study Area is highly variable, with wells completed at different depths and with differing screen intervals over complex topography. During this investigation, efforts were made to sample both shallow and deeper wells to improve understanding of vertical distribution. However, many wells initially believed to be completed in the Tesuque Formation were either recompleted with screen intervals extending back into the Ancha Formation or were located at higher elevations where thick Ancha sections prevented completion into the Tesuque. As described in Section 7.0, proposed dedicated monitoring wells will be installed at selected locations along the Santa Fe River and downgradient of the AASF. The deep wells will be completed and screened in the Tesuque formation to improve characterization of PFAS occurrence at depth and to better evaluate hydraulic communication between the Ancha and Tesuque Formations.

6.0 PFAS Source Evaluation

Western Environmental Pty Ltd (WEPL) was subcontracted to perform a screening-level source evaluation of PFAS contamination in the Study Area, based on data collected from multiple investigations (2020–2025). This section summarizes the key findings and data limitations from WEPL's screening level source evaluation and presents additional relevant information not included in the WEPL report and recommendations based on the findings. The full report, which includes applicable figures, tables, and plates, is included in Appendix B. The evaluation compares groundwater quality data from La Cieneguilla drinking water wells and surface water quality data from gaining sections of the nearby Santa Fe River with groundwater and surface water data collected at potential source areas, as well as groundwater quality data from sites with known PFAS sources. Figures 8-10 graphically illustrate these comparisons.

6.1 Key Findings

Areas included in this screening level source evaluation include the PRWRF, the AASF, and the La Cienega and La Cieneguilla communities. As no exceedances in PFAS MCLs were identified in INTERA-collected samples and the identified groundwater divide (**Section 3.0**) likely creates a hydrogeologic separation between the communities, effectively isolating contamination to La Cieneguilla for now, the focus of this section is on PFAS results in La Cieneguilla. Potential PFAS sources to groundwater contamination include: the discharge of treated effluent at the PRWRF, application of biosolids generated by the PRWRF to a surface disposal site, historical aqueous film-forming foam (AFFF) use and storage at the AASF, septic system usage in the two communities, potential historical AFFF use and storage at the Santa Fe Regional Airport, and other unknown releases of materials containing PFAS.

No PFAS data are available at this time from the Santa Fe Regional Airport or from septic systems within the Study Area. The screening level source evaluation focuses on PFAS data collected from La Cieneguilla drinking water wells and surface water from gaining sections of the nearby Santa Fe River.

The PRWRF may have contributed PFAS to groundwater via treated effluent discharge to a losing section of the Santa Fe River. PFAS (PFOA, PFOS, PFHxA, perfluoropentanoic acid [PFPeA], and perfluoroheptanoic acid [PFHpA]) in the effluent of the wastewater treatment plant was detected in laboratory analyses of a limited suite of PFAS compounds from a sample collected June 2020 and February 2023. PFAS was detected in the effluent of the WWTP (WWTP, 65.6 ng/L) sampled June 17, 2020. The sample collected February 1, 2023, contained PFOS at estimated concentration of 1.4 ng/L and PFOA at 6.8 ng/L. Low concentrations of PFAS (perfluorobutanesulfonic acid [PFBS] at up to 2.67 ng/L) were detected in a groundwater sample collected from monitoring well MW-4A, located near the treated water discharge location for the PRWRF.

As illustrated in Figure 8 and Plate 1 in the WEPL Report (Appendix B), effluent sample results have a typical WWTP PFAS signature (i.e., dominated by perfluoroalkyl carboxylic acids [PFCAs]), but notably lacked perfluorosulfonic acid (PFSA). In contrast, La Cieneguilla groundwater samples contained higher PFSA concentrations relative to PRWRF samples and what has been reported in samples of effluent from other WWTPs. Additionally, Santa Fe River surface water sample SWS-03 showed composition similarity

to the effluent sample. Further downstream, the PFAS signature in SWS-05, -06, and -07 shift from PFCA-dominant to a mixed PFSA/PFCA signature suggesting multiple sources to the Santa Fe River. A unique PFAS signature was observed further downstream at SWS-04 (Appendix B, Figure 5).

The PRWRF biosolids surface disposal site may have also contributed PFAS to groundwater. PFAS were detected in all soil samples collected within the PRWRF biosolids surface disposal site. Concentrations above the NMED soil screening level for the soil to groundwater pathway were detected in the samples collected at 2 ft below ground surface from five of the soil borings and the surface materials sample collected from one soil boring. The most frequently detected analyte, also with the highest concentrations, was PFOS, ranging from 0.420 micrograms per kilogram (µg/kg) to 119 µg/kg (DBS&A, 2024).

Seven monitoring wells (MW-1 through MW-7) at the PRWRF were sampled over four consecutive quarterly monitoring events. PFAS was consistently detected in MW-1 and MW-4A (PFBS only), with the highest concentrations observed in MW-1. MW-4A is located northwest of the PRWRF facility, downgradient of the outfall and adjacent to the discharge channel to the Santa Fe River, whereas MW-1 is located west of the biosolids surface disposal site. Across the four events, maximum detected concentrations in MW-1 included PFPeA (24.0 ng/L), PFHxA (21.1 ng/L), PFBS (14.4 ng/L), and PFBA (11.2 ng/L), with lower but recurrent detections of PFOA, PFHpA, PFHxS, perfluoropentanesulfonic acid (PFPeS), and PFOS (DBS&A, 2024a, 2024b, 2025, 2025a). PRWRF MW-1 shows similarities to groundwater typically found at biosolids surface disposal sites with a composition that includes PFBS, PFBA, PFPeA, and PFHxA (Figure 9). Perfluorooctanesulfonamide (PFOSA) was detected at low concentrations in MW-3 during two monitoring events (1.76 ng/L in September 2024 and 2.85 ng/L in March 2025) at an upgradient location where other PFAS have not been detected. These detections have been interpreted by the consultant performing the sampling as potential sampling or analytical artifacts and has indicated that PFOSA in MW-3 will be closely monitored in future events (DBS&A, 2024b, 2025a).

The AASF may have contributed PFAS to groundwater. Surface soil results showed PFOS concentrations up to 920 µg/kg and sum of detected PFAS in groundwater up to 790 ng/L, the highest measured groundwater result in the Study Area. The soil sampling results showed PFOS and PFHxS, indicative of historic AFFF use. However, groundwater samples collected from a perched groundwater zone showed a PFAS composition dominated by PFCAs in AOI01-04 and an approximately equal concentration of PFCAs and PFSAs in the sample collected from AOI01-02, suggesting mixed sources. Low-grade detections of PFAS occurred in monitoring wells screened from the regional aquifer (EA, 2023).

As illustrated in Figure 10 PFOS has not been detected in groundwater at the AASF, despite its presence in soils at the site. A typical airport source utilizing modern AFFF will have PFOS detections in groundwater. In contrast, PFOS contributes a substantial portion of the PFAS mass in several La Cieneguilla domestic drinking water wells, particularly in groupings adjacent to the Santa Fe River. Resolving the divergence in PFOS occurrence, absent in AASF groundwater monitoring points but elevated in La Cieneguilla drinking water wells, will require further investigation.

Different PFAS signatures were evident in groundwater between La Cieneguilla and La Cienega, indicating that different sources may be contributing to PFAS contamination on either side of the groundwater divide. The general PFAS composition throughout La Cieneguilla is dominated by PFCAs.

However, PFOS was detected in several groundwater samples collected from domestic drinking water wells throughout the area, with two discrete groupings adjacent to the Santa Fe River—one to the north and one to the south. The composition of PFAS at those locations showed a correlation to a typical airport signature. The sum of detected PFAS concentrations at La Cienega were low relative to La Cieneguilla (generally an order or magnitude lower). The PFAS composition in the La Cienega drinking water wells was predominantly comprised of PFCAs, with low levels of PFSAs detected at some locations. While both communities had PFAS detections comprised of both PFCAs and PFSAs, the specific analytes and distribution of the analytes showed no correlation.

6.2 Data Limitations

The following data limitations apply to the screening-level source evaluation:

- The data were compiled from independent investigations over five years and represents snapshots in time that may not reflect historic conditions.
- In most cases, only one data point is available from each location, limiting the ability to analyze effects of temporal, spatial, and seasonal changes.
- PFAS signatures can change over time and distance due to fate and transport processes, making source identification more difficult with increased distance.
- The analytical suites and methods varied. The exclusion of some analytes can influence visualization of the PFAS signature.
- There are no data from the Santa Fe Regional Airport area and limited data at the PRWRF area.
- A QA/QC assessment of the full dataset was not undertaken to determine its suitability for use in the screening level source evaluation.

6.3 Conclusions

A principal component analysis (PCA) of the available dataset for two different scenarios only captured 61% and 77% of the data variability within the first two generated components. Overall the results of the PCA were inconclusive and it was not possible to identify or differentiate contributions from separate PFAS source areas. Additional data at and down-gradient of potential PFAS source areas may improve the PCA outcome.

Potential source areas include the PRWRF, the AASF, the La Cieneguilla and La Cienega communities (septic influence), and the Santa Fe Regional Airport. The PRWRF may contribute via effluent discharge to the Santa Fe River and leachate from the biosolids surface disposal site. The AASF investigation results show soils with a PFAS composition typical of historic AFFF use, but groundwater with PFCAs and PFSAs suggests more than one source contributing to PFAS concentrations in groundwater at and surrounding the AASF and a need for more data. This contamination may have contributed to PFAS contamination in La Cieneguilla, but more investigation is needed between the AASF and La Cieneguilla. Different PFAS signatures were evident in groundwater between La Cieneguilla and La Cienega, indicating that different sources may be contributing to PFAS contamination on either side of the groundwater divide. No septic field data in these areas has been collected for analysis. Finally, while there are no on-site data available from Santa Fe Regional Airport, the airport may also be a source to

the groundwater impacts to these communities, based on presumed AFFF use and groundwater results downgradient corresponding to AFFF PFAS signatures. Based on the predictions of the groundwater model, groundwater flow and PFAS movement from the Santa Fe Airport, if present, are predicted to occur towards both La Cieneguilla and La Cienega.

6.4 Recommendations

Section 7.0 outlines the proposed approaches to address the key data gaps in this investigation. Implementing these actions will improve overall source characterization and strengthen the technical basis for evaluating PFAS transport and mitigation options.

7.0 Data Gaps and Recommended Actions

Review of available information and analysis of samples collected during this investigation identified several important data gaps that limit refinement of the conceptual site model and full evaluation of PFAS occurrence, transport pathways, and potential source contributions in the Study Area. These uncertainties relate to the limited spatial and temporal coverage of available data, variability and incomplete documentation of domestic well construction, incomplete understanding of hydrogeologic controls in certain areas, and the current inability to distinguish between multiple plausible PFAS sources.

Many of these data gaps are interrelated and can be addressed through a smaller set of coordinated follow-on actions. Accordingly, the recommendations below are organized by proposed action rather than by individual data gap. This structure is intended to emphasize the most practical path forward for Santa Fe County while also showing how each action would reduce one or more key uncertainties identified during this investigation.

Several of the recommended actions summarized in Table 2 are foundational and would support multiple aspects of the investigation. In particular, installation of additional monitoring wells and collection of repeated groundwater samples over time would reduce uncertainty associated with variable domestic well construction, improve delineation of PFAS in under-sampled portions of the Study Area, and provide a stronger basis for evaluating hydrogeologic controls and potential source contributions. Similarly, expanded surface-water, sediment, and vadose zone data would improve understanding of PFAS fate and transport beyond the currently sampled drinking water wells.

Because these actions address overlapping uncertainties, they may be most effective if implemented in a phased and coordinated manner. Early efforts should prioritize actions that improve delineation of PFAS in groundwater and strengthen understanding of key hydrogeologic controls, while additional analytical and forensics-focused work can be layered onto that framework as more data become available. Taken together, these follow-on activities would materially improve the conceptual site model and better position Santa Fe County, NMED, and other stakeholders to evaluate future mitigation and remediation options.

7.1 Additional Evaluation: Ecological Risk Assessment

Santa Fe County may also consider conducting an ecological risk assessment to evaluate potential PFAS impacts on environmental receptors in La Cieneguilla, particularly in the context of current and historic agricultural activities. INTERA is well positioned to support this effort, including identification of representative receptors (e.g., crops and forage plants, soil invertebrates, livestock, wildlife, and aquatic organisms in irrigation ditches and the Santa Fe River), characterization of PFAS concentrations in relevant media (soil, surface water, groundwater, sediment, and biota), and development of conceptual exposure models describing pathways such as uptake via irrigation water, soil and sediment contact, and ingestion of contaminated water or forage. Screening-level hazard quotients could be developed by comparing measured or modeled PFAS concentrations to available ecotoxicity benchmarks, with particular attention to bioaccumulation and potential transfer through the food web. As additional data

become available, the ecological risk assessment could be refined using site-specific exposure assumptions and toxicity values for key PFAS, providing a more comprehensive understanding of potential environmental impacts and helping prioritize mitigation and remediation measures that protect both human and ecological receptors.

8.0 Comparison with Similar Projects

As part of this PFAS investigation, Santa Fe County requested evaluation of other, similar PFAS projects in New Mexico and provided a comparison of project design and execution of those projects with the PFAS work being conducted in Santa Fe County. Based on a 2024 NMED presentation (NMED, 2024) and a 2024 press release (New Mexico Department of Justice, 2024), there are five major PFAS investigations in the State of New Mexico: Cannon Air Force Base (AFB), Holloman AFB, Kirtland AFB, White Sands Missile Range, and Fort Wingate, all Department of Defense (DoD)–affiliated. To compare DoD investigation approaches with the Santa Fe County PFAS investigation strategy, and as the most advanced PFAS investigations of the five, Cannon AFB and Holloman AFB PFAS activities are used. However, an understanding of the DoD framework for PFAS investigations supports the comparison of a more local project with one conducted under the DoD.

8.1 DoD Approach to PFAS

The DoD investigates and responds to PFAS contamination under CERCLA and the Defense Environmental Restoration Program (DERP). Its approach is risk-based, focused on protecting human health and the environment, and guided by a series of official memoranda issued by the Office of the Assistant Secretary of Defense (Energy, Installations, and Environment). Through the investigation and remediation process, the DoD coordinates closely with the EPA (where applicable) and state and local regulators.

Investigations under CERCLA include: preliminary assessments (PAs) to identify potential PFAS release areas; site inspections (SIs) to collect initial samples to confirm absence or presence; and remedial investigations (RIs to define nature and extent of PFAS contamination in various media. The DoD's approach to RIs typically moves forward in multiple phases to balance cost and risk. The RI also typically includes risk assessments to evaluate human health and ecological risks, which then provide enough information to move forward with feasibility studies for the assessment of cleanup.

Throughout the investigation and cleanup process, the DoD also utilizes removal actions, both time-critical and non–time-critical, as interim measures and/or long-term remedies to address immediate risk to human health. These include issuing bottled water, installing point-of-use (POU) or point-of-entry (POE) filters, drilling new wells, adding municipal water hookups, completing treatment plant upgrades, or utilizing other PFAS remediation technologies.

Throughout the investigation and response action process, the DoD retains community engagement through Restoration Advisory Boards (RABs) and public meetings.

DoD memoranda[1] directing actions on the investigation and cleanup of PFAS, and reinforcing consistency across Army, Navy, Air Force, National Guard, and Defense Logistics Agency, include:

[1] The list presented in this document is not comprehensive but includes the memoranda relevant to Santa Fe County's PFAS investigation.

- "Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program"[2]
    - original - DoD, October 15, 2019
    - superseded and cancelled by the ASD Memorandum, September 15, 2021
    - superseded and cancelled by the PDASD(EI&E) Memorandum, July 6, 2022
    - superseded and cancelled by the ASD(EI&E) Memorandum, August 24, 2023
    - superseded and cancelled by the ASD(EI&E) Memorandum, January 17, 2025 (current; sets the EPA regional screening levels for use in investigations)
- "Establishing a Consistent Methodology for the Analysis of Per- and Polyfluoroalkyl Substances in Media Other than Drinking Water"
    - original - DoD, November 22, 2019
    - superseded and cancelled by the ASD(S) Memorandum, December 7, 2021
    - superseded and cancelled by the ASD(EI&E) Memorandum, August 7, 2023
    - superseded and cancelled by the ASD(EI&E) Memorandum, May 1, 2024
- Guidance for Implementing Section 343 of the FY 2020 National Defense Authorization Act for Fiscal Year 2020, Provision of Water Uncontaminated with Perfluorooctanoic Acid and Perfluorooctane Sulfonate for Agricultural Purposes (August 4, 2020)
- Guidance for Including Certain National Guard Sites in the DERP (DoD, September 29, 2020; superseded and cancelled by the DASD(EMR) Memorandum, "Including National Guard Sites in the Defense Environmental Restoration Program," July 11, 2024)
- "Department of Defense Guidance on Using State Per- and Polyfluoroalkyl Substances (PFAS) Drinking Water Standards in Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Removal Actions" (December 22, 2021)
- "Public Disclosure of Department of Defense Testing Results of Per- and Polyfluoroalkyl Substances in Drinking Water Within a Covered Area" (DoD, April 26, 2022)
- "Addressing Per- and Polyfluoroalkyl Substances at Base Realignment and Closure Locations" (DoD, May 11, 2022)
- "Public Disclosure of Department of Defense's Planned Testing of Per- and Polyfluoroalkyl Substances in Drinking Water Within a Covered Area" (DoD, June 15, 2022)
- "Memorandum for Taking Interim Actions to Address Per- and Polyfluoroalkyl Substances Migration from DoD Installations and National Guard Facilities" (DoD, July 11, 2023)
- "Prioritization of Department of Defense Cleanup Actions to Implement the Federal Drinking Water Standards for Per-and Polyfluoroalkyl Substances Under the Defense Environmental Restoration Program" (DoD, September 3, 2024)
- Reinforced consistency across Army, Navy, Air Force, National Guard, and Defense Logistics Agency

[2] Note that with each new issuance of this memo, the services were directed to review all existing data against new screening levels and incorporate those levels into existing SIs to determine if further investigation in the RI was warranted.

Utilizing this list of memos, each service (Army, Navy, etc.) investigates and takes action for PFAS under their respective programs created under the DERP (for example, the Navy Environmental Restoration Program [NERP]). While the framework is consistent, pace and thoroughness of investigations varies and has led to delays in many locations.

8.2 Cannon Air Force Base

Under the framework as described in Section 8.1, Cannon AFB has completed the PFAS PA, the PFAS SI, and an off-base SI. The RI is in progress. The PA was completed in October 2015 (HydroGeoLogic, Inc., 2015) and identified multiple potential release areas, including fire training areas, hangars, and wastewater discharge points. The SI was completed in August 2018 (Amec Foster Wheeler Programs, Inc. [AFW], 2018) and was followed up by an SI Addendum in March 2019 (AFW, 2019). PFAS was detected in groundwater and soil at multiple locations exceeding screening levels utilized at the time of the investigation; contamination was linked to fire training areas and hangars where AFFF was historically used, and off-base sampling showed migration into surrounding communities. Due to the detections of PFOS and PFOA at concentrations exceeding the EPA lifetime health advisories (screening values used at the time of the investigation) in off-base properties where groundwater is used as a source of drinking water, the USAF implemented emergency response measures to mitigate immediate exposure.

The Cannon AFB Remedial Investigation kicked off in August 2020 and is ongoing. 1,380 soil samples have been collected on-base and 42 off-base. 12 sediment and surface water samples have been collected. 70 on-base and 42 off-base groundwater samples have also been taken. Additional contract support for groundwater modeling and a pump-and-treat engineering evaluation/cost analysis (EECA) pilot study have been awarded for two different locations at Cannon AFB. For the South-East EECA, the design and construction were completed in early 2025, and operation of the pilot system began in May 2025. The Final EECA deadline was December 2025. The EECA output will determine the interim action. According to public update documents from May 2025, the North Playa EECA design is in progress; construction was planned to start in September 2025. The operational start date is September 2026, with a planned Final EECA for the North Playa area set for August 2028 (AFCEC, 2025).

Based on extensive soil and groundwater sampling from multiple parties, releases of PFAS have been identified from multiple sources at Cannon AFB, likely including (1) one or more of the fire training areas located in the southeast quarter of the Base; (2) the former Sewage Lagoons, located on the east side of the base south of the current wastewater treatment plant; (3) one or more of the former landfills, such as Landfill No. 5, located in the southeast corner of the base; and (4) current wastewater discharge areas, such as the ponds and irrigated areas at the golf course and the North Playa Lake (DBS&A, 2022).

The sampling strategy for Cannon AFB follows the CERCLA process closely. After the identification of source areas (PA), the SI confirmed PFAS presence and recommended the RI. The RI primary objective was to develop a comprehensive understanding of the vertical and lateral extent of PFAS impacts in soil, groundwater, surface water, and sediment. The RI focused on the AFFF areas of interest (AOIs) that were recommended for the Phase I RI (AFW; 2018, 2019) and evaluating areas where AFFF was not historically used but could potentially have been contaminated due to transport mechanisms. Additional objectives of the Phase I RI were to evaluate the source strength of residual PFAS impacts within vadose

zone soils, as well as to develop a CSM that defines geologic and hydrogeologic conditions, provides a holistic understanding of the PFAS release and commingling with legacy contamination, describes PFAS migration in the environment, identifies potential exposure and transport pathways for PFAS, and provides recommendations for additional follow-on Phase I RI sampling (if needed). The planned scope to accomplish these objectives included groundwater monitoring well installation and development; groundwater sampling of new and select existing drinking water wells (monitoring wells and agricultural irrigation wells); source area soil sampling, including both surface and subsurface soil sampling; surface water and sediment sampling; lysimeter installation, pressure monitoring, pore water sampling, and analysis of samples collected for PFAS and geochemical parameters (i.e., total organic carbon [TOC], particle size distribution, pH, and cation exchange capacity).

The objectives and subsequent sampling strategy of the Cannon AFB PFAS RI are indicative of a full CERCLA remedial investigation with the intent to collect enough data for baseline risk assessments, feasibility studies, and site management decisions. Based on screening value exceedances during the SI, the AFB exhibited clear locations where PFAS was released to the environment. The magnitude of those exceedances, as well as exceedances in easily targeted locations where PFAS may have migrated, allowed for the development of a robust sampling strategy to evaluate nature and extent. Clearly, the on-base sampling strategy was not limited. If the identified AOIs are not bound in terms of PFAS extent, the process allows for easy "step-outs" to define PFAS plume boundaries and further evaluate fate and transport of PFAS. Additionally, PFAS source areas are specific to Cannon AFB. While PFAS forensic analysis is not a requirement to determine responsible parties, evaluation of nature and extent of source areas is required to make site management decisions.

8.3 Holloman AFB

PFAS investigations at Holloman AFB have followed the same process as Cannon, with a completed PA (HydroGeoLogic, Inc., 2015), an SI (AFW, 2018a), a Phase 1 RI (DBS&A, 2022) and a Phase 2 RI (DBS&A, 2023). Holloman AFB is one of the military's most contaminated PFAS sites, with contamination affecting groundwater, surface water, soils, and ecosystems. The sampling results for PFAS conducted by various parties in the Holloman-Alamogordo area indicate that releases of PFAS have occurred from several sources at Holloman AFB, including: the AFFF source areas identified by the USAF; Petroleum, Oils, and Lubricants (POL) Site 2; and from as-yet-undetermined sources at the Alamogordo PFAS site in southwest Alamogordo. Additional investigations are ongoing to determine the extent of PFAS contamination in these areas (DBS&A, 2023).

The sampling strategy to date has involved hundreds of samples across multiple media. Soil, groundwater, surface water, and sediment have been analyzed to characterize the contamination. Biota has also been analyzed from area wildlife and plants, which has also informed PFAS fate and transport and impact to ecosystems. Groundwater has been the most targeted media, with over 200 samples collected; soil has also been investigated extensively, with 150 samples collected. Surface water and sediment sample results ranged from 50 to 100. Results of these investigations have led to public health advisories, public access restrictions, lawsuits, and legal investigations. Cleanup remains ongoing under CERCLA, with significant human health and ecological risks.

Like the Cannon AFB PFAS investigations, the PFAS sampling strategies for Holloman AFB are extensive and robust, focusing on areas of known contamination (through the PA/SI/RI process) and areas of known migration pathways. Sources for Holloman are also specific to the base itself, negating the need to identify potential responsible parties.

8.4 Santa Fe County PFAS Approach Versus Cannon and Holloman AFB Investigations

As opposed to a comprehensive desktop evaluation of potential PFAS source areas in the La Cienega and La Cieneguilla communities—i.e., what would have been completed in the PA step of the CERCLA process—Santa Fe County utilized the results from the ARNG AASF PFAS SI in October 2023 to proactively identify drinking water sources in these areas as at-risk for PFAS contamination. Santa Fe County oversaw the sampling and analysis of six domestic drinking water wells in these communities; results showed five of the six wells had PFAS detections, with three showing PFAS concentrations above the MCLs. Santa Fe County moved forward with contracting an additional, more extensive investigation to assess sources and potential remediation or mitigation.

The most significant differences in the DoD approach and the approach taken by Santa Fe County are available information regarding potential PFAS sources; access to properties for the purpose of completing a robust investigation; potential responsible parties; and the need to investigate these other responsible parties' PFAS contamination of groundwater.

The presumed sources of PFAS contamination for the La Cienega and La Cieneguilla communities are located in different areas and owned by different property owners, creating multiple types of source identification and access challenges. Santa Fe County's investigation process did not begin with an extensive desktop evaluation into the region's potential PFAS sources; the only sampling to date consisted of limited SI sampling at the AASF, PRWRF, and private drinking water well sampling from six of approximately 1,000 wells. The data did not reveal a singular, obvious PFAS source. The AASF results showed low detections of PFAS in soil, with just a few exceedances and detections in groundwater. A few of these detections did not correlate to the soil results; however, the results were of a magnitude to suggest a potential source. While the AASF has moved forward with a PFAS RI, that data are not yet available and therefore could not be utilized to strategize sampling locations. Furthermore, Santa Fe County does not have direct access to the AASF for PFAS sampling and while the DoD may conduct off-base investigations where warranted, DoD investigation and response processes can be lengthy, so any associated work is expected to proceed on an extended timeline.

At the PRWRF property, results showed exceedances in soil, groundwater, and the influent, effluent, compost, and dewatered biosolids, indicating an additional potential source. No specific source area was identified for use as a target area for a comprehensive investigation evaluating PFAS nature and extent. Septic systems, another identified potential PFAS source of contamination, have not been sampled at all. In contrast, under the DoD and CERCLA process, source evaluations, as well as at least some definitive identification of sources, occur prior to launching a more extensive investigation.

With regard to access challenges, the location of the Santa Fe Regional Airport between the PRWRF/AASF area to the north and the two communities to the south represents a major data gap for

both hydrogeological conditions and PFAS migration. Without access to the airport property, complete understanding of PFAS migration in the Study Area will be difficult. Finally, the ability to sample private drinking water wells and septic systems is reliant on access agreements with property owners, making the development of a specific sampling strategy difficult.

Based on the data and available information, the sampling strategy for this investigation included sampling of 60 domestic drinking water wells to inform nature and extent, as well as surface water sampling from the Santa Fe River to evaluate fate and transport from the PRWRF. Source, responsible parties, and clarity of distribution of PFAS was unknown during the planning stage. This stands in stark contrast to a DoD project, which, under federal law, follows the CERCLA process and cannot move forward without gathering all information required in the previous step.

9.0 Mitigation and Remediation Considerations

A key goal for Santa Fe County is to identify and implement a robust, long-term mitigation strategy that reduces PFAS exposure to residents and addresses the underlying sources of contamination to the extent practicable. The evaluation and recommendation of mitigation and remediation measures is guided by the following principles: (1) sustainability, (2) effectiveness at reducing risk, (3) affordability for households and the community, and (4) compatibility with existing and future land use and community planning objectives. Of the approximately 1,800 parcels in the Study Area, an estimated 650 parcels fall within the area where PFAS have been detected, and approximately 190 parcels are located within the area where one or more regulated PFAS exceed their respective MCL. The number of affected households is potentially smaller than the number of affected parcels, as some residences span multiple parcels while other parcels may currently be undeveloped.

9.1 Interim Options for the Community

In the near term, point-of-use (POU) or point-of-entry (POE) treatment systems represent the most practical approach for individual households to reduce exposure to PFAS in drinking water drawn from impacted wells. Information regarding appropriate POU/POE technologies, installation, and maintenance requirements has been made available to residents by Santa Fe County at numerous community meetings and through the publicly available website to support informed decision-making. However, long-term reliance on POU/POE devices presents challenges. POU/POE units using granular activated carbon (GAC) or ion exchange (IX) resins are highly dependent on timely cartridge replacement, as delayed replacement can result in breakthrough and potential re-release of previously captured PFAS to treated water. POU systems using reverse osmosis (RO) can be more reliable for individual taps but typically treat smaller volumes of water, generate a reject stream that wastes a portion of influent water, and discharge PFAS-containing concentrate to onsite wastewater systems, thereby potentially contributing to continued subsurface loading of PFAS. For these reasons, POU/POE treatment is considered an important interim risk-reduction measure rather than a preferred stand-alone long-term solution.

The National Sanitation Foundation (NSF) has two certifications for PFAS removal for individual use filters: NSF/ANSI (American National Standards Institute) 53 and NSF/ANSI 58. The guidelines are frequently updated and currently include information for the following PFAS: PFOA, PFOS, PFHxS, PFHpA, PFNA, PFBS, and perfluorodecanoic acid (PFDA).

NSF/ANSI 53 covers general water treatment filtration devices that reduce contaminants with health effects, including certain PFAS compounds. NSF/ANSI 58 only applies to RO systems, which are also effective in reducing PFAS levels in water. To make a PFAS reduction claim under NSF/ANSI 53 or 58, laboratory testing must demonstrate that the filter reduces PFAS levels in treated water to below 20 parts per trillion (ppt). Prior to 2022, certification under these standards required testing to 70 ppt so some previously certified equipment may not meet the current standard. Note that 20 ppt is an order of magnitude greater than the MCLs for PFOA and PFOS. In addition, these two certificates apply to a broad range of contaminants, not just PFAS. Because a filtration system can be certified under NSF 53 or NSF 58 but not certified for PFAS, the NSF certification details of the filter system should be verified.

In response to exceedances of PFAS MCLs in private drinking water wells, NMED is instituting a filtration process whereby whole-house filters will be installed at private homes where drinking water wells were sampled and showed exceedances of the MCLs. NMED identified two systems available for installation: the RKIN OP1L Certified Whole House Lead, Cyst, PFOA, and PFOS Water Filter System (made by Enpress Pioneer), and the Kinetico K5® Drinking Water Station with VOC Guard.

9.1.1 POE System

RKIN OP1L Certified Whole House Lead, Cyst, PFOA, and PFOS Water Filter System

The RKIN OP1L Certified Whole House Lead, Cyst, PFOA, and PFOS Water Filter System, manufactured by Enpress and also marketed in Enpress's PIONEER® line as the PIONEER® Pb – Lead, Cyst, PFOA/PFOS Removal system, consists of a combination carbon filter containing KDF (kinetic degradation fluxion) media and coconut shell carbon bed. KDF media is a copper-zinc alloy that operates via a redox (oxidation-reduction) reaction. This type of media is most commonly KDF-55, which is highly effective for reducing chlorine and chloramines; removing soluble heavy metals like lead, mercury, and nickel; and controlling microbial growth within the filter. The carbon bed is a coconut-based activated carbon block filter utilized to remove organic contaminants including PFAS.

Note that Enpress PIONEER® has two different filters advertised for PFAS removal: the PIONEER® Pb – Lead, Cyst, PFOA/PFOS Removal system (discussed above in the RKIN OP1L description) and the PIONEER® PF – PFAS Removal system. RKIN claims that their system is "more comprehensive" than the Enpress Pioneer system but does not elaborate on any details.

The PIONEER® PF features a proprietary filtration solution for the water treatment industry specifically designed to remove PFAS from drinking water to meet/exceed the MCLs for PFAS. The composition of the filters is a core filtration media: the cartridges are packed with ATOMUS® PF8—a proprietary adsorbent specifically engineered to remove both long- and short-chain PFAS compounds (e.g., PFOA, PFOS, GenX) with no degradation in performance due to typical water characteristics like pH, total organic carbon, or inorganic ions. The media can be regenerated up to 10 times. Spent cartridges are returned to Enpress for PFAS extraction, destruction, and media reuse.

Enpress has NSF 53 certification for PFAS removal in their Pb filter version. Enpress claims reduction of combined PFOA and PFOS to 10 ppt for the PIONEER® Pb – Lead, Cyst, PFOA/PFOS Removal filter (the RKIN OP1L filter) and less than 4 ppt for PFAS compounds for the PIONEER® PF.

9.1.2 POU System

Kinetico K5® Drinking Water Station with VOC Guard

The Kinetico K5® Drinking Water Station is an under-sink RO drinking water system with a volatile organic compound filter made of high-capacity activated carbon combined with specialized adsorbent technology. Cartridges (RO membranes) and the activated carbon filter require replacement. Currently there are no regulations on disposing of these cartridges. The filter is certified NSF/ANSI 58 (by the Water Quality Association [WQA]) for PFAS, verified by a search on the WQA website for certified products.

9.2 Long-Term Options for the Community

Identification of the most appropriate long-term mitigation and remediation options depends on continued refinement of the CSM, including improved characterization of vertical and lateral extent in a diffusive plume and more definitive source identification. As noted previously, the current dataset represents only a limited number of “snapshots” in time, and additional remaining data gaps constrain the ability to fully evaluate long-term options. As these gaps are addressed, the project team will further develop and evaluate a suite of long-term alternatives.

A potential long-term remedial option is the installation of deeper household drinking water wells. Additional characterization of the deeper aquifer / Tesuque Formation is required to verify it is not impacted by PFAS and to improve the understanding of hydraulic communication between the Ancha and Tesuque Formations, including potential pathways for PFAS migration and the influence of deep-aquifer pumping on the system (i.e., whether pumping from the Tesuque could induce PFAS migration from the Ancha into the Tesuque). Construction of wells into the deeper aquifer could create pathways for PFAS transport.

Another possible option is extension of treated water service from existing proximate water systems including the La Cienega Mutual Domestic Water Consumers Association (LCMDWCA) to the La Cieneguilla community. LCMDWCA source wells, which are located east of the groundwater divide in La Cienega and are characterized by greater depth and higher-capacity production, were sampled and had no detectable PFAS.

In addition to mitigating PFAS in drinking water, remedial measures should be considered to reduce or control long-term source contributions, subject to improved understanding of source areas and pathways. As the investigation progresses and remaining data gaps are closed, these options will be refined with conceptual designs, order-of-magnitude cost estimates, and comparative evaluations of advantages and disadvantages for presentation to Santa Fe County and the community for consideration.

10.0 Summary and Path Forward

This investigation was conducted to characterize the occurrence and distribution of PFAS in groundwater and surface water within the La Cienega and La Cieneguilla communities, evaluate potential sources and transport pathways, and inform near- and long-term mitigation and remediation options for the affected areas. In the course of this work, the project team also identified key data gaps that need to be addressed to further refine the conceptual site model to support future decision-making.

The geology of the Study Area strongly influences where PFAS contamination is observed. A groundwater divide between La Cienega and La Cieneguilla creates a distinct hydrogeologic separation that limits hydraulic communication between the two areas and, to date, appears to have prevented PFAS contamination documented in La Cieneguilla from migrating into La Cienega. In La Cieneguilla, the coarser-grained Ancha Formation, which serves as the primary drinking water aquifer, overlies the eroded surface of the finer-grained Tesuque Formation. Groundwater modeling indicates that flow in La Cieneguilla generally parallels the Santa Fe River, moving from northeast to southwest, with the Santa Fe Airport, PRWRF, and AASF located north (upgradient) of the La Cieneguilla community. While the lateral extent of PFAS impacts in groundwater is better constrained, uncertainties remain regarding vertical migration between the Ancha and Tesuque Formations and PFAS behavior in deeper zones. In surface water, PFAS was detected at all Santa Fe River locations, with concentrations increasing at the most downstream site, indicating a need for additional downstream sampling.

PFAS was not detected in INTERA-collected samples from La Cienega. Additional sampling data from the area indicate PFAS detections at low concentrations that do not exceed any MCLs. In contrast, MCL exceedances for several regulated PFAS compounds were observed in portions of La Cieneguilla.

Proposed next steps for addressing critical data gaps are outlined in Section 7.0. Implementing the recommended activities to address data gaps will require continued coordination and cooperation among Santa Fe County, NMED, the City of Santa Fe, the community, and other stakeholders. The Memorandum of Agreement with the City of Santa Fe will be important in securing access to key sampling locations for the benefit of the La Cienega and La Cieneguilla communities. NMED is currently implementing an interim measure by providing POU and POE filters for affected La Cieneguilla households, but this is understood to be a temporary risk-reduction strategy rather than a permanent remedy. Ongoing collaboration with NMED to further delineate the extent of PFAS impacts and to refine source identification will inform the selection and prioritization of long-term mitigation and remediation measures. Santa Fe County may also consider an ecological risk assessment, particularly considering current and historic agricultural land and water use in La Cieneguilla. The ARNG timeline for the next round of reporting has been extended, with completion of the Remedial Investigation report currently anticipated in 2030. INTERA is also evaluating obligations for mitigation and reporting associated with DoD facilities. Although the National Guard may operate under somewhat different frameworks, clarifying responsibilities for mitigation, remediation, and community support will help ensure that all applicable obligations are understood and met. INTERA recognizes the substantial strain that PFAS contamination has placed on the community and will continue to support regular engagement with residents to share findings and maintain transparent communication as the investigation progresses.

11.0 References

AECOM. 2020. *Final Preliminary Assessment Report, Santa Fe Army Aviation Support Facility, Santa Fe, New Mexico.* August.

Air Force Civil Engineer Center. 2025. *Cannon AFB PFAS Public Update*. May 13.

ALS Environmental. 2020. *Laboratory Results for: Wastewater Pharmaceuticals*. Laboratory analytical report prepared for Patricia Rosacker, Santa Fe, NM. Service Request: K2005085. July 16.

ALS Environmental. 2023. *Laboratory Results for: PFAS Waste Water*. Laboratory analytical report prepared for Patricia Rosacker, Santa Fe, NM. Service Request: K2301424. February 22.

Amec Foster Wheeler Programs, Inc. (AFW). 2018. *Final Site Inspection Report, Cannon Air Force Base, NM, Site Inspection of Aqueous Film Forming Foam (AFFF) Release Areas Environmental Programs Worldwide.* August.

AFW. 2018a. *Final Site Inspection Report, Holloman Air Force Base, NM, Site Inspection of Aqueous Film Forming Foam (AFFF) Release Areas Environmental Programs Worldwide.* November.

AFW. 2019. *Final Site Inspection Report Addendum 01, Cannon Air Force Base, NM, Site Inspection of Aqueous Film Forming Foam (AFFF) Release Areas Environmental Programs Worldwide.* March.

Daniel B. Stephens & Associates, Inc. (DBS&A). 2022. *Phase 1 PFAS Investigation, Holloman Air Force Base, Otero County, New Mexico. Prepared for New Mexico Environment Department, Hazardous Waste Bureau.* Report. June 30.

DBS&A. 2023. *Phase 2 Investigation Report NMED PFAS Investigation Holloman Air Force Base and Surrounding Area.* June 30.

DBS&A. 2024. *Summary of Field Activities and Analytical Results, Soil Sampling Event, City of Santa Fe Paseo Real Wastewater Reclamation Facility*. October 14.

DBS&A. 2024a. *Summary of Field Activities and Analytical Results, Second Quarter Groundwater Monitoring Event, City of Santa Fe Paseo Real Wastewater Reclamation Facility*. September 10.

DBS&A. 2024b. *Summary of Field Activities and Analytical Results, Third Quarter Groundwater Monitoring Event, City of Santa Fe Paseo Real Wastewater Reclamation Facility*. October 23.

DBS&A. 2025. *Summary of Field Activities and Analytical Results, Fourth Quarter Groundwater Monitoring Event, City of Santa Fe Paseo Real Wastewater Reclamation Facility*. February 4.

DBS&A. 2025a. *Summary of Field Activities and Analytical Results, First Quarter 2025 Groundwater Monitoring Event, City of Santa Fe Paseo Real Wastewater Reclamation Facility*. April 23.

DBS&A. 2025b. *Summary of Field Activities and Analytical Results, Additional Soil Sampling Event, City of Santa Fe Paseo Real Wastewater Reclamation Facility*. May 12.

EA Engineering, Science, and Technology, PBC (EA). 2023. *Final Site Inspection Report, Army Aviation Support Facility Santa Fe, New Mexico*. October.

Eurofins Environment Testing. 2023. *LCLC domestic Well Sampling*. Laboratory analytical report prepared for Amy Ewing, Albuquerque, NM. Order No: 2310374. November 6.

Eurofins Environment Testing via Hall Environmental Analysis Laboratory. 2023. *Paseo Real WRF*. Laboratory analytical report prepared for Amy Ewing, Albuquerque, NM. Order No: 2308A06. September 08.

HydroGeoLogic, Inc. 2015. *Final Preliminary Assessment Report for Perfluorinated Compounds at Hollman Air Force Base.* September.

INTERA Incorporated (INTERA). 2024. *Work Plan and Cost Estimate, Professional Consultant and Engineering Services Regarding Per- and Polyfluoroalkyl Substance (PFAS) Contaminants in Drinking Water Wells, Santa Fe County Request for Proposal No. 20241-026556-PW/BT*. August 16.

INTERA. 2025. *Sampling and Analysis Plan, La Cienega and La Cieneguilla PFAS Investigation, Santa Fe County, New Mexico*. March 31.

Johnson, P.S., D.J. Koning, and S.S. Timmons. 2016. *Geology and Hydrology of Groundwater-Fed Springs and Wetlands at La Cienega, Santa Fe County, New Mexico*. New Mexico Bureau of Geology & Mineral Resources. Bulletin-161. https://doi.org/10.58799/B-161.

Johnson, P.S., D.J. Koning, and F.K. Partey. 2013. Shallow groundwater geochemistry in the Española Basin, Rio Grande rift, New Mexico: Evidence for structural control of a deep thermal source. In Hudson, M.R., and V.J.S. Grauch (eds.). New Perspectives on Rio Grande Rift Basins: From Tectonics to Groundwater: Geological Society of America Special Paper 494, pp. 261–301. doi:10.1130/2013.2464(11).

John Shomaker & Associates, Inc. (JSAI). 2018. *City of Santa Fe City Well Field Optimization Implementation Plan*. Consultant's report prepared by CDM Smith; JSAI; and Bohannan Huston, Inc. (BHI) for the City of Santa Fe Water Division. 69 pp. plus appendices.

Koning, D.J., and A.S. Read. 2010. Geologic Map of the Southern Espanola Basin: New Mexico Bureau of Geology & Mineral Resources. Open-file Report 531. https://doi.org/10.58799/OFR-531

Minor, S.A. (ed.). 2006. The Cerrillos Uplift, the La Bajada constriction, and hydrogeologic framework of the Santo Domingo Basin, Rio Grande rift, New Mexico: U.S. Geological Survey Professional Paper 1720, 189 pp.

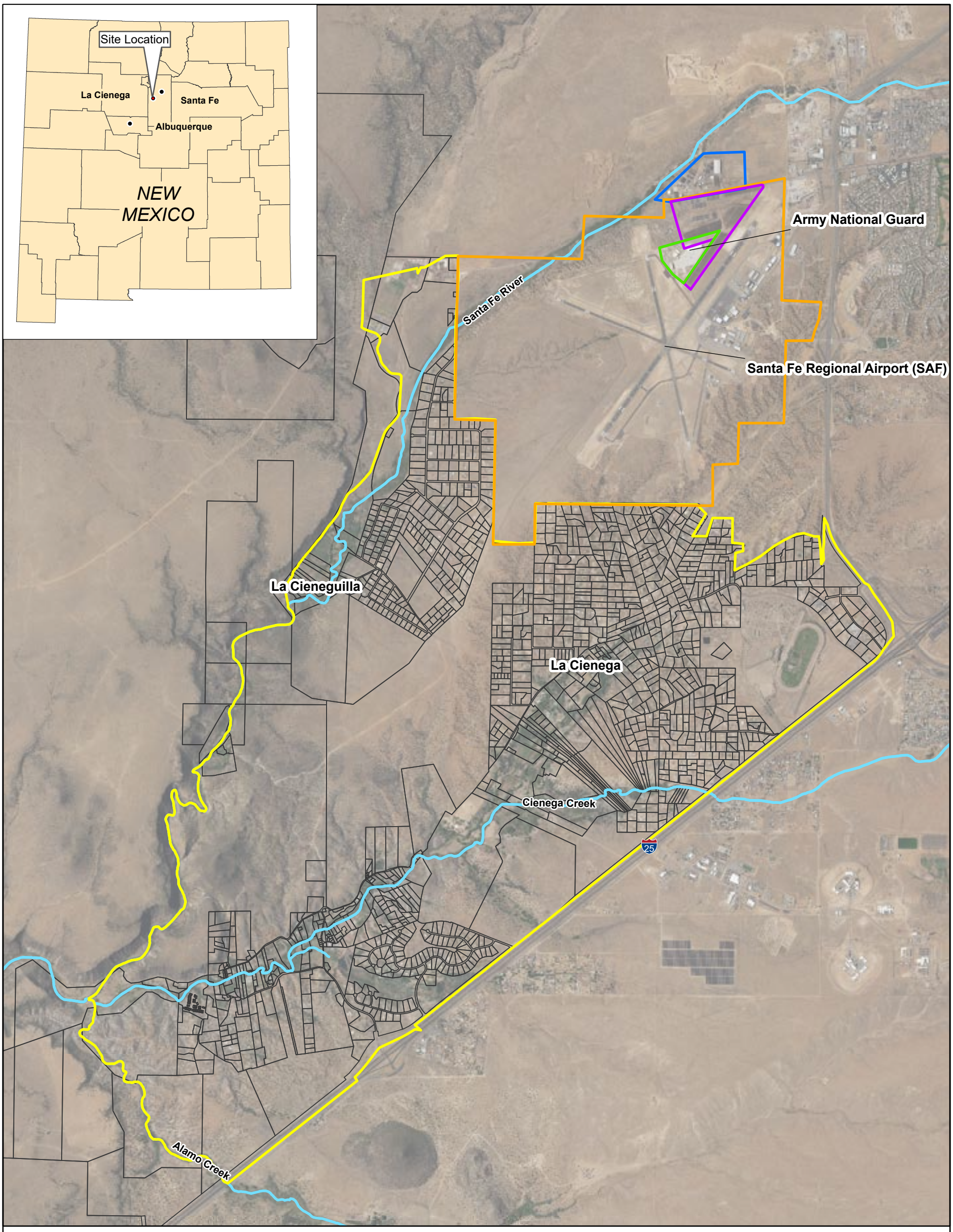
National Academies of Sciences, Engineering, and Medicine. 2023. *PFAS Source Differentiation Guide for Airports (2023)*. Washington, DC. The National Academies Press.

New Mexico Department of Justice. 2024. *New Mexico Attorney General Raúl Torrez Files Amended Complaint for 'Forever Chemical' Cleanup Under New EPA Regulations.* July 8.

New Mexico Office of the State Engineer (NMOSE). 2024. *NMOSE Points of Diversion*. NMOSE Geospatial Data Portal. Available at: https://geospatialdata-ose.opendata.arcgis.com/datasets/ce5ed29e2849411098ee66f1c226af12_0/explore> Accessed January 9, 2026.

Spiegel, Z., and B. Baldwin. 1963. Geology and water resources of the Santa Fe area, New Mexico: U.S. Geological Survey, Water Supply Paper 1525, 253 pp.

FIGURES



Legend

- La Cienega
- AASF Facility
- PRWRF Surface Disposal Site
- Santa Fe Regional Airport
- Paseo Real Wastewater Reclamation Facility
- Land Parcels
- Waterways

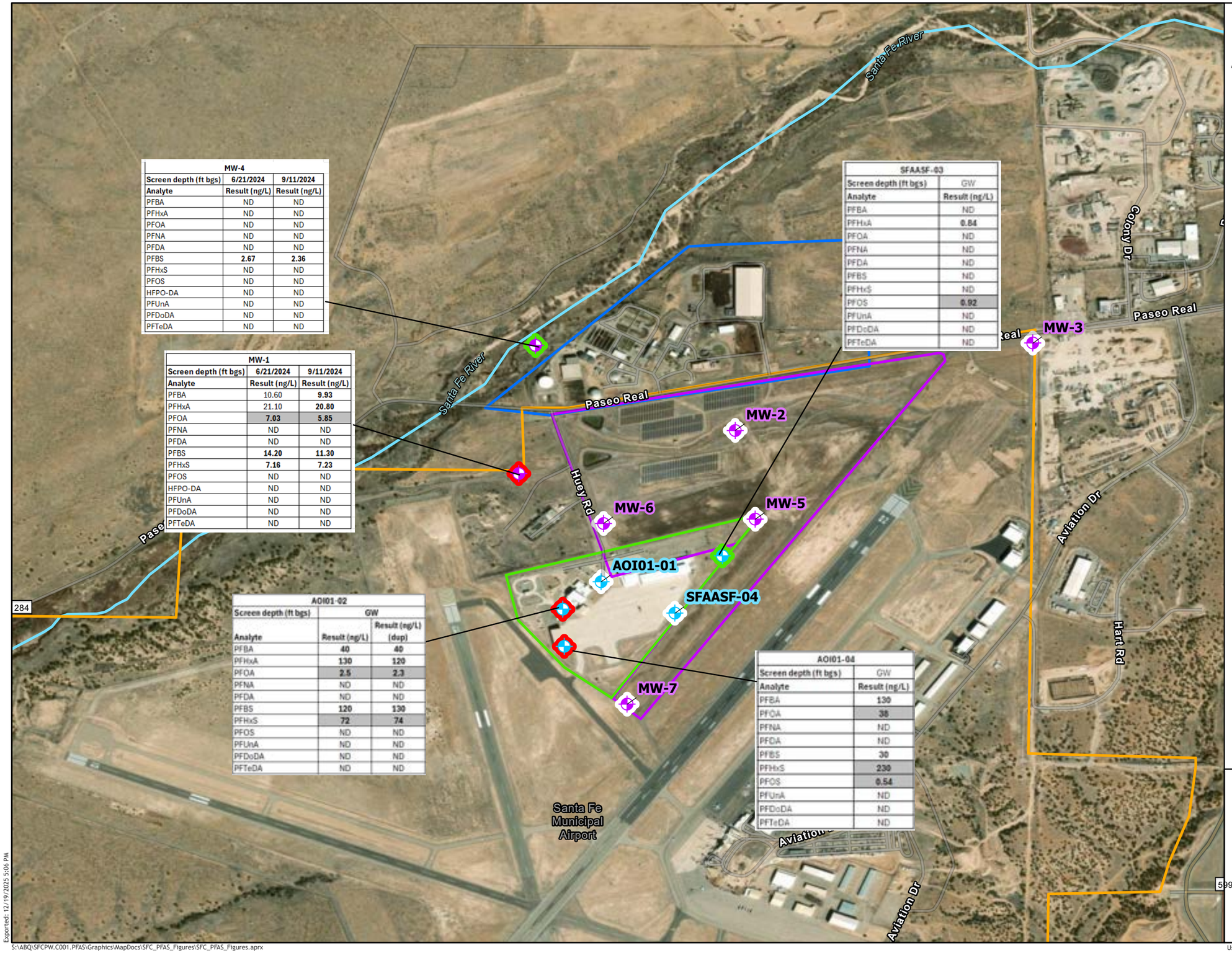
N

0 0.5 1
Miles

Source(s): Aerial – ESRI ArGIS Online

Figure 1
Site Location Overview
Santa Fe County PFAS Investigation
Santa Fe County, New Mexico

Exported: 12/19/2025 3:11 PM
S:\ABQ\SFCPW.C001.PFAS\Graphics\MapDocs\SFC_PFAS_Figures\SFC_PFAS_Figures.aprx
User: towen
Map: UTM zone 1311
Layout: 01_SiteLocOverview
INTERA



MW-4		
Screen depth (ft bgs)	6/21/2024	9/11/2024
Analyte	Result (ng/L)	Result (ng/L)
PFBA	ND	ND
PFHxA	ND	ND
PFOA	ND	ND
PFNA	ND	ND
PFDA	ND	ND
PFBS	**2.67**	**2.36**
PFHxS	ND	ND
PFOS	ND	ND
HFPO-DA	ND	ND
PFUnA	ND	ND
PFDoDA	ND	ND
PFTeDA	ND	ND

MW-1		
Screen depth (ft bgs)	6/21/2024	9/11/2024
Analyte	Result (ng/L)	Result (ng/L)
PFBA	10.60	**9.93**
PFHxA	21.10	**20.80**
PFOA	**7.03**	**5.85**
PFNA	ND	ND
PFDA	ND	ND
PFBS	**14.20**	**11.30**
PFHxS	**7.16**	**7.23**
PFOS	ND	ND
HFPO-DA	ND	ND
PFUnA	ND	ND
PFDoDA	ND	ND
PFTeDA	ND	ND

AOI01-02		
Screen depth (ft bgs)	GW	
Analyte	Result (ng/L)	Result (ng/L) (dup)
PFBA	**40**	**40**
PFHxA	**130**	**120**
PFOA	**2.5**	**2.3**
PFNA	ND	ND
PFDA	ND	ND
PFBS	**120**	**130**
PFHxS	**72**	**74**
PFOS	ND	ND
PFUnA	ND	ND
PFDoDA	ND	ND
PFTeDA	ND	ND

SFAASF-03	
Screen depth (ft bgs)	GW
Analyte	Result (ng/L)
PFBA	ND
PFHxA	**0.84**
PFOA	ND
PFNA	ND
PFDA	ND
PFBS	ND
PFHxS	ND
PFOS	**0.92**
PFUnA	ND
PFDoDA	ND
PFTeDA	ND

AOI01-04	
Screen depth (ft bgs)	GW
Analyte	Result (ng/L)
PFBA	**130**
PFOA	**38**
PFNA	ND
PFDA	ND
PFBS	**30**
PFHxS	**230**
PFOS	**0.54**
PFUnA	ND
PFDoDA	ND
PFTeDA	ND

N

0 0.13 0.25
Miles

Legend

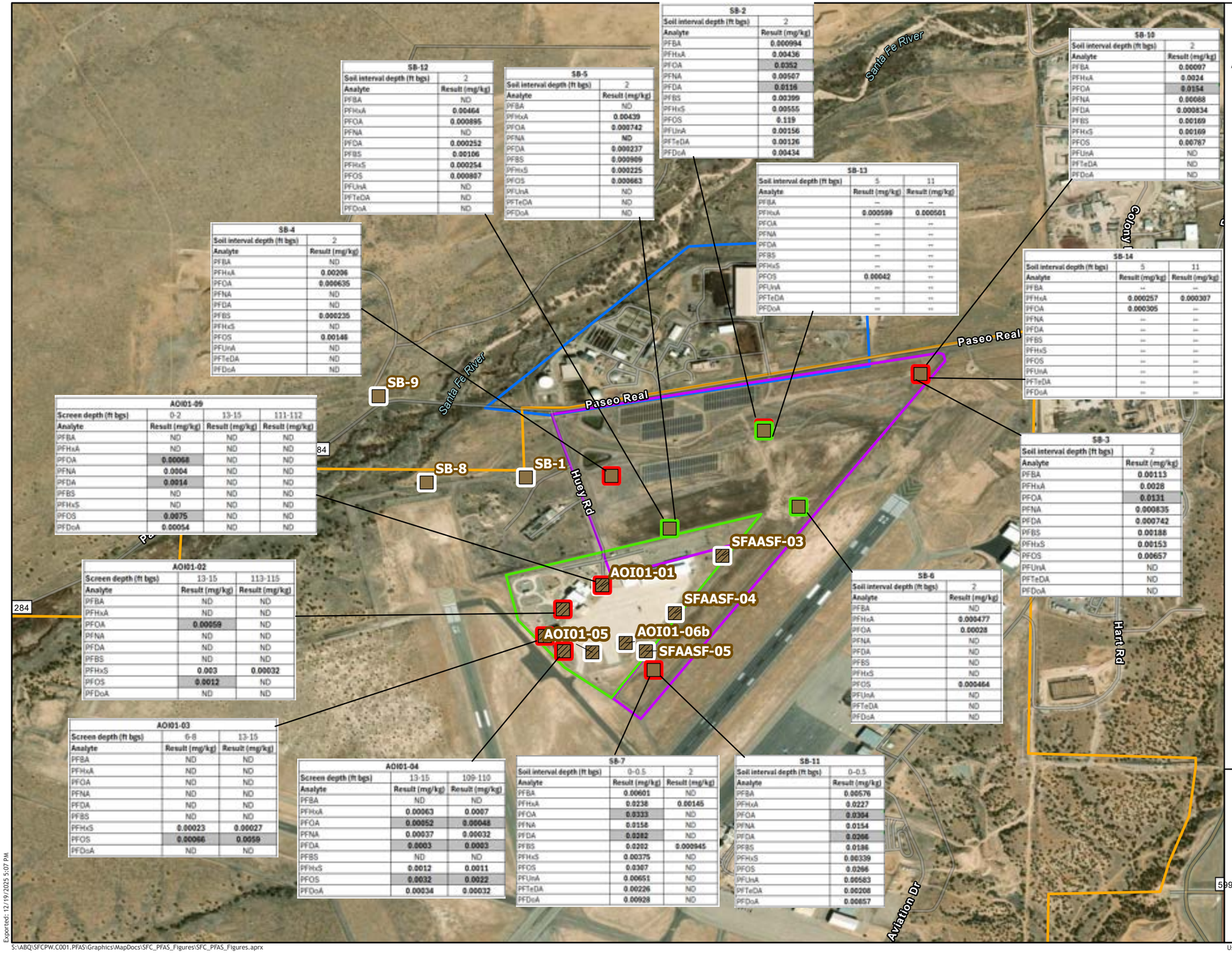
- Army National Guard Groundwater
- PRWRF Groundwater
- AASF Facility
- PRWRF Surface Disposal Site
- Santa Fe Regional Airport
- Paseo Real Wastewater Reclamation Facility

Note(s): Symbols with a **red halo** have detections that are above exceedance.
Symbols with a **green halo** have detections but are not above exceedance.
Symbols with a white halo are non-detects.

Source(s): Aerial – ESRI ArGIS Online

Figure 2
ARNG and PRWRF Groundwater Sampling Locations
Santa Fe County PFAS Investigation
Santa Fe County, New Mexico

Exported: 12/19/2025 5:06 PM
S:\ABQ\SFCPW.C001.PFAS\Graphics\MapDocs\SFC_PFAS_Figures\SFC_PFAS_Figures.aprx
User: towen
Map: Map5
Layout: ARNG_PRWRF_GW_Sample_Loc
INTERA



SB-12	
Soil interval depth (ft bgs)	2
Analyte	Result (mg/kg)
PFBA	ND
PFHxA	0.00464
PFOA	0.000895
PFNA	ND
PFDA	0.000252
PFBS	0.00106
PFHxS	0.000254
PFOS	0.000807
PFUnA	ND
PFTeDA	ND
PFDoA	ND

SB-5	
Soil interval depth (ft bgs)	2
Analyte	Result (mg/kg)
PFBA	ND
PFHxA	0.00439
PFOA	0.000742
PFNA	ND
PFDA	0.000237
PFBS	0.000909
PFHxS	0.000225
PFOS	0.000663
PFUnA	ND
PFTeDA	ND
PFDoA	ND

SB-2	
Soil interval depth (ft bgs)	2
Analyte	Result (mg/kg)
PFBA	0.000994
PFHxA	0.00436
PFOA	0.0352
PFNA	0.00507
PFDA	0.0116
PFBS	0.00399
PFHxS	0.00555
PFOS	0.119
PFUnA	0.00156
PFTeDA	0.00126
PFDoA	0.00434

SB-10	
Soil interval depth (ft bgs)	2
Analyte	Result (mg/kg)
PFBA	0.00097
PFHxA	0.0024
PFOA	0.0154
PFNA	0.00088
PFDA	0.000834
PFBS	0.00169
PFHxS	0.00169
PFOS	0.00787
PFUnA	ND
PFTeDA	ND
PFDoA	ND

SB-4	
Soil interval depth (ft bgs)	2
Analyte	Result (mg/kg)
PFBA	ND
PFHxA	0.00206
PFOA	0.000635
PFNA	ND
PFDA	ND
PFBS	0.000235
PFHxS	ND
PFOS	0.00148
PFUnA	ND
PFTeDA	ND
PFDoA	ND

SB-13		
Soil interval depth (ft bgs)	5	11
Analyte	Result (mg/kg)	Result (mg/kg)
PFBA	--	--
PFHxA	0.000599	0.000501
PFOA	--	--
PFNA	--	--
PFDA	--	--
PFBS	--	--
PFHxS	--	--
PFOS	0.00042	--
PFUnA	--	--
PFTeDA	--	--
PFDoA	--	--

SB-14		
Soil interval depth (ft bgs)	5	11
Analyte	Result (mg/kg)	Result (mg/kg)
PFBA	--	--
PFHxA	0.000257	0.000307
PFOA	0.000305	--
PFNA	--	--
PFDA	--	--
PFBS	--	--
PFHxS	--	--
PFOS	--	--
PFUnA	--	--
PFTeDA	--	--
PFDoA	--	--

AOI01-09			
Screen depth (ft bgs)	0-2	13-15	111-112
Analyte	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
PFBA	ND	ND	ND
PFHxA	ND	ND	ND
PFOA	0.00068	ND	ND
PFNA	0.0004	ND	ND
PFDA	0.0014	ND	ND
PFBS	ND	ND	ND
PFHxS	ND	ND	ND
PFOS	0.0075	ND	ND
PFDoA	0.00054	ND	ND

SB-3	
Soil interval depth (ft bgs)	2
Analyte	Result (mg/kg)
PFBA	0.00113
PFHxA	0.0028
PFOA	0.0131
PFNA	0.000835
PFDA	0.000742
PFBS	0.00188
PFHxS	0.00153
PFOS	0.00657
PFUnA	ND
PFTeDA	ND
PFDoA	ND

AOI01-02		
Screen depth (ft bgs)	13-15	113-115
Analyte	Result (mg/kg)	Result (mg/kg)
PFBA	ND	ND
PFHxA	ND	ND
PFOA	0.00059	ND
PFNA	ND	ND
PFDA	ND	ND
PFBS	ND	ND
PFHxS	0.003	0.00032
PFOS	0.0012	ND
PFDoA	ND	ND

SB-6	
Soil interval depth (ft bgs)	2
Analyte	Result (mg/kg)
PFBA	ND
PFHxA	0.000477
PFOA	0.00028
PFNA	ND
PFDA	ND
PFBS	ND
PFHxS	ND
PFOS	0.000464
PFUnA	ND
PFTeDA	ND
PFDoA	ND

AOI01-03		
Screen depth (ft bgs)	6-8	13-15
Analyte	Result (mg/kg)	Result (mg/kg)
PFBA	ND	ND
PFHxA	ND	ND
PFOA	ND	ND
PFNA	ND	ND
PFDA	ND	ND
PFBS	ND	ND
PFHxS	0.00023	0.00027
PFOS	0.00066	0.0059
PFDoA	ND	ND

AOI01-04		
Screen depth (ft bgs)	13-15	109-110
Analyte	Result (mg/kg)	Result (mg/kg)
PFBA	ND	ND
PFHxA	0.00063	0.0007
PFOA	0.00052	0.00048
PFNA	0.00037	0.00032
PFDA	0.0003	0.0003
PFBS	ND	ND
PFHxS	0.0012	0.0011
PFOS	0.0032	0.0022
PFDoA	0.00034	0.00032

SB-7		
Soil interval depth (ft bgs)	0-0.5	2
Analyte	Result (mg/kg)	Result (mg/kg)
PFBA	0.00601	ND
PFHxA	0.0238	0.00145
PFOA	0.0333	ND
PFNA	0.0158	ND
PFDA	0.0282	ND
PFBS	0.0202	0.000945
PFHxS	0.00375	ND
PFOS	0.0307	ND
PFUnA	0.00651	ND
PFTeDA	0.00226	ND
PFDoA	0.00928	ND

SB-11	
Soil interval depth (ft bgs)	0-0.5
Analyte	Result (mg/kg)
PFBA	0.00576
PFHxA	0.0227
PFOA	0.0304
PFNA	0.0154
PFDA	0.0266
PFBS	0.0186
PFHxS	0.00339
PFOS	0.0266
PFUnA	0.00583
PFTeDA	0.00208
PFDoA	0.00857

N

0 0.13 0.25

Miles

Legend

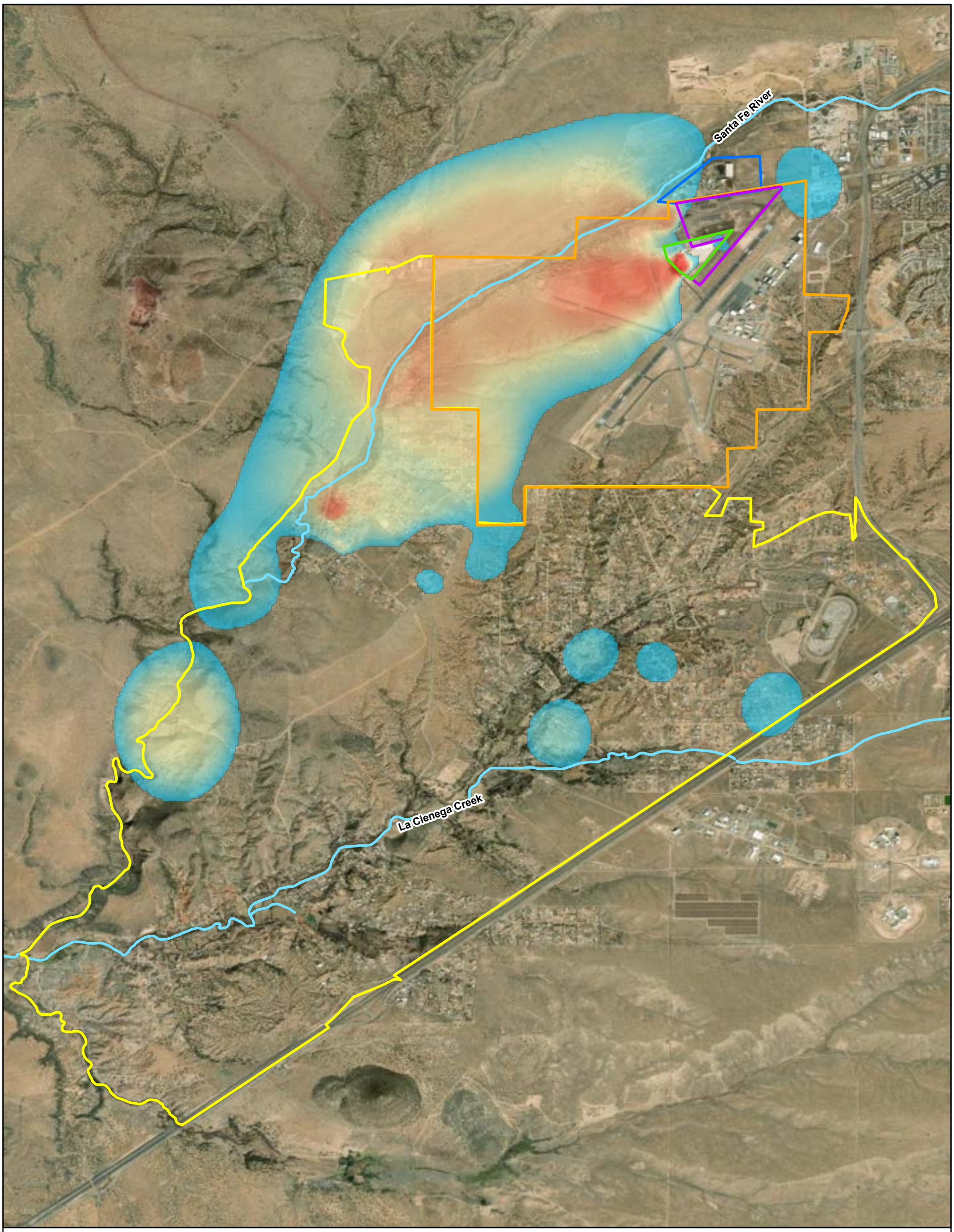
- Army National Guard Soil Sample
- PRWRF Soil Sample
- AASF Facility
- PRWRF Surface Disposal Site
- Santa Fe Regional Airport
- Paseo Real Wastewater Reclamation Facility

Note(s): Symbols with a **red halo** have detections that are above exceedance.
Symbols with a **green halo** have detections but are not above exceedance.
Symbols with a white halo are non-detects.

Source(s): Aerial – ESRI ArGIS Online

Figure 3
ARNG and PRWRF Soil Sampling Locations
Santa Fe County PFAS Investigation
Santa Fe County, New Mexico

Exported: 12/19/2025 5:07 PM
S:\ABQ\SFCPW.C001.PFAS\Graphics\MapDocs\SFC_PFAS_Figures\SFC_PFAS_Figures.aprx
User: towen
Map: Map51
Layout: ARNG_PRWRF_SOIL_Sample_Loc
INTERA



Legend

- AASF Facility
- PRWRF Surface Disposal Site
- Santa Fe Regional Airport
- La Cienega
- Paseo Real Wastewater Reclamation Facility
- Waterways

Concentration (ppt)

800

1

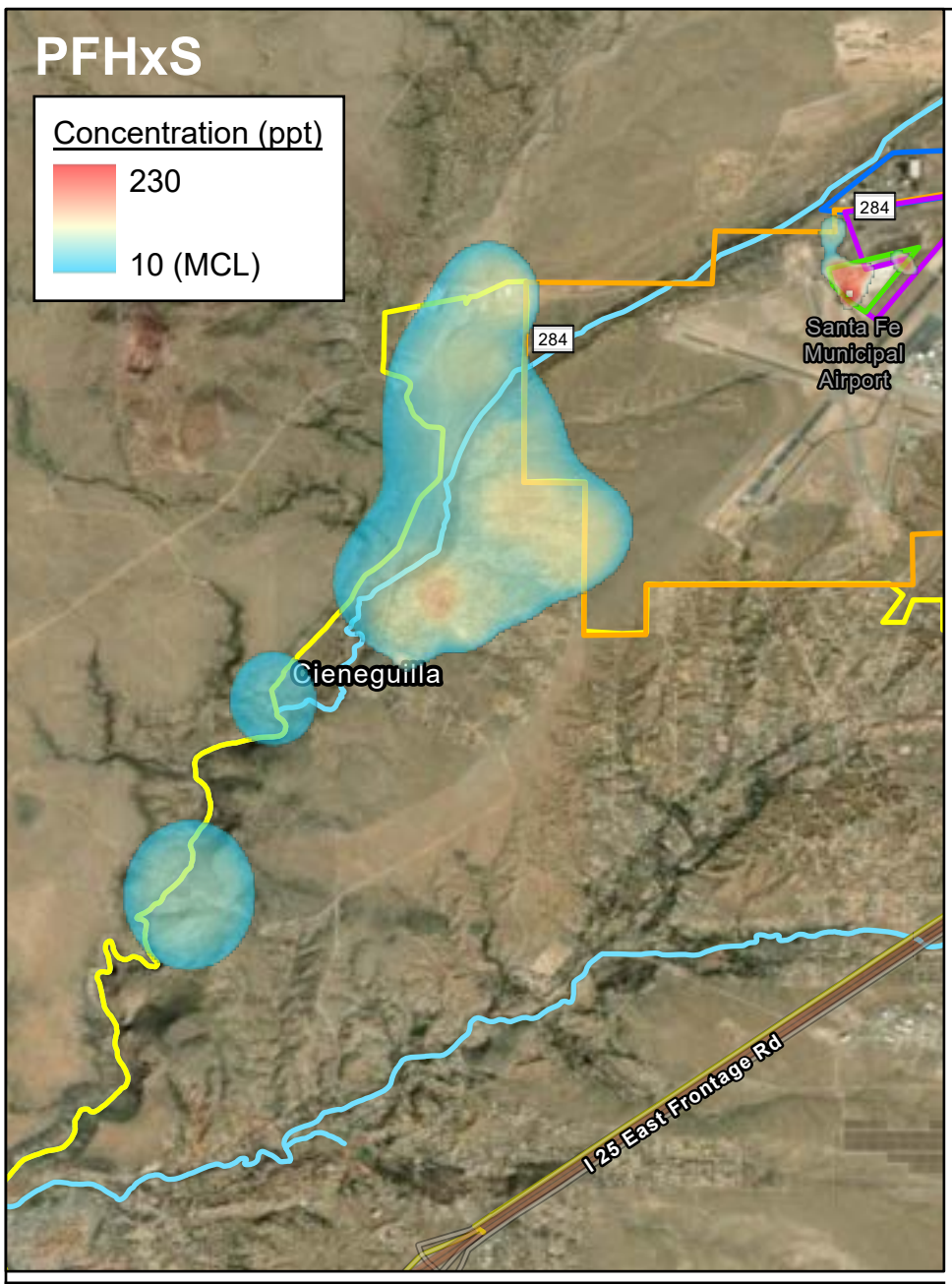
0 0.5 1

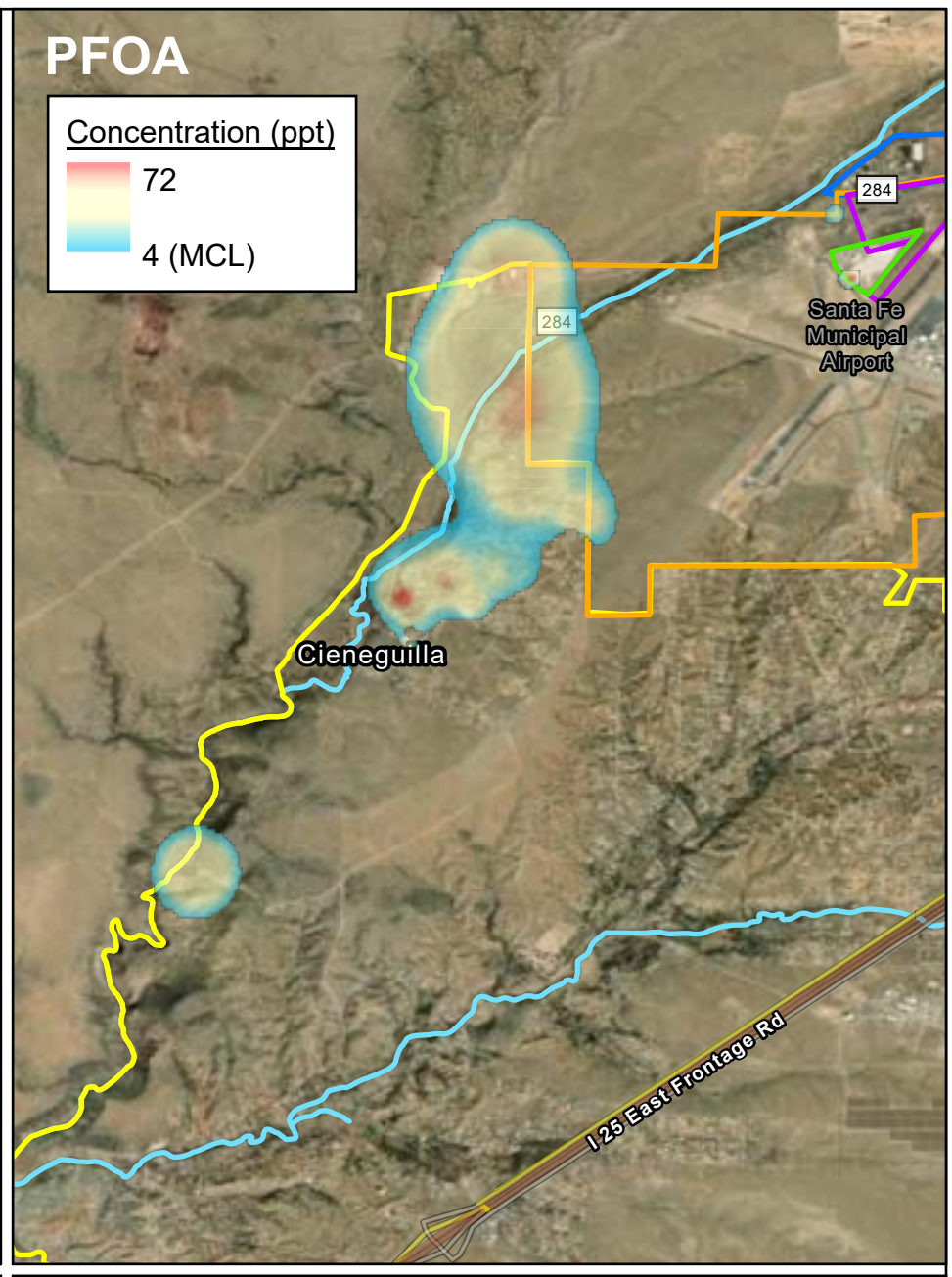
Miles

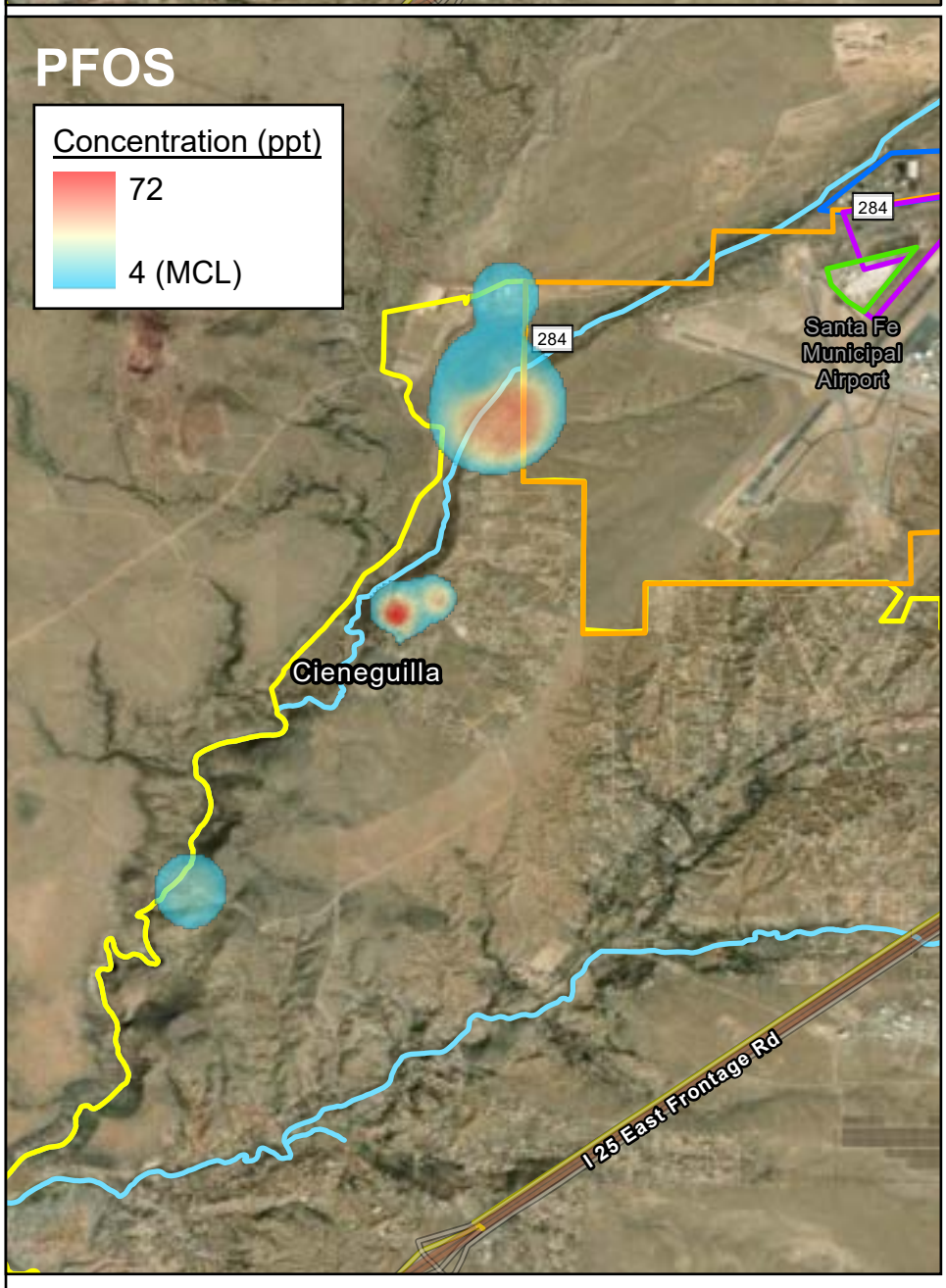
N

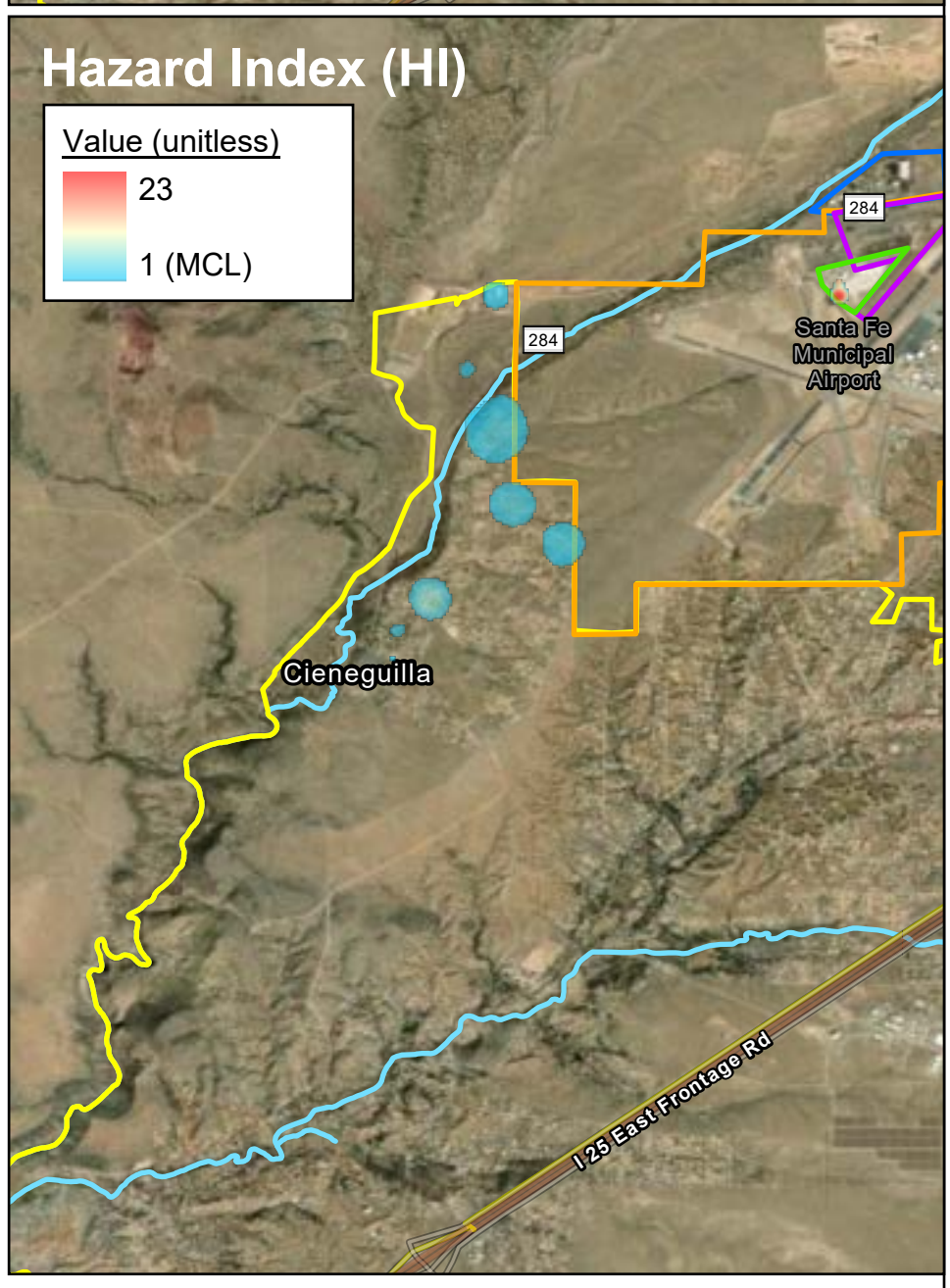
Source(s): Aerial – ESRI ArGIS Online

Figure 4
Sum of Detected PFAS
Santa Fe County PFAS Investigation
Santa Fe County, New Mexico









Legend

- AASF Facility
- PRWRF Surface Disposal Site
- Santa Fe Regional Airport
- La Cienega
- Paseo Real Wastewater Reclamation Facility
- Waterways

Source(s): Aerial – ESRI ArGIS Online

Note: There were no exceedances of PFNA or HFPO-DA (GenX) in the Study Area.

N

0 0.5 1 2 3

Miles

Scale: 1:60,000

Figure 5
PFHxS, PFOA, PFOS, and Hazard Index Results (Above MCL)
August 2025

Santa Fe County PFAS Investigation

Santa Fe County, New Mexico

Exported: 1/8/2026 3:09 PM

S:\ABQ\SFCPW.C001.PFAS\Graphics\MapDocs\SFC_PFAS_Figures\SFC_PFAS_Figures.aprx

User: towen

Map: Map PFHxS

Layout: PFHxS_PFOA_PFOS_HI_above_MCL

INTERA

N

0 0.5 1
Miles

Legend

- Above MCL
- La Cienega
- AASF Facility
- PRWRF Land Application Area
- Santa Fe Regional Airport
- Paseo Real Wastewater Reclamation Facility
- Waterways

Source(s): Aerial – ESRI ArGIS Online

Figure 6
PFAS Results Above MCLs
Santa Fe County PFAS Investigation
Santa Fe County, New Mexico

Exported: 12/22/2025 1:54 PM

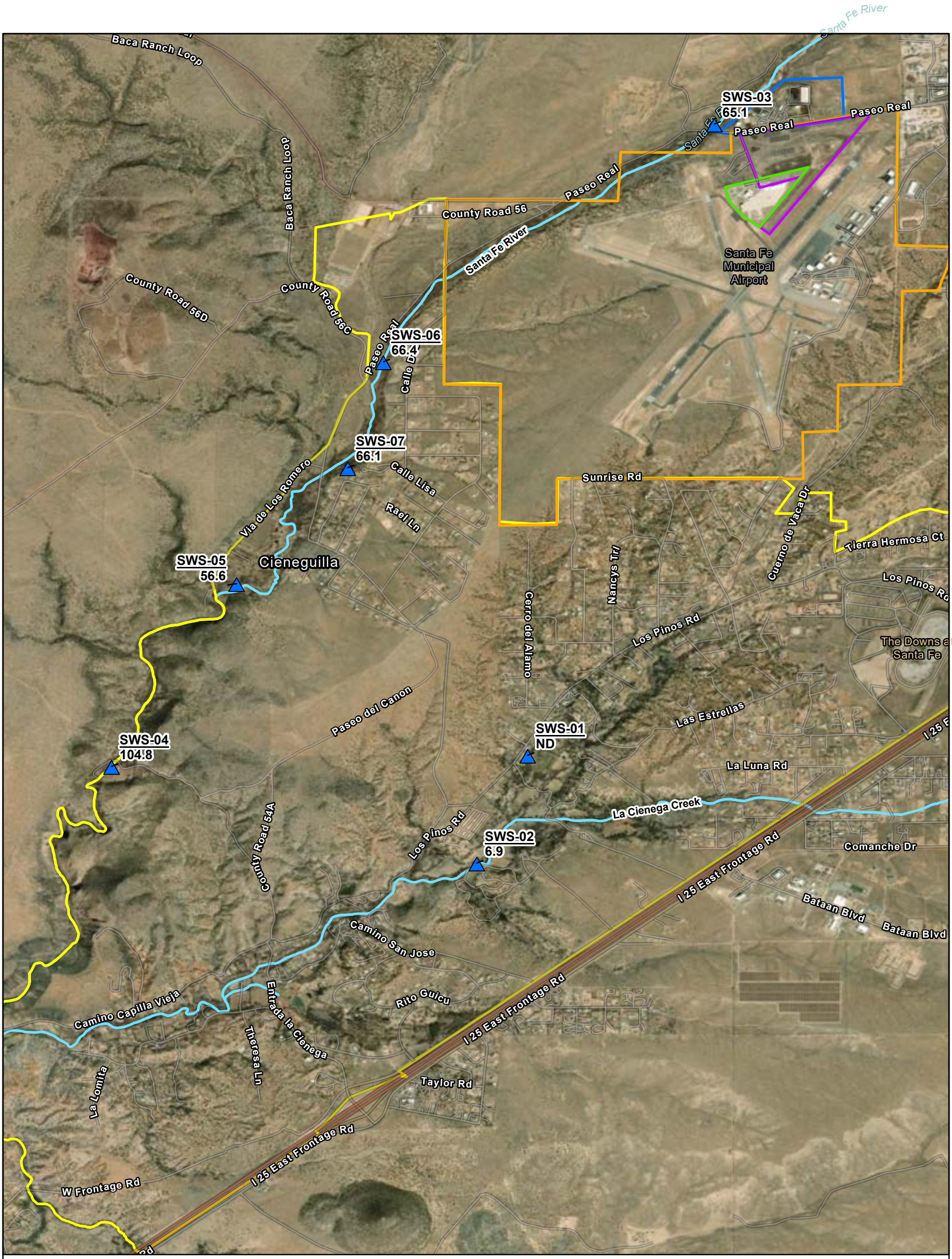
S:\ABQ\SFCPW.C001.PFAS\Graphics\MapDocs\SFC_PFAS_Figures\SFC_PFAS_Figures.aprx

User: towen

Map: Map2

Layout: PFAS_Results_Above_MCLs

INTERA



Legend

- Surface Water Location
- AASF Facility
- PRWRF Surface Disposal Site
- Santa Fe Regional Airport
- La Cienega
- Paseo Real Wastewater Reclamation Facility
- Waterways

0 0.5 1 Miles

N

Note: ND = Non Detect

Sample ID
Sum of Detected PFAS (ng/L)

Source(s): Aerial – ESRI ArGIS Online

Figure 7
Surface Water Sampling Locations
Santa Fe County PFAS Investigation
Santa Fe County, New Mexico

Exported: 1/8/2026 3:05 PM

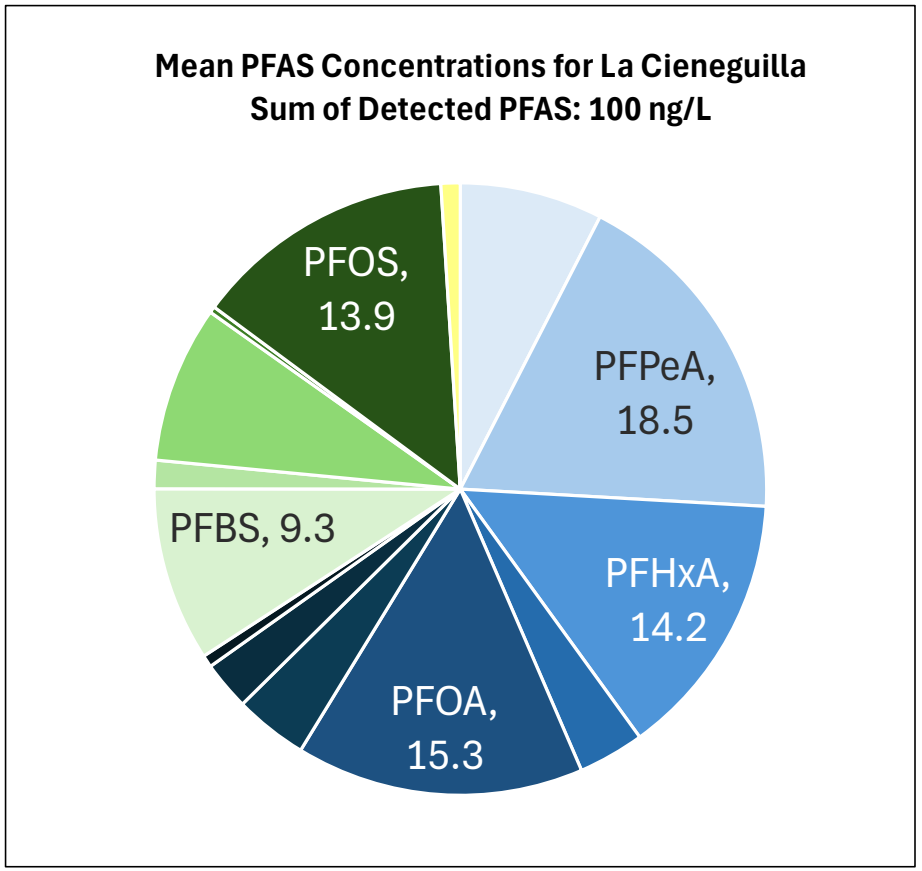
S:\ABQ\SFCPW.C001.PFAS\Graphics\MapDocs\SFC_PFAS_Figures\SFC_PFAS_Figures.aprx

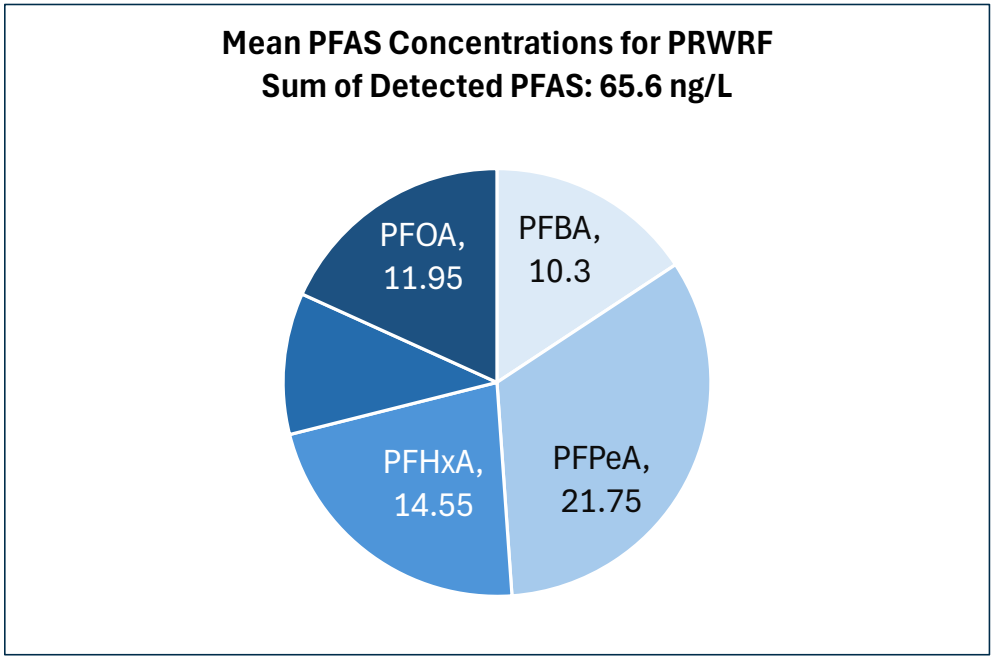
User: towen

Map: Map511

Layout: 07_SW_Sampling_Loc

INTERA





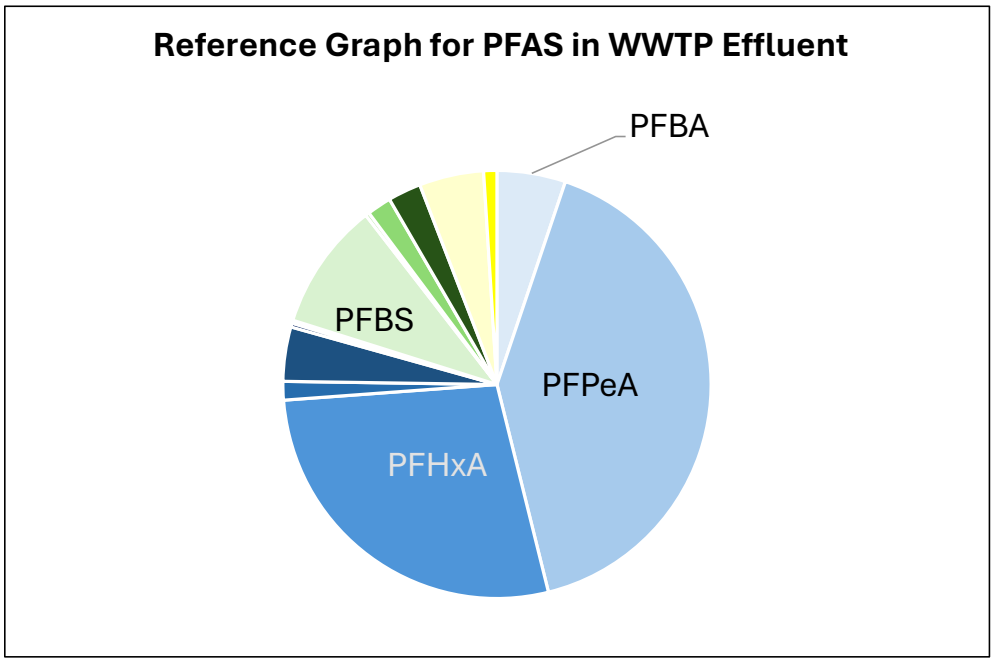
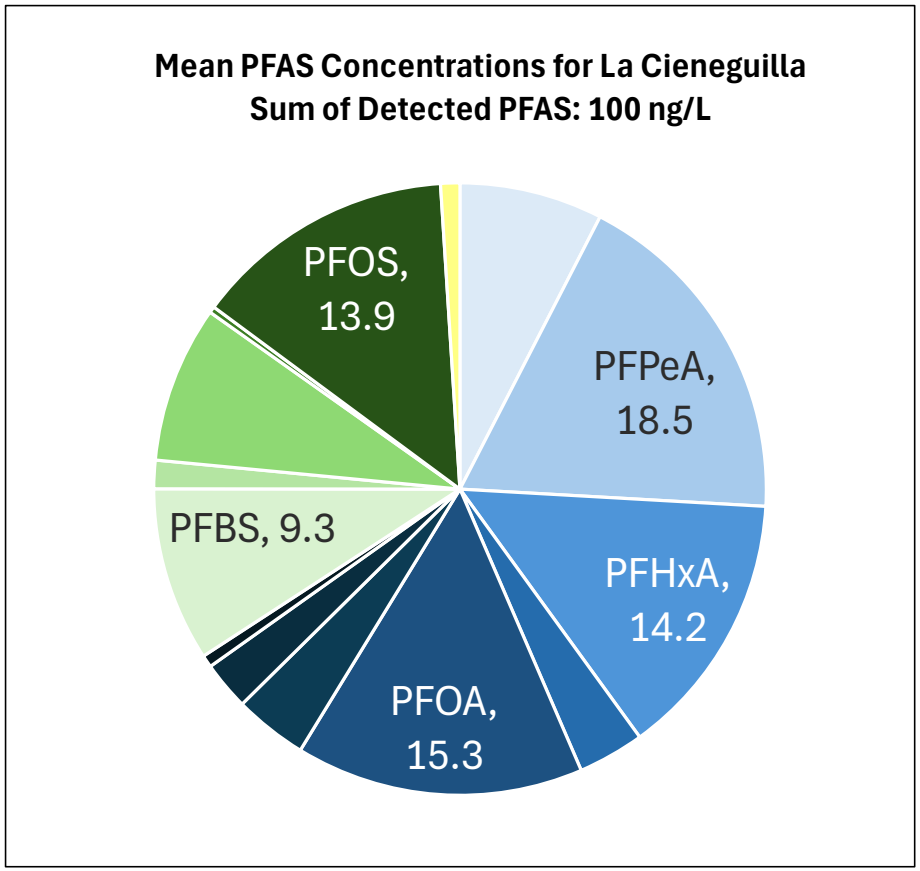
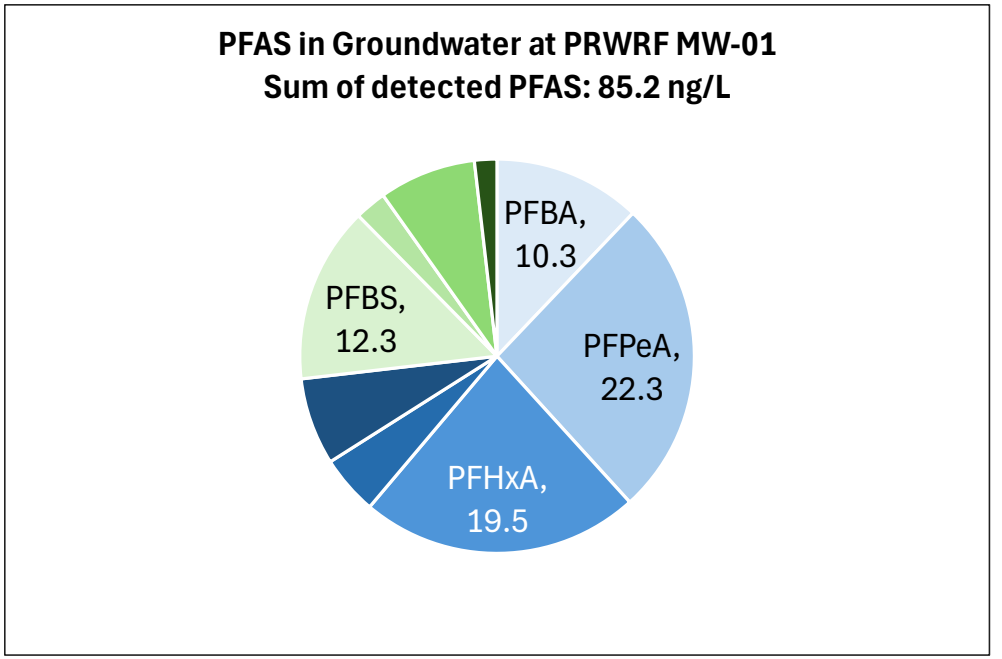


Figure 8. Comparison of La Cieneguilla wells to the mean PRWRF wells and reference WWTP and septic effluent source (Bothfeld et al., 2022).





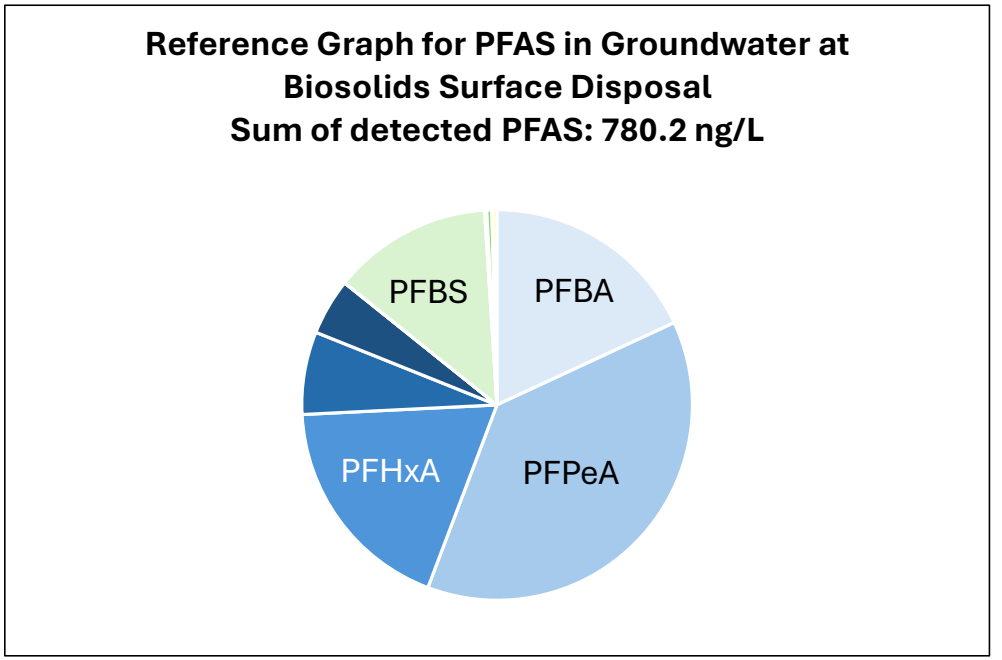
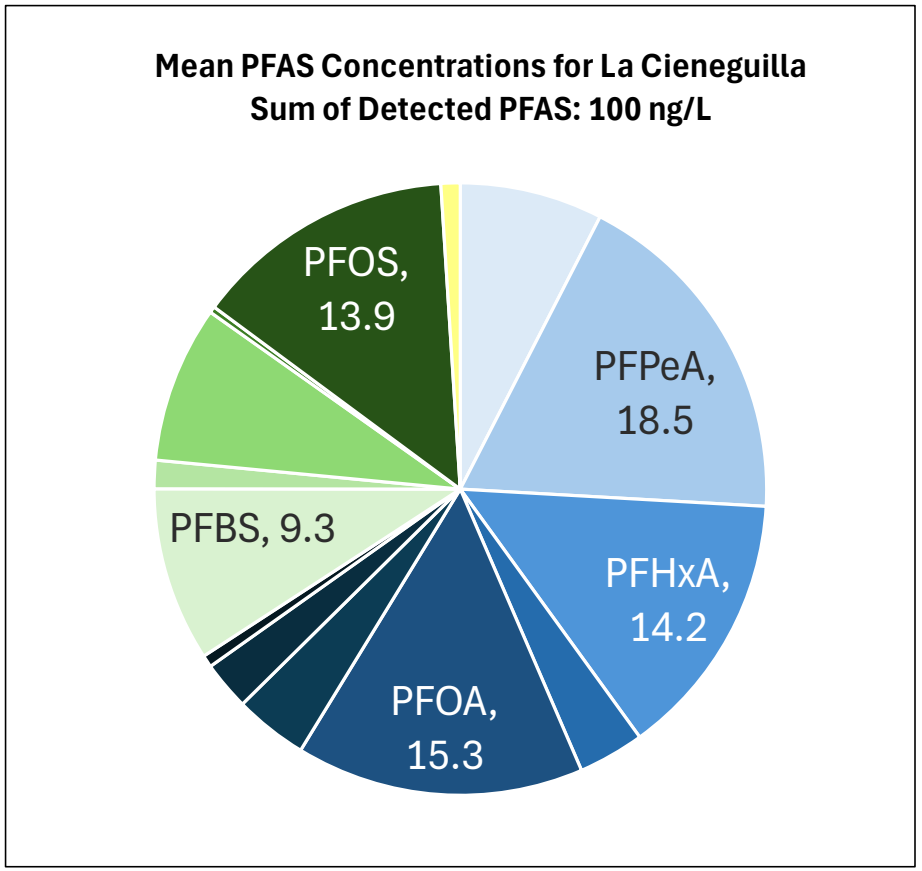
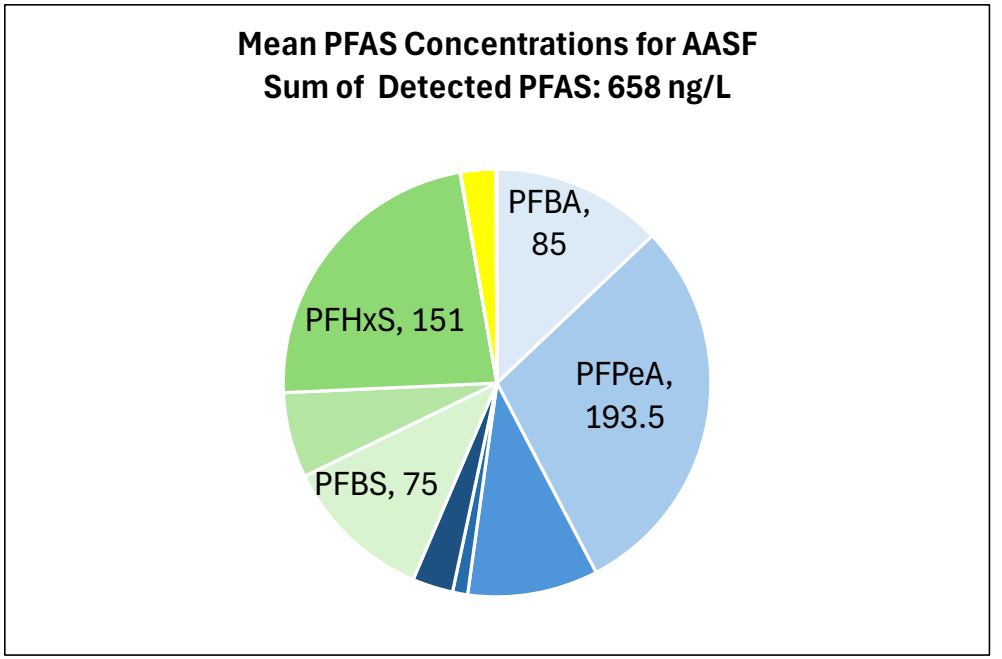


Figure 9. Comparison of La Cieneguilla wells to PRWRF Well MW-01 and reference biosolids surface disposal (Ruiz et al., 2024).





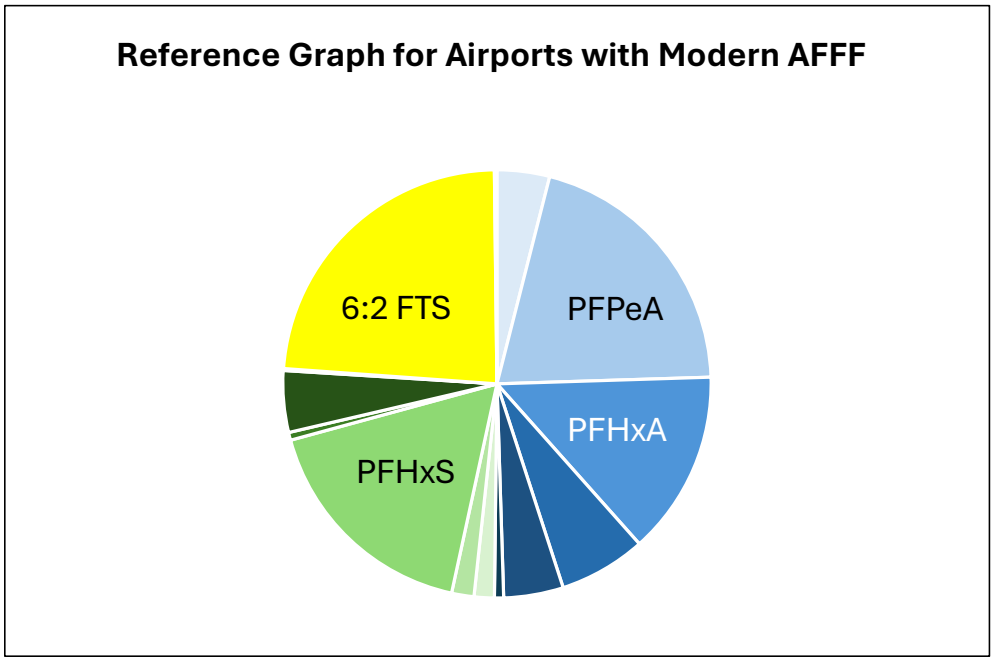


Figure 10. Comparison of La Cieneguilla wells to the mean AASF and reference airport source (Alexander et al., 2025).

TABLES

Table 1. Summary of PFAS Data Sources Used in This Investigation

Data Source*	Sponsor	Sampling Period	Media/Location
Lab Report 2020 – Wastewater Pharmaceuticals	City of Santa Fe	June 2020	PRWRF wastewater influent, effluent, compost, and dewatered biosolids
Lab Report 2023 – PFAS Waste Water	City of Santa Fe	February 2023	PRWRF effluent
Lab Report 2023 – Paseo Real WRF	City of Santa Fe	August 2023	PRWRF monitoring wells
EA, 2023	DoD	February, April–June 2022	AASF soil and monitoring wells
Lab Report 2023 – LCLC Domestic Well Sampling	Santa Fe County	October 2023	La Cienega/La Cieneguilla domestic water wells
DBS&A, 2024a, 2024b, 2025, 2025a	City of Santa Fe	Quarterly (June 2024–March 2025)	PRWRF monitoring wells
DBS&A, 2024, 2025b	City of Santa Fe	July 2024, March 2025	PRWRF biosolids discharge area
Lab Reports Submitted by Residents	Community	June 2023–Present	La Cienega/La Cieneguilla domestic water wells

*Full report titles and citations corresponding to each data source are provided in **Section 11**.

Table 2. Recommended Actions to Address Key Data Gaps

Recommended Action	Key Uncertainty Addressed	Related Data Gap	Why the Action Matters
Install monitoring wells and characterize hydrogeology between La Cieneguilla and the AASF, PRWRF, and biosolids surface disposal site	Reduces uncertainty associated with variable and undocumented domestic well construction; improves understanding of vertical PFAS distribution; improves understanding of the extent of the perched system and the relation to regional groundwater.	Vertical extent of PFAS in groundwater; nature of PFAS in area between potential sources and La Cieneguilla; extent of geologic perching unit at the AASF; contribution of dissolved-phase PFAS from potential sources	Groundwater and hydrogeologic data in this area is largely uncharacterized. Dedicated monitoring wells would provide an improved understanding of PFAS fate and transport, support evaluation of potential human health risks, and inform future remedial actions. They would also help distinguish the nature of PFAS occurring downgradient of the AASF from that observed downgradient of the PRWRF.
Conduct quarterly groundwater sampling	Addresses the lack of time-series data and improves understanding of seasonal variability, plume stability, and PFAS transport over time.	Lack of multiple or seasonal rounds of PFAS sampling; nature and extent of PFAS in southern La Cieneguilla; PFAS source identification	Existing groundwater data represent a limited number of "snapshots" in time. Without repeated sampling, it is difficult to evaluate whether PFAS concentrations are stable, increasing, decreasing, or seasonally influenced. Understanding how PFAS moves through the aquifer system may allow for stronger support of future mitigation and remediation decisions.
Targeted groundwater sampling in southeast La Cieneguilla	Improves delineation of PFAS in an area with limited data.	Nature and extent of PFAS in southeast La Cieneguilla; PFAS source identification	PFAS extent in Southeast La Cieneguilla has not been fully constrained. Additional sampling in a strategically selected domestic well would help bound contamination in this area.
Sample the Bureau of Land Management (BLM) well west of the Santa Fe River	Evaluates PFAS occurrence west of the river and helps delineate the boundaries of PFAS contamination.	Nature and extent of PFAS west of the Santa Fe River	A BLM well west of the river was identified but repeated attempts to sample the well were unsuccessful due to lack of power. Supplying an external power source would allow sampling at this location.

Recommended Action	Key Uncertainty Addressed	Related Data Gap	Why the Action Matters
Conduct collocated surface water and sediment sampling in the Santa Fe River	Evaluates the Santa Fe River as a PFAS transport pathway and characterizes PFAS in river media.	Santa Fe River as a fate and transport pathway; PFAS source identification	Collocated water and sediment sampling at multiple locations, including farther downgradient than sampled to date, would provide a more complete understanding of the river's role in the broader conceptual site model as it pertains to PFAS transport and further delineate PFAS extent.
Collect soil samples to support vadose zone fate and transport analysis	Reduces uncertainty regarding PFAS migration through the unsaturated zone and supports more robust transport evaluation.	Vadose zone data to support PFAS fate and transport analysis; PFAS source identification	Vadose zone properties strongly influence how PFAS migrates across soil and porewater/air interfaces and understanding this creates a basis for evaluating long-term source behavior and potential need for mitigation.
Conduct a limited private septic study	Improves source discrimination and supports PFAS forensics in an area with mixed potential sources.	PFAS source identification; influence of septic system usage on PFAS detections	Available data indicate mixed PFAS sources potentially including private septic systems. A septic study could help evaluate septic systems as a potential contributor to private well impacts.

Table 3. Army National Guard (ARNG) Aviation Support Facility (AASF) Site Inspection (SI) Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	LOQ	Qual.
AOI01-01-GW	EPA 537 Modified	05/20/2022	4:2 FTS	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	6:2 FTS	<3.5	4.4	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	8:2 FTS	<1.7	2.6	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	NEtFOSAA	<0.87	2.6	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	NMeFOSAA	<1	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFBA	<3.5	4.4	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFBS	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFDA	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFDoA	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFDS	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFHpA	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFHpS	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFHxA	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFHxS	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFNA	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFNS	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFOA	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFOS	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFOSA	0.48	1.7	J cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFPeA	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFPeS	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFTeDA	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFTrDA	<0.87	1.7	U cn
AOI01-01-GW	EPA 537 Modified	05/20/2022	PFUnA	<0.87	1.7	U cn
AOI01-02-GW	EPA 537 Modified	05/20/2022	4:2 FTS	<0.85	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	6:2 FTS	<3.4	4.2	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	8:2 FTS	<1.7	2.5	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	NEtFOSAA	<0.85	2.5	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	NMeFOSAA	<1	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFBA	40	4.2	
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFBS	120	1.7	
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFDA	<0.85	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFDoA	<0.85	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFDS	<0.85	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFHpA	15	1.7	
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFHpS	<0.85	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFHxA	130	1.7	
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFHxS	**72**	1.7	
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFNA	<0.85	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFNS	<0.85	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFOA	2.5	1.7	
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFOS	<0.85	1.7	U

Table 3. ARNG AASF SI Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	LOQ	Qual.
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFOSA	0.98	1.7	J
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFPeA	87	1.7	
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFPeS	60	1.7	
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFTeDA	<0.85	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFTrDA	<0.85	1.7	U
AOI01-02-GW	EPA 537 Modified	05/20/2022	PFUnA	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	4:2 FTS	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	6:2 FTS	<3.4	4.2	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	8:2 FTS	<1.7	2.5	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	NEtFOSAA	<0.85	2.5	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	NMeFOSAA	<1	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFBA	40	4.2	
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFBS	130	1.7	
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFDA	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFDoA	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFDS	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFHpA	14	1.7	
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFHpS	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFHxA	120	1.7	
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFHxS	**74**	1.7	
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFNA	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFNS	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFOA	2.3	1.7	
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFOS	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFOSA	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFPeA	90	1.7	
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFPeS	61	1.7	
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFTeDA	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFTrDA	<0.85	1.7	U
AOI01-02-GW-DUP	EPA 537 Modified	05/20/2022	PFUnA	<0.85	1.7	U
AOI01-04-GW	EPA 537 Modified	05/20/2022	4:2 FTS	<0.89	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	6:2 FTS	35	4.4	cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	8:2 FTS	<1.8	2.7	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	NEtFOSAA	<0.89	2.7	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	NMeFOSAA	<1.1	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFBA	130	4.4	cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFBS	30	1.8	cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFDA	<0.89	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFDoA	<0.89	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFDS	<0.89	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFHpS	<0.89	1.8	U cn

Table 3. ARNG AASF SI Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	LOQ	Qual.
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFHxS	**230**	1.8	cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFNA	<0.89	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFNS	<0.89	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFOA	**38**	1.8	cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFOS	0.54	1.8	J I cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFOSA	<0.89	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFPeA	300	1.8	cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFPeS	25	1.8	cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFTeDA	<0.89	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFTrDA	<0.89	1.8	U cn
AOI01-04-GW	EPA 537 Modified	05/20/2022	PFUnA	<0.89	1.8	U cn
SFAASF-03-GW	EPA 537 Modified	05/19/2022	4:2 FTS	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	6:2 FTS	<3.4	4.3	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	8:2 FTS	<1.7	2.6	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	NEtFOSAA	<0.86	2.6	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	NMeFOSAA	<1	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFBA	<3.4	4.3	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFBS	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFDA	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFDoA	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFDS	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFHpA	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFHpS	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFHxA	0.84	1.7	J I
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFHxS	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFNA	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFNS	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFOA	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFOS	0.92	1.7	J cn
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFOSA	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFPeA	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFPeS	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFTeDA	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFTrDA	<0.86	1.7	U
SFAASF-03-GW	EPA 537 Modified	05/19/2022	PFUnA	<0.86	1.7	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	4:2 FTS	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	6:2 FTS	<3.3	4.1	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	8:2 FTS	<1.6	2.5	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	NEtFOSAA	<0.82	2.5	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	NMeFOSAA	<0.98	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFBA	<3.3	4.1	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFBS	<0.82	1.6	U

Table 3. ARNG AASF SI Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	LOQ	Qual.
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFDA	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFDoA	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFDS	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFHpA	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFHpS	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFHxA	0.6	1.6	J I
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFHxS	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFNA	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFNS	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFOA	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFOS	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFOSA	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFPeA	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFPeS	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFTeDA	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFTrDA	<0.82	1.6	U
SFAASF-04-GW	EPA 537 Modified	05/19/2022	PFUnA	<0.82	1.6	U

Notes:

LOQ = limit of quantitation

Qual. = qualifier (listed if provided in lab reports)

= exceedance in the Hazard Index (HI)

Bold indicates that the value exceeds U.S. Environmental Protetion Agency (EPA) maximum contaminant levels (MCLs).

The PFAS analyte HFPO-DA (commonly referred to as GenX) was not included as an analyte in the Army National Guard (ARNG) Aviation Support Facility (AASF) Site Inspection (SI).

When laboratory reports listed the result, LOQ, detection limit (DL), and qualifiers, results qualified as "U" were treated as non-detects. The associated numeric result values represent laboratory reporting limits rather than measured concentrations. These values are not included in the screening level assessment.

Table 4. Paseo Real Wastewater Reclamation Facility (PRWRF) Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-1	EPA Method 1633	06/21/2024	PFPeS	2.24	1.48
MW-1	EPA Method 1633	06/21/2024	PFHpA	4.13	1.58
MW-1	EPA Method 1633	06/21/2024	PFOA	**7.03**	1.97
MW-1	EPA Method 1633	06/21/2024	PFHxS	7.16	1.44
MW-1	EPA Method 1633	06/21/2024	PFBA	10.60	6.31
MW-1	EPA Method 1633	06/21/2024	PFBS	14.20	1.40
MW-1	EPA Method 1633	06/21/2024	PFHxA	21.10	1.58
MW-1	EPA Method 1633	06/21/2024	PFPeA	21.70	3.15
MW-1	EPA Method 1633	06/21/2024	PFOS	<1.47	1.47
MW-1	EPA Method 1633	06/21/2024	PFHpS	<1.5	1.50
MW-1	EPA Method 1633	06/21/2024	PFNS	<1.52	1.52
MW-1	EPA Method 1633	06/21/2024	PFDS	<1.52	1.52
MW-1	EPA Method 1633	06/21/2024	PFDoS	<1.53	1.53
MW-1	EPA Method 1633	06/21/2024	PFNA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	PFOSA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	PFDA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	NMeFOSAA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	NEtFOSAA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	PFUnA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	PFDoA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	NMeFOSA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	PFTrDA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	PFTeDA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	NEtFOSA	<1.58	1.58
MW-1	EPA Method 1633	06/21/2024	NMeFOSE	<15.8	15.8
MW-1	EPA Method 1633	06/21/2024	NEtFOSE	<15.8	15.8
MW-1	EPA Method 1633	06/21/2024	PFEESA	<2.81	2.81
MW-1	EPA Method 1633	06/21/2024	PFMPA	<3.15	3.15
MW-1	EPA Method 1633	06/21/2024	PFMBA	<3.15	3.15
MW-1	EPA Method 1633	06/21/2024	NFDHA	<3.15	3.15
MW-1	EPA Method 1633	06/21/2024	5:3 FTCA	<39.4	39.4
MW-1	EPA Method 1633	06/21/2024	7:3 FTCA	<39.4	39.4
MW-1	EPA Method 1633	06/21/2024	4:2 FTS	<5.91	5.91
MW-1	EPA Method 1633	06/21/2024	11Cl-PF3OUdS	<5.91	5.91
MW-1	EPA Method 1633	06/21/2024	6:2 FTS	<5.98	5.98
MW-1	EPA Method 1633	06/21/2024	8:2 FTS	<6.05	6.05
MW-1	EPA Method 1633	06/21/2024	9Cl-PF3ONS	<6.15	6.15
MW-1	EPA Method 1633	06/21/2024	ADONA	<6.23	6.23
MW-1	EPA Method 1633	06/21/2024	HFPO-DA	<6.58	6.58
MW-1	EPA Method 1633	06/21/2024	3:3 FTCA	<7.88	7.88
MW-1	EPA Method 1633	09/11/2024	PFPeS	2.32	1.49
MW-1	EPA Method 1633	09/11/2024	PFHpA	3.90	1.59

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-1	EPA Method 1633	09/11/2024	PFOA	**5.85**	1.99
MW-1	EPA Method 1633	09/11/2024	PFHxS	7.23	1.45
MW-1	EPA Method 1633	09/11/2024	PFBA	9.93	6.36
MW-1	EPA Method 1633	09/11/2024	PFBS	11.30	1.41
MW-1	EPA Method 1633	09/11/2024	PFHxA	20.80	1.59
MW-1	EPA Method 1633	09/11/2024	PFPeA	23.90	3.18
MW-1	EPA Method 1633	09/11/2024	PFOS	<1.48	1.48
MW-1	EPA Method 1633	09/11/2024	PFHpS	<1.51	1.51
MW-1	EPA Method 1633	09/11/2024	PFNS	<1.53	1.53
MW-1	EPA Method 1633	09/11/2024	PFDS	<1.53	1.53
MW-1	EPA Method 1633	09/11/2024	PFDoS	<1.54	1.54
MW-1	EPA Method 1633	09/11/2024	PFNA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	PFOSA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	PFDA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	NMeFOSAA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	NEtFOSAA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	PFUnA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	PFDoA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	NMeFOSA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	PFTrDA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	PFTeDA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	NEtFOSA	<1.59	1.59
MW-1	EPA Method 1633	09/11/2024	NMeFOSE	<15.9	15.9
MW-1	EPA Method 1633	09/11/2024	NEtFOSE	<15.9	15.9
MW-1	EPA Method 1633	09/11/2024	PFEESA	<2.83	2.83
MW-1	EPA Method 1633	09/11/2024	PFMPA	<3.18	3.18
MW-1	EPA Method 1633	09/11/2024	PFMBA	<3.18	3.18
MW-1	EPA Method 1633	09/11/2024	NFDHA	<3.18	3.18
MW-1	EPA Method 1633	09/11/2024	5:3 FTCA	<39.7	39.7
MW-1	EPA Method 1633	09/11/2024	7:3 FTCA	<39.7	39.7
MW-1	EPA Method 1633	09/11/2024	4:2 FTS	<5.96	5.96
MW-1	EPA Method 1633	09/11/2024	11Cl-PF3OUdS	<5.96	5.96
MW-1	EPA Method 1633	09/11/2024	6:2 FTS	<6.03	6.03
MW-1	EPA Method 1633	09/11/2024	8:2 FTS	<6.1	6.10
MW-1	EPA Method 1633	09/11/2024	9Cl-PF3ONS	<6.2	6.20
MW-1	EPA Method 1633	09/11/2024	ADONA	<6.28	6.28
MW-1	EPA Method 1633	09/11/2024	HFPO-DA	<6.63	6.63
MW-1	EPA Method 1633	09/11/2024	3:3 FTCA	<7.95	7.95
MW-1	EPA Method 1633	12/19/2024	PFBA	10.40	6.54
MW-1	EPA Method 1633	12/19/2024	PFMPA	<3.27	3.27
MW-1	EPA Method 1633	12/19/2024	3:3 FTCA	<8.18	8.18
MW-1	EPA Method 1633	12/19/2024	PFPeA	21.30	3.27

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-1	EPA Method 1633	12/19/2024	PFMBA	<3.27	3.27
MW-1	EPA Method 1633	12/19/2024	PFBS	11.40	1.45
MW-1	EPA Method 1633	12/19/2024	4:2 FTS	<6.13	6.13
MW-1	EPA Method 1633	12/19/2024	PFHxA	16.70	1.64
MW-1	EPA Method 1633	12/19/2024	PFEESA	<2.91	2.91
MW-1	EPA Method 1633	12/19/2024	PFPeS	2.01	1.53
MW-1	EPA Method 1633	12/19/2024	HFPO-DA	<6.83	6.83
MW-1	EPA Method 1633	12/19/2024	NFDHA	<3.27	3.27
MW-1	EPA Method 1633	12/19/2024	5:3 FTCA	<40.9	40.9
MW-1	EPA Method 1633	12/19/2024	PFHpA	4.33	1.64
MW-1	EPA Method 1633	12/19/2024	ADONA	<6.46	6.46
MW-1	EPA Method 1633	12/19/2024	PFHxS	6.04	1.49
MW-1	EPA Method 1633	12/19/2024	6:2 FTS	<6.21	6.21
MW-1	EPA Method 1633	12/19/2024	PFOA	**5.42**	2.04
MW-1	EPA Method 1633	12/19/2024	PFHpS	<1.55	1.55
MW-1	EPA Method 1633	12/19/2024	7:3 FTCA	<40.9	40.9
MW-1	EPA Method 1633	12/19/2024	PFNA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	PFOSA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	PFOS	<1.52	1.52
MW-1	EPA Method 1633	12/19/2024	9Cl-PF3ONS	<6.38	6.38
MW-1	EPA Method 1633	12/19/2024	PFDA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	8:2 FTS	<6.28	6.28
MW-1	EPA Method 1633	12/19/2024	PFNS	<1.57	1.57
MW-1	EPA Method 1633	12/19/2024	NMeFOSAA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	NEtFOSAA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	PFUnA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	PFDS	<1.57	1.57
MW-1	EPA Method 1633	12/19/2024	11Cl-PF3OUdS	<6.13	6.13
MW-1	EPA Method 1633	12/19/2024	PFDoA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	NMeFOSA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	PFTrDA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	PFDoS	<1.58	1.58
MW-1	EPA Method 1633	12/19/2024	PFTeDA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	NEtFOSA	<1.64	1.64
MW-1	EPA Method 1633	12/19/2024	NMeFOSE	<16.4	16.4
MW-1	EPA Method 1633	12/19/2024	NEtFOSE	<16.4	16.4
MW-1	EPA Method 1633	03/12/2025	PFBA	11.20	6.11
MW-1	EPA Method 1633	03/12/2025	PFMPA	<3.06	3.06
MW-1	EPA Method 1633	03/12/2025	3:3 FTCA	<7.64	7.64
MW-1	EPA Method 1633	03/12/2025	PFPeA	24.00	3.06
MW-1	EPA Method 1633	03/12/2025	PFMBA	<3.06	3.06
MW-1	EPA Method 1633	03/12/2025	PFBS	14.40	1.36

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-1	EPA Method 1633	03/12/2025	4:2 FTS	<5.73	5.73
MW-1	EPA Method 1633	03/12/2025	PFHxA	20.80	1.53
MW-1	EPA Method 1633	03/12/2025	PFEESA	<2.72	2.72
MW-1	EPA Method 1633	03/12/2025	PFPeS	2.29	1.43
MW-1	EPA Method 1633	03/12/2025	HFPO-DA	<6.38	6.38
MW-1	EPA Method 1633	03/12/2025	NFDHA	<3.06	3.06
MW-1	EPA Method 1633	03/12/2025	5:3 FTCA	<38.2	38.2
MW-1	EPA Method 1633	03/12/2025	PFHpA	4.22	1.53
MW-1	EPA Method 1633	03/12/2025	ADONA	<6.04	6.04
MW-1	EPA Method 1633	03/12/2025	PFHxS	7.00	1.39
MW-1	EPA Method 1633	03/12/2025	6:2 FTS	<5.8	5.8
MW-1	EPA Method 1633	03/12/2025	PFOA	**6.19**	1.91
MW-1	EPA Method 1633	03/12/2025	PFHpS	<1.45	1.45
MW-1	EPA Method 1633	03/12/2025	7:3 FTCA	<38.2	38.2
MW-1	EPA Method 1633	03/12/2025	PFNA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	PFOSA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	PFOS	<1.42	1.42
MW-1	EPA Method 1633	03/12/2025	9Cl-PF3ONS	<5.96	5.96
MW-1	EPA Method 1633	03/12/2025	PFDA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	8:2 FTS	<5.86	5.86
MW-1	EPA Method 1633	03/12/2025	PFNS	<1.47	1.47
MW-1	EPA Method 1633	03/12/2025	NMeFOSAA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	NEtFOSAA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	PFUnA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	PFDS	<1.47	1.47
MW-1	EPA Method 1633	03/12/2025	11Cl-PF3OUdS	<5.73	5.73
MW-1	EPA Method 1633	03/12/2025	PFDoA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	NMeFOSA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	PFTrDA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	PFDoS	<1.48	1.48
MW-1	EPA Method 1633	03/12/2025	PFTeDA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	NEtFOSA	<1.53	1.53
MW-1	EPA Method 1633	03/12/2025	NMeFOSE	<15.3	15.3
MW-1	EPA Method 1633	03/12/2025	NEtFOSE	<15.3	15.3
MW-2	EPA Method 1633	06/20/2024	PFBS	<1.33	1.33
MW-2	EPA Method 1633	06/20/2024	PFHxS	<1.37	1.37
MW-2	EPA Method 1633	06/20/2024	PFOS	<1.39	1.39
MW-2	EPA Method 1633	06/20/2024	PFPeS	<1.40	1.40
MW-2	EPA Method 1633	06/20/2024	PFHpS	<1.42	1.42
MW-2	EPA Method 1633	06/20/2024	PFNS	<1.44	1.44
MW-2	EPA Method 1633	06/20/2024	PFDS	<1.44	1.44
MW-2	EPA Method 1633	06/20/2024	PFDoS	<1.45	1.45

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-2	EPA Method 1633	06/20/2024	PFHxA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	PFHpA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	PFNA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	PFOSA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	PFDA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	NMeFOSAA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	NEtFOSAA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	PFUnA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	PFDoA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	NMeFOSA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	PFTrDA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	PFTeDA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	NEtFOSA	<1.50	1.50
MW-2	EPA Method 1633	06/20/2024	PFOA	<1.87	1.87
MW-2	EPA Method 1633	06/20/2024	NMeFOSE	<15.0	15.0
MW-2	EPA Method 1633	06/20/2024	NEtFOSE	<15.0	15.0
MW-2	EPA Method 1633	06/20/2024	PFEESA	<2.67	2.67
MW-2	EPA Method 1633	06/20/2024	PFMPA	<2.99	2.99
MW-2	EPA Method 1633	06/20/2024	PFPeA	<2.99	2.99
MW-2	EPA Method 1633	06/20/2024	PFMBA	<2.99	2.99
MW-2	EPA Method 1633	06/20/2024	NFDHA	<2.99	2.99
MW-2	EPA Method 1633	06/20/2024	5:3 FTCA	<37.4	37.4
MW-2	EPA Method 1633	06/20/2024	7:3 FTCA	<37.4	37.4
MW-2	EPA Method 1633	06/20/2024	4:2 FTS	<5.62	5.62
MW-2	EPA Method 1633	06/20/2024	11Cl-PF3OUdS	<5.62	5.62
MW-2	EPA Method 1633	06/20/2024	6:2 FTS	<5.68	5.68
MW-2	EPA Method 1633	06/20/2024	8:2 FTS	<5.75	5.75
MW-2	EPA Method 1633	06/20/2024	9Cl-PF3ONS	<5.84	5.84
MW-2	EPA Method 1633	06/20/2024	ADONA	<5.91	5.91
MW-2	EPA Method 1633	06/20/2024	PFBA	<5.99	5.99
MW-2	EPA Method 1633	06/20/2024	HFPO-DA	<6.25	6.25
MW-2	EPA Method 1633	06/20/2024	3:3 FTCA	<7.49	7.49
MW-2	EPA Method 1633	09/11/2024	PFBS	<1.43	1.43
MW-2	EPA Method 1633	09/11/2024	PFHxS	<1.47	1.47
MW-2	EPA Method 1633	09/11/2024	PFOS	<1.50	1.50
MW-2	EPA Method 1633	09/11/2024	PFPeS	<1.51	1.51
MW-2	EPA Method 1633	09/11/2024	PFHpS	<1.53	1.53
MW-2	EPA Method 1633	09/11/2024	PFNS	<1.55	1.55
MW-2	EPA Method 1633	09/11/2024	PFDS	<1.55	1.55
MW-2	EPA Method 1633	09/11/2024	PFDoS	<1.56	1.56
MW-2	EPA Method 1633	09/11/2024	PFHxA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	PFHpA	<1.61	1.61

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-2	EPA Method 1633	09/11/2024	PFNA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	PFOSA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	PFDA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	NMeFOSAA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	NEtFOSAA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	PFUnA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	PFDoA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	NMeFOSA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	PFTrDA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	PFTeDA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	NEtFOSA	<1.61	1.61
MW-2	EPA Method 1633	09/11/2024	NMeFOSE	<16.1	16.1
MW-2	EPA Method 1633	09/11/2024	NEtFOSE	<16.1	16.1
MW-2	EPA Method 1633	09/11/2024	PFOA	<2.01	2.01
MW-2	EPA Method 1633	09/11/2024	PFEESA	<2.87	2.87
MW-2	EPA Method 1633	09/11/2024	PFMPA	<3.22	3.22
MW-2	EPA Method 1633	09/11/2024	PFPeA	<3.22	3.22
MW-2	EPA Method 1633	09/11/2024	PFMBA	<3.22	3.22
MW-2	EPA Method 1633	09/11/2024	NFDHA	<3.22	3.22
MW-2	EPA Method 1633	09/11/2024	5:3 FTCA	<40.3	40.3
MW-2	EPA Method 1633	09/11/2024	7:3 FTCA	<40.3	40.3
MW-2	EPA Method 1633	09/11/2024	4:2 FTS	<6.04	6.04
MW-2	EPA Method 1633	09/11/2024	11Cl-PF3OUdS	<6.04	6.04
MW-2	EPA Method 1633	09/11/2024	6:2 FTS	<6.11	6.11
MW-2	EPA Method 1633	09/11/2024	8:2 FTS	<6.18	6.18
MW-2	EPA Method 1633	09/11/2024	9Cl-PF3ONS	<6.29	6.29
MW-2	EPA Method 1633	09/11/2024	ADONA	<6.37	6.37
MW-2	EPA Method 1633	09/11/2024	PFBA	<6.45	6.45
MW-2	EPA Method 1633	09/11/2024	HFPO-DA	<6.73	6.73
MW-2	EPA Method 1633	09/11/2024	3:3 FTCA	<8.06	8.06
MW-2	EPA Method 1633	12/19/2024	PFBA	<6.44	6.44
MW-2	EPA Method 1633	12/19/2024	PFMPA	<3.22	3.22
MW-2	EPA Method 1633	12/19/2024	3:3 FTCA	<8.05	8.05
MW-2	EPA Method 1633	12/19/2024	PFPeA	<3.22	3.22
MW-2	EPA Method 1633	12/19/2024	PFMBA	<3.22	3.22
MW-2	EPA Method 1633	12/19/2024	PFBS	<1.43	1.43
MW-2	EPA Method 1633	12/19/2024	4:2 FTS	<6.04	6.04
MW-2	EPA Method 1633	12/19/2024	PFHxA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	PFEESA	<2.87	2.87
MW-2	EPA Method 1633	12/19/2024	PFPeS	<1.51	1.51
MW-2	EPA Method 1633	12/19/2024	HFPO-DA	<6.72	6.72
MW-2	EPA Method 1633	12/19/2024	NFDHA	<3.22	3.22

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-2	EPA Method 1633	12/19/2024	5:3 FTCA	<40.2	40.2
MW-2	EPA Method 1633	12/19/2024	PFHpA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	ADONA	<6.36	6.36
MW-2	EPA Method 1633	12/19/2024	PFHxS	<1.47	1.47
MW-2	EPA Method 1633	12/19/2024	6:2 FTS	<6.11	6.11
MW-2	EPA Method 1633	12/19/2024	PFOA	<2.01	2.01
MW-2	EPA Method 1633	12/19/2024	PFHpS	<1.53	1.53
MW-2	EPA Method 1633	12/19/2024	7:3 FTCA	<40.2	40.2
MW-2	EPA Method 1633	12/19/2024	PFNA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	PFOSA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	PFOS	<1.50	1.50
MW-2	EPA Method 1633	12/19/2024	9Cl-PF3ONS	<6.28	6.28
MW-2	EPA Method 1633	12/19/2024	PFDA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	8:2 FTS	<6.18	6.18
MW-2	EPA Method 1633	12/19/2024	PFNS	<1.55	1.55
MW-2	EPA Method 1633	12/19/2024	NMeFOSAA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	NEtFOSAA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	PFUnA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	PFDS	<1.55	1.55
MW-2	EPA Method 1633	12/19/2024	11Cl-PF3OUdS	<6.04	6.04
MW-2	EPA Method 1633	12/19/2024	PFDoA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	NMeFOSA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	PFTrDA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	PFDoS	<1.56	1.56
MW-2	EPA Method 1633	12/19/2024	PFTeDA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	NEtFOSA	<1.61	1.61
MW-2	EPA Method 1633	12/19/2024	NMeFOSE	<16.1	16.1
MW-2	EPA Method 1633	12/19/2024	NEtFOSE	<16.1	16.1
MW-2	EPA Method 1633	03/12/2025	PFBA	<6.11	6.11
MW-2	EPA Method 1633	03/12/2025	PFMPA	<3.05	3.05
MW-2	EPA Method 1633	03/12/2025	3:3 FTCA	<7.64	7.64
MW-2	EPA Method 1633	03/12/2025	PFPeA	<3.05	3.05
MW-2	EPA Method 1633	03/12/2025	PFMBA	<3.05	3.05
MW-2	EPA Method 1633	03/12/2025	PFBS	<1.36	1.36
MW-2	EPA Method 1633	03/12/2025	4:2 FTS	<5.73	5.73
MW-2	EPA Method 1633	03/12/2025	PFHxA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	PFEESA	<2.72	2.72
MW-2	EPA Method 1633	03/12/2025	PFPeS	<1.43	1.43
MW-2	EPA Method 1633	03/12/2025	HFPO-DA	<6.38	6.38
MW-2	EPA Method 1633	03/12/2025	NFDHA	<3.05	3.05
MW-2	EPA Method 1633	03/12/2025	5:3 FTCA	<38.2	38.2
MW-2	EPA Method 1633	03/12/2025	PFHpA	<1.53	1.53

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-2	EPA Method 1633	03/12/2025	ADONA	<6.03	6.03
MW-2	EPA Method 1633	03/12/2025	PFHxS	<1.39	1.39
MW-2	EPA Method 1633	03/12/2025	6:2 FTS	<5.79	5.79
MW-2	EPA Method 1633	03/12/2025	PFOA	<1.91	1.91
MW-2	EPA Method 1633	03/12/2025	PFHpS	<1.45	1.45
MW-2	EPA Method 1633	03/12/2025	7:3 FTCA	<38.2	38.2
MW-2	EPA Method 1633	03/12/2025	PFNA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	PFOSA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	PFOS	<1.42	1.42
MW-2	EPA Method 1633	03/12/2025	9Cl-PF3ONS	<5.96	5.96
MW-2	EPA Method 1633	03/12/2025	PFDA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	8:2 FTS	<5.86	5.86
MW-2	EPA Method 1633	03/12/2025	PFNS	<1.47	1.47
MW-2	EPA Method 1633	03/12/2025	NMeFOSAA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	NEtFOSAA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	PFUnA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	PFDS	<1.47	1.47
MW-2	EPA Method 1633	03/12/2025	11Cl-PF3OUdS	<5.73	5.73
MW-2	EPA Method 1633	03/12/2025	PFDoA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	NMeFOSA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	PFTrDA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	PFDoS	<1.48	1.48
MW-2	EPA Method 1633	03/12/2025	PFTeDA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	NEtFOSA	<1.53	1.53
MW-2	EPA Method 1633	03/12/2025	NMeFOSE	<15.3	15.3
MW-2	EPA Method 1633	03/12/2025	NEtFOSE	<15.3	15.3
MW-3	EPA Method 1633	06/20/2024	PFBS	<1.37	1.37
MW-3	EPA Method 1633	06/20/2024	PFHxS	<1.41	1.41
MW-3	EPA Method 1633	06/20/2024	PFPeS	<1.44	1.44
MW-3	EPA Method 1633	06/20/2024	PFOS	<1.44	1.44
MW-3	EPA Method 1633	06/20/2024	PFHpS	<1.46	1.46
MW-3	EPA Method 1633	06/20/2024	PFNS	<1.48	1.48
MW-3	EPA Method 1633	06/20/2024	PFDS	<1.48	1.48
MW-3	EPA Method 1633	06/20/2024	PFDoS	<1.49	1.49
MW-3	EPA Method 1633	06/20/2024	PFHxA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	PFHpA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	PFNA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	PFOSA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	PFDA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	NMeFOSAA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	NEtFOSAA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	PFUnA	<1.54	1.54

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-3	EPA Method 1633	06/20/2024	PFDoA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	NMeFOSA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	PFTrDA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	PFTeDA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	NEtFOSA	<1.54	1.54
MW-3	EPA Method 1633	06/20/2024	PFOA	<1.93	1.93
MW-3	EPA Method 1633	06/20/2024	NMeFOSE	<15.4	15.4
MW-3	EPA Method 1633	06/20/2024	NEtFOSE	<15.4	15.4
MW-3	EPA Method 1633	06/20/2024	PFEESA	<2.75	2.75
MW-3	EPA Method 1633	06/20/2024	PFMPA	<3.08	3.08
MW-3	EPA Method 1633	06/20/2024	PFPeA	<3.08	3.08
MW-3	EPA Method 1633	06/20/2024	PFMBA	<3.08	3.08
MW-3	EPA Method 1633	06/20/2024	NFDHA	<3.08	3.08
MW-3	EPA Method 1633	06/20/2024	5:3 FTCA	<38.5	38.5
MW-3	EPA Method 1633	06/20/2024	7:3 FTCA	<38.5	38.5
MW-3	EPA Method 1633	06/20/2024	4:2 FTS	<5.78	5.78
MW-3	EPA Method 1633	06/20/2024	11Cl-PF3OUdS	<5.78	5.78
MW-3	EPA Method 1633	06/20/2024	6:2 FTS	<5.85	5.85
MW-3	EPA Method 1633	06/20/2024	8:2 FTS	<5.91	5.91
MW-3	EPA Method 1633	06/20/2024	9Cl-PF3ONS	<6.01	6.01
MW-3	EPA Method 1633	06/20/2024	ADONA	<6.09	6.09
MW-3	EPA Method 1633	06/20/2024	PFBA	<6.16	6.16
MW-3	EPA Method 1633	06/20/2024	HFPO-DA	<6.43	6.43
MW-3	EPA Method 1633	06/20/2024	3:3 FTCA	<7.71	7.71
MW-3	EPA Method 1633	09/11/2024	PFOSA	1.76	1.58
MW-3	EPA Method 1633	09/11/2024	PFBS	<1.40	1.40
MW-3	EPA Method 1633	09/11/2024	PFHxS	<1.44	1.44
MW-3	EPA Method 1633	09/11/2024	PFOS	<1.47	1.47
MW-3	EPA Method 1633	09/11/2024	PFPeS	<1.48	1.48
MW-3	EPA Method 1633	09/11/2024	PFHpS	<1.50	1.50
MW-3	EPA Method 1633	09/11/2024	PFNS	<1.52	1.52
MW-3	EPA Method 1633	09/11/2024	PFDS	<1.52	1.52
MW-3	EPA Method 1633	09/11/2024	PFDoS	<1.53	1.53
MW-3	EPA Method 1633	09/11/2024	PFHxA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	PFHpA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	PFNA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	PFDA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	NMeFOSAA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	NEtFOSAA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	PFUnA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	PFDoA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	NMeFOSA	<1.58	1.58

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-3	EPA Method 1633	09/11/2024	PFTrDA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	PFTeDA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	NEtFOSA	<1.58	1.58
MW-3	EPA Method 1633	09/11/2024	PFOA	<1.97	1.97
MW-3	EPA Method 1633	09/11/2024	NMeFOSE	<15.8	15.8
MW-3	EPA Method 1633	09/11/2024	NEtFOSE	<15.8	15.8
MW-3	EPA Method 1633	09/11/2024	PFEESA	<2.81	2.81
MW-3	EPA Method 1633	09/11/2024	PFMPA	<3.15	3.15
MW-3	EPA Method 1633	09/11/2024	PFPeA	<3.15	3.15
MW-3	EPA Method 1633	09/11/2024	PFMBA	<3.15	3.15
MW-3	EPA Method 1633	09/11/2024	NFDHA	<3.15	3.15
MW-3	EPA Method 1633	09/11/2024	5:3 FTCA	<39.4	39.4
MW-3	EPA Method 1633	09/11/2024	7:3 FTCA	<39.4	39.4
MW-3	EPA Method 1633	09/11/2024	4:2 FTS	<5.91	5.91
MW-3	EPA Method 1633	09/11/2024	11Cl-PF3OUdS	<5.91	5.91
MW-3	EPA Method 1633	09/11/2024	6:2 FTS	<5.98	5.98
MW-3	EPA Method 1633	09/11/2024	8:2 FTS	<6.05	6.05
MW-3	EPA Method 1633	09/11/2024	9Cl-PF3ONS	<6.15	6.15
MW-3	EPA Method 1633	09/11/2024	ADONA	<6.22	6.22
MW-3	EPA Method 1633	09/11/2024	PFBA	<6.30	6.30
MW-3	EPA Method 1633	09/11/2024	HFPO-DA	<6.58	6.58
MW-3	EPA Method 1633	09/11/2024	3:3 FTCA	<7.88	7.88
MW-3	EPA Method 1633	12/19/2024	PFBA	<6.50	6.50
MW-3	EPA Method 1633	12/19/2024	PFMPA	<3.25	3.25
MW-3	EPA Method 1633	12/19/2024	3:3 FTCA	<8.13	8.13
MW-3	EPA Method 1633	12/19/2024	PFPeA	<3.25	3.25
MW-3	EPA Method 1633	12/19/2024	PFMBA	<3.25	3.25
MW-3	EPA Method 1633	12/19/2024	PFBS	<1.44	1.44
MW-3	EPA Method 1633	12/19/2024	4:2 FTS	<6.10	6.10
MW-3	EPA Method 1633	12/19/2024	PFHxA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	PFEESA	<2.90	2.90
MW-3	EPA Method 1633	12/19/2024	PFPeS	<1.52	1.52
MW-3	EPA Method 1633	12/19/2024	HFPO-DA	<6.79	6.79
MW-3	EPA Method 1633	12/19/2024	NFDHA	<3.25	3.25
MW-3	EPA Method 1633	12/19/2024	5:3 FTCA	<40.6	40.6
MW-3	EPA Method 1633	12/19/2024	PFHpA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	ADONA	<6.42	6.42
MW-3	EPA Method 1633	12/19/2024	PFHxS	<1.48	1.48
MW-3	EPA Method 1633	12/19/2024	6:2 FTS	<6.17	6.17
MW-3	EPA Method 1633	12/19/2024	PFOA	<2.03	2.03
MW-3	EPA Method 1633	12/19/2024	PFHpS	<1.54	1.54
MW-3	EPA Method 1633	12/19/2024	7:3 FTCA	<40.6	40.6

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-3	EPA Method 1633	12/19/2024	PFNA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	PFOSA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	PFOS	<1.51	1.51
MW-3	EPA Method 1633	12/19/2024	9Cl-PF3ONS	<6.34	6.34
MW-3	EPA Method 1633	12/19/2024	PFDA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	8:2 FTS	<6.24	6.24
MW-3	EPA Method 1633	12/19/2024	PFNS	<1.56	1.56
MW-3	EPA Method 1633	12/19/2024	NMeFOSAA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	NEtFOSAA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	PFUnA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	PFDS	<1.56	1.56
MW-3	EPA Method 1633	12/19/2024	11Cl-PF3OUdS	<6.10	6.10
MW-3	EPA Method 1633	12/19/2024	PFDoA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	NMeFOSA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	PFTrDA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	PFDoS	<1.57	1.57
MW-3	EPA Method 1633	12/19/2024	PFTeDA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	NEtFOSA	<1.63	1.63
MW-3	EPA Method 1633	12/19/2024	NMeFOSE	<16.3	16.3
MW-3	EPA Method 1633	12/19/2024	NEtFOSE	<16.3	16.3
MW-3	EPA Method 1633	03/12/2025	PFBA	<6.13	6.13
MW-3	EPA Method 1633	03/12/2025	PFMPA	<3.07	3.07
MW-3	EPA Method 1633	03/12/2025	3:3 FTCA	<7.66	7.66
MW-3	EPA Method 1633	03/12/2025	PFPeA	<3.07	3.07
MW-3	EPA Method 1633	03/12/2025	PFMBA	<3.07	3.07
MW-3	EPA Method 1633	03/12/2025	PFBS	<1.36	1.36
MW-3	EPA Method 1633	03/12/2025	4:2 FTS	<5.75	5.75
MW-3	EPA Method 1633	03/12/2025	PFHxA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	PFEESA	<2.73	2.73
MW-3	EPA Method 1633	03/12/2025	PFPeS	<1.44	1.44
MW-3	EPA Method 1633	03/12/2025	HFPO-DA	<6.4	6.4
MW-3	EPA Method 1633	03/12/2025	NFDHA	<3.07	3.07
MW-3	EPA Method 1633	03/12/2025	5:3 FTCA	<38.3	38.3
MW-3	EPA Method 1633	03/12/2025	PFHpA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	ADONA	<6.05	6.05
MW-3	EPA Method 1633	03/12/2025	PFHxS	<1.4	1.4
MW-3	EPA Method 1633	03/12/2025	6:2 FTS	<5.81	5.81
MW-3	EPA Method 1633	03/12/2025	PFOA	<1.92	1.92
MW-3	EPA Method 1633	03/12/2025	PFHpS	<1.46	1.46
MW-3	EPA Method 1633	03/12/2025	7:3 FTCA	<38.3	38.3
MW-3	EPA Method 1633	03/12/2025	PFNA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	PFOSA	2.85	1.53

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-3	EPA Method 1633	03/12/2025	PFOS	<1.43	1.43
MW-3	EPA Method 1633	03/12/2025	9Cl-PF3ONS	<5.98	5.98
MW-3	EPA Method 1633	03/12/2025	PFDA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	8:2 FTS	<5.88	5.88
MW-3	EPA Method 1633	03/12/2025	PFNS	<1.48	1.48
MW-3	EPA Method 1633	03/12/2025	NMeFOSAA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	NEtFOSAA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	PFUnA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	PFDS	<1.48	1.48
MW-3	EPA Method 1633	03/12/2025	11Cl-PF3OUdS	<5.75	5.75
MW-3	EPA Method 1633	03/12/2025	PFDoA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	NMeFOSA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	PFTrDA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	PFDoS	<1.48	1.48
MW-3	EPA Method 1633	03/12/2025	PFTeDA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	NEtFOSA	<1.53	1.53
MW-3	EPA Method 1633	03/12/2025	NMeFOSE	<15.3	15.3
MW-3	EPA Method 1633	03/12/2025	NEtFOSE	<15.3	15.3
MW-4	EPA Method 1633	06/21/2024	PFBS	2.67	1.36
MW-4	EPA Method 1633	06/21/2024	PFHxS	<1.40	1.40
MW-4	EPA Method 1633	06/21/2024	PFOS	<1.42	1.42
MW-4	EPA Method 1633	06/21/2024	PFPeS	<1.43	1.43
MW-4	EPA Method 1633	06/21/2024	PFHpS	<1.45	1.45
MW-4	EPA Method 1633	06/21/2024	PFNS	<1.47	1.47
MW-4	EPA Method 1633	06/21/2024	PFDS	<1.47	1.47
MW-4	EPA Method 1633	06/21/2024	PFDoS	<1.48	1.48
MW-4	EPA Method 1633	06/21/2024	PFHxA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	PFHpA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	PFNA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	PFOSA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	PFDA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	NMeFOSAA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	NEtFOSAA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	PFUnA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	PFDoA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	NMeFOSA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	PFTrDA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	PFTeDA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	NEtFOSA	<1.53	1.53
MW-4	EPA Method 1633	06/21/2024	PFOA	<1.91	1.91
MW-4	EPA Method 1633	06/21/2024	NMeFOSE	<15.3	15.3
MW-4	EPA Method 1633	06/21/2024	NEtFOSE	<15.3	15.3

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-4	EPA Method 1633	06/21/2024	PFEESA	<2.72	2.72
MW-4	EPA Method 1633	06/21/2024	PFMPA	<3.06	3.06
MW-4	EPA Method 1633	06/21/2024	PFPeA	<3.06	3.06
MW-4	EPA Method 1633	06/21/2024	PFMBA	<3.06	3.06
MW-4	EPA Method 1633	06/21/2024	NFDHA	<3.06	3.06
MW-4	EPA Method 1633	06/21/2024	5:3 FTCA	<38.2	38.2
MW-4	EPA Method 1633	06/21/2024	7:3 FTCA	<38.2	38.2
MW-4	EPA Method 1633	06/21/2024	4:2 FTS	<5.74	5.74
MW-4	EPA Method 1633	06/21/2024	11Cl-PF3OUdS	<5.74	5.74
MW-4	EPA Method 1633	06/21/2024	6:2 FTS	<5.8	5.80
MW-4	EPA Method 1633	06/21/2024	8:2 FTS	<5.87	5.87
MW-4	EPA Method 1633	06/21/2024	9Cl-PF3ONS	<5.97	5.97
MW-4	EPA Method 1633	06/21/2024	ADONA	<6.04	6.04
MW-4	EPA Method 1633	06/21/2024	PFBA	<6.12	6.12
MW-4	EPA Method 1633	06/21/2024	HFPO-DA	<6.39	6.39
MW-4	EPA Method 1633	06/21/2024	3:3 FTCA	<7.65	7.65
MW-4	EPA Method 1633	09/11/2024	PFBS	2.36	1.38
MW-4	EPA Method 1633	09/11/2024	PFHxS	<1.42	1.42
MW-4	EPA Method 1633	09/11/2024	PFOS	<1.45	1.45
MW-4	EPA Method 1633	09/11/2024	PFPeS	<1.46	1.46
MW-4	EPA Method 1633	09/11/2024	PFHpS	<1.47	1.47
MW-4	EPA Method 1633	09/11/2024	PFNS	<1.49	1.49
MW-4	EPA Method 1633	09/11/2024	PFDS	<1.49	1.49
MW-4	EPA Method 1633	09/11/2024	PFDoS	<1.50	1.50
MW-4	EPA Method 1633	09/11/2024	PFHxA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	PFHpA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	PFNA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	PFOSA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	PFDA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	NMeFOSAA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	NEtFOSAA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	PFUnA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	PFDoA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	NMeFOSA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	PFTrDA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	PFTeDA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	NEtFOSA	<1.55	1.55
MW-4	EPA Method 1633	09/11/2024	PFOA	<1.94	1.94
MW-4	EPA Method 1633	09/11/2024	NMeFOSE	<15.5	15.5
MW-4	EPA Method 1633	09/11/2024	NEtFOSE	<15.5	15.5
MW-4	EPA Method 1633	09/11/2024	PFEESA	<2.76	2.76
MW-4	EPA Method 1633	09/11/2024	PFMPA	<3.10	3.10

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-4	EPA Method 1633	09/11/2024	PFPeA	<3.10	3.10
MW-4	EPA Method 1633	09/11/2024	PFMBA	<3.10	3.10
MW-4	EPA Method 1633	09/11/2024	NFDHA	<3.10	3.10
MW-4	EPA Method 1633	09/11/2024	5:3 FTCA	<38.8	38.8
MW-4	EPA Method 1633	09/11/2024	7:3 FTCA	<38.8	38.8
MW-4	EPA Method 1633	09/11/2024	4:2 FTS	<5.82	5.82
MW-4	EPA Method 1633	09/11/2024	11Cl-PF3OUdS	<5.82	5.82
MW-4	EPA Method 1633	09/11/2024	6:2 FTS	<5.89	5.89
MW-4	EPA Method 1633	09/11/2024	8:2 FTS	<5.96	5.96
MW-4	EPA Method 1633	09/11/2024	9Cl-PF3ONS	<6.05	6.05
MW-4	EPA Method 1633	09/11/2024	ADONA	<6.13	6.13
MW-4	EPA Method 1633	09/11/2024	PFBA	<6.21	6.21
MW-4	EPA Method 1633	09/11/2024	HFPO-DA	<6.48	6.48
MW-4	EPA Method 1633	09/11/2024	3:3 FTCA	<7.76	7.76
MW-4	EPA Method 1633	12/19/2024	PFBA	<6.38	6.38
MW-4	EPA Method 1633	12/19/2024	PFMPA	<3.19	3.19
MW-4	EPA Method 1633	12/19/2024	3:3 FTCA	<7.97	7.97
MW-4	EPA Method 1633	12/19/2024	PFPeA	<3.19	3.19
MW-4	EPA Method 1633	12/19/2024	PFMBA	<3.19	3.19
MW-4	EPA Method 1633	12/19/2024	PFBS	<1.42	1.42
MW-4	EPA Method 1633	12/19/2024	4:2 FTS	<5.98	5.98
MW-4	EPA Method 1633	12/19/2024	PFHxA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	PFEESA	<2.84	2.84
MW-4	EPA Method 1633	12/19/2024	PFPeS	<1.49	1.49
MW-4	EPA Method 1633	12/19/2024	HFPO-DA	<6.66	6.66
MW-4	EPA Method 1633	12/19/2024	NFDHA	<3.19	3.19
MW-4	EPA Method 1633	12/19/2024	5:3 FTCA	<39.9	39.9
MW-4	EPA Method 1633	12/19/2024	PFHpA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	ADONA	<6.30	6.30
MW-4	EPA Method 1633	12/19/2024	PFHxS	<1.45	1.45
MW-4	EPA Method 1633	12/19/2024	6:2 FTS	<6.05	6.05
MW-4	EPA Method 1633	12/19/2024	PFOA	<1.99	1.99
MW-4	EPA Method 1633	12/19/2024	PFHpS	<1.51	1.51
MW-4	EPA Method 1633	12/19/2024	7:3 FTCA	<39.9	39.9
MW-4	EPA Method 1633	12/19/2024	PFNA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	PFOSA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	PFOS	<1.48	1.48
MW-4	EPA Method 1633	12/19/2024	9Cl-PF3ONS	<6.22	6.22
MW-4	EPA Method 1633	12/19/2024	PFDA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	8:2 FTS	<6.12	6.12
MW-4	EPA Method 1633	12/19/2024	PFNS	<1.53	1.53
MW-4	EPA Method 1633	12/19/2024	NMeFOSAA	<1.59	1.59

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-4	EPA Method 1633	12/19/2024	NEtFOSAA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	PFUnA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	PFDS	<1.53	1.53
MW-4	EPA Method 1633	12/19/2024	11Cl-PF3OUdS	<5.98	5.98
MW-4	EPA Method 1633	12/19/2024	PFDoA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	NMeFOSA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	PFTrDA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	PFDoS	<1.54	1.54
MW-4	EPA Method 1633	12/19/2024	PFTeDA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	NEtFOSA	<1.59	1.59
MW-4	EPA Method 1633	12/19/2024	NMeFOSE	<15.9	15.9
MW-4	EPA Method 1633	12/19/2024	NEtFOSE	<15.9	15.9
MW-4	EPA Method 1633	03/12/2025	PFBA	<6.29	6.29
MW-4	EPA Method 1633	03/12/2025	PFMPA	<3.14	3.14
MW-4	EPA Method 1633	03/12/2025	3:3 FTCA	<7.86	7.86
MW-4	EPA Method 1633	03/12/2025	PFPeA	<3.14	3.14
MW-4	EPA Method 1633	03/12/2025	PFMBA	<3.14	3.14
MW-4	EPA Method 1633	03/12/2025	PFBS	2.65	1.39
MW-4	EPA Method 1633	03/12/2025	4:2 FTS	<5.89	5.89
MW-4	EPA Method 1633	03/12/2025	PFHxA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	PFEESA	<2.8	2.8
MW-4	EPA Method 1633	03/12/2025	PFPeS	<1.47	1.47
MW-4	EPA Method 1633	03/12/2025	HFPO-DA	<6.56	6.56
MW-4	EPA Method 1633	03/12/2025	NFDHA	<3.14	3.14
MW-4	EPA Method 1633	03/12/2025	5:3 FTCA	<39.3	39.3
MW-4	EPA Method 1633	03/12/2025	PFHpA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	ADONA	<6.21	6.21
MW-4	EPA Method 1633	03/12/2025	PFHxS	<1.43	1.43
MW-4	EPA Method 1633	03/12/2025	6:2 FTS	<5.96	5.96
MW-4	EPA Method 1633	03/12/2025	PFOA	<1.96	1.96
MW-4	EPA Method 1633	03/12/2025	PFHpS	<1.49	1.49
MW-4	EPA Method 1633	03/12/2025	7:3 FTCA	<39.3	39.3
MW-4	EPA Method 1633	03/12/2025	PFNA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	PFOSA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	PFOS	<1.46	1.46
MW-4	EPA Method 1633	03/12/2025	9Cl-PF3ONS	<6.13	6.13
MW-4	EPA Method 1633	03/12/2025	PFDA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	8:2 FTS	<6.03	6.03
MW-4	EPA Method 1633	03/12/2025	PFNS	<1.51	1.51
MW-4	EPA Method 1633	03/12/2025	NMeFOSAA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	NEtFOSAA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	PFUnA	<1.57	1.57

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-4	EPA Method 1633	03/12/2025	PFDS	<1.51	1.51
MW-4	EPA Method 1633	03/12/2025	11Cl-PF3OUdS	<5.89	5.89
MW-4	EPA Method 1633	03/12/2025	PFDoA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	NMeFOSA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	PFTrDA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	PFDoS	<1.52	1.52
MW-4	EPA Method 1633	03/12/2025	PFTeDA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	NEtFOSA	<1.57	1.57
MW-4	EPA Method 1633	03/12/2025	NMeFOSE	<15.7	15.7
MW-4	EPA Method 1633	03/12/2025	NEtFOSE	<15.7	15.7
MW-5	EPA Method 1633	06/20/2024	PFBS	<1.35	1.35
MW-5	EPA Method 1633	06/20/2024	PFHxS	<1.39	1.39
MW-5	EPA Method 1633	06/20/2024	PFOS	<1.42	1.42
MW-5	EPA Method 1633	06/20/2024	PFPeS	<1.43	1.43
MW-5	EPA Method 1633	06/20/2024	PFHpS	<1.45	1.45
MW-5	EPA Method 1633	06/20/2024	PFNS	<1.47	1.47
MW-5	EPA Method 1633	06/20/2024	PFDS	<1.47	1.47
MW-5	EPA Method 1633	06/20/2024	PFDoS	<1.48	1.48
MW-5	EPA Method 1633	06/20/2024	PFHxA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	PFHpA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	PFNA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	PFOSA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	PFDA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	NMeFOSAA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	NEtFOSAA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	PFUnA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	PFDoA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	NMeFOSA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	PFTrDA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	PFTeDA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	NEtFOSA	<1.52	1.52
MW-5	EPA Method 1633	06/20/2024	PFOA	<1.91	1.91
MW-5	EPA Method 1633	06/20/2024	NMeFOSE	<15.2	15.2
MW-5	EPA Method 1633	06/20/2024	NEtFOSE	<15.2	15.2
MW-5	EPA Method 1633	06/20/2024	PFEESA	<2.72	2.72
MW-5	EPA Method 1633	06/20/2024	PFMPA	<3.05	3.05
MW-5	EPA Method 1633	06/20/2024	PFPeA	<3.05	3.05
MW-5	EPA Method 1633	06/20/2024	PFMBA	<3.05	3.05
MW-5	EPA Method 1633	06/20/2024	NFDHA	<3.05	3.05
MW-5	EPA Method 1633	06/20/2024	5:3 FTCA	<38.1	38.1
MW-5	EPA Method 1633	06/20/2024	7:3 FTCA	<38.1	38.1
MW-5	EPA Method 1633	06/20/2024	4:2 FTS	<5.72	5.72

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-5	EPA Method 1633	06/20/2024	11Cl-PF3OUdS	<5.72	5.72
MW-5	EPA Method 1633	06/20/2024	6:2 FTS	<5.78	5.78
MW-5	EPA Method 1633	06/20/2024	8:2 FTS	<5.85	5.85
MW-5	EPA Method 1633	06/20/2024	9Cl-PF3ONS	<5.94	5.94
MW-5	EPA Method 1633	06/20/2024	ADONA	<6.02	6.02
MW-5	EPA Method 1633	06/20/2024	PFBA	<6.10	6.10
MW-5	EPA Method 1633	06/20/2024	HFPO-DA	<6.36	6.36
MW-5	EPA Method 1633	06/20/2024	3:3 FTCA	<7.62	7.62
MW-5	EPA Method 1633	09/11/2024	PFBS	<1.44	1.44
MW-5	EPA Method 1633	09/11/2024	PFHxS	<1.48	1.48
MW-5	EPA Method 1633	09/11/2024	PFOS	<1.51	1.51
MW-5	EPA Method 1633	09/11/2024	PFPeS	<1.52	1.52
MW-5	EPA Method 1633	09/11/2024	PFHpS	<1.54	1.54
MW-5	EPA Method 1633	09/11/2024	PFNS	<1.56	1.56
MW-5	EPA Method 1633	09/11/2024	PFDS	<1.56	1.56
MW-5	EPA Method 1633	09/11/2024	PFDoS	<1.57	1.57
MW-5	EPA Method 1633	09/11/2024	PFHxA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	PFHpA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	PFNA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	PFOSA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	PFDA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	NMeFOSAA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	NEtFOSAA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	PFUnA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	PFDoA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	NMeFOSA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	PFTrDA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	PFTeDA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	NEtFOSA	<1.62	1.62
MW-5	EPA Method 1633	09/11/2024	NMeFOSE	<16.2	16.2
MW-5	EPA Method 1633	09/11/2024	NEtFOSE	<16.2	16.2
MW-5	EPA Method 1633	09/11/2024	PFOA	<2.02	2.02
MW-5	EPA Method 1633	09/11/2024	PFEESA	<2.88	2.88
MW-5	EPA Method 1633	09/11/2024	PFMPA	<3.24	3.24
MW-5	EPA Method 1633	09/11/2024	PFPeA	<3.24	3.24
MW-5	EPA Method 1633	09/11/2024	PFMBA	<3.24	3.24
MW-5	EPA Method 1633	09/11/2024	NFDHA	<3.24	3.24
MW-5	EPA Method 1633	09/11/2024	5:3 FTCA	<40.4	40.4
MW-5	EPA Method 1633	09/11/2024	7:3 FTCA	<40.4	40.4
MW-5	EPA Method 1633	09/11/2024	4:2 FTS	<6.07	6.07
MW-5	EPA Method 1633	09/11/2024	11Cl-PF3OUdS	<6.07	6.07
MW-5	EPA Method 1633	09/11/2024	6:2 FTS	<6.14	6.14

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-5	EPA Method 1633	09/11/2024	8:2 FTS	<6.21	6.21
MW-5	EPA Method 1633	09/11/2024	9Cl-PF3ONS	<6.31	6.31
MW-5	EPA Method 1633	09/11/2024	ADONA	<6.39	6.39
MW-5	EPA Method 1633	09/11/2024	PFBA	<6.47	6.47
MW-5	EPA Method 1633	09/11/2024	HFPO-DA	<6.75	6.75
MW-5	EPA Method 1633	09/11/2024	3:3 FTCA	<8.09	8.09
MW-5	EPA Method 1633	12/19/2024	PFBA	<6.41	6.41
MW-5	EPA Method 1633	12/19/2024	PFMPA	<3.20	3.20
MW-5	EPA Method 1633	12/19/2024	3:3 FTCA	<8.01	8.01
MW-5	EPA Method 1633	12/19/2024	PFPeA	<3.20	3.20
MW-5	EPA Method 1633	12/19/2024	PFMBA	<3.20	3.20
MW-5	EPA Method 1633	12/19/2024	PFBS	<1.42	1.42
MW-5	EPA Method 1633	12/19/2024	4:2 FTS	<6.01	6.01
MW-5	EPA Method 1633	12/19/2024	PFHxA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	PFEESA	<2.85	2.85
MW-5	EPA Method 1633	12/19/2024	PFPeS	<1.50	1.50
MW-5	EPA Method 1633	12/19/2024	HFPO-DA	<6.69	6.69
MW-5	EPA Method 1633	12/19/2024	NFDHA	<3.20	3.20
MW-5	EPA Method 1633	12/19/2024	5:3 FTCA	<40.0	40.0
MW-5	EPA Method 1633	12/19/2024	PFHpA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	ADONA	<6.33	6.33
MW-5	EPA Method 1633	12/19/2024	PFHxS	<1.46	1.46
MW-5	EPA Method 1633	12/19/2024	6:2 FTS	<6.08	6.08
MW-5	EPA Method 1633	12/19/2024	PFOA	<2.00	2.00
MW-5	EPA Method 1633	12/19/2024	PFHpS	<1.52	1.52
MW-5	EPA Method 1633	12/19/2024	7:3 FTCA	<40.0	40.00
MW-5	EPA Method 1633	12/19/2024	PFNA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	PFOSA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	PFOS	<1.49	1.49
MW-5	EPA Method 1633	12/19/2024	9Cl-PF3ONS	<6.25	6.25
MW-5	EPA Method 1633	12/19/2024	PFDA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	8:2 FTS	<6.15	6.15
MW-5	EPA Method 1633	12/19/2024	PFNS	<1.54	1.54
MW-5	EPA Method 1633	12/19/2024	NMeFOSAA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	NEtFOSAA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	PFUnA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	PFDS	<1.54	1.54
MW-5	EPA Method 1633	12/19/2024	11Cl-PF3OUdS	<6.01	6.01
MW-5	EPA Method 1633	12/19/2024	PFDoA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	NMeFOSA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	PFTrDA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	PFDoS	<1.55	1.55

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-5	EPA Method 1633	12/19/2024	PFTeDA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	NEtFOSA	<1.60	1.60
MW-5	EPA Method 1633	12/19/2024	NMeFOSE	<16.0	16.0
MW-5	EPA Method 1633	12/19/2024	NEtFOSE	<16.0	16.0
MW-5	EPA Method 1633	03/12/2025	PFBA	<6.18	6.18
MW-5	EPA Method 1633	03/12/2025	PFMPA	<3.09	3.09
MW-5	EPA Method 1633	03/12/2025	3:3 FTCA	<7.72	7.72
MW-5	EPA Method 1633	03/12/2025	PFPeA	<3.09	3.09
MW-5	EPA Method 1633	03/12/2025	PFMBA	<3.09	3.09
MW-5	EPA Method 1633	03/12/2025	PFBS	<1.37	1.37
MW-5	EPA Method 1633	03/12/2025	4:2 FTS	<5.79	5.79
MW-5	EPA Method 1633	03/12/2025	PFHxA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	PFEESA	<2.75	2.75
MW-5	EPA Method 1633	03/12/2025	PFPeS	<1.45	1.45
MW-5	EPA Method 1633	03/12/2025	HFPO-DA	<6.45	6.45
MW-5	EPA Method 1633	03/12/2025	NFDHA	<3.09	3.09
MW-5	EPA Method 1633	03/12/2025	5:3 FTCA	<38.6	38.6
MW-5	EPA Method 1633	03/12/2025	PFHpA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	ADONA	<6.10	6.10
MW-5	EPA Method 1633	03/12/2025	PFHxS	<1.41	1.41
MW-5	EPA Method 1633	03/12/2025	6:2 FTS	<5.86	5.86
MW-5	EPA Method 1633	03/12/2025	PFOA	<1.93	1.93
MW-5	EPA Method 1633	03/12/2025	PFHpS	<1.47	1.47
MW-5	EPA Method 1633	03/12/2025	7:3 FTCA	<38.6	38.6
MW-5	EPA Method 1633	03/12/2025	PFNA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	PFOSA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	PFOS	<1.44	1.44
MW-5	EPA Method 1633	03/12/2025	9Cl-PF3ONS	<6.02	6.02
MW-5	EPA Method 1633	03/12/2025	PFDA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	8:2 FTS	<5.93	5.93
MW-5	EPA Method 1633	03/12/2025	PFNS	<1.49	1.49
MW-5	EPA Method 1633	03/12/2025	NMeFOSAA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	NEtFOSAA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	PFUnA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	PFDS	<1.49	1.49
MW-5	EPA Method 1633	03/12/2025	11Cl-PF3OUdS	<5.79	5.79
MW-5	EPA Method 1633	03/12/2025	PFDoA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	NMeFOSA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	PFTrDA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	PFDoS	<1.50	1.50
MW-5	EPA Method 1633	03/12/2025	PFTeDA	<1.54	1.54
MW-5	EPA Method 1633	03/12/2025	NEtFOSA	<1.54	1.54

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-5	EPA Method 1633	03/12/2025	NMeFOSE	<15.4	15.4
MW-5	EPA Method 1633	03/12/2025	NEtFOSE	<15.4	15.4
MW-6	EPA Method 1633	06/21/2024	PFBS	<1.36	1.36
MW-6	EPA Method 1633	06/21/2024	PFHxS	<1.40	1.40
MW-6	EPA Method 1633	06/21/2024	PFOS	<1.43	1.43
MW-6	EPA Method 1633	06/21/2024	PFPeS	<1.44	1.44
MW-6	EPA Method 1633	06/21/2024	PFHpS	<1.46	1.46
MW-6	EPA Method 1633	06/21/2024	PFNS	<1.48	1.48
MW-6	EPA Method 1633	06/21/2024	PFDS	<1.48	1.48
MW-6	EPA Method 1633	06/21/2024	PFDoS	<1.49	1.49
MW-6	EPA Method 1633	06/21/2024	PFHxA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	PFHpA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	PFNA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	PFOSA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	PFDA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	NMeFOSAA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	NEtFOSAA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	PFUnA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	PFDoA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	NMeFOSA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	PFTrDA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	PFTeDA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	NEtFOSA	<1.53	1.53
MW-6	EPA Method 1633	06/21/2024	PFOA	<1.92	1.92
MW-6	EPA Method 1633	06/21/2024	NMeFOSE	<15.3	15.3
MW-6	EPA Method 1633	06/21/2024	NEtFOSE	<15.3	15.3
MW-6	EPA Method 1633	06/21/2024	PFEESA	<2.73	2.73
MW-6	EPA Method 1633	06/21/2024	PFMPA	<3.07	3.07
MW-6	EPA Method 1633	06/21/2024	PFPeA	<3.07	3.07
MW-6	EPA Method 1633	06/21/2024	PFMBA	<3.07	3.07
MW-6	EPA Method 1633	06/21/2024	NFDHA	<3.07	3.07
MW-6	EPA Method 1633	06/21/2024	5:3 FTCA	<38.4	38.4
MW-6	EPA Method 1633	06/21/2024	7:3 FTCA	<38.4	38.4
MW-6	EPA Method 1633	06/21/2024	4:2 FTS	<5.76	5.76
MW-6	EPA Method 1633	06/21/2024	11Cl-PF3OUdS	<5.76	5.76
MW-6	EPA Method 1633	06/21/2024	6:2 FTS	<5.82	5.82
MW-6	EPA Method 1633	06/21/2024	8:2 FTS	<5.89	5.89
MW-6	EPA Method 1633	06/21/2024	9Cl-PF3ONS	<5.99	5.99
MW-6	EPA Method 1633	06/21/2024	ADONA	<6.06	6.06
MW-6	EPA Method 1633	06/21/2024	PFBA	<6.14	6.14
MW-6	EPA Method 1633	06/21/2024	HFPO-DA	<6.41	6.41
MW-6	EPA Method 1633	06/21/2024	3:3 FTCA	<7.67	7.67

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-6	EPA Method 1633	09/11/2024	PFBS	<1.43	1.43
MW-6	EPA Method 1633	09/11/2024	PFHxS	<1.47	1.47
MW-6	EPA Method 1633	09/11/2024	PFOS	<1.50	1.50
MW-6	EPA Method 1633	09/11/2024	PFPeS	<1.51	1.51
MW-6	EPA Method 1633	09/11/2024	PFHpS	<1.53	1.53
MW-6	EPA Method 1633	09/11/2024	PFNS	<1.55	1.55
MW-6	EPA Method 1633	09/11/2024	PFDS	<1.55	1.55
MW-6	EPA Method 1633	09/11/2024	PFDoS	<1.56	1.56
MW-6	EPA Method 1633	09/11/2024	PFHxA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	PFHpA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	PFNA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	PFOSA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	PFDA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	NMeFOSAA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	NEtFOSAA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	PFUnA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	PFDoA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	NMeFOSA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	PFTrDA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	PFTeDA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	NEtFOSA	<1.61	1.61
MW-6	EPA Method 1633	09/11/2024	NMeFOSE	<16.1	16.1
MW-6	EPA Method 1633	09/11/2024	NEtFOSE	<16.1	16.1
MW-6	EPA Method 1633	09/11/2024	PFOA	<2.01	2.01
MW-6	EPA Method 1633	09/11/2024	PFEESA	<2.87	2.87
MW-6	EPA Method 1633	09/11/2024	PFMPA	<3.22	3.22
MW-6	EPA Method 1633	09/11/2024	PFPeA	<3.22	3.22
MW-6	EPA Method 1633	09/11/2024	PFMBA	<3.22	3.22
MW-6	EPA Method 1633	09/11/2024	NFDHA	<3.22	3.22
MW-6	EPA Method 1633	09/11/2024	5:3 FTCA	<40.3	40.3
MW-6	EPA Method 1633	09/11/2024	7:3 FTCA	<40.3	40.3
MW-6	EPA Method 1633	09/11/2024	4:2 FTS	<6.04	6.04
MW-6	EPA Method 1633	09/11/2024	11Cl-PF3OUdS	<6.04	6.04
MW-6	EPA Method 1633	09/11/2024	6:2 FTS	<6.11	6.11
MW-6	EPA Method 1633	09/11/2024	8:2 FTS	<6.18	6.18
MW-6	EPA Method 1633	09/11/2024	9Cl-PF3ONS	<6.28	6.28
MW-6	EPA Method 1633	09/11/2024	ADONA	<6.36	6.36
MW-6	EPA Method 1633	09/11/2024	PFBA	<6.44	6.44
MW-6	EPA Method 1633	09/11/2024	HFPO-DA	<6.73	6.73
MW-6	EPA Method 1633	09/11/2024	3:3 FTCA	<8.06	8.06
MW-6	EPA Method 1633	12/19/2024	PFBA	<6.54	6.54
MW-6	EPA Method 1633	12/19/2024	PFMPA	<3.27	3.27

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-6	EPA Method 1633	12/19/2024	3:3 FTCA	<8.17	8.17
MW-6	EPA Method 1633	12/19/2024	PFPeA	<3.27	3.27
MW-6	EPA Method 1633	12/19/2024	PFMBA	<3.27	3.27
MW-6	EPA Method 1633	12/19/2024	PFBS	<1.45	1.45
MW-6	EPA Method 1633	12/19/2024	4:2 FTS	<6.13	6.13
MW-6	EPA Method 1633	12/19/2024	PFHxA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	PFEESA	<2.91	2.91
MW-6	EPA Method 1633	12/19/2024	PFPeS	<1.53	1.53
MW-6	EPA Method 1633	12/19/2024	HFPO-DA	<6.82	6.82
MW-6	EPA Method 1633	12/19/2024	NFDHA	<3.27	3.27
MW-6	EPA Method 1633	12/19/2024	5:3 FTCA	<40.9	40.9
MW-6	EPA Method 1633	12/19/2024	PFHpA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	ADONA	<6.46	6.46
MW-6	EPA Method 1633	12/19/2024	PFHxS	<1.49	1.49
MW-6	EPA Method 1633	12/19/2024	6:2 FTS	<6.20	6.20
MW-6	EPA Method 1633	12/19/2024	PFOA	<2.04	2.04
MW-6	EPA Method 1633	12/19/2024	PFHpS	<1.55	1.55
MW-6	EPA Method 1633	12/19/2024	7:3 FTCA	<40.9	40.9
MW-6	EPA Method 1633	12/19/2024	PFNA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	PFOSA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	PFOS	<1.52	1.52
MW-6	EPA Method 1633	12/19/2024	9Cl-PF3ONS	<6.37	6.37
MW-6	EPA Method 1633	12/19/2024	PFDA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	8:2 FTS	<6.27	6.27
MW-6	EPA Method 1633	12/19/2024	PFNS	<1.57	1.57
MW-6	EPA Method 1633	12/19/2024	NMeFOSAA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	NEtFOSAA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	PFUnA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	PFDS	<1.57	1.57
MW-6	EPA Method 1633	12/19/2024	11Cl-PF3OUdS	<6.13	6.13
MW-6	EPA Method 1633	12/19/2024	PFDoA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	NMeFOSA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	PFTrDA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	PFDoS	<1.58	1.58
MW-6	EPA Method 1633	12/19/2024	PFTeDA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	NEtFOSA	<1.63	1.63
MW-6	EPA Method 1633	12/19/2024	NMeFOSE	<16.3	16.3
MW-6	EPA Method 1633	12/19/2024	NEtFOSE	<16.3	16.3
MW-6	EPA Method 1633	03/12/2025	PFBA	<6.00	6.00
MW-6	EPA Method 1633	03/12/2025	PFMPA	<3.00	3.00
MW-6	EPA Method 1633	03/12/2025	3:3 FTCA	<7.51	7.51
MW-6	EPA Method 1633	03/12/2025	PFPeA	<3.00	3.00

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-6	EPA Method 1633	03/12/2025	PFMBA	<3.00	3.00
MW-6	EPA Method 1633	03/12/2025	PFBS	<1.33	1.33
MW-6	EPA Method 1633	03/12/2025	4:2 FTS	<5.63	5.63
MW-6	EPA Method 1633	03/12/2025	PFHxA	<1.5	1.5
MW-6	EPA Method 1633	03/12/2025	PFEESA	<2.67	2.67
MW-6	EPA Method 1633	03/12/2025	PFPeS	<1.41	1.41
MW-6	EPA Method 1633	03/12/2025	HFPO-DA	<6.27	6.27
MW-6	EPA Method 1633	03/12/2025	NFDHA	<3.00	3.00
MW-6	EPA Method 1633	03/12/2025	5:3 FTCA	<37.5	37.5
MW-6	EPA Method 1633	03/12/2025	PFHpA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	ADONA	<5.93	5.93
MW-6	EPA Method 1633	03/12/2025	PFHxS	<1.37	1.37
MW-6	EPA Method 1633	03/12/2025	6:2 FTS	<5.69	5.69
MW-6	EPA Method 1633	03/12/2025	PFOA	<1.88	1.88
MW-6	EPA Method 1633	03/12/2025	PFHpS	<1.43	1.43
MW-6	EPA Method 1633	03/12/2025	7:3 FTCA	<37.5	37.5
MW-6	EPA Method 1633	03/12/2025	PFNA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	PFOSA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	PFOS	<1.40	1.40
MW-6	EPA Method 1633	03/12/2025	9Cl-PF3ONS	<5.85	5.85
MW-6	EPA Method 1633	03/12/2025	PFDA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	8:2 FTS	<5.76	5.76
MW-6	EPA Method 1633	03/12/2025	PFNS	<1.44	1.44
MW-6	EPA Method 1633	03/12/2025	NMeFOSAA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	NEtFOSAA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	PFUnA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	PFDS	<1.50	1.44
MW-6	EPA Method 1633	03/12/2025	11Cl-PF3OUdS	<5.63	5.63
MW-6	EPA Method 1633	03/12/2025	PFDoA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	NMeFOSA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	PFTrDA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	PFDoS	<1.45	1.45
MW-6	EPA Method 1633	03/12/2025	PFTeDA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	NEtFOSA	<1.50	1.50
MW-6	EPA Method 1633	03/12/2025	NMeFOSE	<15.0	15.0
MW-6	EPA Method 1633	03/12/2025	NEtFOSE	<15.0	15.0
MW-7	EPA Method 1633	06/20/2024	PFBS	<1.41	1.41
MW-7	EPA Method 1633	06/20/2024	PFHxS	<1.45	1.45
MW-7	EPA Method 1633	06/20/2024	PFOS	<1.48	1.48
MW-7	EPA Method 1633	06/20/2024	PFPeS	<1.49	1.49
MW-7	EPA Method 1633	06/20/2024	PFHpS	<1.51	1.51
MW-7	EPA Method 1633	06/20/2024	PFNS	<1.52	1.52

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-7	EPA Method 1633	06/20/2024	PFDS	<1.52	1.52
MW-7	EPA Method 1633	06/20/2024	PFDoS	<1.53	1.53
MW-7	EPA Method 1633	06/20/2024	PFHxA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	PFHpA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	PFNA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	PFOSA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	PFDA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	NMeFOSAA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	NEtFOSAA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	PFUnA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	PFDoA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	NMeFOSA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	PFTrDA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	PFTeDA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	NEtFOSA	<1.58	1.58
MW-7	EPA Method 1633	06/20/2024	PFOA	<1.98	1.98
MW-7	EPA Method 1633	06/20/2024	NMeFOSE	<15.8	15.8
MW-7	EPA Method 1633	06/20/2024	NEtFOSE	<15.8	15.8
MW-7	EPA Method 1633	06/20/2024	PFEESA	<2.82	2.82
MW-7	EPA Method 1633	06/20/2024	PFMPA	<3.17	3.17
MW-7	EPA Method 1633	06/20/2024	PFPeA	<3.17	3.17
MW-7	EPA Method 1633	06/20/2024	PFMBA	<3.17	3.17
MW-7	EPA Method 1633	06/20/2024	NFDHA	<3.17	3.17
MW-7	EPA Method 1633	06/20/2024	5:3 FTCA	<39.6	39.6
MW-7	EPA Method 1633	06/20/2024	7:3 FTCA	<39.6	39.6
MW-7	EPA Method 1633	06/20/2024	4:2 FTS	<5.94	5.94
MW-7	EPA Method 1633	06/20/2024	11Cl-PF3OUdS	<5.94	5.94
MW-7	EPA Method 1633	06/20/2024	6:2 FTS	<6.01	6.01
MW-7	EPA Method 1633	06/20/2024	8:2 FTS	<6.08	6.08
MW-7	EPA Method 1633	06/20/2024	9Cl-PF3ONS	<6.18	6.18
MW-7	EPA Method 1633	06/20/2024	ADONA	<6.26	6.26
MW-7	EPA Method 1633	06/20/2024	PFBA	<6.34	6.34
MW-7	EPA Method 1633	06/20/2024	HFPO-DA	<6.61	6.61
MW-7	EPA Method 1633	06/20/2024	3:3 FTCA	<7.92	7.92
MW-7	EPA Method 1633	09/11/2024	PFBS	<1.46	1.46
MW-7	EPA Method 1633	09/11/2024	PFHxS	<1.50	1.50
MW-7	EPA Method 1633	09/11/2024	PFOS	<1.53	1.53
MW-7	EPA Method 1633	09/11/2024	PFPeS	<1.54	1.54
MW-7	EPA Method 1633	09/11/2024	PFHpS	<1.56	1.56
MW-7	EPA Method 1633	09/11/2024	PFNS	<1.58	1.58
MW-7	EPA Method 1633	09/11/2024	PFDS	<1.58	1.58
MW-7	EPA Method 1633	09/11/2024	PFDoS	<1.59	1.59

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-7	EPA Method 1633	09/11/2024	PFHxA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	PFHpA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	PFNA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	PFOSA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	PFDA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	NMeFOSAA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	NEtFOSAA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	PFUnA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	PFDoA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	NMeFOSA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	PFTrDA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	PFTeDA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	NEtFOSA	<1.64	1.64
MW-7	EPA Method 1633	09/11/2024	NMeFOSE	<16.4	16.4
MW-7	EPA Method 1633	09/11/2024	NEtFOSE	<16.4	16.4
MW-7	EPA Method 1633	09/11/2024	PFOA	<2.06	2.06
MW-7	EPA Method 1633	09/11/2024	PFEESA	<2.93	2.93
MW-7	EPA Method 1633	09/11/2024	PFMPA	<3.29	3.29
MW-7	EPA Method 1633	09/11/2024	PFPeA	<3.29	3.29
MW-7	EPA Method 1633	09/11/2024	PFMBA	<3.29	3.29
MW-7	EPA Method 1633	09/11/2024	NFDHA	<3.29	3.29
MW-7	EPA Method 1633	09/11/2024	5:3 FTCA	<41.1	41.1
MW-7	EPA Method 1633	09/11/2024	7:3 FTCA	<41.1	41.1
MW-7	EPA Method 1633	09/11/2024	4:2 FTS	<6.17	6.17
MW-7	EPA Method 1633	09/11/2024	11Cl-PF3OUdS	<6.17	6.17
MW-7	EPA Method 1633	09/11/2024	6:2 FTS	<6.24	6.24
MW-7	EPA Method 1633	09/11/2024	8:2 FTS	<6.31	6.31
MW-7	EPA Method 1633	09/11/2024	9Cl-PF3ONS	<6.42	6.42
MW-7	EPA Method 1633	09/11/2024	ADONA	<6.50	6.50
MW-7	EPA Method 1633	09/11/2024	PFBA	<6.58	6.58
MW-7	EPA Method 1633	09/11/2024	HFPO-DA	<6.87	6.87
MW-7	EPA Method 1633	09/11/2024	3:3 FTCA	<8.22	8.22
MW-7	EPA Method 1633	12/19/2024	PFBA	<6.45	6.45
MW-7	EPA Method 1633	12/19/2024	PFMPA	<3.23	3.23
MW-7	EPA Method 1633	12/19/2024	3:3 FTCA	<8.06	8.06
MW-7	EPA Method 1633	12/19/2024	PFPeA	<3.23	3.23
MW-7	EPA Method 1633	12/19/2024	PFMBA	<3.23	3.23
MW-7	EPA Method 1633	12/19/2024	PFBS	<1.43	1.43
MW-7	EPA Method 1633	12/19/2024	4:2 FTS	<6.05	6.05
MW-7	EPA Method 1633	12/19/2024	PFHxA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	PFEESA	<2.87	2.87
MW-7	EPA Method 1633	12/19/2024	PFPeS	<1.51	1.51

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-7	EPA Method 1633	12/19/2024	HFPO-DA	<6.73	6.73
MW-7	EPA Method 1633	12/19/2024	NFDHA	<3.23	3.23
MW-7	EPA Method 1633	12/19/2024	5:3 FTCA	<40.3	40.3
MW-7	EPA Method 1633	12/19/2024	PFHpA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	ADONA	<6.37	6.37
MW-7	EPA Method 1633	12/19/2024	PFHxS	<1.47	1.47
MW-7	EPA Method 1633	12/19/2024	6:2 FTS	<6.12	6.12
MW-7	EPA Method 1633	12/19/2024	PFOA	<2.02	2.02
MW-7	EPA Method 1633	12/19/2024	PFHpS	<1.53	1.53
MW-7	EPA Method 1633	12/19/2024	7:3 FTCA	<40.3	40.3
MW-7	EPA Method 1633	12/19/2024	PFNA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	PFOSA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	PFOS	<1.50	1.50
MW-7	EPA Method 1633	12/19/2024	9Cl-PF3ONS	<6.29	6.29
MW-7	EPA Method 1633	12/19/2024	PFDA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	8:2 FTS	<6.19	6.19
MW-7	EPA Method 1633	12/19/2024	PFNS	<1.55	1.55
MW-7	EPA Method 1633	12/19/2024	NMeFOSAA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	NEtFOSAA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	PFUnA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	PFDS	<1.55	1.55
MW-7	EPA Method 1633	12/19/2024	11Cl-PF3OUdS	<6.05	6.05
MW-7	EPA Method 1633	12/19/2024	PFDoA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	NMeFOSA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	PFTrDA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	PFDoS	<1.56	1.56
MW-7	EPA Method 1633	12/19/2024	PFTeDA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	NEtFOSA	<1.61	1.61
MW-7	EPA Method 1633	12/19/2024	NMeFOSE	<16.1	16.1
MW-7	EPA Method 1633	12/19/2024	NEtFOSE	<16.1	16.1
MW-7	EPA Method 1633	03/12/2025	PFBA	<6.21	6.21
MW-7	EPA Method 1633	03/12/2025	PFMPA	<3.10	3.10
MW-7	EPA Method 1633	03/12/2025	3:3 FTCA	<7.76	7.76
MW-7	EPA Method 1633	03/12/2025	PFPeA	<3.10	3.10
MW-7	EPA Method 1633	03/12/2025	PFMBA	<3.10	3.10
MW-7	EPA Method 1633	03/12/2025	PFBS	<1.38	1.38
MW-7	EPA Method 1633	03/12/2025	4:2 FTS	<5.82	5.82
MW-7	EPA Method 1633	03/12/2025	PFHxA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	PFEESA	<2.76	2.76
MW-7	EPA Method 1633	03/12/2025	PFPeS	<1.46	1.46
MW-7	EPA Method 1633	03/12/2025	HFPO-DA	<6.48	6.48
MW-7	EPA Method 1633	03/12/2025	NFDHA	<3.10	3.10

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-7	EPA Method 1633	03/12/2025	5:3 FTCA	<38.8	38.8
MW-7	EPA Method 1633	03/12/2025	PFHpA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	ADONA	<6.13	6.13
MW-7	EPA Method 1633	03/12/2025	PFHxS	<1.42	1.42
MW-7	EPA Method 1633	03/12/2025	6:2 FTS	<5.89	5.89
MW-7	EPA Method 1633	03/12/2025	PFOA	<1.94	1.94
MW-7	EPA Method 1633	03/12/2025	PFHpS	<1.47	1.47
MW-7	EPA Method 1633	03/12/2025	7:3 FTCA	<38.8	38.8
MW-7	EPA Method 1633	03/12/2025	PFNA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	PFOSA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	PFOS	<1.45	1.45
MW-7	EPA Method 1633	03/12/2025	9Cl-PF3ONS	<6.05	6.05
MW-7	EPA Method 1633	03/12/2025	PFDA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	8:2 FTS	<5.96	5.96
MW-7	EPA Method 1633	03/12/2025	PFNS	<1.49	1.49
MW-7	EPA Method 1633	03/12/2025	NMeFOSAA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	NEtFOSAA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	PFUnA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	PFDS	<1.49	1.49
MW-7	EPA Method 1633	03/12/2025	11Cl-PF3OUdS	<5.82	5.82
MW-7	EPA Method 1633	03/12/2025	PFDoA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	NMeFOSA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	PFTrDA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	PFDoS	<1.50	1.50
MW-7	EPA Method 1633	03/12/2025	PFTeDA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	NEtFOSA	<1.55	1.55
MW-7	EPA Method 1633	03/12/2025	NMeFOSE	<15.5	15.5
MW-7	EPA Method 1633	03/12/2025	NEtFOSE	<15.5	15.5
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFBS	<1.35	1.35
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFHxS	<1.38	1.38
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFOS	<1.41	1.41
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFPeS	<1.42	1.42
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFHpS	<1.44	1.44
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFNS	<1.46	1.46
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFDS	<1.46	1.46
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFDoS	<1.47	1.47
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFHxA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFHpA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFNA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFOSA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFDA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	NMeFOSAA	<1.52	1.52

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	NEtFOSAA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFUnA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFDoA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	NMeFOSA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFTrDA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFTeDA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	NEtFOSA	<1.52	1.52
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFOA	<1.90	1.90
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	NMeFOSE	<15.2	15.2
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	NEtFOSE	<15.2	15.2
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFEESA	<2.70	2.70
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFMPA	<3.04	3.04
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFPeA	<3.04	3.04
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFMBA	<3.04	3.04
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	NFDHA	<3.04	3.04
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	5:3 FTCA	<37.9	37.9
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	7:3 FTCA	<37.9	37.9
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	4:2 FTS	<5.69	5.69
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	11Cl-PF3OUdS	<5.69	5.69
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	6:2 FTS	<5.76	5.76
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	8:2 FTS	<5.82	5.82
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	9Cl-PF3ONS	<5.92	5.92
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	ADONA	<5.99	5.99
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	PFBA	<6.07	6.07
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	HFPO-DA	<6.34	6.34
MW-5 Dup (MW-8)	EPA Method 1633	06/20/2024	3:3 FTCA	<7.59	7.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFPeS	2.22	1.49
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFHpA	3.93	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFOA	**5.81**	1.99
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFHxS	7.18	1.45
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFBA	10.30	6.36
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFBS	11.60	1.41
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFHxA	19.10	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFPeA	24.30	3.18
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFOS	<1.48	1.48
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFHpS	<1.51	1.51
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFNS	<1.53	1.53
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFDS	<1.53	1.53
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFDoS	<1.54	1.54
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFNA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFOSA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFDA	<1.59	1.59

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	NMeFOSAA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	NEtFOSAA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFUnA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFDoA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	NMeFOSA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFTrDA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFTeDA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	NEtFOSA	<1.59	1.59
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	NMeFOSE	<15.9	15.9
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	NEtFOSE	<15.9	15.9
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFEESA	<2.83	2.83
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFMPA	<3.18	3.18
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	PFMBA	<3.18	3.18
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	NFDHA	<3.18	3.18
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	5:3 FTCA	<39.8	39.8
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	7:3 FTCA	<39.8	39.8
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	4:2 FTS	<5.96	5.96
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	11Cl-PF3OUdS	<5.96	5.96
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	6:2 FTS	<6.03	6.03
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	8:2 FTS	<6.10	6.10
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	9Cl-PF3ONS	<6.20	6.20
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	ADONA	<6.28	6.28
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	HFPO-DA	<6.64	6.64
MW-1 Dup (MW-8)	EPA Method 1633	09/11/2024	3:3 FTCA	<7.95	7.95
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFBA	10.30	6.48
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFMPA	<3.24	3.24
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	3:3 FTCA	<8.10	8.10
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFPeA	20.90	3.24
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFMBA	<3.24	3.24
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFBS	11.20	1.44
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	4:2 FTS	<6.08	6.08
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFHxA	15.80	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFEESA	<2.89	2.89
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFPeS	1.98	1.52
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	HFPO-DA	<6.76	6.76
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	NFDHA	<3.24	3.24
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	5:3 FTCA	<40.5	40.5
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFHpA	4.05	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	ADONA	<6.40	6.40
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFHxS	6.14	1.48
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	6:2 FTS	<6.15	6.15
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFOA	**5.89**	2.03

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFHpS	<1.54	1.54
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	7:3 FTCA	<40.5	40.5
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFNA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFOSA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFOS	<1.51	1.51
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	9Cl-PF3ONS	<6.32	6.32
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFDA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	8:2 FTS	<6.22	6.22
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFNS	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	NMeFOSAA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	NEtFOSAA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFUnA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFDS	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	11Cl-PF3OUdS	<6.08	6.08
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFDoA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	NMeFOSA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFTrDA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFDoS	<1.57	1.57
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	PFTeDA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	NEtFOSA	<1.62	1.62
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	NMeFOSE	<16.2	16.2
MW-1 Dup (MW-9)	EPA Method 1633	12/19/2024	NEtFOSE	<16.2	16.2
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFBA	11.10	6.24
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFMPA	<3.12	3.12
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	3:3 FTCA	<7.80	7.80
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFPeA	25.10	3.12
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFMBA	<3.12	3.12
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFBS	14.10	1.38
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	4:2 FTS	<5.85	5.85
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFHxA	20.20	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFEESA	<2.78	2.78
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFPeS	2.44	1.46
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	HFPO-DA	<6.51	6.51
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	NFDHA	<3.12	3.12
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	5:3 FTCA	<39.0	39.0
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFHpA	4.22	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	ADONA	<6.40	6.16
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFHxS	7.17	1.42
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	6:2 FTS	<5.92	5.92
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFOA	**6.34**	1.95
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFHpS	<1.48	1.48
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	7:3 FTCA	<39.0	39.0

Table 4. PRWRF Groundwater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFNA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFOSA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFOS	1.48	1.45
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	9Cl-PF3ONS	<6.08	6.08
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFDA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	8:2 FTS	<5.99	5.99
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFNS	<1.50	1.50
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	NMeFOSAA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	NEtFOSAA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFUnA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFDS	<1.50	1.50
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	11Cl-PF3OUdS	<5.85	5.85
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFDoA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	NMeFOSA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFTrDA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFDoS	<1.51	1.51
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	PFTeDA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	NEtFOSA	<1.56	1.56
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	NMeFOSE	<15.6	15.6
MW-1 Dup (MW-9)	EPA Method 1633	03/12/2025	NEtFOSE	<15.6	15.6

Notes:

Qual. = qualifier (listed if provided in lab reports)

RL = reporting limit

= exceedance in the Hazard Index (HI)

Bold indicates that the value exceeds U.S. Environmental Protetion Agency (EPA) maximum contaminant levels (MCLs).

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	NEtFOSAA	0.41	U	2.10
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	4:2 FTS	1.7	U	2.10
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	6:2 FTS	1.7	U	2.10
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	8:2 FTS	1.7	U	3.10
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	NMeFOSAA	0.41	U	2.10
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFBS	1.7	U	2.10
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFBA	1.7	U	2.10
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFDS	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFDA	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFDoA	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFHpS	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFHpA	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFHxS	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFHxA	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFNS	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFNA	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFOSA	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFOS	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFOA	0.41	U	0.62
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFPeS	0.41	U	3.10
AOI01-01-SB-13-15	EPA 537 Modified	04/25/2022	PFPeA	0.41	U	0.62
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	4:2 FTS	1.6	U	2.00
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	6:2 FTS	1.6	U	2.00
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	8:2 FTS	1.6	U	3.00
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	NEtFOSAA	0.4	U	2.00
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	NMeFOSAA	0.4	U	2.00
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFBS	1.6	U	2.00
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFBA	1.6	U	2.00
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFDS	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFDA	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFDoA	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFHpS	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFHpA	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFHxS	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFHxA	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFNS	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFNA	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFOSA	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFOS	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFOA	0.4	U	0.60
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFPeS	0.4	U	3.00
AOI01-01-SB-181-182	EPA 537 Modified	04/26/2022	PFPeA	0.4	U	0.60

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	4:2 FTS	1.7	U	2.20
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	6:2 FTS	1.7	U	2.20
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	8:2 FTS	1.7	U	3.30
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	NEtFOSAA	0.43	U	2.20
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	NMeFOSAA	0.43	U	2.20
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFBS	1.7	U	2.20
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFBA	1.7	U	2.20
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFDS	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFDA	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFDoA	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFHpS	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFHpA	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFHxS	0.32	J	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFHxA	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFNS	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFNA	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFOSA	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFOS	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFOA	0.43	U	0.65
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFPeS	0.43	U	3.20
AOI01-02-SB-113-115	EPA 537 Modified	04/28/2022	PFPeA	0.43	U	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	4:2 FTS	1.7	U	2.20
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	6:2 FTS	1.7	U	2.20
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	8:2 FTS	1.7	U	3.30
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	NEtFOSAA	0.43	U	2.20
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	NMeFOSAA	0.43	U	2.20
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFBS	1.7	U	2.20
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFBA	1.7	U	2.20
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFDS	0.43	U	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFDA	0.43	U	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFDoA	0.43	U	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFHpS	0.48	J	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFHpA	0.43	U	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFHxS	**3.0**		0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFHxA	0.43	U	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFNS	0.43	U	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFNA	0.43	U	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFOSA	0.43	U	3.30
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFOS	**1.2**		0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFOA	0.59	J	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFPeS	0.43	U	0.65
AOI01-02-SB-13-15	EPA 537 Modified	04/27/2022	PFPeA	0.43	U	0.65

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	4:2 FTS	1.6	U	2.00
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	6:2 FTS	1.6	U	2.00
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	8:2 FTS	1.6	U	3.00
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	NEtFOSAA	0.4	U	2.00
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	NMeFOSAA	0.4	U	2.00
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFBS	1.4	U	2.00
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFBA	1.4	U	2.00
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFDS	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFDA	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFDoA	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFHpS	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFHpA	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFHxS	0.27	J	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFHxA	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFNS	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFNA	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFOSA	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFOS	**5.9**		0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFOA	0.4	U	0.59
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFPeS	0.4	U	3.00
AOI01-03-SB-13-15	EPA 537 Modified	05/04/2022	PFPeA	0.4	U	0.59
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	4:2 FTS	1.6	U	2.00
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	6:2 FTS	1.6	U	2.00
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	8:2 FTS	1.6	U	3.10
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	NEtFOSAA	0.41	U	2.00
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	NMeFOSAA	0.41	U	2.00
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFBS	1.6	U	2.00
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFBA	1.6	U	2.00
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFDS	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFDA	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFDoA	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFHpS	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFHpA	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFHxS	0.23	J	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFHxA	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFNS	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFNA	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFOSA	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFOS	**0.66**		0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFOA	0.41	U	0.61
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFPeS	0.41	U	3.10
AOI01-03-SB-6-8	EPA 537 Modified	05/04/2022	PFPeA	0.41	U	0.61

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	4:2 FTS	1.7	U	2.10
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	6:2 FTS	1.7	U	2.10
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	8:2 FTS	1.7	U	3.10
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	NEtFOSAA	0.28	J	2.10
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	NMeFOSAA	0.41	UJ	2.10
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFBS	1.7	U	2.10
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFBA	1.7	U	2.10
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFDS	0.3	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFDA	0.3	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFDoA	0.32	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFHpS	0.34	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFHpA	0.44	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFHxS	1.1	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFHxA	0.7		0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFNS	0.28	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFNA	0.32	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFOSA	0.34	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFOS	2.2	J+	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFOA	0.48	J	0.62
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFPeS	0.38	J	3.10
AOI01-04-SB-109-110	EPA 537 Modified	05/04/2022	PFPeA	0.37	J	0.62
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	4:2 FTS	1.8	U	2.30
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	6:2 FTS	1.8	U	2.30
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	8:2 FTS	1.8	U	3.40
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	NEtFOSAA	0.45	U	2.30
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	NMeFOSAA	0.45	U	2.30
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFBS	1.8	U	2.30
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFBA	1.8	U	2.30
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFDS	0.29	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFDA	0.3	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFDoA	0.34	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFHpS	0.33	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFHpA	0.4	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFHxS	1.2		0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFHxA	0.63	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFNS	0.28	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFNA	0.37	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFOSA	0.35	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFOS	**3.2**		0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFOA	0.52	J	0.68
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFPeS	0.34	J	3.40
AOI01-04-SB-13-15	EPA 537 Modified	05/03/2022	PFPeA	0.33	J	0.68

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	4:2 FTS	1.8	U	2.20
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	6:2 FTS	1.8	U	2.20
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	8:2 FTS	1.8	U	3.40
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	NEtFOSAA	0.45	U	2.20
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	NMeFOSAA	0.45	U	2.20
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFBS	1.8	U	2.20
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFBA	1.8	U	2.20
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFDS	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFDA	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFDoA	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFHpS	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFHpA	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFHxS	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFHxA	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFNS	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFNA	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFOSA	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFOS	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFOA	0.45	U	0.67
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFPeS	0.45	U	3.40
AOI01-05-SB-13-15	EPA 537 Modified	05/04/2022	PFPeA	0.45	U	0.67
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	4:2 FTS	1.7	U	2.20
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	6:2 FTS	1.7	U	2.20
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	8:2 FTS	1.7	U	3.30
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	NEtFOSAA	0.43	U	2.20
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	NMeFOSAA	0.43	U	2.20
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFBS	1.7	U	2.20
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFBA	1.7	U	2.20
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFDS	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFDA	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFDoA	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFHpS	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFHpA	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFHxS	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFHxA	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFNS	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFNA	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFOSA	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFOS	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFOA	0.43	U	0.65
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFPeS	0.43	U	3.20
AOI01-05-SB-6-8	EPA 537 Modified	05/04/2022	PFPeA	0.43	U	0.65

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	4:2 FTS	1.8	U	2.20
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	6:2 FTS	1.8	U	2.20
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	8:2 FTS	1.8	U	3.30
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	NEtFOSAA	0.44	U	2.20
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	NMeFOSAA	0.44	U	2.20
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFBS	1.8	U	2.20
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFBA	1.8	U	2.20
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFDS	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFDA	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFDoA	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFHpS	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFHpA	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFHxS	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFHxA	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFNS	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFNA	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFOSA	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFOS	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFOA	0.44	U	0.66
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFPeS	0.44	U	3.30
AOI01-06B-SB-0-2	EPA 537 Modified	05/04/2022	PFPeA	0.44	U	0.66
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	4:2 FTS	1.5	U	1.90
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	6:2 FTS	1.5	U	1.90
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	8:2 FTS	1.5	U	2.90
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	NEtFOSAA	0.39	U	1.90
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	NMeFOSAA	0.39	U	1.90
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFBS	1.5	U	1.90
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFBA	1.5	U	1.90
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFDS	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFDA	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFDoA	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFHpS	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFHpA	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFHxS	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFHxA	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFNS	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFNA	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFOSA	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFOS	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFOA	0.39	U	0.58
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFPeS	0.39	U	2.90
AOI01-06B-SB-13-15	EPA 537 Modified	05/04/2022	PFPeA	0.39	U	0.58

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	4:2 FTS	1.5	U	1.90
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	6:2 FTS	1.5	U	1.90
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	8:2 FTS	1.5	U	2.80
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	NEtFOSAA	0.38	U	1.90
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	NMeFOSAA	0.38	U	1.90
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFBS	1.5	U	1.90
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFBA	1.5	U	1.90
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFDS	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFDA	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFDoA	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFHpS	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFHpA	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFHxS	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFHxA	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFNS	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFNA	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFOSA	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFOS	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFOA	0.38	U	0.57
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFPeS	0.38	U	2.80
AOI01-06B-SB-6-8	EPA 537 Modified	05/04/2022	PFPeA	0.38	U	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	4:2 FTS	1.5	U	1.90
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	6:2 FTS	1.5	U	1.90
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	8:2 FTS	1.5	U	2.80
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	NEtFOSAA	0.55	J+	1.90
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	NMeFOSAA	0.38	U	1.90
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFBS	1.5	U	1.90
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFBA	1.5	U	1.90
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFDS	0.37	J	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFDA	1.4		0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFDoA	0.54	J	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFHpS	0.38	U	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFHpA	0.38	U	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFHxS	0.38	U	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFHxA	0.38	U	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFNS	0.38	U	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFNA	0.4	J	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFOSA	0.38	U	0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFOS	**7.5**		0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFOA	0.68		0.57
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFPeS	0.38	U	2.80
AOI01-09-SB-0-2	EPA 537 Modified	05/09/2022	PFPeA	0.38	U	0.57

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	4:2 FTS	2.1	U	2.60
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	6:2 FTS	2.1	U	2.60
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	8:2 FTS	2.1	U	3.90
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	NEtFOSAA	0.52	UJ	2.60
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	NMeFOSAA	0.52	UJ	2.60
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFBS	2.1	U	2.60
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFBA	2.1	U	2.60
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFDS	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFDA	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFDoA	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFHpS	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFHpA	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFHxS	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFHxA	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFNS	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFNA	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFOSA	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFOS	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFOA	0.52	U	0.78
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFPeS	0.52	U	3.90
AOI01-09-SB-111-112	EPA 537 Modified	05/06/2022	PFPeA	0.52	U	0.78
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	4:2 FTS	1.6	U	2.10
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	6:2 FTS	1.6	U	2.10
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	8:2 FTS	1.6	U	3.10
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	NEtFOSAA	0.41	U	2.10
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	NMeFOSAA	0.41	U	2.10
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFBS	1.6	U	2.10
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFBA	1.6	U	2.10
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFDS	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFDA	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFDoA	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFHpS	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFHpA	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFHxS	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFHxA	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFNS	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFNA	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFOSA	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFOS	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFOA	0.41	U	0.62
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFPeS	0.41	U	3.10
AOI01-09-SB-13-15	EPA 537 Modified	05/05/2022	PFPeA	0.41	U	0.62

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	4:2 FTS	1.5	U	1.80
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	6:2 FTS	1.5	U	1.80
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	8:2 FTS	1.5	U	2.80
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	NEtFOSAA	0.37	U	1.80
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	NMeFOSAA	0.37	U	1.80
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFBS	1.5	U	1.80
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFBA	1.5	U	1.80
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFDS	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFDA	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFDoA	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFHpS	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFHpA	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFHxS	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFHxA	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFNS	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFNA	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFOSA	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFOS	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFOA	0.37	U	0.55
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFPeS	0.37	U	2.80
SFAASF-03-PA-13-15	EPA 537 Modified	05/01/2022	PFPeA	0.37	U	0.55
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	4:2 FTS	1.6	U	2.00
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	6:2 FTS	1.6	U	2.00
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	8:2 FTS	1.6	U	3.00
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	NEtFOSAA	0.4	U	2.00
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	NMeFOSAA	0.4	U	2.00
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFBS	1.6	U	2.00
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFBA	1.6	U	2.00
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFDS	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFDA	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFDoA	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFHpS	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFHpA	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFHxS	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFHxA	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFNS	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFNA	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFOSA	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFOS	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFOA	0.4	U	0.60
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFPeS	0.4	U	3.00
SFAASF-03-PA-183-184	EPA 537 Modified	05/02/2022	PFPeA	0.4	U	0.60

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	4:2 FTS	1.7	U	2.20
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	6:2 FTS	1.7	U	2.20
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	8:2 FTS	1.7	U	3.30
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	NEtFOSAA	0.43	U	2.20
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	NMeFOSAA	0.43	U	2.20
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFBS	1.7	U	2.20
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFBA	1.7	U	2.20
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFDS	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFDA	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFDoA	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFHpS	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFHpA	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFHxS	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFHxA	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFNS	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFNA	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFOSA	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFOS	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFOA	0.43	U	0.65
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFPeS	0.43	U	3.20
SFAASF-03-SB-02	EPA 537 Modified	05/07/2022	PFPeA	0.43	U	0.65
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	4:2 FTS	1.6	U	2.00
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	6:2 FTS	1.6	U	2.00
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	8:2 FTS	1.6	U	2.90
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	NEtFOSAA	0.39	U	2.00
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	NMeFOSAA	0.39	U	2.00
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFBS	1.6	U	2.00
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFBA	1.6	U	2.00
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFDS	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFDA	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFDoA	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFHpS	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFHpA	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFHxS	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFHxA	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFNS	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFNA	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFOSA	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFOS	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFOA	0.39	U	0.59
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFPeS	0.39	U	2.90
SFAASF-04-SB-13-15	EPA 537 Modified	04/28/2022	PFPeA	0.39	U	0.59

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	4:2 FTS	1.6	U	2.00
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	6:2 FTS	1.6	U	2.00
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	8:2 FTS	1.6	U	3.00
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	NEtFOSAA	0.4	U	2.00
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	NMeFOSAA	0.4	U	2.00
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFBS	1.6	U	2.00
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFBA	1.6	U	2.00
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFDS	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFDA	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFDoA	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFHpS	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFHpA	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFHxS	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFHxA	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFNS	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFNA	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFOSA	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFOS	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFOA	0.4	U	0.60
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFPeS	0.4	U	3.00
SFAASF-04-SB-180-181	EPA 537 Modified	04/30/2022	PFPeA	0.4	U	0.60
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	4:2 FTS	1.5	U	1.80
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	6:2 FTS	1.5	U	1.80
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	8:2 FTS	1.5	U	2.80
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	NEtFOSAA	0.37	U	1.80
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	NMeFOSAA	0.37	U	1.80
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFBS	1.5	U	1.80
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFBA	1.5	U	1.80
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFDS	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFDA	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFDoA	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFHpS	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFHpA	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFHxS	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFHxA	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFNS	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFNA	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFOSA	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFOS	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFOA	0.37	U	0.55
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFPeS	0.37	U	2.80
SFAASF-05-SB-13-15	EPA 537 Modified	05/04/2022	PFPeA	0.37	U	0.55

Table 5. ARNG AASF SI Soil Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	Qual.	LOQ
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	4:2 FTS	1.7	U	2.10
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	6:2 FTS	1.7	U	2.10
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	8:2 FTS	1.7	U	3.10
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	NEtFOSAA	0.41	UJ	2.10
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	NMeFOSAA	0.41	UJ	2.10
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFBS	1.7	U	2.10
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFBA	1.7	U	2.10
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFDS	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFDA	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFDoA	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFHpS	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFHpA	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFHxS	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFHxA	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFNS	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFNA	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFOSA	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFOS	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFOA	0.41	U	0.62
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFPeS	0.41	U	3.10
SFAASF-05-SB-6-8	EPA 537 Modified	05/04/2022	PFPeA	0.41	U	0.62

Notes:

LOQ = limit of quantitation

Qual. = qualifier (listed if provided in lab reports)

Bold indicates that the value exceeds New Mexico Environment Department (NMED) soil screening levels (SSLs) (NMED SSL of Risk-based SSL, dilution attenuation factor [DAF] 20 [NMED, 2022]).

The PFAS analyte HFPO-DA (commonly referred to as GenX) was not included as an analyte in the Army National Guard (ARNG) Aviation Support Facility (AASF) Site Inspection (SI).

When laboratory reports listed the result, LOQ, detection limit (DL), and qualifiers, results qualified as "U" were treated as non-detects. The associated numeric result values represent laboratory reporting limits rather than measured concentrations. These values are not included in the screening level assessment.

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-1	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.787	0.787
SB-1	2	EPA Method 1633	07/03/2024	3:3 FTCA	<0.996	0.996
SB-1	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.747	0.747
SB-1	2	EPA Method 1633	07/03/2024	5:3 FTCA	<4.98	4.98
SB-1	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.756	0.756
SB-1	2	EPA Method 1633	07/03/2024	7:3 FTCA	<4.98	4.98
SB-1	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.765	0.765
SB-1	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.777	0.777
SB-1	2	EPA Method 1633	07/03/2024	ADONA	<0.787	0.787
SB-1	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.832	0.832
SB-1	2	EPA Method 1633	07/03/2024	NEtFOSA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	NEtFOSAA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	NEtFOSE	<1.99	1.99
SB-1	2	EPA Method 1633	07/03/2024	NFDHA	<0.398	0.398
SB-1	2	EPA Method 1633	07/03/2024	NMeFOSA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	NMeFOSAA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	NMeFOSE	<1.99	1.99
SB-1	2	EPA Method 1633	07/03/2024	PFBA	<0.798	0.798
SB-1	2	EPA Method 1633	07/03/2024	PFBS	<0.176	0.176
SB-1	2	EPA Method 1633	07/03/2024	PFDA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	PFDoA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	PFDoS	<0.193	0.193
SB-1	2	EPA Method 1633	07/03/2024	PFDS	<0.192	0.192
SB-1	2	EPA Method 1633	07/03/2024	PFEESA	<0.355	0.355
SB-1	2	EPA Method 1633	07/03/2024	PFHpA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	PFHpS	<0.189	0.189
SB-1	2	EPA Method 1633	07/03/2024	PFHxA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	PFHxS	<0.182	0.182
SB-1	2	EPA Method 1633	07/03/2024	PFMBA	<0.398	0.398
SB-1	2	EPA Method 1633	07/03/2024	PFMPA	<0.398	0.398
SB-1	2	EPA Method 1633	07/03/2024	PFNA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	PFNS	<0.191	0.191
SB-1	2	EPA Method 1633	07/03/2024	PFOA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	PFOS	<0.185	0.185
SB-1	2	EPA Method 1633	07/03/2024	PFOSA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	PFPeA	<0.397	0.397
SB-1	2	EPA Method 1633	07/03/2024	PFPeS	<0.187	0.187
SB-1	2	EPA Method 1633	07/03/2024	PFTeDA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	PFTrDA	<0.199	0.199
SB-1	2	EPA Method 1633	07/03/2024	PFUnA	<0.199	0.199
SB-10	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.787	0.787
SB-10	2	EPA Method 1633	07/03/2024	3:3 FTCA	<0.996	0.996

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-10	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.747	0.747
SB-10	2	EPA Method 1633	07/03/2024	5:3 FTCA	<4.980	4.980
SB-10	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.756	0.756
SB-10	2	EPA Method 1633	07/03/2024	7:3 FTCA	<4.980	4.980
SB-10	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.765	0.765
SB-10	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.777	0.777
SB-10	2	EPA Method 1633	07/03/2024	ADONA	<0.787	0.787
SB-10	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.832	0.832
SB-10	2	EPA Method 1633	07/03/2024	NEtFOSA	<0.200	0.199
SB-10	2	EPA Method 1633	07/03/2024	NEtFOSAA	0.938	0.199
SB-10	2	EPA Method 1633	07/03/2024	NEtFOSE	<2.000	1.990
SB-10	2	EPA Method 1633	07/03/2024	NFDHA	<0.399	0.399
SB-10	2	EPA Method 1633	07/03/2024	NMeFOSA	<0.200	0.199
SB-10	2	EPA Method 1633	07/03/2024	NMeFOSAA	0.415	0.199
SB-10	2	EPA Method 1633	07/03/2024	NMeFOSE	<2.000	1.990
SB-10	2	EPA Method 1633	07/03/2024	PFBA	0.970	0.798
SB-10	2	EPA Method 1633	07/03/2024	PFBS	1.69	0.176
SB-10	2	EPA Method 1633	07/03/2024	PFDA	0.834	0.199
SB-10	2	EPA Method 1633	07/03/2024	PFDoA	<0.200	0.199
SB-10	2	EPA Method 1633	07/03/2024	PFDoS	<0.193	0.193
SB-10	2	EPA Method 1633	07/03/2024	PFDS	0.546	0.192
SB-10	2	EPA Method 1633	07/03/2024	PFEESA	<0.355	0.355
SB-10	2	EPA Method 1633	07/03/2024	PFHpA	2.42	0.199
SB-10	2	EPA Method 1633	07/03/2024	PFHpS	0.193	0.189
SB-10	2	EPA Method 1633	07/03/2024	PFHxA	2.40	0.199
SB-10	2	EPA Method 1633	07/03/2024	PFHxS	**1.69**	0.182
SB-10	2	EPA Method 1633	07/03/2024	PFMBA	<0.399	0.399
SB-10	2	EPA Method 1633	07/03/2024	PFMPA	<0.399	0.399
SB-10	2	EPA Method 1633	07/03/2024	PFNA	0.880	0.199
SB-10	2	EPA Method 1633	07/03/2024	PFNS	<0.192	0.191
SB-10	2	EPA Method 1633	07/03/2024	PFOA	15.4	0.199
SB-10	2	EPA Method 1633	07/03/2024	PFOS	**7.87**	0.185
SB-10	2	EPA Method 1633	07/03/2024	PFOSA	0.548	0.199
SB-10	2	EPA Method 1633	07/03/2024	PFPeA	1.72	0.398
SB-10	2	EPA Method 1633	07/03/2024	PFPeS	<0.187	0.187
SB-10	2	EPA Method 1633	07/03/2024	PFTeDA	<0.199	0.199
SB-10	2	EPA Method 1633	07/03/2024	PFTrDA	<0.199	0.199
SB-10	2	EPA Method 1633	07/03/2024	PFUnA	<0.199	0.199
SB-11	0–0.5	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.790	0.790
SB-11	0–0.5	EPA Method 1633	07/03/2024	3:3 FTCA	<1.00	1.00
SB-11	0–0.5	EPA Method 1633	07/03/2024	4:2 FTS	<0.750	0.750
SB-11	0–0.5	EPA Method 1633	07/03/2024	5:3 FTCA	<5.00	5.00

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-11	0–0.5	EPA Method 1633	07/03/2024	6:2 FTS	2.88	0.759
SB-11	0–0.5	EPA Method 1633	07/03/2024	7:3 FTCA	<5.00	5.00
SB-11	0–0.5	EPA Method 1633	07/03/2024	8:2 FTS	3.74	0.768
SB-11	0–0.5	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.780	0.780
SB-11	0–0.5	EPA Method 1633	07/03/2024	ADONA	<0.790	0.790
SB-11	0–0.5	EPA Method 1633	07/03/2024	HFPO-DA	<0.835	0.835
SB-11	0–0.5	EPA Method 1633	07/03/2024	NEtFOSA	<0.200	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	NEtFOSAA	9.39	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	NEtFOSE	2.12	2.00
SB-11	0–0.5	EPA Method 1633	07/03/2024	NFDHA	<0.400	0.400
SB-11	0–0.5	EPA Method 1633	07/03/2024	NMeFOSA	<0.200	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	NMeFOSAA	24.0	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	NMeFOSE	3.61	2.00
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFBA	5.76	0.801
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFBS	18.6	0.177
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFDA	26.6	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFDoA	8.57	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFDoS	<0.194	0.194
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFDS	4.01	0.193
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFEESA	<0.356	0.356
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFHpA	7.21	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFHpS	0.355	0.190
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFHxA	22.7	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFHxS	**3.39**	0.183
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFMBA	<0.400	0.400
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFMPA	<0.400	0.400
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFNA	**15.4**	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFNS	<0.192	0.192
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFOA	**30.4**	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFOS	**26.6**	0.186
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFOSA	2.59	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFPeA	15.8	0.399
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFPeS	0.195	0.188
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFTeDA	2.08	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFTrDA	1.21	0.200
SB-11	0–0.5	EPA Method 1633	07/03/2024	PFUnA	5.83	0.200
SB-12	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.787	0.787
SB-12	2	EPA Method 1633	07/03/2024	3:3 FTCA	<0.996	0.996
SB-12	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.747	0.747
SB-12	2	EPA Method 1633	07/03/2024	5:3 FTCA	<4.980	4.98
SB-12	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.756	0.756
SB-12	2	EPA Method 1633	07/03/2024	7:3 FTCA	<4.980	4.98

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-12	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.765	0.765
SB-12	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.777	0.777
SB-12	2	EPA Method 1633	07/03/2024	ADONA	<0.787	0.787
SB-12	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.832	0.832
SB-12	2	EPA Method 1633	07/03/2024	NEtFOSA	<0.199	0.199
SB-12	2	EPA Method 1633	07/03/2024	NEtFOSAA	0.235	0.199
SB-12	2	EPA Method 1633	07/03/2024	NEtFOSE	<1.99	1.99
SB-12	2	EPA Method 1633	07/03/2024	NFDHA	<0.398	0.398
SB-12	2	EPA Method 1633	07/03/2024	NMeFOSA	<0.199	0.199
SB-12	2	EPA Method 1633	07/03/2024	NMeFOSAA	<0.199	0.199
SB-12	2	EPA Method 1633	07/03/2024	NMeFOSE	<1.99	1.99
SB-12	2	EPA Method 1633	07/03/2024	PFBA	<0.798	0.798
SB-12	2	EPA Method 1633	07/03/2024	PFBS	1.06	0.176
SB-12	2	EPA Method 1633	07/03/2024	PFDA	0.252	0.199
SB-12	2	EPA Method 1633	07/03/2024	PFDoA	<0.199	0.199
SB-12	2	EPA Method 1633	07/03/2024	PFDoS	<0.193	0.193
SB-12	2	EPA Method 1633	07/03/2024	PFDS	<0.192	0.192
SB-12	2	EPA Method 1633	07/03/2024	PFEESA	<0.355	0.355
SB-12	2	EPA Method 1633	07/03/2024	PFHpA	3.30	0.199
SB-12	2	EPA Method 1633	07/03/2024	PFHpS	<0.189	0.189
SB-12	2	EPA Method 1633	07/03/2024	PFHxA	4.64	0.199
SB-12	2	EPA Method 1633	07/03/2024	PFHxS	0.254	0.182
SB-12	2	EPA Method 1633	07/03/2024	PFMBA	<0.398	0.398
SB-12	2	EPA Method 1633	07/03/2024	PFMPA	<0.398	0.398
SB-12	2	EPA Method 1633	07/03/2024	PFNA	<0.199	0.199
SB-12	2	EPA Method 1633	07/03/2024	PFNS	<0.191	0.191
SB-12	2	EPA Method 1633	07/03/2024	PFOA	0.895	0.199
SB-12	2	EPA Method 1633	07/03/2024	PFOS	**0.807**	0.185
SB-12	2	EPA Method 1633	07/03/2024	PFOSA	<0.199	0.199
SB-12	2	EPA Method 1633	07/03/2024	PFPeA	2.46	0.397
SB-12	2	EPA Method 1633	07/03/2024	PFPeS	0.417	0.187
SB-12	2	EPA Method 1633	07/03/2024	PFTeDA	<0.199	0.199
SB-12	2	EPA Method 1633	07/03/2024	PFTrDA	<0.199	0.199
SB-12	2	EPA Method 1633	07/03/2024	PFUnA	<0.199	0.199
SB-13	5	EPA Method 1633	03/18/2025	11Cl-PF3OUdS	<0.788	0.788
SB-13	5	EPA Method 1633	03/18/2025	3:3 FTCA	<0.998	0.998
SB-13	5	EPA Method 1633	03/18/2025	4:2 FTS	<0.748	0.748
SB-13	5	EPA Method 1633	03/18/2025	5:3 FTCA	<4.99	4.990
SB-13	5	EPA Method 1633	03/18/2025	6:2 FTS	<0.757	0.757
SB-13	5	EPA Method 1633	03/18/2025	7:3 FTCA	<4.99	4.990
SB-13	5	EPA Method 1633	03/18/2025	8:2 FTS	<0.766	0.766
SB-13	5	EPA Method 1633	03/18/2025	9Cl-PF3ONS	<0.778	0.778

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-13	5	EPA Method 1633	03/18/2025	ADONA	<0.788	0.788
SB-13	5	EPA Method 1633	03/18/2025	HFPO-DA	<0.833	0.833
SB-13	5	EPA Method 1633	03/18/2025	NEtFOSA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	NEtFOSAA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	NEtFOSE	<2.00	2.000
SB-13	5	EPA Method 1633	03/18/2025	NFDHA	<0.399	0.399
SB-13	5	EPA Method 1633	03/18/2025	NMeFOSA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	NMeFOSAA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	NMeFOSE	<2.00	2.000
SB-13	5	EPA Method 1633	03/18/2025	PFBA	<0.799	0.799
SB-13	5	EPA Method 1633	03/18/2025	PFBS	<0.177	0.177
SB-13	5	EPA Method 1633	03/18/2025	PFDA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	PFDoA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	PFDoS	<0.194	0.194
SB-13	5	EPA Method 1633	03/18/2025	PFDS	<0.193	0.193
SB-13	5	EPA Method 1633	03/18/2025	PFEESA	<0.355	0.355
SB-13	5	EPA Method 1633	03/18/2025	PFHpA	0.368	0.200
SB-13	5	EPA Method 1633	03/18/2025	PFHpS	<0.190	0.190
SB-13	5	EPA Method 1633	03/18/2025	PFHxA	0.599	0.200
SB-13	5	EPA Method 1633	03/18/2025	PFHxS	<0.183	0.183
SB-13	5	EPA Method 1633	03/18/2025	PFMBA	<0.399	0.399
SB-13	5	EPA Method 1633	03/18/2025	PFMPA	<0.399	0.399
SB-13	5	EPA Method 1633	03/18/2025	PFNA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	PFNS	<0.192	0.192
SB-13	5	EPA Method 1633	03/18/2025	PFOA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	PFOS	**0.420**	0.186
SB-13	5	EPA Method 1633	03/18/2025	PFOSA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	PFPeA	<0.398	0.398
SB-13	5	EPA Method 1633	03/18/2025	PFPeS	<0.188	0.188
SB-13	5	EPA Method 1633	03/18/2025	PFTeDA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	PFTrDA	<0.200	0.200
SB-13	5	EPA Method 1633	03/18/2025	PFUnA	<0.200	0.200
SB-13	11	EPA Method 1633	03/18/2025	11Cl-PF3OUdS	<0.788	0.788
SB-13	11	EPA Method 1633	03/18/2025	3:3 FTCA	<0.997	0.997
SB-13	11	EPA Method 1633	03/18/2025	4:2 FTS	<0.748	0.748
SB-13	11	EPA Method 1633	03/18/2025	5:3 FTCA	<4.99	4.990
SB-13	11	EPA Method 1633	03/18/2025	6:2 FTS	<0.757	0.757
SB-13	11	EPA Method 1633	03/18/2025	7:3 FTCA	<4.99	4.990
SB-13	11	EPA Method 1633	03/18/2025	8:2 FTS	<0.766	0.766
SB-13	11	EPA Method 1633	03/18/2025	9Cl-PF3ONS	<0.778	0.778
SB-13	11	EPA Method 1633	03/18/2025	ADONA	<0.788	0.788
SB-13	11	EPA Method 1633	03/18/2025	HFPO-DA	<0.833	0.833

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-13	11	EPA Method 1633	03/18/2025	NEtFOSA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	NEtFOSAA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	NEtFOSE	<1.99	1.990
SB-13	11	EPA Method 1633	03/18/2025	NFDHA	<0.399	0.399
SB-13	11	EPA Method 1633	03/18/2025	NMeFOSA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	NMeFOSAA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	NMeFOSE	<1.99	1.990
SB-13	11	EPA Method 1633	03/18/2025	PFBA	<0.799	0.799
SB-13	11	EPA Method 1633	03/18/2025	PFBS	<0.177	0.177
SB-13	11	EPA Method 1633	03/18/2025	PFDA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	PFDoA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	PFDoS	<0.193	0.193
SB-13	11	EPA Method 1633	03/18/2025	PFDS	<0.192	0.192
SB-13	11	EPA Method 1633	03/18/2025	PFEESA	<0.355	0.355
SB-13	11	EPA Method 1633	03/18/2025	PFHpA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	PFHpS	<0.190	0.190
SB-13	11	EPA Method 1633	03/18/2025	PFHxA	0.501	0.199
SB-13	11	EPA Method 1633	03/18/2025	PFHxS	<0.183	0.183
SB-13	11	EPA Method 1633	03/18/2025	PFMBA	<0.399	0.399
SB-13	11	EPA Method 1633	03/18/2025	PFMPA	<0.399	0.399
SB-13	11	EPA Method 1633	03/18/2025	PFNA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	PFNS	<0.192	0.192
SB-13	11	EPA Method 1633	03/18/2025	PFOA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	PFOS	<0.186	0.186
SB-13	11	EPA Method 1633	03/18/2025	PFOSA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	PFPeA	0.446	0.398
SB-13	11	EPA Method 1633	03/18/2025	PFPeS	<0.188	0.188
SB-13	11	EPA Method 1633	03/18/2025	PFTeDA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	PFTrDA	<0.199	0.199
SB-13	11	EPA Method 1633	03/18/2025	PFUnA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	11Cl-PF3OUdS	<0.786	0.786
SB-14	5	EPA Method 1633	03/18/2025	3:3 FTCA	<0.995	0.995
SB-14	5	EPA Method 1633	03/18/2025	4:2 FTS	<0.746	0.746
SB-14	5	EPA Method 1633	03/18/2025	5:3 FTCA	<4.98	4.980
SB-14	5	EPA Method 1633	03/18/2025	6:2 FTS	<0.755	0.755
SB-14	5	EPA Method 1633	03/18/2025	7:3 FTCA	<4.98	4.980
SB-14	5	EPA Method 1633	03/18/2025	8:2 FTS	<0.764	0.764
SB-14	5	EPA Method 1633	03/18/2025	9Cl-PF3ONS	<0.776	0.776
SB-14	5	EPA Method 1633	03/18/2025	ADONA	<0.786	0.786
SB-14	5	EPA Method 1633	03/18/2025	HFPO-DA	<0.831	0.831
SB-14	5	EPA Method 1633	03/18/2025	NEtFOSA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	NEtFOSAA	<0.199	0.199

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-14	5	EPA Method 1633	03/18/2025	NEtFOSE	<1.99	1.990
SB-14	5	EPA Method 1633	03/18/2025	NFDHA	<0.398	0.398
SB-14	5	EPA Method 1633	03/18/2025	NMeFOSA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	NMeFOSAA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	NMeFOSE	<1.99	1.990
SB-14	5	EPA Method 1633	03/18/2025	PFBA	<0.797	0.797
SB-14	5	EPA Method 1633	03/18/2025	PFBS	<0.176	0.176
SB-14	5	EPA Method 1633	03/18/2025	PFDA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	PFDoA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	PFDoS	<0.193	0.193
SB-14	5	EPA Method 1633	03/18/2025	PFDS	<0.192	0.192
SB-14	5	EPA Method 1633	03/18/2025	PFEESA	<0.354	0.354
SB-14	5	EPA Method 1633	03/18/2025	PFHpA	0.318	0.199
SB-14	5	EPA Method 1633	03/18/2025	PFHpS	<0.189	0.189
SB-14	5	EPA Method 1633	03/18/2025	PFHxA	0.257	0.199
SB-14	5	EPA Method 1633	03/18/2025	PFHxS	<0.182	0.182
SB-14	5	EPA Method 1633	03/18/2025	PFMBA	<0.398	0.398
SB-14	5	EPA Method 1633	03/18/2025	PFMPA	<0.398	0.398
SB-14	5	EPA Method 1633	03/18/2025	PFNA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	PFNS	<0.191	0.191
SB-14	5	EPA Method 1633	03/18/2025	PFOA	0.305	0.199
SB-14	5	EPA Method 1633	03/18/2025	PFOS	<0.185	0.185
SB-14	5	EPA Method 1633	03/18/2025	PFOSA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	PFPeA	<0.397	0.397
SB-14	5	EPA Method 1633	03/18/2025	PFPeS	<0.187	0.187
SB-14	5	EPA Method 1633	03/18/2025	PFTeDA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	PFTrDA	<0.199	0.199
SB-14	5	EPA Method 1633	03/18/2025	PFUnA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	11Cl-PF3OUdS	<0.787	0.787
SB-14	11	EPA Method 1633	03/18/2025	3:3 FTCA	<0.996	0.996
SB-14	11	EPA Method 1633	03/18/2025	4:2 FTS	<0.747	0.747
SB-14	11	EPA Method 1633	03/18/2025	5:3 FTCA	<4.98	4.980
SB-14	11	EPA Method 1633	03/18/2025	6:2 FTS	<0.756	0.756
SB-14	11	EPA Method 1633	03/18/2025	7:3 FTCA	<4.98	4.980
SB-14	11	EPA Method 1633	03/18/2025	8:2 FTS	<0.765	0.765
SB-14	11	EPA Method 1633	03/18/2025	9Cl-PF3ONS	<0.777	0.777
SB-14	11	EPA Method 1633	03/18/2025	ADONA	<0.787	0.787
SB-14	11	EPA Method 1633	03/18/2025	HFPO-DA	<0.832	0.832
SB-14	11	EPA Method 1633	03/18/2025	NEtFOSA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	NEtFOSAA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	NEtFOSE	<1.99	1.990
SB-14	11	EPA Method 1633	03/18/2025	NFDHA	<0.398	0.398

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-14	11	EPA Method 1633	03/18/2025	NMeFOSA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	NMeFOSAA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	NMeFOSE	<1.99	1.990
SB-14	11	EPA Method 1633	03/18/2025	PFBA	<0.798	0.798
SB-14	11	EPA Method 1633	03/18/2025	PFBS	<0.176	0.176
SB-14	11	EPA Method 1633	03/18/2025	PFDA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	PFDoA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	PFDoS	<0.193	0.193
SB-14	11	EPA Method 1633	03/18/2025	PFDS	<0.192	0.192
SB-14	11	EPA Method 1633	03/18/2025	PFEESA	<0.355	0.355
SB-14	11	EPA Method 1633	03/18/2025	PFHpA	0.206	0.199
SB-14	11	EPA Method 1633	03/18/2025	PFHpS	<0.189	0.189
SB-14	11	EPA Method 1633	03/18/2025	PFHxA	0.307	0.199
SB-14	11	EPA Method 1633	03/18/2025	PFHxS	<0.182	0.182
SB-14	11	EPA Method 1633	03/18/2025	PFMBA	<0.398	0.398
SB-14	11	EPA Method 1633	03/18/2025	PFMPA	<0.398	0.398
SB-14	11	EPA Method 1633	03/18/2025	PFNA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	PFNS	<0.191	0.191
SB-14	11	EPA Method 1633	03/18/2025	PFOA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	PFOS	<0.185	0.185
SB-14	11	EPA Method 1633	03/18/2025	PFOSA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	PFPeA	<0.397	0.397
SB-14	11	EPA Method 1633	03/18/2025	PFPeS	<0.187	0.187
SB-14	11	EPA Method 1633	03/18/2025	PFTeDA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	PFTrDA	<0.199	0.199
SB-14	11	EPA Method 1633	03/18/2025	PFUnA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	11Cl-PF3OUdS	<0.786	0.786
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	3:3 FTCA	<0.994	0.994
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	4:2 FTS	<0.746	0.746
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	5:3 FTCA	<4.97	4.97
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	6:2 FTS	<0.755	0.755
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	7:3 FTCA	<4.97	4.97
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	8:2 FTS	<0.764	0.764
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	9Cl-PF3ONS	<0.776	0.776
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	ADONA	<0.786	0.786
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	HFPO-DA	<0.830	0.830
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	NEtFOSA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	NEtFOSAA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	NEtFOSE	<1.99	1.99
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	NFDHA	<0.398	0.398
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	NMeFOSA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	NMeFOSAA	<0.199	0.199

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	NMeFOSE	<1.99	1.99
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFBA	<0.796	0.796
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFBS	<0.176	0.176
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFDA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFDoA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFDoS	<0.193	0.193
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFDS	<0.192	0.192
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFEESA	<0.354	0.354
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFHpA	0.333	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFHpS	<0.189	0.189
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFHxA	0.294	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFHxS	<0.182	0.182
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFMBA	<0.398	0.398
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFMPA	<0.398	0.398
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFNA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFNS	<0.191	0.191
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFOA	0.332	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFOS	<0.185	0.185
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFOSA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFPeA	<0.397	0.397
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFPeS	<0.187	0.187
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFTeDA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFTrDA	<0.199	0.199
SB-14 Dup (SB-15)	5	EPA Method 1633	03/18/2025	PFUnA	<0.199	0.199
SB-2	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.789	0.789
SB-2	2	EPA Method 1633	07/03/2024	3:3 FTCA	<0.999	0.999
SB-2	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.749	0.749
SB-2	2	EPA Method 1633	07/03/2024	5:3 FTCA	<5.00	5.00
SB-2	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.758	0.758
SB-2	2	EPA Method 1633	07/03/2024	7:3 FTCA	<5.00	5.00
SB-2	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.767	0.767
SB-2	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.779	0.779
SB-2	2	EPA Method 1633	07/03/2024	ADONA	<0.789	0.789
SB-2	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.834	0.834
SB-2	2	EPA Method 1633	07/03/2024	NEtFOSA	0.289	0.200
SB-2	2	EPA Method 1633	07/03/2024	NEtFOSAA	31.7	0.200
SB-2	2	EPA Method 1633	07/03/2024	NEtFOSE	<2.00	2.000
SB-2	2	EPA Method 1633	07/03/2024	NFDHA	<0.400	0.400
SB-2	2	EPA Method 1633	07/03/2024	NMeFOSA	0.413	0.200
SB-2	2	EPA Method 1633	07/03/2024	NMeFOSAA	14.2	0.200
SB-2	2	EPA Method 1633	07/03/2024	NMeFOSE	3.25	2.000
SB-2	2	EPA Method 1633	07/03/2024	PFBA	0.994	0.800

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-2	2	EPA Method 1633	07/03/2024	PFBS	3.99	0.177
SB-2	2	EPA Method 1633	07/03/2024	PFDA	11.6	0.200
SB-2	2	EPA Method 1633	07/03/2024	PFDoA	4.34	0.200
SB-2	2	EPA Method 1633	07/03/2024	PFDoS	<0.194	0.194
SB-2	2	EPA Method 1633	07/03/2024	PFDS	27.7	0.193
SB-2	2	EPA Method 1633	07/03/2024	PFEESA	<0.356	0.356
SB-2	2	EPA Method 1633	07/03/2024	PFHpA	6.53	0.200
SB-2	2	EPA Method 1633	07/03/2024	PFHpS	1.51	0.190
SB-2	2	EPA Method 1633	07/03/2024	PFHxA	4.36	0.200
SB-2	2	EPA Method 1633	07/03/2024	PFHxS	**5.55**	0.183
SB-2	2	EPA Method 1633	07/03/2024	PFMBA	<0.400	0.400
SB-2	2	EPA Method 1633	07/03/2024	PFMPA	<0.400	0.400
SB-2	2	EPA Method 1633	07/03/2024	PFNA	**5.07**	0.200
SB-2	2	EPA Method 1633	07/03/2024	PFNS	0.362	0.192
SB-2	2	EPA Method 1633	07/03/2024	PFOA	**35.2**	0.200
SB-2	2	EPA Method 1633	07/03/2024	PFOS	**119**	0.186
SB-2	2	EPA Method 1633	07/03/2024	PFOSA	6.93	0.200
SB-2	2	EPA Method 1633	07/03/2024	PFPeA	2.48	0.399
SB-2	2	EPA Method 1633	07/03/2024	PFPeS	0.465	0.188
SB-2	2	EPA Method 1633	07/03/2024	PFTeDA	1.26	0.200
SB-2	2	EPA Method 1633	07/03/2024	PFTrDA	0.432	0.200
SB-2	2	EPA Method 1633	07/03/2024	PFUnA	1.56	0.200
SB-3	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.789	0.789
SB-3	2	EPA Method 1633	07/03/2024	3:3 FTCA	<0.998	0.998
SB-3	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.749	0.749
SB-3	2	EPA Method 1633	07/03/2024	5:3 FTCA	<4.99	4.99
SB-3	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.758	0.758
SB-3	2	EPA Method 1633	07/03/2024	7:3 FTCA	<4.99	4.99
SB-3	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.767	0.767
SB-3	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.779	0.779
SB-3	2	EPA Method 1633	07/03/2024	ADONA	<0.789	0.789
SB-3	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.833	0.833
SB-3	2	EPA Method 1633	07/03/2024	NEtFOSA	<0.200	0.200
SB-3	2	EPA Method 1633	07/03/2024	NEtFOSAA	0.766	0.200
SB-3	2	EPA Method 1633	07/03/2024	NEtFOSE	<2.00	2.00
SB-3	2	EPA Method 1633	07/03/2024	NFDHA	<0.399	0.399
SB-3	2	EPA Method 1633	07/03/2024	NMeFOSA	<0.200	0.200
SB-3	2	EPA Method 1633	07/03/2024	NMeFOSAA	0.320	0.200
SB-3	2	EPA Method 1633	07/03/2024	NMeFOSE	<2.00	2.00
SB-3	2	EPA Method 1633	07/03/2024	PFBA	1.13	0.799
SB-3	2	EPA Method 1633	07/03/2024	PFBS	1.88	0.177
SB-3	2	EPA Method 1633	07/03/2024	PFDA	0.742	0.200

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-3	2	EPA Method 1633	07/03/2024	PFDoA	<0.200	0.200
SB-3	2	EPA Method 1633	07/03/2024	PFDoS	<0.194	0.194
SB-3	2	EPA Method 1633	07/03/2024	PFDS	0.486	0.193
SB-3	2	EPA Method 1633	07/03/2024	PFEESA	<0.355	0.355
SB-3	2	EPA Method 1633	07/03/2024	PFHpA	2.28	0.200
SB-3	2	EPA Method 1633	07/03/2024	PFHpS	<0.190	0.190
SB-3	2	EPA Method 1633	07/03/2024	PFHxA	2.80	0.200
SB-3	2	EPA Method 1633	07/03/2024	PFHxS	**1.53**	0.183
SB-3	2	EPA Method 1633	07/03/2024	PFMBA	<0.399	0.399
SB-3	2	EPA Method 1633	07/03/2024	PFMPA	<0.399	0.399
SB-3	2	EPA Method 1633	07/03/2024	PFNA	0.835	0.200
SB-3	2	EPA Method 1633	07/03/2024	PFNS	<0.192	0.192
SB-3	2	EPA Method 1633	07/03/2024	PFOA	13.1	0.200
SB-3	2	EPA Method 1633	07/03/2024	PFOS	**6.57**	0.186
SB-3	2	EPA Method 1633	07/03/2024	PFOSA	0.521	0.200
SB-3	2	EPA Method 1633	07/03/2024	PFPeA	2.07	0.398
SB-3	2	EPA Method 1633	07/03/2024	PFPeS	<0.188	0.188
SB-3	2	EPA Method 1633	07/03/2024	PFTeDA	<0.200	0.200
SB-3	2	EPA Method 1633	07/03/2024	PFTrDA	<0.200	0.200
SB-3	2	EPA Method 1633	07/03/2024	PFUnA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.789	0.789
SB-4	2	EPA Method 1633	07/03/2024	3:3 FTCA	<0.999	0.999
SB-4	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.749	0.749
SB-4	2	EPA Method 1633	07/03/2024	5:3 FTCA	<4.99	4.99
SB-4	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.758	0.758
SB-4	2	EPA Method 1633	07/03/2024	7:3 FTCA	<4.99	4.99
SB-4	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.767	0.767
SB-4	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.779	0.779
SB-4	2	EPA Method 1633	07/03/2024	ADONA	<0.789	0.789
SB-4	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.834	0.834
SB-4	2	EPA Method 1633	07/03/2024	NEtFOSA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	NEtFOSAA	0.587	0.200
SB-4	2	EPA Method 1633	07/03/2024	NEtFOSE	<2.00	2.00
SB-4	2	EPA Method 1633	07/03/2024	NFDHA	<0.400	0.400
SB-4	2	EPA Method 1633	07/03/2024	NMeFOSA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	NMeFOSAA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	NMeFOSE	<2.00	2.00
SB-4	2	EPA Method 1633	07/03/2024	PFBA	<0.800	0.800
SB-4	2	EPA Method 1633	07/03/2024	PFBS	0.235	0.177
SB-4	2	EPA Method 1633	07/03/2024	PFDA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	PFDoA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	PFDoS	<.194	0.194

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-4	2	EPA Method 1633	07/03/2024	PFDS	0.362	0.193
SB-4	2	EPA Method 1633	07/03/2024	PFEESA	<.356	0.356
SB-4	2	EPA Method 1633	07/03/2024	PFHpA	0.695	0.200
SB-4	2	EPA Method 1633	07/03/2024	PFHpS	<0.190	0.190
SB-4	2	EPA Method 1633	07/03/2024	PFHxA	2.06	0.200
SB-4	2	EPA Method 1633	07/03/2024	PFHxS	<0.183	0.183
SB-4	2	EPA Method 1633	07/03/2024	PFMBA	<0.400	0.400
SB-4	2	EPA Method 1633	07/03/2024	PFMPA	<0.400	0.400
SB-4	2	EPA Method 1633	07/03/2024	PFNA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	PFNS	<0.192	0.192
SB-4	2	EPA Method 1633	07/03/2024	PFOA	0.635	0.200
SB-4	2	EPA Method 1633	07/03/2024	PFOS	**1.46**	0.186
SB-4	2	EPA Method 1633	07/03/2024	PFOSA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	PFPeA	1.07	0.399
SB-4	2	EPA Method 1633	07/03/2024	PFPeS	<0.188	0.188
SB-4	2	EPA Method 1633	07/03/2024	PFTeDA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	PFTrDA	<0.200	0.200
SB-4	2	EPA Method 1633	07/03/2024	PFUnA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.789	0.789
SB-5	2	EPA Method 1633	07/03/2024	3:3 FTCA	<0.999	0.999
SB-5	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.749	0.749
SB-5	2	EPA Method 1633	07/03/2024	5:3 FTCA	<4.99	4.99
SB-5	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.758	0.758
SB-5	2	EPA Method 1633	07/03/2024	7:3 FTCA	<4.99	4.99
SB-5	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.767	0.767
SB-5	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.779	0.779
SB-5	2	EPA Method 1633	07/03/2024	ADONA	<0.789	0.789
SB-5	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.834	0.834
SB-5	2	EPA Method 1633	07/03/2024	NEtFOSA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	NEtFOSAA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	NEtFOSE	<2.00	2.00
SB-5	2	EPA Method 1633	07/03/2024	NFDHA	<0.399	0.399
SB-5	2	EPA Method 1633	07/03/2024	NMeFOSA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	NMeFOSAA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	NMeFOSE	<2.00	2.00
SB-5	2	EPA Method 1633	07/03/2024	PFBA	<0.800	0.800
SB-5	2	EPA Method 1633	07/03/2024	PFBS	0.909	0.177
SB-5	2	EPA Method 1633	07/03/2024	PFDA	0.237	0.200
SB-5	2	EPA Method 1633	07/03/2024	PFDoA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	PFDoS	<0.194	0.194
SB-5	2	EPA Method 1633	07/03/2024	PFDS	<0.193	0.193
SB-5	2	EPA Method 1633	07/03/2024	PFEESA	<0.355	0.355

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-5	2	EPA Method 1633	07/03/2024	PFHpA	2.97	0.200
SB-5	2	EPA Method 1633	07/03/2024	PFHpS	<0.190	0.190
SB-5	2	EPA Method 1633	07/03/2024	PFHxA	4.39	0.200
SB-5	2	EPA Method 1633	07/03/2024	PFHxS	0.225	0.183
SB-5	2	EPA Method 1633	07/03/2024	PFMBA	<0.399	0.399
SB-5	2	EPA Method 1633	07/03/2024	PFMPA	<0.399	0.399
SB-5	2	EPA Method 1633	07/03/2024	PFNA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	PFNS	<0.192	0.192
SB-5	2	EPA Method 1633	07/03/2024	PFOA	0.742	0.200
SB-5	2	EPA Method 1633	07/03/2024	PFOS	**0.663**	0.186
SB-5	2	EPA Method 1633	07/03/2024	PFOSA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	PFPeA	2.12	0.398
SB-5	2	EPA Method 1633	07/03/2024	PFPeS	0.399	0.188
SB-5	2	EPA Method 1633	07/03/2024	PFTeDA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	PFTrDA	<0.200	0.200
SB-5	2	EPA Method 1633	07/03/2024	PFUnA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.789	0.789
SB-6	2	EPA Method 1633	07/03/2024	3:3 FTCA	<0.999	0.999
SB-6	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.749	0.749
SB-6	2	EPA Method 1633	07/03/2024	5:3 FTCA	<5.00	5.00
SB-6	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.758	0.758
SB-6	2	EPA Method 1633	07/03/2024	7:3 FTCA	<5.00	5.00
SB-6	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.767	0.767
SB-6	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.779	0.779
SB-6	2	EPA Method 1633	07/03/2024	ADONA	<0.789	0.789
SB-6	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.834	0.834
SB-6	2	EPA Method 1633	07/03/2024	NEtFOSA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	NEtFOSAA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	NEtFOSE	<2.00	2.000
SB-6	2	EPA Method 1633	07/03/2024	NFDHA	<0.400	0.400
SB-6	2	EPA Method 1633	07/03/2024	NMeFOSA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	NMeFOSAA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	NMeFOSE	<2.00	2.000
SB-6	2	EPA Method 1633	07/03/2024	PFBA	<0.800	0.800
SB-6	2	EPA Method 1633	07/03/2024	PFBS	<0.177	0.177
SB-6	2	EPA Method 1633	07/03/2024	PFDA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	PFDoA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	PFDoS	<0.194	0.194
SB-6	2	EPA Method 1633	07/03/2024	PFDS	<0.193	0.193
SB-6	2	EPA Method 1633	07/03/2024	PFEESA	<0.356	0.356
SB-6	2	EPA Method 1633	07/03/2024	PFHpA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	PFHpS	<0.190	0.190

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-6	2	EPA Method 1633	07/03/2024	PFHxA	0.477	0.200
SB-6	2	EPA Method 1633	07/03/2024	PFHxS	<0.183	0.183
SB-6	2	EPA Method 1633	07/03/2024	PFMBA	<0.400	0.400
SB-6	2	EPA Method 1633	07/03/2024	PFMPA	<0.400	0.400
SB-6	2	EPA Method 1633	07/03/2024	PFNA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	PFNS	<0.192	0.192
SB-6	2	EPA Method 1633	07/03/2024	PFOA	0.280	0.200
SB-6	2	EPA Method 1633	07/03/2024	PFOS	**0.464**	0.186
SB-6	2	EPA Method 1633	07/03/2024	PFOSA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	PFPeA	0.734	0.399
SB-6	2	EPA Method 1633	07/03/2024	PFPeS	<0.188	0.188
SB-6	2	EPA Method 1633	07/03/2024	PFTeDA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	PFTrDA	<0.200	0.200
SB-6	2	EPA Method 1633	07/03/2024	PFUnA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.790	0.790
SB-7	2	EPA Method 1633	07/03/2024	3:3 FTCA	<1.000	1.00
SB-7	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.750	0.750
SB-7	2	EPA Method 1633	07/03/2024	5:3 FTCA	<5.000	5.00
SB-7	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.759	0.759
SB-7	2	EPA Method 1633	07/03/2024	7:3 FTCA	<5.00	5.00
SB-7	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.768	0.768
SB-7	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.780	0.780
SB-7	2	EPA Method 1633	07/03/2024	ADONA	<0.790	0.790
SB-7	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.835	0.835
SB-7	2	EPA Method 1633	07/03/2024	NEtFOSA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	NEtFOSAA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	NEtFOSE	<2.00	2.00
SB-7	2	EPA Method 1633	07/03/2024	NFDHA	<0.400	0.400
SB-7	2	EPA Method 1633	07/03/2024	NMeFOSA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	NMeFOSAA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	NMeFOSE	<2.00	2.00
SB-7	2	EPA Method 1633	07/03/2024	PFBA	<0.801	0.801
SB-7	2	EPA Method 1633	07/03/2024	PFBS	0.945	0.177
SB-7	2	EPA Method 1633	07/03/2024	PFDA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	PFDoA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	PFDoS	<0.194	0.194
SB-7	2	EPA Method 1633	07/03/2024	PFDS	<0.193	0.193
SB-7	2	EPA Method 1633	07/03/2024	PFEESA	<0.356	0.356
SB-7	2	EPA Method 1633	07/03/2024	PFHpA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	PFHpS	<0.190	0.190
SB-7	2	EPA Method 1633	07/03/2024	PFHxA	1.45	0.200
SB-7	2	EPA Method 1633	07/03/2024	PFHxS	<0.183	0.183

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-7	2	EPA Method 1633	07/03/2024	PFMBA	<0.400	0.400
SB-7	2	EPA Method 1633	07/03/2024	PFMPA	<0.400	0.400
SB-7	2	EPA Method 1633	07/03/2024	PFNA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	PFNS	<0.192	0.192
SB-7	2	EPA Method 1633	07/03/2024	PFOA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	PFOS	<0.186	0.186
SB-7	2	EPA Method 1633	07/03/2024	PFOSA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	PFPeA	1.39	0.399
SB-7	2	EPA Method 1633	07/03/2024	PFPeS	<0.188	0.188
SB-7	2	EPA Method 1633	07/03/2024	PFTeDA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	PFTrDA	<0.200	0.200
SB-7	2	EPA Method 1633	07/03/2024	PFUnA	<0.200	0.200
SB-7	0–0.5	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.787	0.787
SB-7	0–0.5	EPA Method 1633	07/03/2024	3:3 FTCA	<0.996	0.996
SB-7	0–0.5	EPA Method 1633	07/03/2024	4:2 FTS	<0.747	0.747
SB-7	0–0.5	EPA Method 1633	07/03/2024	5:3 FTCA	<4.98	4.98
SB-7	0–0.5	EPA Method 1633	07/03/2024	6:2 FTS	3.28	0.756
SB-7	0–0.5	EPA Method 1633	07/03/2024	7:3 FTCA	<4.98	4.98
SB-7	0–0.5	EPA Method 1633	07/03/2024	8:2 FTS	3.74	0.765
SB-7	0–0.5	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.777	0.777
SB-7	0–0.5	EPA Method 1633	07/03/2024	ADONA	<0.787	0.787
SB-7	0–0.5	EPA Method 1633	07/03/2024	HFPO-DA	<0.832	0.832
SB-7	0–0.5	EPA Method 1633	07/03/2024	NEtFOSA	<0.199	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	NEtFOSAA	10.4	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	NEtFOSE	2.04	1.99
SB-7	0–0.5	EPA Method 1633	07/03/2024	NFDHA	<0.398	0.398
SB-7	0–0.5	EPA Method 1633	07/03/2024	NMeFOSA	<0.199	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	NMeFOSAA	24.8	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	NMeFOSE	3.88	1.99
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFBA	6.01	0.798
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFBS	20.2	0.176
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFDA	28.2	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFDoA	9.28	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFDoS	<0.193	0.193
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFDS	4.35	0.192
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFEESA	<0.355	0.355
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFHpA	7.67	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFHpS	0.343	0.189
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFHxA	23.8	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFHxS	**3.75**	0.182
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFMBA	<0.398	0.398
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFMPA	<0.398	0.398

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFNA	**15.8**	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFNS	<0.191	0.191
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFOA	**33.3**	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFOS	**30.7**	0.185
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFOSA	2.81	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFPeA	17.1	0.397
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFPeS	0.207	0.187
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFTeDA	2.26	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFTrDA	1.25	0.199
SB-7	0–0.5	EPA Method 1633	07/03/2024	PFUnA	6.51	0.199
SB-8	2	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.787	0.787
SB-8	2	EPA Method 1633	07/03/2024	3:3 FTCA	<0.996	0.996
SB-8	2	EPA Method 1633	07/03/2024	4:2 FTS	<0.747	0.747
SB-8	2	EPA Method 1633	07/03/2024	5:3 FTCA	<4.98	4.98
SB-8	2	EPA Method 1633	07/03/2024	6:2 FTS	<0.756	0.756
SB-8	2	EPA Method 1633	07/03/2024	7:3 FTCA	<4.98	4.98
SB-8	2	EPA Method 1633	07/03/2024	8:2 FTS	<0.765	0.765
SB-8	2	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.777	0.777
SB-8	2	EPA Method 1633	07/03/2024	ADONA	<0.787	0.787
SB-8	2	EPA Method 1633	07/03/2024	HFPO-DA	<0.832	0.832
SB-8	2	EPA Method 1633	07/03/2024	NEtFOSA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	NEtFOSAA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	NEtFOSE	<1.99	1.99
SB-8	2	EPA Method 1633	07/03/2024	NFDHA	<0.399	0.399
SB-8	2	EPA Method 1633	07/03/2024	NMeFOSA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	NMeFOSAA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	NMeFOSE	<1.99	1.99
SB-8	2	EPA Method 1633	07/03/2024	PFBA	<0.798	0.798
SB-8	2	EPA Method 1633	07/03/2024	PFBS	<0.176	0.176
SB-8	2	EPA Method 1633	07/03/2024	PFDA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	PFDoA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	PFDoS	<0.193	0.193
SB-8	2	EPA Method 1633	07/03/2024	PFDS	<0.192	0.192
SB-8	2	EPA Method 1633	07/03/2024	PFEESA	<0.355	0.355
SB-8	2	EPA Method 1633	07/03/2024	PFHpA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	PFHpS	<0.189	0.189
SB-8	2	EPA Method 1633	07/03/2024	PFHxA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	PFHxS	<0.182	0.182
SB-8	2	EPA Method 1633	07/03/2024	PFMBA	<0.399	0.399
SB-8	2	EPA Method 1633	07/03/2024	PFMPA	<0.399	0.399
SB-8	2	EPA Method 1633	07/03/2024	PFNA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	PFNS	<0.191	0.191

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-8	2	EPA Method 1633	07/03/2024	PFOA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	PFOS	<0.185	0.185
SB-8	2	EPA Method 1633	07/03/2024	PFOSA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	PFPeA	<0.398	0.398
SB-8	2	EPA Method 1633	07/03/2024	PFPeS	<0.187	0.187
SB-8	2	EPA Method 1633	07/03/2024	PFTeDA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	PFTrDA	<0.199	0.199
SB-8	2	EPA Method 1633	07/03/2024	PFUnA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	11Cl-PF3OUdS	<0.786	0.786
SB-9	1	EPA Method 1633	07/03/2024	3:3 FTCA	<0.995	0.995
SB-9	1	EPA Method 1633	07/03/2024	4:2 FTS	<0.746	0.746
SB-9	1	EPA Method 1633	07/03/2024	5:3 FTCA	<4.98	4.98
SB-9	1	EPA Method 1633	07/03/2024	6:2 FTS	<0.755	0.755
SB-9	1	EPA Method 1633	07/03/2024	7:3 FTCA	<4.98	4.98
SB-9	1	EPA Method 1633	07/03/2024	8:2 FTS	<0.764	0.764
SB-9	1	EPA Method 1633	07/03/2024	9Cl-PF3ONS	<0.776	0.776
SB-9	1	EPA Method 1633	07/03/2024	ADONA	<0.786	0.786
SB-9	1	EPA Method 1633	07/03/2024	HFPO-DA	<0.831	0.831
SB-9	1	EPA Method 1633	07/03/2024	NEtFOSA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	NEtFOSAA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	NEtFOSE	<1.99	1.99
SB-9	1	EPA Method 1633	07/03/2024	NFDHA	<0.398	0.398
SB-9	1	EPA Method 1633	07/03/2024	NMeFOSA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	NMeFOSAA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	NMeFOSE	<1.99	1.99
SB-9	1	EPA Method 1633	07/03/2024	PFBA	<0.797	0.797
SB-9	1	EPA Method 1633	07/03/2024	PFBS	<0.176	0.176
SB-9	1	EPA Method 1633	07/03/2024	PFDA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	PFDoA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	PFDoS	<0.193	0.193
SB-9	1	EPA Method 1633	07/03/2024	PFDS	<0.192	0.192
SB-9	1	EPA Method 1633	07/03/2024	PFEESA	<0.354	0.354
SB-9	1	EPA Method 1633	07/03/2024	PFHpA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	PFHpS	<0.189	0.189
SB-9	1	EPA Method 1633	07/03/2024	PFHxA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	PFHxS	<0.182	0.182
SB-9	1	EPA Method 1633	07/03/2024	PFMBA	<0.398	0.398
SB-9	1	EPA Method 1633	07/03/2024	PFMPA	<0.398	0.398
SB-9	1	EPA Method 1633	07/03/2024	PFNA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	PFNS	<0.191	0.191
SB-9	1	EPA Method 1633	07/03/2024	PFOA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	PFOS	<0.185	0.185

Table 6. PRWRF Soil Analytical Results

Sample ID	Sample Depth (ft)	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL
SB-9	1	EPA Method 1633	07/03/2024	PFOSA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	PFPeA	<0.397	0.397
SB-9	1	EPA Method 1633	07/03/2024	PFPeS	<0.187	0.187
SB-9	1	EPA Method 1633	07/03/2024	PFTeDA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	PFTrDA	<0.199	0.199
SB-9	1	EPA Method 1633	07/03/2024	PFUnA	<0.199	0.199

Notes:

Qual. = qualifier (listed if provided in lab reports)

RL = reporting limit

Bold indicates that the value exceeds New Mexico Environment Department (NMED) soil screening levels (SSLs) (NMED SSL of Risk-based SSL, dilution attenuation factor [DAF] 20 [NMED, 2022]).

Table 7. PRWRF Wastewater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
Effluent	EPA 537 Modified	06/17/2020	10:2 FTS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	4:2 FTS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	6:2 FTS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	8:2 FTS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	HFPO-DA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	NEtFOSAA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	NEtFOSA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	NEtFOSE	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	NMeFOSAA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	NMeFOSA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	NMeFOSE	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFBS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFBA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFDS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFDA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFDoA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFHpS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFHpA	14	4.2	
Effluent	EPA 537 Modified	06/17/2020	PFHxS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFHxA	18	9.2	
Effluent	EPA 537 Modified	06/17/2020	PFNS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFNA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFOSA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFOS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFOA	16	1.7	
Effluent	EPA 537 Modified	06/17/2020	PFPeS	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFPeA	18	4.2	
Effluent	EPA 537 Modified	06/17/2020	PFTeDA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFTrDA	<4.2	4.2	U
Effluent	EPA 537 Modified	06/17/2020	PFUnA	<4.2	4.2	U
Effluent	EPA 537 Modified	02/01/2023	PFHxS	<4.8	4.8	U
Effluent	EPA 537 Modified	02/02/2023	PFOS	1.4	4.8	J
Effluent	EPA 537 Modified	02/03/2023	PFOA	6.8	1.9	
Influent	EPA 537 Modified	06/17/2020	10:2 FTS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	4:2 FTS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	6:2 FTS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	8:2 FTS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	HFPO-DA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	NEtFOSAA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	NEtFOSA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	NEtFOSE	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	NMeFOSAA	<4.2	4.2	U

Table 7. PRWRF Wastewater Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
Influent	EPA 537 Modified	06/17/2020	NMeFOSA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	NMeFOSE	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFBS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFBA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFDS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFDA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFDoA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFHpS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFHpA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFHxS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFHxA	<9.2	9.2	U
Influent	EPA 537 Modified	06/17/2020	PFNS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFNA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFOSA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFOS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFOA	2.8	1.7	
Influent	EPA 537 Modified	06/17/2020	PFPeS	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFPeA	92	4.2	
Influent	EPA 537 Modified	06/17/2020	PFTeDA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFTrDA	<4.2	4.2	U
Influent	EPA 537 Modified	06/17/2020	PFUnA	<4.2	4.2	U

Notes:

Qual. = qualifier (listed if provided in lab reports)

RL = reporting limit

New Mexico has not established PFAS-specific numeric criteria for wastewater.

Accordingly, no exceedances are indicated in this table.

Table 8. PRWRF Process Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL	Qual.
Compost	EPA 537 Modified	06/17/2020	10:2 FTS	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	4:2 FTS	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	6:2 FTS	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	8:2 FTS	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	HFPO-DA	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	NEtFOSAA	9.1	1.4	
Compost	EPA 537 Modified	06/17/2020	NEtFOSE	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	NMeFOSAA	18	1.4	
Compost	EPA 537 Modified	06/17/2020	NEtFOSA	17	1.4	
Compost	EPA 537 Modified	06/17/2020	NMeFOSA	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	PFBS	5.5	1.4	
Compost	EPA 537 Modified	06/17/2020	PFBA	11	1.4	
Compost	EPA 537 Modified	06/17/2020	PFDS	1.7	1.4	
Compost	EPA 537 Modified	06/17/2020	PFDA	9.7	1.4	
Compost	EPA 537 Modified	06/17/2020	PFDoA	4	1.4	
Compost	EPA 537 Modified	06/17/2020	PFHpS	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	PFHpA	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	PFHxS	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	PFHxA	18	1.4	
Compost	EPA 537 Modified	06/17/2020	PFNS	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	PFNA	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	PFOSA	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	PFOS	**6.1**	1.4	
Compost	EPA 537 Modified	06/17/2020	PFOA	7.3	1.4	
Compost	EPA 537 Modified	06/17/2020	PFPeS	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	PFPeA	110	1.4	
Compost	EPA 537 Modified	06/17/2020	PFTeDA	1.5	1.4	
Compost	EPA 537 Modified	06/17/2020	PFTrDA	<1.4	1.4	U
Compost	EPA 537 Modified	06/17/2020	PFUnA	<1.4	1.4	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	10:2 FTS	<7.7	7.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	4:2 FTS	<8.7	8.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	6:2 FTS	<9.7	9.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	8:2 FTS	<10.7	10.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	HFPO-DA	<11.7	11.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	NEtFOSAA	27	12.7	
Dewatered Biosolids	EPA 537 Modified	06/17/2020	NEtFOSE	<13.7	13.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	NMeFOSAA	25	14.7	
Dewatered Biosolids	EPA 537 Modified	06/17/2020	NEtFOSA	340	15.7	
Dewatered Biosolids	EPA 537 Modified	06/17/2020	NMeFOSA	<16.7	16.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFBS	<17.7	17.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFBA	<18.7	18.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFDS	<19.7	19.7	U

Table 8. PRWRF Process Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/g)	RL	Qual.
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFDA	16	20.7	
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFDoA	<21.7	21.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFHpS	<22.7	22.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFHxS	<23.7	23.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFNS	<24.7	24.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFNA	<25.7	25.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFOSA	<26.7	26.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFOS	**13**	27.7	
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFOA	<28.7	28.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFPeS	<29.7	29.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFPeA	<30.7	30.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFTeDA	<31.7	31.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFTrDA	<32.7	32.7	U
Dewatered Biosolids	EPA 537 Modified	06/17/2020	PFUnA	<33.7	33.7	U

Notes:

Qual. = qualifier (listed if provided in lab reports)

RL = reporting limit

Bold indicates that the value exceeds NMED Risk-based SSL, DAF 20 (NMED, 2022).

Table 9. Surface Water Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
SWS-01	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	<6.8	6.8
SWS-01	EPA Method1633	04/03/2025	8:2 FTS	<6.8	6.8
SWS-01	EPA Method 1633	04/03/2025	4:2 FTS	<6.8	6.8
SWS-01	EPA Method 1633	04/03/2025	6:2 FTS	<6.8	6.8
SWS-01	EPA Method 1633	04/03/2025	7:3 FTCA	<43	43.0
SWS-01	EPA Method 1633	04/03/2025	5:3 FTCA	<43	43.0
SWS-01	EPA Method 1633	04/03/2025	3:3 FTCA	<8.50	8.5
SWS-01	EPA Method 1633	04/03/2025	ADONA	<6.80	6.8
SWS-01	EPA Method 1633	04/03/2025	9Cl-PF3ONS	<6.80	6.8
SWS-01	EPA Method 1633	04/03/2025	HFPO-DA	<6.80	6.8
SWS-01	EPA Method 1633	04/03/2025	NEtFOSA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	NEtFOSE	<17.0	17.0
SWS-01	EPA Method 1633	04/03/2025	NEtFOSAA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	NMeFOSA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	NMeFOSE	<17.0	17.0
SWS-01	EPA Method 1633	04/03/2025	NMeFOSAA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	NFDHA	<3.4	3.4
SWS-01	EPA Method 1633	04/03/2025	PFEESA	<3.4	3.4
SWS-01	EPA Method 1633	04/03/2025	PFMPA	<3.4	3.4
SWS-01	EPA Method 1633	04/03/2025	PFMBA	<3.4	3.4
SWS-01	EPA Method 1633	04/03/2025	PFBS	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFBA	<6.8	6.8
SWS-01	EPA Method 1633	04/03/2025	PFDS	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFDA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFDoS	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFDoA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFHpS	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFHpA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFHxS	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFHxA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFNS	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFNA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFOSA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFOS	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFOA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFPeS	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFPeA	<3.4	3.4
SWS-01	EPA Method 1633	04/03/2025	PFTeDA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFTrDA	<1.7	1.7
SWS-01	EPA Method 1633	04/03/2025	PFUnA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	8:2 FTS	<6.9	6.9
SWS-02	EPA Method 1633	04/03/2025	6:2 FTS	<6.9	6.9

Table 9. Surface Water Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
SWS-02	EPA Method 1633	04/03/2025	7:3 FTCA	<43	43.0
SWS-02	EPA Method 1633	04/03/2025	5:3 FTCA	<43	43.0
SWS-02	EPA Method 1633	04/03/2025	ADONA	<6.9	6.9
SWS-02	EPA Method 1633	04/03/2025	9Cl-PF3ONS	<6.9	6.9
SWS-02	EPA Method 1633	04/03/2025	HFPO-DA	<6.9	6.9
SWS-02	EPA Method 1633	04/03/2025	NEtFOSA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	NEtFOSE	<17	17.0
SWS-02	EPA Method 1633	04/03/2025	NEtFOSAA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	NMeFOSA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	NMeFOSE	<17	17.0
SWS-02	EPA Method 1633	04/03/2025	NMeFOSAA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	NFDHA	<3.5	3.5
SWS-02	EPA Method 1633	04/03/2025	PFEESA	<3.5	3.5
SWS-02	EPA Method 1633	04/03/2025	PFMPA	<3.5	3.5
SWS-02	EPA Method 1633	04/03/2025	PFMBA	<3.5	3.5
SWS-02	EPA Method 1633	04/03/2025	PFBS	2.3	1.7
SWS-02	EPA Method 1633	04/03/2025	PFBA	<6.9	6.9
SWS-02	EPA Method 1633	04/03/2025	PFDS	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFDA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFDoS	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFDoA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFHpS	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFHpA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFHxS	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFHxA	2.4	1.7
SWS-02	EPA Method 1633	04/03/2025	PFNS	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFNA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFOSA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFOS	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFOA	2.2	1.7
SWS-02	EPA Method 1633	04/03/2025	PFPeS	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFPeA	<3.5	3.5
SWS-02	EPA Method 1633	04/03/2025	PFTeDA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFTrDA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	PFUnA	<1.7	1.7
SWS-02	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	<6.9	6.9
SWS-02	EPA Method 1633	04/03/2025	4:2 FTS	<6.9	6.9
SWS-02	EPA Method 1633	04/03/2025	3:3 FTCA	<8.6	8.6
SWS-03	EPA Method 1633	04/04/2025	11Cl-PF3OUdS	<6.5	6.5
SWS-03	EPA Method 1633	04/04/2025	8:2 FTS	<6.5	6.5
SWS-03	EPA Method 1633	04/04/2025	4:2 FTS	<6.5	6.5
SWS-03	EPA Method 1633	04/04/2025	6:2 FTS	<6.5	6.5

Table 9. Surface Water Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
SWS-03	EPA Method 1633	04/04/2025	7:3 FTCA	<41	41.0
SWS-03	EPA Method 1633	04/04/2025	5:3 FTCA	<41	41.0
SWS-03	EPA Method 1633	04/04/2025	3:3 FTCA	<8.1	8.1
SWS-03	EPA Method 1633	04/04/2025	ADONA	<6.5	6.5
SWS-03	EPA Method 1633	04/04/2025	9Cl-PF3ONS	<6.5	6.5
SWS-03	EPA Method 1633	04/04/2025	HFPO-DA	<6.5	6.5
SWS-03	EPA Method 1633	04/04/2025	NEtFOSA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	NEtFOSE	<16	16.0
SWS-03	EPA Method 1633	04/04/2025	NEtFOSAA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	NMeFOSA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	NMeFOSE	<16	16.0
SWS-03	EPA Method 1633	04/04/2025	NMeFOSAA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	NFDHA	<3.3	3.3
SWS-03	EPA Method 1633	04/04/2025	PFEESA	<3.3	3.3
SWS-03	EPA Method 1633	04/04/2025	PFMPA	<3.3	3.3
SWS-03	EPA Method 1633	04/04/2025	PFMBA	<3.3	3.3
SWS-03	EPA Method 1633	04/04/2025	PFBS	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFBA	20.6	6.5
SWS-03	EPA Method 1633	04/04/2025	PFDS	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFDA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFDoS	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFDoA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFHpS	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFHpA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFHxS	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFHxA	11.1	1.6
SWS-03	EPA Method 1633	04/04/2025	PFNS	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFNA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFOSA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFOS	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFOA	7.9	1.6
SWS-03	EPA Method 1633	04/04/2025	PFPeS	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFPeA	25.5	3.3
SWS-03	EPA Method 1633	04/04/2025	PFTeDA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFTrDA	<1.6	1.6
SWS-03	EPA Method 1633	04/04/2025	PFUnA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	11Cl-PF3OUdS	<6.4	6.4
SWS-04	EPA Method 1633	04/04/2025	8:2 FTS	<6.4	6.4
SWS-04	EPA Method 1633	04/04/2025	4:2 FTS	<6.4	6.4
SWS-04	EPA Method 1633	04/04/2025	6:2 FTS	<6.4	6.4
SWS-04	EPA Method 1633	04/04/2025	7:3 FTCA	<40	40.0
SWS-04	EPA Method 1633	04/04/2025	5:3 FTCA	<40	40.0

Table 9. Surface Water Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
SWS-04	EPA Method 1633	04/04/2025	3:3 FTCA	<8	8.0
SWS-04	EPA Method 1633	04/04/2025	ADONA	<6.4	6.4
SWS-04	EPA Method 1633	04/04/2025	9Cl-PF3ONS	<6.4	6.4
SWS-04	EPA Method 1633	04/04/2025	HFPO-DA	<6.4	6.4
SWS-04	EPA Method 1633	04/04/2025	NEtFOSA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	NEtFOSE	<16	16.0
SWS-04	EPA Method 1633	04/04/2025	NEtFOSAA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	NMeFOSA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	NMeFOSE	<16	16.0
SWS-04	EPA Method 1633	04/04/2025	NMeFOSAA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	NFDHA	<3.2	3.2
SWS-04	EPA Method 1633	04/04/2025	PFEESA	<3.2	3.2
SWS-04	EPA Method 1633	04/04/2025	PFMPA	<3.2	3.2
SWS-04	EPA Method 1633	04/04/2025	PFMBA	<3.2	3.2
SWS-04	EPA Method 1633	04/04/2025	PFBS	3.7	1.6
SWS-04	EPA Method 1633	04/04/2025	PFBA	47	6.4
SWS-04	EPA Method 1633	04/04/2025	PFDS	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFDA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFDoS	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFDoA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFHpS	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFHpA	2.0	1.6
SWS-04	EPA Method 1633	04/04/2025	PFHxS	2.7	1.6
SWS-04	EPA Method 1633	04/04/2025	PFHxA	15.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFNS	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFNA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFOSA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFOS	6.3	1.6
SWS-04	EPA Method 1633	04/04/2025	PFOA	11.8	1.6
SWS-04	EPA Method 1633	04/04/2025	PFPeS	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFPeA	15.7	3.2
SWS-04	EPA Method 1633	04/04/2025	PFTeDA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFTrDA	<1.6	1.6
SWS-04	EPA Method 1633	04/04/2025	PFUnA	<1.6	1.6
SWS-04	EPA Method 1633	08/07/2025	PFBS	4.2	1.7
SWS-04	EPA Method 1633	08/07/2025	PFBA	14.1	6.9
SWS-04	EPA Method 1633	08/07/2025	PFHpA	2.0	1.7
SWS-04	EPA Method 1633	08/07/2025	PFHxS	2.4	1.7
SWS-04	EPA Method 1633	08/07/2025	PFHxA	15.6	1.7
SWS-04	EPA Method 1633	08/07/2025	PFOS	6.0	1.7
SWS-04	EPA Method 1633	08/07/2025	PFOA	11.5	1.7
SWS-04	EPA Method 1633	08/07/2025	PFPeA	23.8	3.5

Table 9. Surface Water Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
SWS-05	EPA Method 1633	05/06/2025	11Cl-PF3OUdS	<26	26.0
SWS-05	EPA Method 1633	05/06/2025	8:2 FTS	<26	26.0
SWS-05	EPA Method 1633	05/06/2025	4:2 FTS	<26	26.0
SWS-05	EPA Method 1633	05/06/2025	6:2 FTS	<26	26.0
SWS-05	EPA Method 1633	05/06/2025	7:3 FTCA	<160	160.0
SWS-05	EPA Method 1633	05/06/2025	5:3 FTCA	<160	160.0
SWS-05	EPA Method 1633	05/06/2025	3:3 FTCA	<32	32.0
SWS-05	EPA Method 1633	05/06/2025	ADONA	<26	26.0
SWS-05	EPA Method 1633	05/06/2025	9Cl-PF3ONS	<26	26.0
SWS-05	EPA Method 1633	05/06/2025	HFPO-DA	<26	26.0
SWS-05	EPA Method 1633	05/06/2025	NEtFOSA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	NEtFOSE	<64	64.0
SWS-05	EPA Method 1633	05/06/2025	NEtFOSAA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	NMeFOSA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	NMeFOSE	<64	64.0
SWS-05	EPA Method 1633	05/06/2025	NMeFOSAA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	NFDHA	<13	13.0
SWS-05	EPA Method 1633	05/06/2025	PFEESA	<13	13.0
SWS-05	EPA Method 1633	05/06/2025	PFMPA	<13	13.0
SWS-05	EPA Method 1633	05/06/2025	PFMBA	<13	13.0
SWS-05	EPA Method 1633	05/06/2025	PFBS	6.7	6.4
SWS-05	EPA Method 1633	05/06/2025	PFBA	<26	26.0
SWS-05	EPA Method 1633	05/06/2025	PFDS	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFDA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFDoS	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFDoA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFHpS	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFHpA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFHxS	11.3	6.4
SWS-05	EPA Method 1633	05/06/2025	PFHxA	6.6	6.4
SWS-05	EPA Method 1633	05/06/2025	PFNS	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFNA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFOSA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFOS	10	6.4
SWS-05	EPA Method 1633	05/06/2025	PFOA	22	6.4
SWS-05	EPA Method 1633	05/06/2025	PFPeS	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFPeA	<13	13.0
SWS-05	EPA Method 1633	05/06/2025	PFTeDA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFTrDA	<6.4	6.4
SWS-05	EPA Method 1633	05/06/2025	PFUnA	<6.4	6.4
SWS-06	EPA Method 1633	08/07/2025	11Cl-PF3OUdS	<6.6	6.6
SWS-06	EPA Method 1633	08/07/2025	8:2 FTS	<6.6	6.6

Table 9. Surface Water Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
SWS-06	EPA Method 1633	08/07/2025	4:2 FTS	<6.6	6.6
SWS-06	EPA Method 1633	08/07/2025	6:2 FTS	<6.6	6.6
SWS-06	EPA Method 1633	08/07/2025	7:3 FTCA	<41.4	41.4
SWS-06	EPA Method 1633	08/07/2025	5:3 FTCA	<41.4	41.4
SWS-06	EPA Method 1633	08/07/2025	3:3 FTCA	<8.3	8.3
SWS-06	EPA Method 1633	08/07/2025	ADONA	<6.6	6.6
SWS-06	EPA Method 1633	08/07/2025	9Cl-PF3ONS	<6.6	6.6
SWS-06	EPA Method 1633	08/07/2025	HFPO-DA	<6.6	6.6
SWS-06	EPA Method 1633	08/07/2025	NEtFOSA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	NEtFOSE	<16.5	16.5
SWS-06	EPA Method 1633	08/07/2025	NEtFOSAA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	NMeFOSA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	NMeFOSE	<16.5	16.5
SWS-06	EPA Method 1633	08/07/2025	NMeFOSAA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	NFDHA	<3.3	3.3
SWS-06	EPA Method 1633	08/07/2025	PFEESA	<3.3	3.3
SWS-06	EPA Method 1633	08/07/2025	PFMPA	<3.3	3.3
SWS-06	EPA Method 1633	08/07/2025	PFMBA	<3.3	3.3
SWS-06	EPA Method 1633	08/07/2025	PFBS	2.6	1.7
SWS-06	EPA Method 1633	08/07/2025	PFBA	9.4	6.6
SWS-06	EPA Method 1633	08/07/2025	PFDS	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFDA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFDoS	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFDoA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFHpS	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFHpA	1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFHxS	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFHxA	15	1.7
SWS-06	EPA Method 1633	08/07/2025	PFNS	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFNA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFOSA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFOS	2.5	1.7
SWS-06	EPA Method 1633	08/07/2025	PFOA	9.5	1.7
SWS-06	EPA Method 1633	08/07/2025	PFPeS	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFPeA	25.7	3.3
SWS-06	EPA Method 1633	08/07/2025	PFTeDA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFTrDA	<1.7	1.7
SWS-06	EPA Method 1633	08/07/2025	PFUnA	<1.7	1.7
SWS-07	EPA Method 1633	08/07/2025	11Cl-PF3OUdS	<7.2	7.2
SWS-07	EPA Method 1633	08/07/2025	8:2 FTS	<7.2	7.2
SWS-07	EPA Method 1633	08/07/2025	4:2 FTS	<7.2	7.2
SWS-07	EPA Method 1633	08/07/2025	6:2 FTS	<7.2	7.2

Table 9. Surface Water Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL
SWS-07	EPA Method 1633	08/07/2025	7:3 FTCA	<44.8	44.8
SWS-07	EPA Method 1633	08/07/2025	5:3 FTCA	<44.8	44.8
SWS-07	EPA Method 1633	08/07/2025	3:3 FTCA	<9.0	9.0
SWS-07	EPA Method 1633	08/07/2025	ADONA	<7.2	7.2
SWS-07	EPA Method 1633	08/07/2025	9Cl-PF3ONS	<7.2	7.2
SWS-07	EPA Method 1633	08/07/2025	HFPO-DA	<7.2	7.2
SWS-07	EPA Method 1633	08/07/2025	NEtFOSA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	NEtFOSE	<17.9	17.9
SWS-07	EPA Method 1633	08/07/2025	NEtFOSAA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	NMeFOSA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	NMeFOSE	<17.9	17.9
SWS-07	EPA Method 1633	08/07/2025	NMeFOSAA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	NFDHA	<3.6	3.6
SWS-07	EPA Method 1633	08/07/2025	PFEESA	<3.6	3.6
SWS-07	EPA Method 1633	08/07/2025	PFMPA	<3.6	3.6
SWS-07	EPA Method 1633	08/07/2025	PFMBA	<3.6	3.6
SWS-07	EPA Method 1633	08/07/2025	PFBS	3.7	1.8
SWS-07	EPA Method 1633	08/07/2025	PFBA	9.1	7.2
SWS-07	EPA Method 1633	08/07/2025	PFDS	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFDA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFDoS	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFDoA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFHpS	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFHpA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFHxS	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFHxA	16.3	1.8
SWS-07	EPA Method 1633	08/07/2025	PFNS	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFNA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFOSA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFOS	2.5	1.8
SWS-07	EPA Method 1633	08/07/2025	PFOA	9.6	1.8
SWS-07	EPA Method 1633	08/07/2025	PFPeS	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFPeA	24.9	3.6
SWS-07	EPA Method 1633	08/07/2025	PFTeDA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFTrDA	<1.8	1.8
SWS-07	EPA Method 1633	08/07/2025	PFUnA	<1.8	1.8

Notes:

Qual. = qualifier (listed if provided in lab reports)

RL = reporting limit

New Mexico has not established PFAS-specific numeric criteria for surface water. Accordingly, no exceedances are indicated in this table.

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-1	EPA 537 Modified	11/14/2023	11Cl-PF3OUdS	<1.9	1.9	
DWS-1	EPA 537 Modified	11/14/2023	9Cl-PF3ONS	<1.9	1.9	
DWS-1	EPA 537 Modified	11/14/2023	ADONA	<1.9	1.9	
DWS-1	EPA 537 Modified	11/14/2023	HFPO-DA	<3.8	3.8	
DWS-1	EPA 537 Modified	11/14/2023	NEtFOSAA	<4.7	4.7	
DWS-1	EPA 537 Modified	11/14/2023	NMeFOSAA	<4.7	4.7	
DWS-1	EPA 537 Modified	11/14/2023	PFHxS	5.6	1.9	
DWS-1	EPA 537 Modified	11/14/2023	PFOS	1.9	1.9	
DWS-1	EPA 537 Modified	11/27/2023	PFBS	3.1	1.9	
DWS-1	EPA 537 Modified	11/27/2023	PFDA	<1.9	1.9	
DWS-1	EPA 537 Modified	11/27/2023	PFDoA	<1.9	1.9	
DWS-1	EPA 537 Modified	11/27/2023	PFHpA	1.2	1.9	J
DWS-1	EPA 537 Modified	11/27/2023	PFHxA	2.4	1.9	
DWS-1	EPA 537 Modified	11/27/2023	PFNA	<1.9	1.9	
DWS-1	EPA 537 Modified	11/27/2023	PFOA	**4.7**	1.9	
DWS-1	EPA 537 Modified	11/27/2023	PFTeDA	<1.9	1.9	
DWS-1	EPA 537 Modified	11/27/2023	PFTrDA	<1.9	1.9	
DWS-1	EPA 537 Modified	11/27/2023	PFUnA	<1.9	1.9	
DWS-10	EPA Method 537.1	06/06/2023	11Cl-PF3OUdS	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	9Cl-PF3ONS	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	ADONA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	HFPO-DA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	NEtFOSAA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	NMeFOSAA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFBS	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFDA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFDoA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFHpA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFHxA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFHxS	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFNA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFOA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFOS	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFTeDA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFTrDA	<1.97	1.97	U
DWS-10	EPA Method 537.1	06/06/2023	PFUnA	<1.97	1.97	U
DWS-11	EPA Method 537.1	06/07/2023	11Cl-PF3OUdS	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	9Cl-PF3ONS	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	ADONA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	HFPO-DA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	NEtFOSAA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	NMeFOSAA	<1.89	1.89	U

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-11	EPA Method 537.1	06/07/2023	PFBS	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFDA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFDoA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFHpA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFHxA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFHxS	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFNA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFOA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFOS	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFTeDA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFTrDA	<1.89	1.89	U
DWS-11	EPA Method 537.1	06/07/2023	PFUnA	<1.89	1.89	U
DWS-12	EPA Method 537.1	06/07/2023	11Cl-PF3OUdS	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	9Cl-PF3ONS	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	ADONA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	HFPO-DA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	NEtFOSAA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	NMeFOSAA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFBS	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFDA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFDoA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFHpA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFHxA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFHxS	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFNA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFOA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFOS	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFTeDA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFTrDA	<1.94	1.94	U
DWS-12	EPA Method 537.1	06/07/2023	PFUnA	<1.94	1.94	U
DWS-13	EPA Method 537.1	06/07/2023	11Cl-PF3OUdS	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	9Cl-PF3ONS	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	ADONA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	HFPO-DA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	NEtFOSAA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	NMeFOSAA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFBS	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFDA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFDoA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFHpA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFHxA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFHxS	<1.97	1.97	U

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-13	EPA Method 537.1	06/07/2023	PFNA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFOA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFOS	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFTeDA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFTrDA	<1.97	1.97	U
DWS-13	EPA Method 537.1	06/07/2023	PFUnA	<1.97	1.97	U
DWS-14	EPA Method 537.1	06/07/2023	PFBS	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/08/2023	PFHxA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/09/2023	PFHpA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/10/2023	PFHxS	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/11/2023	PFOA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/12/2023	PFNA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/13/2023	PFOS	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/14/2023	PFDA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/15/2023	NMeFOSAA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/16/2023	NEtFOSAA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/17/2023	PFUnA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/18/2023	PFDoA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/19/2023	PFTrDA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/20/2023	PFTeDA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/21/2023	HFPO-DA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/22/2023	ADONA	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/23/2023	9Cl-PF3ONS	<1.85	1.85	U
DWS-14	EPA Method 537.1	06/24/2023	11Cl-PF3OUdS	<1.85	1.85	U
DWS-15	EPA Method 537.1	06/07/2023	11Cl-PF3OUdS	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	9Cl-PF3ONS	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	ADONA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	HFPO-DA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	NEtFOSAA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	NMeFOSAA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFBS	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFDA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFDoA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFHpA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFHxA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFHxS	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFNA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFOA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFOS	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFTeDA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFTrDA	<1.92	1.92	U
DWS-15	EPA Method 537.1	06/07/2023	PFUnA	<1.92	1.92	U

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-16	EPA Method 537.1	06/07/2023	PFBS	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/08/2023	PFHxA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/09/2023	PFHpA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/10/2023	PFHxS	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/11/2023	PFOA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/12/2023	PFNA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/13/2023	PFOS	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/14/2023	PFDA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/15/2023	NMeFOSAA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/16/2023	NEtFOSAA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/17/2023	PFUnA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/18/2023	PFDoA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/19/2023	PFTrDA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/20/2023	PFTeDA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/21/2023	HFPO-DA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/22/2023	ADONA	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/23/2023	9Cl-PF3ONS	<1.95	1.95	U
DWS-16	EPA Method 537.1	06/24/2023	11Cl-PF3OUdS	<1.95	1.95	U
DWS-17	EPA Method 537.1	06/07/2023	11Cl-PF3OUdS	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	9Cl-PF3ONS	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	ADONA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	HFPO-DA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	NEtFOSAA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	NMeFOSAA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFBS	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFDA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFDoA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFHpA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFHxA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFHxS	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFNA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFOA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFOS	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFTeDA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFTrDA	<1.92	1.92	U
DWS-17	EPA Method 537.1	06/07/2023	PFUnA	<1.92	1.92	U
DWS-18	EPA Method 537.1	01/25/2024	11Cl-PF3OUdS	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	9Cl-PF3ONS	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	ADONA	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	HFPO-DA	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	NEtFOSAA	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	NMeFOSAA	<1.8	1.8	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-18	EPA Method 537.1	01/25/2024	PFBS	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	PFDA	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	PFDoA	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	PFHpA	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	PFHxA	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	PFHxS	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	PFNA	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	PFOA	1.7	1.8	J
DWS-18	EPA Method 537.1	01/25/2024	PFOS	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	PFTeDA	<1.8	1.8	
DWS-18	EPA Method 537.1	01/25/2024	PFTrDA	0.49	1.8	J
DWS-18	EPA Method 537.1	01/25/2024	PFUnA	<1.8	1.8	
DWS-2	EPA 537 Modified	11/28/2023	4:2 FTS	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	6:2 FTS	<4	4	
DWS-2	EPA 537 Modified	11/28/2023	8:2 FTS	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	NEtFOSAA	<4	4	
DWS-2	EPA 537 Modified	11/28/2023	NMeFOSAA	<4	4	
DWS-2	EPA 537 Modified	11/28/2023	PFBA	3.6	4	J
DWS-2	EPA 537 Modified	11/28/2023	PFBS	4.5	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFDA	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFDoA	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFDS	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFHpA	2.2	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFHpS	0.31	1.6	J
DWS-2	EPA 537 Modified	11/28/2023	PFHxA	5.4	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFHxS	9.5	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFNA	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFNS	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFOA	**10.0**	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFOS	2.6	1.6	I
DWS-2	EPA 537 Modified	11/28/2023	PFOSA	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFPeA	4.9	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFPeS	2.8	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFTeDA	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFTrDA	<1.6	1.6	
DWS-2	EPA 537 Modified	11/28/2023	PFUnA	<1.6	1.6	
DWS-24	EPA Method 537	11/20/2023	NEtFOSAA	<5.0	5.0	
DWS-24	EPA Method 537	11/20/2023	NMeFOSAA	<5.0	5.0	
DWS-24	EPA Method 537	11/20/2023	PFBA	9.1	5.0	
DWS-24	EPA Method 537	11/20/2023	PFBS	11.0	2.0	
DWS-24	EPA Method 537	11/20/2023	PFDA	6.2	2.0	
DWS-24	EPA Method 537	11/20/2023	PFDoA	<2.0	2.0	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-24	EPA Method 537	11/20/2023	PFDS	<2.0	2.0	
DWS-24	EPA Method 537	11/20/2023	PFHpA	4.6	2.0	
DWS-24	EPA Method 537	11/20/2023	PFHpS	0.48	2.0	J
DWS-24	EPA Method 537	11/20/2023	PFHxA	28.0	2.0	
DWS-24	EPA Method 537	11/20/2023	PFHxS	7.1	2.0	
DWS-24	EPA Method 537	11/20/2023	PFNA	5.8	2.0	
DWS-24	EPA Method 537	11/20/2023	PFNS	<2.0	2.0	
DWS-24	EPA Method 537	11/20/2023	PFOA	**25.0**	2.0	
DWS-24	EPA Method 537	11/20/2023	PFOS	**45.0**	2.0	
DWS-24	EPA Method 537	11/20/2023	PFOSA	1.4	2.0	J
DWS-24	EPA Method 537	11/20/2023	PFPeA	31.0	2.0	
DWS-24	EPA Method 537	11/20/2023	PFPeS	0.63	2.0	J
DWS-24	EPA Method 537	11/20/2023	PFTeDA	<2.0	2.0	
DWS-24	EPA Method 537	11/20/2023	PFTrDA	<2.0	2.0	
DWS-24	EPA Method 537	11/20/2023	PFUnA	<2.0	2.0	
DWS-24	EPA Method 1633	06/10/2025	11Cl-PF3OUdS	<6.3	6.3	
DWS-24	EPA Method 1633	06/10/2025	3:3 FTCA	<7.9	7.9	
DWS-24	EPA Method 1633	06/10/2025	4:2 FTS	<6.3	6.3	
DWS-24	EPA Method 1633	06/10/2025	5:3 FTCA	<39.5	39.5	
DWS-24	EPA Method 1633	06/10/2025	6:2 FTS	<6.3	6.3	
DWS-24	EPA Method 1633	06/10/2025	7:3 FTCA	<39.5	39.5	
DWS-24	EPA Method 1633	06/10/2025	8:2 FTS	<6.3	6.3	
DWS-24	EPA Method 1633	06/10/2025	9Cl-PF3ONS	<6.3	6.3	
DWS-24	EPA Method 1633	06/10/2025	ADONA	<6.3	6.3	
DWS-24	EPA Method 1633	06/10/2025	HFPO-DA	<6.3	6.3	
DWS-24	EPA Method 1633	06/10/2025	NEtFOSA	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	NEtFOSAA	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	NEtFOSE	<15.8	15.8	
DWS-24	EPA Method 1633	06/10/2025	NFDHA	<3.2	3.2	
DWS-24	EPA Method 1633	06/10/2025	NMeFOSA	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	NMeFOSAA	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	NMeFOSE	<15.8	15.8	
DWS-24	EPA Method 1633	06/10/2025	PFBA	9	6.3	
DWS-24	EPA Method 1633	06/10/2025	PFBS	5.5	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFDA	3.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFDoA	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFDoS	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFDS	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFEESA	<3.2	3.2	
DWS-24	EPA Method 1633	06/10/2025	PFHpA	2.5	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFHpS	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFHxA	15.9	1.6	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-24	EPA Method 1633	06/10/2025	PFHxS	3.9	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFMBA	<3.2	3.2	
DWS-24	EPA Method 1633	06/10/2025	PFMPA	<3.2	3.2	
DWS-24	EPA Method 1633	06/10/2025	PFNA	3.3	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFNS	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFOA	**16.6**	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFOS	**27.0**	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFOSA	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFPeA	<3.2	3.2	
DWS-24	EPA Method 1633	06/10/2025	PFPeS	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFTeDA	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFTrDA	<1.6	1.6	
DWS-24	EPA Method 1633	06/10/2025	PFUnA	<1.6	1.6	
DWS-26	EPA Method 537.1	11/13/2023	11Cl-PF3OUdS	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	9Cl-PF3ONS	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	ADONA	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	HFPO-DA	<3.9	3.9	
DWS-26	EPA Method 537.1	11/13/2023	NEtFOSAA	<4.9	4.9	
DWS-26	EPA Method 537.1	11/13/2023	NMeFOSAA	<4.9	4.9	
DWS-26	EPA Method 537.1	11/13/2023	PFBS	0.53	2.0	J
DWS-26	EPA Method 537.1	11/13/2023	PFDA	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	PFDoA	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	PFHpA	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	PFHxA	1.8	2.0	J
DWS-26	EPA Method 537.1	11/13/2023	PFHxS	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	PFNA	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	PFOA	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	PFOS	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	PFTeDA	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	PFTrDA	<2.0	2.0	
DWS-26	EPA Method 537.1	11/13/2023	PFUnA	<2.0	2.0	
DWS-28	EPA Method 537.1	06/08/2023	11Cl-PF3OUdS	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	9Cl-PF3ONS	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	ADONA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	HFPO-DA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	NEtFOSAA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	NMeFOSAA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFBS	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFDA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFDoA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFHpA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFHxA	<1.94	1.94	U

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-28	EPA Method 537.1	06/08/2023	PFHxS	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFNA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFOA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFOS	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFTeDA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFTrDA	<1.94	1.94	U
DWS-28	EPA Method 537.1	06/08/2023	PFUnA	<1.94	1.94	U
DWS-3	EPA Method 533	11/20/2023	11Cl-PF3OUdS	<4.46	4.46	
DWS-3	EPA Method 533	11/20/2023	4:2 FTS	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	6:2 FTS	<4.46	4.46	
DWS-3	EPA Method 533	11/20/2023	8:2 FTS	<4.46	4.46	
DWS-3	EPA Method 533	11/20/2023	9Cl-PF3ONS	<1.79	1.79	
DWS-3	EPA Method 533	11/20/2023	ADONA	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	HFPO-DA	<4.46	4.46	
DWS-3	EPA Method 533	11/20/2023	NFDHA	<17.9	17.9	
DWS-3	EPA Method 533	11/20/2023	PFBA	<4.46	4.46	
DWS-3	EPA Method 533	11/20/2023	PFBS	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFDA	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFDoA	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFEESA	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFHpA	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFHpS	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFHxA	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFHxS	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFMBA	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFMPA	<3.57	3.57	
DWS-3	EPA Method 533	11/20/2023	PFNA	<3.57	3.57	
DWS-3	EPA Method 533	11/20/2023	PFOA	<3.57	3.57	
DWS-3	EPA Method 533	11/20/2023	PFOS	<3.57	3.57	
DWS-3	EPA Method 533	11/20/2023	PFPeA	<2.68	2.68	
DWS-3	EPA Method 533	11/20/2023	PFPeS	<3.57	3.57	
DWS-3	EPA Method 533	11/20/2023	PFUnA	<1.79	1.79	
DWS-33	EPA Method 533	04/04/2024	11Cl-PF3OUdS	<2.00	2.00	
DWS-33	EPA Method 533	04/04/2024	4:2FTS	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	6:2FTS	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	8:2FTS	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	9Cl-PF3ONS	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	ADONA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	HFPO-DA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	NFDHA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFBA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFBS	<2	2.00	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-33	EPA Method 533	04/04/2024	PFDA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFDoA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFEESA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFHpA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFHpS	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFHxS	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFMBA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFMPA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFNA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFOA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFOS	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFPeA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFPeS	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PFUnA	<2	2.00	
DWS-33	EPA Method 533	04/04/2024	PHHxA	<2	2.00	
DWS-34	EPA Method 537	11/20/2023	NEtFOSAA	<4.7	4.7	
DWS-34	EPA Method 537	11/20/2023	NMeFOSAA	<4.7	4.7	
DWS-34	EPA Method 537	11/20/2023	PFBA	3.5	4.7	J
DWS-34	EPA Method 537	11/20/2023	PFBS	4.9	1.9	
DWS-34	EPA Method 537	11/20/2023	PFDA	<1.9	1.9	
DWS-34	EPA Method 537	11/20/2023	PFDoA	<1.9	1.9	
DWS-34	EPA Method 537	11/20/2023	PFDS	<1.9	1.9	
DWS-34	EPA Method 537	11/20/2023	PFHpA	2.1	1.9	
DWS-34	EPA Method 537	11/20/2023	PFHpS	0.23	1.9	J
DWS-34	EPA Method 537	11/20/2023	PFHxA	6.4	1.9	
DWS-34	EPA Method 537	11/20/2023	PFHxS	8.8	1.9	
DWS-34	EPA Method 537	11/20/2023	PFNA	<1.9	1.9	
DWS-34	EPA Method 537	11/20/2023	PFNS	<1.9	1.9	
DWS-34	EPA Method 537	11/20/2023	PFOA	**8.4**	1.9	
DWS-34	EPA Method 537	11/20/2023	PFOS	2.1	1.9	I
DWS-34	EPA Method 537	11/20/2023	PFOSA	<1.9	1.9	
DWS-34	EPA Method 537	11/20/2023	PFPeA	6.6	1.9	
DWS-34	EPA Method 537	11/20/2023	PFPeS	2.6	1.9	
DWS-34	EPA Method 537	11/20/2023	PFTeDA	<1.9	1.9	
DWS-34	EPA Method 537	11/20/2023	PFTrDA	<1.9	1.9	
DWS-34	EPA Method 537	11/20/2023	PFUnA	<1.9	1.9	
DWS-4	EPA Method 1633	01/03/2024	FBSA	**6.9**	NRL	
DWS-4	EPA Method 1633	01/03/2024	HFPO-DA	ND	NRL	
DWS-4	EPA Method 1633	01/03/2024	PFBA	**2**	NRL	
DWS-4	EPA Method 1633	01/03/2024	PFBS	14.1	NRL	
DWS-4	EPA Method 1633	01/03/2024	PFDA	ND	NRL	
DWS-4	EPA Method 1633	01/03/2024	PFHpA	3.6	NRL	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-4	EPA Method 1633	01/03/2024	PFHxA	15.1	NRL	
DWS-4	EPA Method 1633	01/03/2024	PFHxS	5.1	NRL	
DWS-4	EPA Method 1633	01/03/2024	PFNA	4.9	NRL	
DWS-4	EPA Method 1633	01/03/2024	PFOA	**18.7**	NRL	
DWS-4	EPA Method 1633	01/03/2024	PFOS	**24.0**	NRL	
DWS-4	EPA Method 1633	01/03/2024	PFPeA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	3:3 FTCA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	4:2 FTS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	5:3 FTCA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	6:2 FTS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	7:3 FTCA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	8:2 FTS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	9Cl-PF3ONS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	ADONA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	NEtFOSA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	NEtFOSAA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	NEtFOSE	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	NFDHA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	NMeFOSA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	NMeFOSAA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	NMeFOSE	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFDoA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFDoS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFDS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFEESA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFHpS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFMBA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFMPA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFNS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFOSA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFPeS	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFTeDA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFTrDA	ND	NRL	
DWS-4	EPA Method 1633	04/03/2025	PFUnA	ND	NRL	
DWS-51	QSM B15	10/05/2023	11Cl-PF3OUdS	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	3:3 FTCA	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	4:2 FTS	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	5:3 FTCA	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	6:2 FTS	0.88	4.4	U
DWS-51	QSM B15	10/05/2023	7:3 FTCA	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	8:2 FTS	1.3	1.8	U

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-51	QSM B15	10/05/2023	9Cl-PF3ONS	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	ADONA	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	HFPO-DA	1.3	3.5	U
DWS-51	QSM B15	10/05/2023	NEtFOSA	1.3	1.8	U M
DWS-51	QSM B15	10/05/2023	NEtFOSAA	0.88	4.4	U
DWS-51	QSM B15	10/05/2023	NEtFOSE	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	NFDHA	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	NMeFOSA	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	NMeFOSAA	0.88	4.4	U
DWS-51	QSM B15	10/05/2023	NMeFOSE	0.88	3.5	U
DWS-51	QSM B15	10/05/2023	PFBA	6.4	1.8	
DWS-51	QSM B15	10/05/2023	PFBS	17.0	1.8	
DWS-51	QSM B15	10/05/2023	PFDA	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	PFDoA	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	PFDoS	2.6	3.5	U
DWS-51	QSM B15	10/05/2023	PFDS	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	PFEESA	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	PFHpA	4.9	1.8	
DWS-51	QSM B15	10/05/2023	PFHpS	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	PFHxA	19.0	1.8	
DWS-51	QSM B15	10/05/2023	PFHxS	10.0	1.8	
DWS-51	QSM B15	10/05/2023	PFMBA	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	PFMPA	0.88	1.8	U
DWS-51	QSM B15	10/05/2023	PFNA	1.2	1.8	J
DWS-51	QSM B15	10/05/2023	PFNS	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	PFOA	**24.0**	1.8	M
DWS-51	QSM B15	10/05/2023	PFOS	**6**	1.8	
DWS-51	QSM B15	10/05/2023	PFOSA	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	PFPeA	25.0	1.8	
DWS-51	QSM B15	10/05/2023	PFPeS	0.94	1.8	J
DWS-51	QSM B15	10/05/2023	PFTeDA	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	PFTrDA	1.3	1.8	U
DWS-51	QSM B15	10/05/2023	PFUnA	1.3	1.8	U
DWS-52	QSM B15	10/05/2023	11Cl-PF3OUdS	0.85	1.7	U M
DWS-52	QSM B15	10/05/2023	3:3 FTCA	0.85	1.7	U
DWS-52	QSM B15	10/05/2023	4:2 FTS	0.85	1.7	U
DWS-52	QSM B15	10/05/2023	5:3 FTCA	0.85	1.7	U
DWS-52	QSM B15	10/05/2023	6:2 FTS	0.85	4.2	U
DWS-52	QSM B15	10/05/2023	7:3 FTCA	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	8:2 FTS	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	9Cl-PF3ONS	0.85	1.7	U
DWS-52	QSM B15	10/05/2023	ADONA	1.3	1.7	U

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-52	QSM B15	10/05/2023	HFPO-DA	1.3	3.4	U
DWS-52	QSM B15	10/05/2023	NEtFOSA	1.3	1.7	U M
DWS-52	QSM B15	10/05/2023	NEtFOSAA	0.85	4.2	U
DWS-52	QSM B15	10/05/2023	NEtFOSE	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	NFDHA	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	NMeFOSA	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	NMeFOSAA	0.85	4.2	U
DWS-52	QSM B15	10/05/2023	NMeFOSE	0.85	3.4	U
DWS-52	QSM B15	10/05/2023	PFBA	10.0	1.7	
DWS-52	QSM B15	10/05/2023	PFBS	22.0	1.7	
DWS-52	QSM B15	10/05/2023	PFDA	0.56	1.7	J M
DWS-52	QSM B15	10/05/2023	PFDoA	0.85	1.7	U
DWS-52	QSM B15	10/05/2023	PFDoS	2.5	3.4	U
DWS-52	QSM B15	10/05/2023	PFDS	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	PFEESA	0.85	1.7	U
DWS-52	QSM B15	10/05/2023	PFHpA	5.6	1.7	
DWS-52	QSM B15	10/05/2023	PFHpS	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	PFHxA	25.0	1.7	
DWS-52	QSM B15	10/05/2023	PFHxS	9.3	1.7	
DWS-52	QSM B15	10/05/2023	PFMBA	0.85	1.7	U
DWS-52	QSM B15	10/05/2023	PFMPA	0.85	1.7	U M
DWS-52	QSM B15	10/05/2023	PFNA	4.7	1.7	
DWS-52	QSM B15	10/05/2023	PFNS	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	PFOA	**25.0**	1.7	M
DWS-52	QSM B15	10/05/2023	PFOS	**25.0**	1.7	M
DWS-52	QSM B15	10/05/2023	PFOSA	0.48	1.7	J M
DWS-52	QSM B15	10/05/2023	PFPeA	33.0	1.7	
DWS-52	QSM B15	10/05/2023	PFPeS	0.63	1.7	J
DWS-52	QSM B15	10/05/2023	PFTeDA	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	PFTrDA	1.3	1.7	U
DWS-52	QSM B15	10/05/2023	PFUnA	1.3	1.7	U M
DWS-53	QSM B15	10/05/2023	11Cl-PF3OUdS	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	3:3 FTCA	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	4:2 FTS	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	5:3 FTCA	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	6:2 FTS	0.91	4.5	U
DWS-53	QSM B15	10/05/2023	7:3 FTCA	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	8:2 FTS	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	9Cl-PF3ONS	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	ADONA	1.4	1.8	U M
DWS-53	QSM B15	10/05/2023	HFPO-DA	1.4	3.6	U
DWS-53	QSM B15	10/05/2023	NEtFOSA	1.4	1.8	U M

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-53	QSM B15	10/05/2023	NEtFOSAA	0.91	4.5	U
DWS-53	QSM B15	10/05/2023	NEtFOSE	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	NFDHA	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	NMeFOSA	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	NMeFOSAA	0.91	4.5	U
DWS-53	QSM B15	10/05/2023	NMeFOSE	0.91	3.6	U
DWS-53	QSM B15	10/05/2023	PFBA	0.45	1.8	U M
DWS-53	QSM B15	10/05/2023	PFBS	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	PFDA	0.91	1.8	U M
DWS-53	QSM B15	10/05/2023	PFDoA	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	PFDoS	2.7	3.6	U
DWS-53	QSM B15	10/05/2023	PFDS	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	PFEESA	0.91	1.8	U M
DWS-53	QSM B15	10/05/2023	PFHpA	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	PFHpS	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	PFHxA	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	PFHxS	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	PFMBA	0.91	1.8	U
DWS-53	QSM B15	10/05/2023	PFMPA	0.91	1.8	U M
DWS-53	QSM B15	10/05/2023	PFNA	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	PFNS	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	PFOA	1.8	1.8	M
DWS-53	QSM B15	10/05/2023	PFOS	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	PFOSA	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	PFPeA	0.45	1.8	U
DWS-53	QSM B15	10/05/2023	PFPeS	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	PFTeDA	1.4	1.8	U M
DWS-53	QSM B15	10/05/2023	PFTrDA	1.4	1.8	U
DWS-53	QSM B15	10/05/2023	PFUnA	1.4	1.8	U
DWS-54	QSM B15	10/05/2023	11Cl-PF3OUdS	0.86	1.7	U
DWS-54	QSM B15	10/05/2023	3:3 FTCA	0.86	1.7	U
DWS-54	QSM B15	10/05/2023	4:2 FTS	0.86	1.7	U
DWS-54	QSM B15	10/05/2023	5:3 FTCA	0.86	1.7	U
DWS-54	QSM B15	10/05/2023	6:2 FTS	0.86	4.3	U M
DWS-54	QSM B15	10/05/2023	7:3 FTCA	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	8:2 FTS	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	9Cl-PF3ONS	0.86	1.7	U
DWS-54	QSM B15	10/05/2023	ADONA	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	HFPO-DA	1.3	3.4	U
DWS-54	QSM B15	10/05/2023	NEtFOSA	1.3	1.7	U M
DWS-54	QSM B15	10/05/2023	NEtFOSAA	0.86	4.3	U
DWS-54	QSM B15	10/05/2023	NEtFOSE	1.3	1.7	U

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-54	QSM B15	10/05/2023	NFDHA	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	NMeFOSA	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	NMeFOSAA	0.86	4.3	U
DWS-54	QSM B15	10/05/2023	NMeFOSE	0.86	3.4	U
DWS-54	QSM B15	10/05/2023	PFBA	4.5	1.7	
DWS-54	QSM B15	10/05/2023	PFBS	6.3	1.7	
DWS-54	QSM B15	10/05/2023	PFDA	0.86	1.7	U M
DWS-54	QSM B15	10/05/2023	PFDoA	0.86	1.7	U
DWS-54	QSM B15	10/05/2023	PFDoS	2.6	3.4	U
DWS-54	QSM B15	10/05/2023	PFDS	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	PFEESA	0.86	1.7	U M
DWS-54	QSM B15	10/05/2023	PFHpA	2.7	1.7	
DWS-54	QSM B15	10/05/2023	PFHpS	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	PFHxA	8.8	1.7	
DWS-54	QSM B15	10/05/2023	PFHxS	9.9	1.7	
DWS-54	QSM B15	10/05/2023	PFMBA	0.86	1.7	U
DWS-54	QSM B15	10/05/2023	PFMPA	0.35	1.7	J
DWS-54	QSM B15	10/05/2023	PFNA	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	PFNS	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	PFOA	**14.0**	1.7	M
DWS-54	QSM B15	10/05/2023	PFOS	**7.4**	1.7	I
DWS-54	QSM B15	10/05/2023	PFOSA	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	PFPeA	8.3	1.7	
DWS-54	QSM B15	10/05/2023	PFPeS	2.1	1.7	
DWS-54	QSM B15	10/05/2023	PFTeDA	1.3	1.7	U
DWS-54	QSM B15	10/05/2023	PFTrDA	1.3	1.7	U M
DWS-54	QSM B15	10/05/2023	PFUnA	1.3	1.7	U
DWS-55	QSM B15	10/05/2023	11Cl-PF3OUdS	0.9	1.8	U
DWS-55	QSM B15	10/05/2023	3:3 FTCA	0.9	1.8	U
DWS-55	QSM B15	10/05/2023	4:2 FTS	0.9	1.8	U
DWS-55	QSM B15	10/05/2023	5:3 FTCA	0.9	1.8	U
DWS-55	QSM B15	10/05/2023	6:2 FTS	0.9	4.5	U
DWS-55	QSM B15	10/05/2023	7:3 FTCA	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	8:2 FTS	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	9Cl-PF3ONS	0.9	1.8	U
DWS-55	QSM B15	10/05/2023	ADONA	1.4	1.8	U M
DWS-55	QSM B15	10/05/2023	HFPO-DA	1.4	3.6	U
DWS-55	QSM B15	10/05/2023	NEtFOSA	1.4	1.8	U M
DWS-55	QSM B15	10/05/2023	NEtFOSAA	0.9	4.5	U
DWS-55	QSM B15	10/05/2023	NEtFOSE	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	NFDHA	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	NMeFOSA	1.4	1.8	U

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-55	QSM B15	10/05/2023	NMeFOSAA	0.9	4.5	U
DWS-55	QSM B15	10/05/2023	NMeFOSE	0.9	3.6	U
DWS-55	QSM B15	10/05/2023	PFBA	1	1.8	J M
DWS-55	QSM B15	10/05/2023	PFBS	0.54	1.8	J
DWS-55	QSM B15	10/05/2023	PFDA	0.9	1.8	U M
DWS-55	QSM B15	10/05/2023	PFDoA	0.9	1.8	U
DWS-55	QSM B15	10/05/2023	PFDoS	2.7	3.6	U
DWS-55	QSM B15	10/05/2023	PFDS	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	PFEESA	0.9	1.8	U M
DWS-55	QSM B15	10/05/2023	PFHpA	0.9	1.8	U
DWS-55	QSM B15	10/05/2023	PFHpS	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	PFHxA	2.3	1.8	
DWS-55	QSM B15	10/05/2023	PFHxS	0.52	1.8	J M
DWS-55	QSM B15	10/05/2023	PFMBA	0.9	1.8	U
DWS-55	QSM B15	10/05/2023	PFMPA	0.9	1.8	U
DWS-55	QSM B15	10/05/2023	PFNA	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	PFNS	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	PFOA	2.1	1.8	M
DWS-55	QSM B15	10/05/2023	PFOS	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	PFOSA	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	PFPeA	2.8	1.8	
DWS-55	QSM B15	10/05/2023	PFPeS	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	PFTeDA	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	PFTrDA	1.4	1.8	U
DWS-55	QSM B15	10/05/2023	PFUnA	1.4	1.8	U M
DWS-56	QSM B15	10/05/2023	11Cl-PF3OUdS	0.89	1.8	U
DWS-56	QSM B15	10/05/2023	3:3 FTCA	0.89	1.8	U
DWS-56	QSM B15	10/05/2023	4:2 FTS	0.89	1.8	U
DWS-56	QSM B15	10/05/2023	5:3 FTCA	0.89	1.8	U
DWS-56	QSM B15	10/05/2023	6:2 FTS	0.89	4.4	U
DWS-56	QSM B15	10/05/2023	7:3 FTCA	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	8:2 FTS	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	9Cl-PF3ONS	0.89	1.8	U
DWS-56	QSM B15	10/05/2023	ADONA	1.3	1.8	U M
DWS-56	QSM B15	10/05/2023	HFPO-DA	1.3	3.5	U
DWS-56	QSM B15	10/05/2023	NEtFOSA	1.3	1.8	U M
DWS-56	QSM B15	10/05/2023	NEtFOSAA	0.89	4.4	U
DWS-56	QSM B15	10/05/2023	NEtFOSE	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	NFDHA	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	NMeFOSA	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	NMeFOSAA	0.89	4.4	U
DWS-56	QSM B15	10/05/2023	NMeFOSE	0.89	3.5	U

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-56	QSM B15	10/05/2023	PFBA	0.31	1.8	J M
DWS-56	QSM B15	10/05/2023	PFBS	0.42	1.8	J M
DWS-56	QSM B15	10/05/2023	PFDA	0.89	1.8	U M
DWS-56	QSM B15	10/05/2023	PFDoA	0.89	1.8	U
DWS-56	QSM B15	10/05/2023	PFDoS	2.7	3.5	U
DWS-56	QSM B15	10/05/2023	PFDS	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	PFEESA	0.89	1.8	U
DWS-56	QSM B15	10/05/2023	PFHpA	0.89	1.8	U
DWS-56	QSM B15	10/05/2023	PFHpS	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	PFHxA	0.7	1.8	J M
DWS-56	QSM B15	10/05/2023	PFHxS	0.39	1.8	J M
DWS-56	QSM B15	10/05/2023	PFMBA	0.89	1.8	U M
DWS-56	QSM B15	10/05/2023	PFMPA	0.89	1.8	U
DWS-56	QSM B15	10/05/2023	PFNA	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	PFNS	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	PFOA	1.9	1.8	M
DWS-56	QSM B15	10/05/2023	PFOS	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	PFOSA	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	PFPeA	0.6	1.8	J M
DWS-56	QSM B15	10/05/2023	PFPeS	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	PFTeDA	1.3	1.8	U
DWS-56	QSM B15	10/05/2023	PFTrDA	1.3	1.8	U M
DWS-56	QSM B15	10/05/2023	PFUnA	1.3	1.8	U
DWS-6	EPA Method 537.1	06/08/2023	11Cl-PF3OUdS	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	9Cl-PF3ONS	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	ADONA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	HFPO-DA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	NEtFOSAA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	NMeFOSAA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFBS	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFDA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFDoA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFHpA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFHxA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFHxS	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFNA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFOA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFOS	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFTeDA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFTrDA	<1.97	1.97	U
DWS-6	EPA Method 537.1	06/08/2023	PFUnA	<1.97	1.97	U
DWS-60	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	<6.8	6.8	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-60	EPA Method 1633	04/03/2025	3:3 FTCA	<8.5	8.5	
DWS-60	EPA Method 1633	04/03/2025	4:2 FTS	<6.8	6.8	
DWS-60	EPA Method 1633	04/03/2025	5:3 FTCA	<42.7	42.7	
DWS-60	EPA Method 1633	04/03/2025	6:2 FTS	<6.8	6.8	
DWS-60	EPA Method 1633	04/03/2025	7:3 FTCA	<42.7	42.7	
DWS-60	EPA Method 1633	04/03/2025	8:2 FTS	<6.8	6.8	
DWS-60	EPA Method 1633	04/03/2025	9Cl-PF3ONS	<6.8	6.8	
DWS-60	EPA Method 1633	04/03/2025	ADONA	<6.8	6.8	
DWS-60	EPA Method 1633	04/03/2025	HFPO-DA	<6.8	6.8	
DWS-60	EPA Method 1633	04/03/2025	NEtFOSA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	NEtFOSAA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	NEtFOSE	<17.1	17.1	
DWS-60	EPA Method 1633	04/03/2025	NFDHA	<3.4	3.4	
DWS-60	EPA Method 1633	04/03/2025	NMeFOSA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	NMeFOSAA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	NMeFOSE	<17.1	17.1	
DWS-60	EPA Method 1633	04/03/2025	PFBA	<6.8	6.8	
DWS-60	EPA Method 1633	04/03/2025	PFBS	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFDA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFDoA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFDoS	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFDS	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFEESA	<3.4	3.4	
DWS-60	EPA Method 1633	04/03/2025	PFHpA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFHpS	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFHxA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFHxS	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFMBA	<3.4	3.4	
DWS-60	EPA Method 1633	04/03/2025	PFMPA	<3.4	3.4	
DWS-60	EPA Method 1633	04/03/2025	PFNA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFNS	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFOA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFOS	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFOSA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFPeA	<3.4	3.4	
DWS-60	EPA Method 1633	04/03/2025	PFPeS	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFTeDA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFTrDA	<1.7	1.7	
DWS-60	EPA Method 1633	04/03/2025	PFUnA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	<6.9	6.9	
DWS-61	EPA Method 1633	04/03/2025	3:3 FTCA	<8.6	8.6	
DWS-61	EPA Method 1633	04/03/2025	4:2 FTS	<6.9	6.9	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-61	EPA Method 1633	04/03/2025	5:3 FTCA	<43.2	43.2	
DWS-61	EPA Method 1633	04/03/2025	6:2 FTS	<6.9	6.9	
DWS-61	EPA Method 1633	04/03/2025	7:3 FTCA	<43.2	43.2	
DWS-61	EPA Method 1633	04/03/2025	8:2 FTS	<6.9	6.9	
DWS-61	EPA Method 1633	04/03/2025	9Cl-PF3ONS	<6.9	6.9	
DWS-61	EPA Method 1633	04/03/2025	ADONA	<6.9	6.9	
DWS-61	EPA Method 1633	04/03/2025	HFPO-DA	<6.9	6.9	
DWS-61	EPA Method 1633	04/03/2025	NEtFOSA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	NEtFOSAA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	NEtFOSE	<17.3	17.3	
DWS-61	EPA Method 1633	04/03/2025	NFDHA	<3.5	3.5	
DWS-61	EPA Method 1633	04/03/2025	NMeFOSA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	NMeFOSAA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	NMeFOSE	<17.3	17.3	
DWS-61	EPA Method 1633	04/03/2025	PFBA	<6.9	6.9	
DWS-61	EPA Method 1633	04/03/2025	PFBS	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFDA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFDoA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFDoS	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFDS	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFEESA	<3.5	3.5	
DWS-61	EPA Method 1633	04/03/2025	PFHpA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFHpS	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFHxA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFHxS	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFMBA	<3.5	3.5	
DWS-61	EPA Method 1633	04/03/2025	PFMPA	<3.5	3.5	
DWS-61	EPA Method 1633	04/03/2025	PFNA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFNS	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFOA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFOS	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFOSA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFPeA	<3.5	3.5	
DWS-61	EPA Method 1633	04/03/2025	PFPeS	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFTeDA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFTrDA	<1.7	1.7	
DWS-61	EPA Method 1633	04/03/2025	PFUnA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	<6.6	6.6	
DWS-62	EPA Method 1633	04/03/2025	3:3 FTCA	<8.3	8.3	
DWS-62	EPA Method 1633	04/03/2025	4:2 FTS	<6.6	6.6	
DWS-62	EPA Method 1633	04/03/2025	5:3 FTCA	<41.5	41.5	
DWS-62	EPA Method 1633	04/03/2025	6:2 FTS	<6.6	6.6	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-62	EPA Method 1633	04/03/2025	7:3 FTCA	<41.5	41.5	
DWS-62	EPA Method 1633	04/03/2025	8:2 FTS	<6.6	6.6	
DWS-62	EPA Method 1633	04/03/2025	9Cl-PF3ONS	<6.6	6.6	
DWS-62	EPA Method 1633	04/03/2025	ADONA	<6.6	6.6	
DWS-62	EPA Method 1633	04/03/2025	HFPO-DA	<6.6	6.6	
DWS-62	EPA Method 1633	04/03/2025	NEtFOSA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	NEtFOSAA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	NEtFOSE	<16.6	16.6	
DWS-62	EPA Method 1633	04/03/2025	NFDHA	<3.3	3.3	
DWS-62	EPA Method 1633	04/03/2025	NMeFOSA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	NMeFOSAA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	NMeFOSE	<16.6	16.6	
DWS-62	EPA Method 1633	04/03/2025	PFBA	<6.6	6.6	
DWS-62	EPA Method 1633	04/03/2025	PFBS	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFDA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFDoA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFDoS	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFDS	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFEESA	<3.3	3.3	
DWS-62	EPA Method 1633	04/03/2025	PFHpA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFHpS	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFHxA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFHxS	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFMBA	<3.3	3.3	
DWS-62	EPA Method 1633	04/03/2025	PFMPA	<3.3	3.3	
DWS-62	EPA Method 1633	04/03/2025	PFNA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFNS	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFOA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFOS	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFOSA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFPeA	<3.3	3.3	
DWS-62	EPA Method 1633	04/03/2025	PFPeS	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFTeDA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFTrDA	<1.7	1.7	
DWS-62	EPA Method 1633	04/03/2025	PFUnA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	<6.7	6.7	
DWS-63	EPA Method 1633	04/03/2025	3:3 FTCA	<8.4	8.4	
DWS-63	EPA Method 1633	04/03/2025	4:2 FTS	<6.7	6.7	
DWS-63	EPA Method 1633	04/03/2025	5:3 FTCA	<42.1	42.1	
DWS-63	EPA Method 1633	04/03/2025	6:2 FTS	<6.7	6.7	
DWS-63	EPA Method 1633	04/03/2025	7:3 FTCA	<42.1	42.1	
DWS-63	EPA Method 1633	04/03/2025	8:2 FTS	<6.7	6.7	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-63	EPA Method 1633	04/03/2025	9Cl-PF3ONS	<6.7	6.7	
DWS-63	EPA Method 1633	04/03/2025	ADONA	<6.7	6.7	
DWS-63	EPA Method 1633	04/03/2025	HFPO-DA	<6.7	6.7	
DWS-63	EPA Method 1633	04/03/2025	NEtFOSA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	NEtFOSAA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	NEtFOSE	<16.8	16.8	
DWS-63	EPA Method 1633	04/03/2025	NFDHA	<3.4	3.4	
DWS-63	EPA Method 1633	04/03/2025	NMeFOSA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	NMeFOSAA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	NMeFOSE	<16.8	16.8	
DWS-63	EPA Method 1633	04/03/2025	PFBA	<6.7	6.7	
DWS-63	EPA Method 1633	04/03/2025	PFBS	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFDA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFDoA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFDoS	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFDS	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFEESA	<3.4	3.4	
DWS-63	EPA Method 1633	04/03/2025	PFHpA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFHpS	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFHxA	1.8	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFHxS	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFMBA	<3.4	3.4	
DWS-63	EPA Method 1633	04/03/2025	PFMPA	<3.4	3.4	
DWS-63	EPA Method 1633	04/03/2025	PFNA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFNS	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFOA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFOS	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFOSA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFPeA	<3.4	3.4	
DWS-63	EPA Method 1633	04/03/2025	PFPeS	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFTeDA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFTrDA	<1.7	1.7	
DWS-63	EPA Method 1633	04/03/2025	PFUnA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	<6.9	6.9	
DWS-64	EPA Method 1633	04/03/2025	3:3 FTCA	<8.7	8.7	
DWS-64	EPA Method 1633	04/03/2025	4:2 FTS	<6.9	6.9	
DWS-64	EPA Method 1633	04/03/2025	5:3 FTCA	<43.4	43.4	
DWS-64	EPA Method 1633	04/03/2025	6:2 FTS	<6.9	6.9	
DWS-64	EPA Method 1633	04/03/2025	7:3 FTCA	<43.4	43.4	
DWS-64	EPA Method 1633	04/03/2025	8:2 FTS	<6.9	6.9	
DWS-64	EPA Method 1633	04/03/2025	9Cl-PF3ONS	<6.9	6.9	
DWS-64	EPA Method 1633	04/03/2025	ADONA	<6.9	6.9	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-64	EPA Method 1633	04/03/2025	HFPO-DA	<6.9	6.9	
DWS-64	EPA Method 1633	04/03/2025	NEtFOSA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	NEtFOSAA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	NEtFOSE	<17.4	17.4	
DWS-64	EPA Method 1633	04/03/2025	NFDHA	<3.5	3.5	
DWS-64	EPA Method 1633	04/03/2025	NMeFOSA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	NMeFOSAA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	NMeFOSE	<17.4	17.4	
DWS-64	EPA Method 1633	04/03/2025	PFBA	<6.9	6.9	
DWS-64	EPA Method 1633	04/03/2025	PFBS	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFDA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFDoA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFDoS	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFDS	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFEESA	<3.5	3.5	
DWS-64	EPA Method 1633	04/03/2025	PFHpA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFHpS	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFHxA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFHxS	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFMBA	<3.5	3.5	
DWS-64	EPA Method 1633	04/03/2025	PFMPA	<3.5	3.5	
DWS-64	EPA Method 1633	04/03/2025	PFNA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFNS	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFOA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFOS	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFOSA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFPeA	<3.5	3.5	
DWS-64	EPA Method 1633	04/03/2025	PFPeS	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFTeDA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFTrDA	<1.7	1.7	
DWS-64	EPA Method 1633	04/03/2025	PFUnA	<1.7	1.7	
DWS-65	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	<6.2	6.2	
DWS-65	EPA Method 1633	04/03/2025	3:3 FTCA	<7.7	7.7	
DWS-65	EPA Method 1633	04/03/2025	4:2 FTS	<6.2	6.2	
DWS-65	EPA Method 1633	04/03/2025	5:3 FTCA	<38.5	38.5	
DWS-65	EPA Method 1633	04/03/2025	6:2 FTS	<6.2	6.2	
DWS-65	EPA Method 1633	04/03/2025	7:3 FTCA	<38.5	38.5	
DWS-65	EPA Method 1633	04/03/2025	8:2 FTS	<6.2	6.2	
DWS-65	EPA Method 1633	04/03/2025	9Cl-PF3ONS	<6.2	6.2	
DWS-65	EPA Method 1633	04/03/2025	ADONA	<6.2	6.2	
DWS-65	EPA Method 1633	04/03/2025	HFPO-DA	<6.2	6.2	
DWS-65	EPA Method 1633	04/03/2025	NEtFOSA	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-65	EPA Method 1633	04/03/2025	NEtFOSAA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	NEtFOSE	<15.4	15.4	
DWS-65	EPA Method 1633	04/03/2025	NFDHA	<3.1	3.1	
DWS-65	EPA Method 1633	04/03/2025	NMeFOSA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	NMeFOSAA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	NMeFOSE	<15.4	15.4	
DWS-65	EPA Method 1633	04/03/2025	PFBA	<6.2	6.2	
DWS-65	EPA Method 1633	04/03/2025	PFBS	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFDA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFDoA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFDoS	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFDS	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFEESA	<3.1	3.1	
DWS-65	EPA Method 1633	04/03/2025	PFHpA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFHpS	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFHxA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFHxS	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFMBA	<3.1	3.1	
DWS-65	EPA Method 1633	04/03/2025	PFMPA	<3.1	3.1	
DWS-65	EPA Method 1633	04/03/2025	PFNA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFNS	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFOA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFOS	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFOSA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFPeA	<3.1	3.1	
DWS-65	EPA Method 1633	04/03/2025	PFPeS	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFTeDA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFTrDA	<1.5	1.5	
DWS-65	EPA Method 1633	04/03/2025	PFUnA	<1.5	1.5	
DWS-66	EPA Method 1633	04/03/2025	11Cl-PF3OUdS	<6.5	6.5	
DWS-66	EPA Method 1633	04/03/2025	3:3 FTCA	<8.2	8.2	
DWS-66	EPA Method 1633	04/03/2025	4:2 FTS	<6.5	6.5	
DWS-66	EPA Method 1633	04/03/2025	5:3 FTCA	<40.8	40.8	
DWS-66	EPA Method 1633	04/03/2025	6:2 FTS	<6.5	6.5	
DWS-66	EPA Method 1633	04/03/2025	7:3 FTCA	<40.8	40.8	
DWS-66	EPA Method 1633	04/03/2025	8:2 FTS	<6.5	6.5	
DWS-66	EPA Method 1633	04/03/2025	9Cl-PF3ONS	<6.5	6.5	
DWS-66	EPA Method 1633	04/03/2025	ADONA	<6.5	6.5	
DWS-66	EPA Method 1633	04/03/2025	HFPO-DA	<6.5	6.5	
DWS-66	EPA Method 1633	04/03/2025	NEtFOSA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	NEtFOSAA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	NEtFOSE	<16.3	16.3	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-66	EPA Method 1633	04/03/2025	NFDHA	<3.3	3.3	
DWS-66	EPA Method 1633	04/03/2025	NMeFOSA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	NMeFOSAA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	NMeFOSE	<16.3	16.3	
DWS-66	EPA Method 1633	04/03/2025	PFBA	<6.5	6.5	
DWS-66	EPA Method 1633	04/03/2025	PFBS	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFDA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFDoA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFDoS	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFDS	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFEESA	<3.3	3.3	
DWS-66	EPA Method 1633	04/03/2025	PFHpA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFHpS	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFHxA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFHxS	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFMBA	<3.3	3.3	
DWS-66	EPA Method 1633	04/03/2025	PFMPA	<3.3	3.3	
DWS-66	EPA Method 1633	04/03/2025	PFNA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFNS	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFOA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFOS	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFOSA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFPeA	<3.3	3.3	
DWS-66	EPA Method 1633	04/03/2025	PFPeS	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFTeDA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFTrDA	<1.6	1.6	
DWS-66	EPA Method 1633	04/03/2025	PFUnA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	11Cl-PF3OUdS	<6.5	6.5	
DWS-67	EPA Method 1633	04/04/2025	3:3 FTCA	<8.1	8.1	
DWS-67	EPA Method 1633	04/04/2025	4:2 FTS	<6.5	6.5	
DWS-67	EPA Method 1633	04/04/2025	5:3 FTCA	<40.4	40.4	
DWS-67	EPA Method 1633	04/04/2025	6:2 FTS	<6.5	6.5	
DWS-67	EPA Method 1633	04/04/2025	7:3 FTCA	<40.4	40.4	
DWS-67	EPA Method 1633	04/04/2025	8:2 FTS	<6.5	6.5	
DWS-67	EPA Method 1633	04/04/2025	9Cl-PF3ONS	<6.5	6.5	
DWS-67	EPA Method 1633	04/04/2025	ADONA	<6.5	6.5	
DWS-67	EPA Method 1633	04/04/2025	HFPO-DA	<6.5	6.5	
DWS-67	EPA Method 1633	04/04/2025	NEtFOSA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	NEtFOSAA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	NEtFOSE	<16.2	16.2	
DWS-67	EPA Method 1633	04/04/2025	NFDHA	<3.2	3.2	
DWS-67	EPA Method 1633	04/04/2025	NMeFOSA	<1.6	1.6	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-67	EPA Method 1633	04/04/2025	NMeFOSAA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	NMeFOSE	<16.2	16.2	
DWS-67	EPA Method 1633	04/04/2025	PFBA	<6.5	6.5	
DWS-67	EPA Method 1633	04/04/2025	PFBS	3.5	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFDA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFDoA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFDoS	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFDS	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFEESA	<3.2	3.2	
DWS-67	EPA Method 1633	04/04/2025	PFHpA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFHpS	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFHxA	4.8	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFHxS	6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFMBA	<3.2	3.2	
DWS-67	EPA Method 1633	04/04/2025	PFMPA	<3.2	3.2	
DWS-67	EPA Method 1633	04/04/2025	PFNA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFNS	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFOA	**5.6**	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFOS	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFOSA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFPeA	5.3	3.2	
DWS-67	EPA Method 1633	04/04/2025	PFPeS	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFTeDA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFTrDA	<1.6	1.6	
DWS-67	EPA Method 1633	04/04/2025	PFUnA	<1.6	1.6	
DWS-68	EPA Method 1633	04/04/2025	11Cl-PF3OUdS	<7	7	
DWS-68	EPA Method 1633	04/04/2025	3:3 FTCA	<8.7	8.7	
DWS-68	EPA Method 1633	04/04/2025	4:2 FTS	<7	7	
DWS-68	EPA Method 1633	04/04/2025	5:3 FTCA	<43.7	43.7	
DWS-68	EPA Method 1633	04/04/2025	6:2 FTS	<7	7	
DWS-68	EPA Method 1633	04/04/2025	7:3 FTCA	<43.7	43.7	
DWS-68	EPA Method 1633	04/04/2025	8:2 FTS	<7	7	
DWS-68	EPA Method 1633	04/04/2025	9Cl-PF3ONS	<7	7	
DWS-68	EPA Method 1633	04/04/2025	ADONA	<7	7	
DWS-68	EPA Method 1633	04/04/2025	HFPO-DA	<7	7	
DWS-68	EPA Method 1633	04/04/2025	NEtFOSA	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	NEtFOSAA	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	NEtFOSE	<17.5	17.5	
DWS-68	EPA Method 1633	04/04/2025	NFDHA	<3.5	3.5	
DWS-68	EPA Method 1633	04/04/2025	NMeFOSA	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	NMeFOSAA	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	NMeFOSE	<17.5	17.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-68	EPA Method 1633	04/04/2025	PFBA	11.6	7	
DWS-68	EPA Method 1633	04/04/2025	PFBS	12.5	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFDA	2.6	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFDoA	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFDoS	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFDS	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFEESA	<3.5	3.5	
DWS-68	EPA Method 1633	04/04/2025	PFHpA	4	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFHpS	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFHxA	21.6	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFHxS	3.4	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFMBA	<3.5	3.5	
DWS-68	EPA Method 1633	04/04/2025	PFMPA	<3.5	3.5	
DWS-68	EPA Method 1633	04/04/2025	PFNA	7.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFNS	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFOA	**26.4**	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFOS	**32.2**	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFOSA	2.2	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFPeA	24.4	3.5	
DWS-68	EPA Method 1633	04/04/2025	PFPeS	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFTeDA	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFTrDA	<1.7	1.7	
DWS-68	EPA Method 1633	04/04/2025	PFUnA	<1.7	1.7	
DWS-69	EPA Method 1633	04/04/2025	11Cl-PF3OUdS	<6.5	6.5	
DWS-69	EPA Method 1633	04/04/2025	3:3 FTCA	<8.2	8.2	
DWS-69	EPA Method 1633	04/04/2025	4:2 FTS	<6.5	6.5	
DWS-69	EPA Method 1633	04/04/2025	5:3 FTCA	<40.9	40.9	
DWS-69	EPA Method 1633	04/04/2025	6:2 FTS	<6.5	6.5	
DWS-69	EPA Method 1633	04/04/2025	7:3 FTCA	<40.9	40.9	
DWS-69	EPA Method 1633	04/04/2025	8:2 FTS	<6.5	6.5	
DWS-69	EPA Method 1633	04/04/2025	9Cl-PF3ONS	<6.5	6.5	
DWS-69	EPA Method 1633	04/04/2025	ADONA	<6.5	6.5	
DWS-69	EPA Method 1633	04/04/2025	HFPO-DA	<6.5	6.5	
DWS-69	EPA Method 1633	04/04/2025	NEtFOSA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	NEtFOSAA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	NEtFOSE	<16.4	16.4	
DWS-69	EPA Method 1633	04/04/2025	NFDHA	<3.3	3.3	
DWS-69	EPA Method 1633	04/04/2025	NMeFOSA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	NMeFOSAA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	NMeFOSE	<16.4	16.4	
DWS-69	EPA Method 1633	04/04/2025	PFBA	<6.5	6.5	
DWS-69	EPA Method 1633	04/04/2025	PFBS	<1.6	1.6	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-69	EPA Method 1633	04/04/2025	PFDA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFDoA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFDoS	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFDS	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFEESA	<3.3	3.3	
DWS-69	EPA Method 1633	04/04/2025	PFHpA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFHpS	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFHxA	2.1	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFHxS	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFMBA	<3.3	3.3	
DWS-69	EPA Method 1633	04/04/2025	PFMPA	<3.3	3.3	
DWS-69	EPA Method 1633	04/04/2025	PFNA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFNS	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFOA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFOS	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFOSA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFPeA	<3.3	3.3	
DWS-69	EPA Method 1633	04/04/2025	PFPeS	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFTeDA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFTrDA	<1.6	1.6	
DWS-69	EPA Method 1633	04/04/2025	PFUnA	<1.6	1.6	
DWS-7	EPA Method 537.1	06/06/2023	11Cl-PF3OUdS	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	9Cl-PF3ONS	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	ADONA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	HFPO-DA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	NEtFOSAA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	NMeFOSAA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFBS	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFDA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFDoA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFHpA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFHxA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFHxS	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFNA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFOA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFOS	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFTeDA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFTrDA	<1.96	1.96	U
DWS-7	EPA Method 537.1	06/06/2023	PFUnA	<1.96	1.96	U
DWS-70	EPA Method 1633	04/04/2025	11Cl-PF3OUdS	<6.7	6.7	
DWS-70	EPA Method 1633	04/04/2025	3:3 FTCA	<8.3	8.3	
DWS-70	EPA Method 1633	04/04/2025	4:2 FTS	<6.7	6.7	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-70	EPA Method 1633	04/04/2025	5:3 FTCA	<41.6	41.6	
DWS-70	EPA Method 1633	04/04/2025	6:2 FTS	<6.7	6.7	
DWS-70	EPA Method 1633	04/04/2025	7:3 FTCA	<41.6	41.6	
DWS-70	EPA Method 1633	04/04/2025	8:2 FTS	<6.7	6.7	
DWS-70	EPA Method 1633	04/04/2025	9Cl-PF3ONS	<6.7	6.7	
DWS-70	EPA Method 1633	04/04/2025	ADONA	<6.7	6.7	
DWS-70	EPA Method 1633	04/04/2025	HFPO-DA	<6.7	6.7	
DWS-70	EPA Method 1633	04/04/2025	NEtFOSA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	NEtFOSAA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	NEtFOSE	<16.6	16.6	
DWS-70	EPA Method 1633	04/04/2025	NFDHA	<3.3	3.3	
DWS-70	EPA Method 1633	04/04/2025	NMeFOSA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	NMeFOSAA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	NMeFOSE	<16.6	16.6	
DWS-70	EPA Method 1633	04/04/2025	PFBA	<6.7	6.7	
DWS-70	EPA Method 1633	04/04/2025	PFBS	9.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFDA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFDoA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFDoS	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFDS	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFEESA	<3.3	3.3	
DWS-70	EPA Method 1633	04/04/2025	PFHpA	4.2	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFHpS	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFHxA	13.3	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFHxS	**12.3**	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFMBA	<3.3	3.3	
DWS-70	EPA Method 1633	04/04/2025	PFMPA	<3.3	3.3	
DWS-70	EPA Method 1633	04/04/2025	PFNA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFNS	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFOA	**20.0**	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFOS	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFOSA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFPeA	17.0	3.3	
DWS-70	EPA Method 1633	04/04/2025	PFPeS	1.9	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFTeDA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFTrDA	<1.7	1.7	
DWS-70	EPA Method 1633	04/04/2025	PFUnA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	11Cl-PF3OUdS	<6.8	6.8	
DWS-71	EPA Method 1633	04/04/2025	3:3 FTCA	<8.5	8.5	
DWS-71	EPA Method 1633	04/04/2025	4:2 FTS	<6.8	6.8	
DWS-71	EPA Method 1633	04/04/2025	5:3 FTCA	<42.4	42.4	
DWS-71	EPA Method 1633	04/04/2025	6:2 FTS	<6.8	6.8	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-71	EPA Method 1633	04/04/2025	7:3 FTCA	<42.4	42.4	
DWS-71	EPA Method 1633	04/04/2025	8:2 FTS	<6.8	6.8	
DWS-71	EPA Method 1633	04/04/2025	9Cl-PF3ONS	<6.8	6.8	
DWS-71	EPA Method 1633	04/04/2025	ADONA	<6.8	6.8	
DWS-71	EPA Method 1633	04/04/2025	HFPO-DA	<6.8	6.8	
DWS-71	EPA Method 1633	04/04/2025	NEtFOSA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	NEtFOSAA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	NEtFOSE	<17	17	
DWS-71	EPA Method 1633	04/04/2025	NFDHA	<3.4	3.4	
DWS-71	EPA Method 1633	04/04/2025	NMeFOSA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	NMeFOSAA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	NMeFOSE	<17	17	
DWS-71	EPA Method 1633	04/04/2025	PFBA	<6.8	6.8	
DWS-71	EPA Method 1633	04/04/2025	PFBS	10.0	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFDA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFDoA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFDoS	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFDS	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFEESA	<3.4	3.4	
DWS-71	EPA Method 1633	04/04/2025	PFHpA	4.1	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFHpS	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFHxA	13.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFHxS	**13.3**	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFMBA	<3.4	3.4	
DWS-71	EPA Method 1633	04/04/2025	PFMPA	<3.4	3.4	
DWS-71	EPA Method 1633	04/04/2025	PFNA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFNS	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFOA	**20.5**	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFOS	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFOSA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFPeA	16.9	3.4	
DWS-71	EPA Method 1633	04/04/2025	PFPeS	1.9	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFTeDA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFTrDA	<1.7	1.7	
DWS-71	EPA Method 1633	04/04/2025	PFUnA	<1.7	1.7	
DWS-72	EPA Method 1633	04/04/2025	11Cl-PF3OUdS	<6.3	6.3	
DWS-72	EPA Method 1633	04/04/2025	3:3 FTCA	<7.9	7.9	
DWS-72	EPA Method 1633	04/04/2025	4:2 FTS	<6.3	6.3	
DWS-72	EPA Method 1633	04/04/2025	5:3 FTCA	<39.6	39.6	
DWS-72	EPA Method 1633	04/04/2025	6:2 FTS	<6.3	6.3	
DWS-72	EPA Method 1633	04/04/2025	7:3 FTCA	<39.6	39.6	
DWS-72	EPA Method 1633	04/04/2025	8:2 FTS	<6.3	6.3	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-72	EPA Method 1633	04/04/2025	9Cl-PF3ONS	<6.3	6.3	
DWS-72	EPA Method 1633	04/04/2025	ADONA	<6.3	6.3	
DWS-72	EPA Method 1633	04/04/2025	HFPO-DA	<6.3	6.3	
DWS-72	EPA Method 1633	04/04/2025	NEtFOSA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	NEtFOSAA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	NEtFOSE	<15.8	15.8	
DWS-72	EPA Method 1633	04/04/2025	NFDHA	<3.2	3.2	
DWS-72	EPA Method 1633	04/04/2025	NMeFOSA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	NMeFOSAA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	NMeFOSE	<15.8	15.8	
DWS-72	EPA Method 1633	04/04/2025	PFBA	<6.3	6.3	
DWS-72	EPA Method 1633	04/04/2025	PFBS	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFDA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFDoA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFDoS	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFDS	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFEESA	<3.2	3.2	
DWS-72	EPA Method 1633	04/04/2025	PFHpA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFHpS	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFHxA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFHxS	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFMBA	<3.2	3.2	
DWS-72	EPA Method 1633	04/04/2025	PFMPA	<3.2	3.2	
DWS-72	EPA Method 1633	04/04/2025	PFNA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFNS	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFOA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFOS	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFOSA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFPeA	<3.2	3.2	
DWS-72	EPA Method 1633	04/04/2025	PFPeS	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFTeDA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFTrDA	<1.6	1.6	
DWS-72	EPA Method 1633	04/04/2025	PFUnA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	11Cl-PF3OUdS	<6.2	6.2	
DWS-73	EPA Method 1633	04/04/2025	3:3 FTCA	<7.8	7.8	
DWS-73	EPA Method 1633	04/04/2025	4:2 FTS	<6.2	6.2	
DWS-73	EPA Method 1633	04/04/2025	5:3 FTCA	<39	39	
DWS-73	EPA Method 1633	04/04/2025	6:2 FTS	<6.2	6.2	
DWS-73	EPA Method 1633	04/04/2025	7:3 FTCA	<39	39	
DWS-73	EPA Method 1633	04/04/2025	8:2 FTS	<6.2	6.2	
DWS-73	EPA Method 1633	04/04/2025	9Cl-PF3ONS	<6.2	6.2	
DWS-73	EPA Method 1633	04/04/2025	ADONA	<6.2	6.2	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-73	EPA Method 1633	04/04/2025	HFPO-DA	<6.2	6.2	
DWS-73	EPA Method 1633	04/04/2025	NEtFOSA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	NEtFOSAA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	NEtFOSE	<15.6	15.6	
DWS-73	EPA Method 1633	04/04/2025	NFDHA	<3.1	3.1	
DWS-73	EPA Method 1633	04/04/2025	NMeFOSA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	NMeFOSAA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	NMeFOSE	<15.6	15.6	
DWS-73	EPA Method 1633	04/04/2025	PFBA	<6.2	6.2	
DWS-73	EPA Method 1633	04/04/2025	PFBS	7.4	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFDA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFDoA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFDoS	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFDS	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFEESA	<3.1	3.1	
DWS-73	EPA Method 1633	04/04/2025	PFHpA	3.8	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFHpS	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFHxA	11.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFHxS	**14.2**	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFMBA	<3.1	3.1	
DWS-73	EPA Method 1633	04/04/2025	PFMPA	<3.1	3.1	
DWS-73	EPA Method 1633	04/04/2025	PFNA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFNS	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFOA	**19.5**	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFOS	3.8	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFOSA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFPeA	13.9	3.1	
DWS-73	EPA Method 1633	04/04/2025	PFPeS	1.7	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFTeDA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFTrDA	<1.6	1.6	
DWS-73	EPA Method 1633	04/04/2025	PFUnA	<1.6	1.6	
DWS-74	EPA Method 1633	04/21/2025	11Cl-PF3OUdS	<6.1	6.1	
DWS-74	EPA Method 1633	04/21/2025	3:3 FTCA	<7.6	7.6	
DWS-74	EPA Method 1633	04/21/2025	4:2 FTS	<6.1	6.1	
DWS-74	EPA Method 1633	04/21/2025	5:3 FTCA	<37.9	37.9	
DWS-74	EPA Method 1633	04/21/2025	6:2 FTS	<6.1	6.1	
DWS-74	EPA Method 1633	04/21/2025	7:3 FTCA	<37.9	37.9	
DWS-74	EPA Method 1633	04/21/2025	8:2 FTS	<6.1	6.1	
DWS-74	EPA Method 1633	04/21/2025	9Cl-PF3ONS	<6.1	6.1	
DWS-74	EPA Method 1633	04/21/2025	ADONA	<6.1	6.1	
DWS-74	EPA Method 1633	04/21/2025	HFPO-DA	<6.1	6.1	
DWS-74	EPA Method 1633	04/21/2025	NEtFOSA	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-74	EPA Method 1633	04/21/2025	NEtFOSAA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	NEtFOSE	<15.1	15.1	
DWS-74	EPA Method 1633	04/21/2025	NFDHA	<3.0	3.0	
DWS-74	EPA Method 1633	04/21/2025	NMeFOSA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	NMeFOSAA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	NMeFOSE	<15.1	15.1	
DWS-74	EPA Method 1633	04/21/2025	PFBA	<6.1	6.1	
DWS-74	EPA Method 1633	04/21/2025	PFBS	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFDA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFDoA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFDoS	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFDS	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFEESA	<3.0	3.0	
DWS-74	EPA Method 1633	04/21/2025	PFHpA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFHpS	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFHxA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFHxS	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFMBA	<3.0	3.0	
DWS-74	EPA Method 1633	04/21/2025	PFMPA	<3.0	3.0	
DWS-74	EPA Method 1633	04/21/2025	PFNA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFNS	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFOA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFOS	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFOSA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFPeA	<3.0	3.0	
DWS-74	EPA Method 1633	04/21/2025	PFPeS	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFTeDA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFTrDA	<1.5	1.5	
DWS-74	EPA Method 1633	04/21/2025	PFUnA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	11Cl-PF3OUdS	<6.1	6.1	
DWS-75	EPA Method 1633	04/21/2025	3:3 FTCA	<7.7	7.7	
DWS-75	EPA Method 1633	04/21/2025	4:2 FTS	<6.1	6.1	
DWS-75	EPA Method 1633	04/21/2025	5:3 FTCA	<38.4	38.4	
DWS-75	EPA Method 1633	04/21/2025	6:2 FTS	<6.1	6.1	
DWS-75	EPA Method 1633	04/21/2025	7:3 FTCA	<38.4	38.4	
DWS-75	EPA Method 1633	04/21/2025	8:2 FTS	<6.1	6.1	
DWS-75	EPA Method 1633	04/21/2025	9Cl-PF3ONS	<6.1	6.1	
DWS-75	EPA Method 1633	04/21/2025	ADONA	<6.1	6.1	
DWS-75	EPA Method 1633	04/21/2025	HFPO-DA	<6.1	6.1	
DWS-75	EPA Method 1633	04/21/2025	NEtFOSA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	NEtFOSAA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	NEtFOSE	<15.4	15.4	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-75	EPA Method 1633	04/21/2025	NFDHA	<3.1	3.1	
DWS-75	EPA Method 1633	04/21/2025	NMeFOSA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	NMeFOSAA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	NMeFOSE	<15.4	15.4	
DWS-75	EPA Method 1633	04/21/2025	PFBA	<6.1	6.1	
DWS-75	EPA Method 1633	04/21/2025	PFBS	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFDA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFDoA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFDoS	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFDS	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFEESA	<3.1	3.1	
DWS-75	EPA Method 1633	04/21/2025	PFHpA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFHpS	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFHxA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFHxS	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFMBA	<3.1	3.1	
DWS-75	EPA Method 1633	04/21/2025	PFMPA	<3.1	3.1	
DWS-75	EPA Method 1633	04/21/2025	PFNA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFNS	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFOA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFOS	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFOSA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFPeA	<3.1	3.1	
DWS-75	EPA Method 1633	04/21/2025	PFPeS	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFTeDA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFTrDA	<1.5	1.5	
DWS-75	EPA Method 1633	04/21/2025	PFUnA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	11Cl-PF3OUdS	<6.1	6.1	
DWS-76	EPA Method 1633	04/21/2025	3:3 FTCA	<7.6	7.6	
DWS-76	EPA Method 1633	04/21/2025	4:2 FTS	<6.1	6.1	
DWS-76	EPA Method 1633	04/21/2025	5:3 FTCA	<37.8	37.8	
DWS-76	EPA Method 1633	04/21/2025	6:2 FTS	<6.1	6.1	
DWS-76	EPA Method 1633	04/21/2025	7:3 FTCA	<37.8	37.8	
DWS-76	EPA Method 1633	04/21/2025	8:2 FTS	<6.1	6.1	
DWS-76	EPA Method 1633	04/21/2025	9Cl-PF3ONS	<6.1	6.1	
DWS-76	EPA Method 1633	04/21/2025	ADONA	<6.1	6.1	
DWS-76	EPA Method 1633	04/21/2025	HFPO-DA	<6.1	6.1	
DWS-76	EPA Method 1633	04/21/2025	NEtFOSA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	NEtFOSAA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	NEtFOSE	<15.1	15.1	
DWS-76	EPA Method 1633	04/21/2025	NFDHA	<3.0	3	
DWS-76	EPA Method 1633	04/21/2025	NMeFOSA	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-76	EPA Method 1633	04/21/2025	NMeFOSAA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	NMeFOSE	<15.1	15.1	
DWS-76	EPA Method 1633	04/21/2025	PFBA	<6.1	6.1	
DWS-76	EPA Method 1633	04/21/2025	PFBS	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFDA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFDoA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFDoS	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFDS	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFEESA	<3.0	3.0	
DWS-76	EPA Method 1633	04/21/2025	PFHpA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFHpS	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFHxA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFHxS	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFMBA	<3.0	3.0	
DWS-76	EPA Method 1633	04/21/2025	PFMPA	<3.0	3.0	
DWS-76	EPA Method 1633	04/21/2025	PFNA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFNS	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFOA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFOS	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFOSA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFPeA	<3.0	3.0	
DWS-76	EPA Method 1633	04/21/2025	PFPeS	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFTeDA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFTrDA	<1.5	1.5	
DWS-76	EPA Method 1633	04/21/2025	PFUnA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	11Cl-PF3OUdS	<6.1	6.1	
DWS-77	EPA Method 1633	04/21/2025	3:3 FTCA	<7.7	7.7	
DWS-77	EPA Method 1633	04/21/2025	4:2 FTS	<6.1	6.1	
DWS-77	EPA Method 1633	04/21/2025	5:3 FTCA	<38.4	38.4	
DWS-77	EPA Method 1633	04/21/2025	6:2 FTS	<6.1	6.1	
DWS-77	EPA Method 1633	04/21/2025	7:3 FTCA	<38.4	38.4	
DWS-77	EPA Method 1633	04/21/2025	8:2 FTS	<6.1	6.1	
DWS-77	EPA Method 1633	04/21/2025	9Cl-PF3ONS	<6.1	6.1	
DWS-77	EPA Method 1633	04/21/2025	ADONA	<6.1	6.1	
DWS-77	EPA Method 1633	04/21/2025	HFPO-DA	<6.1	6.1	
DWS-77	EPA Method 1633	04/21/2025	NEtFOSA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	NEtFOSAA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	NEtFOSE	<15.4	15.4	
DWS-77	EPA Method 1633	04/21/2025	NFDHA	<3.1	3.1	
DWS-77	EPA Method 1633	04/21/2025	NMeFOSA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	NMeFOSAA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	NMeFOSE	<15.4	15.4	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-77	EPA Method 1633	04/21/2025	PFBA	<6.1	6.1	
DWS-77	EPA Method 1633	04/21/2025	PFBS	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFDA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFDoA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFDoS	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFDS	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFEESA	<3.1	3.1	
DWS-77	EPA Method 1633	04/21/2025	PFHpA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFHpS	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFHxA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFHxS	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFMBA	<3.1	3.1	
DWS-77	EPA Method 1633	04/21/2025	PFMPA	<3.1	3.1	
DWS-77	EPA Method 1633	04/21/2025	PFNA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFNS	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFOA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFOS	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFOSA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFPeA	<3.1	3.1	
DWS-77	EPA Method 1633	04/21/2025	PFPeS	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFTeDA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFTrDA	<1.5	1.5	
DWS-77	EPA Method 1633	04/21/2025	PFUnA	<1.5	1.5	
DWS-78	EPA Method 1633	04/21/2025	11Cl-PF3OUdS	<6.2	6.2	
DWS-78	EPA Method 1633	04/21/2025	3:3 FTCA	<7.8	7.8	
DWS-78	EPA Method 1633	04/21/2025	4:2 FTS	<6.2	6.2	
DWS-78	EPA Method 1633	04/21/2025	5:3 FTCA	<39.0	39.0	
DWS-78	EPA Method 1633	04/21/2025	6:2 FTS	<6.2	6.2	
DWS-78	EPA Method 1633	04/21/2025	7:3 FTCA	<39.0	39.00	
DWS-78	EPA Method 1633	04/21/2025	8:2 FTS	<6.2	6.2	
DWS-78	EPA Method 1633	04/21/2025	9Cl-PF3ONS	<6.2	6.2	
DWS-78	EPA Method 1633	04/21/2025	ADONA	<6.2	6.2	
DWS-78	EPA Method 1633	04/21/2025	HFPO-DA	<6.2	6.2	
DWS-78	EPA Method 1633	04/21/2025	NEtFOSA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	NEtFOSAA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	NEtFOSE	<15.6	15.6	
DWS-78	EPA Method 1633	04/21/2025	NFDHA	<3.1	3.1	
DWS-78	EPA Method 1633	04/21/2025	NMeFOSA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	NMeFOSAA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	NMeFOSE	<15.6	15.6	
DWS-78	EPA Method 1633	04/21/2025	PFBA	<6.2	6.2	
DWS-78	EPA Method 1633	04/21/2025	PFBS	<1.6	1.6	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-78	EPA Method 1633	04/21/2025	PFDA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFDoA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFDoS	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFDS	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFEESA	<3.1	3.1	
DWS-78	EPA Method 1633	04/21/2025	PFHpA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFHpS	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFHxA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFHxS	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFMBA	<3.1	3.1	
DWS-78	EPA Method 1633	04/21/2025	PFMPA	<3.1	3.1	
DWS-78	EPA Method 1633	04/21/2025	PFNA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFNS	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFOA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFOS	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFOSA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFPeA	<3.1	3.1	
DWS-78	EPA Method 1633	04/21/2025	PFPeS	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFTeDA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFTrDA	<1.6	1.6	
DWS-78	EPA Method 1633	04/21/2025	PFUnA	<1.6	1.6	
DWS-79	EPA Method 1633	04/21/2025	11Cl-PF3OUdS	<6.0	6.0	
DWS-79	EPA Method 1633	04/21/2025	3:3 FTCA	<7.5	7.5	
DWS-79	EPA Method 1633	04/21/2025	4:2 FTS	<6.0	6.0	
DWS-79	EPA Method 1633	04/21/2025	5:3 FTCA	<37.4	37.4	
DWS-79	EPA Method 1633	04/21/2025	6:2 FTS	<6.0	6.0	
DWS-79	EPA Method 1633	04/21/2025	7:3 FTCA	<37.4	37.4	
DWS-79	EPA Method 1633	04/21/2025	8:2 FTS	<6.0	6.0	
DWS-79	EPA Method 1633	04/21/2025	9Cl-PF3ONS	<6.0	6.0	
DWS-79	EPA Method 1633	04/21/2025	ADONA	<6.0	6.0	
DWS-79	EPA Method 1633	04/21/2025	HFPO-DA	<6.0	6.0	
DWS-79	EPA Method 1633	04/21/2025	NEtFOSA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	NEtFOSAA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	NEtFOSE	<15.0	15.0	
DWS-79	EPA Method 1633	04/21/2025	NFDHA	<3.0	3.0	
DWS-79	EPA Method 1633	04/21/2025	NMeFOSA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	NMeFOSAA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	NMeFOSE	<15.0	15.0	
DWS-79	EPA Method 1633	04/21/2025	PFBA	<6.0	6.0	
DWS-79	EPA Method 1633	04/21/2025	PFBS	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFDA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFDoA	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-79	EPA Method 1633	04/21/2025	PFDoS	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFDS	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFEESA	<3.0	3.0	
DWS-79	EPA Method 1633	04/21/2025	PFHpA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFHpS	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFHxA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFHxS	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFMBA	<3.0	3.0	
DWS-79	EPA Method 1633	04/21/2025	PFMPA	<3.0	3.0	
DWS-79	EPA Method 1633	04/21/2025	PFNA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFNS	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFOA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFOS	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFOSA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFPeA	<3.0	3.0	
DWS-79	EPA Method 1633	04/21/2025	PFPeS	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFTeDA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFTrDA	<1.5	1.5	
DWS-79	EPA Method 1633	04/21/2025	PFUnA	<1.5	1.5	
DWS-8	EPA Method 537.1	06/06/2023	11Cl-PF3OUdS	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	9Cl-PF3ONS	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	ADONA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	HFPO-DA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	NEtFOSAA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	NMeFOSAA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFBS	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFDA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFDoA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFHpA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFHxA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFHxS	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFNA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFOA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFOS	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFTeDA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFTrDA	<1.92	1.92	U
DWS-8	EPA Method 537.1	06/06/2023	PFUnA	<1.92	1.92	U
DWS-80	EPA Method 1633	04/23/2025	11Cl-PF3OUdS	<12.7	12.7	
DWS-80	EPA Method 1633	04/23/2025	3:3 FTCA	<15.8	15.8	
DWS-80	EPA Method 1633	04/23/2025	4:2 FTS	<12.7	12.7	
DWS-80	EPA Method 1633	04/23/2025	5:3 FTCA	<79.1	79.1	
DWS-80	EPA Method 1633	04/23/2025	6:2 FTS	<12.7	12.7	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-80	EPA Method 1633	04/23/2025	7:3 FTCA	<79.1	79.1	
DWS-80	EPA Method 1633	04/23/2025	8:2 FTS	<12.7	12.7	
DWS-80	EPA Method 1633	04/23/2025	9Cl-PF3ONS	<12.7	12.7	
DWS-80	EPA Method 1633	04/23/2025	ADONA	<12.7	12.7	
DWS-80	EPA Method 1633	04/23/2025	HFPO-DA	<12.7	12.7	
DWS-80	EPA Method 1633	04/23/2025	NEtFOSA	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	NEtFOSAA	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	NEtFOSE	<31.6	31.6	
DWS-80	EPA Method 1633	04/23/2025	NFDHA	<6.3	6.3	
DWS-80	EPA Method 1633	04/23/2025	NMeFOSA	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	NMeFOSAA	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	NMeFOSE	<31.6	31.6	
DWS-80	EPA Method 1633	04/23/2025	PFBA	<12.7	12.7	
DWS-80	EPA Method 1633	04/23/2025	PFBS	14.9	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFDA	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFDoA	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFDoS	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFDS	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFEESA	<6.3	6.3	
DWS-80	EPA Method 1633	04/23/2025	PFHpA	4.4	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFHpS	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFHxA	20.4	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFHxS	7.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFMBA	<6.3	6.3	
DWS-80	EPA Method 1633	04/23/2025	PFMPA	<6.3	6.3	
DWS-80	EPA Method 1633	04/23/2025	PFNA	6.8	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFNS	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFOA	**27.3**	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFOS	**27.5**	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFOSA	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFPeA	24.6	6.3	
DWS-80	EPA Method 1633	04/23/2025	PFPeS	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFTeDA	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFTrDA	<3.2	3.2	
DWS-80	EPA Method 1633	04/23/2025	PFUnA	<3.2	3.2	
DWS-81	EPA Method 1633	04/23/2025	11Cl-PF3OUdS	<6.1	6.1	
DWS-81	EPA Method 1633	04/23/2025	3:3 FTCA	<7.6	7.6	
DWS-81	EPA Method 1633	04/23/2025	4:2 FTS	<6.1	6.1	
DWS-81	EPA Method 1633	04/23/2025	5:3 FTCA	<38.2	38.2	
DWS-81	EPA Method 1633	04/23/2025	6:2 FTS	<6.1	6.1	
DWS-81	EPA Method 1633	04/23/2025	7:3 FTCA	<38.2	38.2	
DWS-81	EPA Method 1633	04/23/2025	8:2 FTS	<6.1	6.1	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-81	EPA Method 1633	04/23/2025	9Cl-PF3ONS	<6.1	6.1	
DWS-81	EPA Method 1633	04/23/2025	ADONA	<6.1	6.1	
DWS-81	EPA Method 1633	04/23/2025	HFPO-DA	<6.1	6.1	
DWS-81	EPA Method 1633	04/23/2025	NEtFOSA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	NEtFOSAA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	NEtFOSE	<15.3	15.3	
DWS-81	EPA Method 1633	04/23/2025	NFDHA	<3.1	3.1	
DWS-81	EPA Method 1633	04/23/2025	NMeFOSA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	NMeFOSAA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	NMeFOSE	<15.3	15.3	
DWS-81	EPA Method 1633	04/23/2025	PFBA	<6.1	6.1	
DWS-81	EPA Method 1633	04/23/2025	PFBS	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFDA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFDoA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFDoS	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFDS	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFEESA	<3.1	3.1	
DWS-81	EPA Method 1633	04/23/2025	PFHpA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFHpS	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFHxA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFHxS	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFMBA	<3.1	3.1	
DWS-81	EPA Method 1633	04/23/2025	PFMPA	<3.1	3.1	
DWS-81	EPA Method 1633	04/23/2025	PFNA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFNS	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFOA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFOS	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFOSA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFPeA	<3.1	3.1	
DWS-81	EPA Method 1633	04/23/2025	PFPeS	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFTeDA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFTrDA	<1.5	1.5	
DWS-81	EPA Method 1633	04/23/2025	PFUnA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	11Cl-PF3OUdS	<6.0	6.0	
DWS-82	EPA Method 1633	04/23/2025	3:3 FTCA	<7.5	7.5	
DWS-82	EPA Method 1633	04/23/2025	4:2 FTS	<6.0	6.0	
DWS-82	EPA Method 1633	04/23/2025	5:3 FTCA	<37.7	37.7	
DWS-82	EPA Method 1633	04/23/2025	6:2 FTS	<6.0	6.0	
DWS-82	EPA Method 1633	04/23/2025	7:3 FTCA	<37.7	37.7	
DWS-82	EPA Method 1633	04/23/2025	8:2 FTS	<6.0	6.0	
DWS-82	EPA Method 1633	04/23/2025	9Cl-PF3ONS	<6.0	6.0	
DWS-82	EPA Method 1633	04/23/2025	ADONA	<6.0	6.0	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-82	EPA Method 1633	04/23/2025	HFPO-DA	<6.0	6.0	
DWS-82	EPA Method 1633	04/23/2025	NEtFOSA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	NEtFOSAA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	NEtFOSE	<15.1	15.1	
DWS-82	EPA Method 1633	04/23/2025	NFDHA	<3.0	3.0	
DWS-82	EPA Method 1633	04/23/2025	NMeFOSA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	NMeFOSAA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	NMeFOSE	<15.1	15.1	
DWS-82	EPA Method 1633	04/23/2025	PFBA	<6.0	6.0	
DWS-82	EPA Method 1633	04/23/2025	PFBS	5.7	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFDA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFDoA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFDoS	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFDS	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFEESA	<3.0	3.0	
DWS-82	EPA Method 1633	04/23/2025	PFHpA	2.4	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFHpS	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFHxA	11.8	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFHxS	5.9	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFMBA	<3.0	3.0	
DWS-82	EPA Method 1633	04/23/2025	PFMPA	<3.0	3.0	
DWS-82	EPA Method 1633	04/23/2025	PFNA	1.6	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFNS	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFOA	**13.1**	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFOS	**8.4**	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFOSA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFPeA	13.3	3.0	
DWS-82	EPA Method 1633	04/23/2025	PFPeS	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFTeDA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFTrDA	<1.5	1.5	
DWS-82	EPA Method 1633	04/23/2025	PFUnA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	11Cl-PF3OUdS	<6.1	6.1	
DWS-83	EPA Method 1633	04/23/2025	3:3 FTCA	<7.7	7.7	
DWS-83	EPA Method 1633	04/23/2025	4:2 FTS	<6.1	6.1	
DWS-83	EPA Method 1633	04/23/2025	5:3 FTCA	<38.3	38.3	
DWS-83	EPA Method 1633	04/23/2025	6:2 FTS	<6.1	6.1	
DWS-83	EPA Method 1633	04/23/2025	7:3 FTCA	<38.3	38.3	
DWS-83	EPA Method 1633	04/23/2025	8:2 FTS	<6.1	6.1	
DWS-83	EPA Method 1633	04/23/2025	9Cl-PF3ONS	<6.1	6.1	
DWS-83	EPA Method 1633	04/23/2025	ADONA	<6.1	6.1	
DWS-83	EPA Method 1633	04/23/2025	HFPO-DA	<6.1	6.1	
DWS-83	EPA Method 1633	04/23/2025	NEtFOSA	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-83	EPA Method 1633	04/23/2025	NEtFOSAA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	NEtFOSE	<15.3	15.3	
DWS-83	EPA Method 1633	04/23/2025	NFDHA	<3.1	3.1	
DWS-83	EPA Method 1633	04/23/2025	NMeFOSA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	NMeFOSAA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	NMeFOSE	<15.3	15.3	
DWS-83	EPA Method 1633	04/23/2025	PFBA	<6.1	6.1	
DWS-83	EPA Method 1633	04/23/2025	PFBS	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFDA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFDoA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFDoS	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFDS	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFEESA	<3.1	3.1	
DWS-83	EPA Method 1633	04/23/2025	PFHpA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFHpS	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFHxA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFHxS	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFMBA	<3.1	3.1	
DWS-83	EPA Method 1633	04/23/2025	PFMPA	<3.1	3.1	
DWS-83	EPA Method 1633	04/23/2025	PFNA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFNS	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFOA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFOS	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFOSA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFPeA	<3.1	3.1	
DWS-83	EPA Method 1633	04/23/2025	PFPeS	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFTeDA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFTrDA	<1.5	1.5	
DWS-83	EPA Method 1633	04/23/2025	PFUnA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	11Cl-PF3OUdS	<6.0	6.0	
DWS-84	EPA Method 1633	04/23/2025	3:3 FTCA	<7.5	7.5	
DWS-84	EPA Method 1633	04/23/2025	4:2 FTS	<6.0	6.0	
DWS-84	EPA Method 1633	04/23/2025	5:3 FTCA	<37.7	37.7	
DWS-84	EPA Method 1633	04/23/2025	6:2 FTS	<6.0	6.0	
DWS-84	EPA Method 1633	04/23/2025	7:3 FTCA	<37.7	37.7	
DWS-84	EPA Method 1633	04/23/2025	8:2 FTS	<6.0	6.0	
DWS-84	EPA Method 1633	04/23/2025	9Cl-PF3ONS	<6.0	6.0	
DWS-84	EPA Method 1633	04/23/2025	ADONA	<6.0	6.0	
DWS-84	EPA Method 1633	04/23/2025	HFPO-DA	<6.0	6.0	
DWS-84	EPA Method 1633	04/23/2025	NEtFOSA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	NEtFOSAA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	NEtFOSE	<15.1	15.1	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-84	EPA Method 1633	04/23/2025	NFDHA	<3.0	3.0	
DWS-84	EPA Method 1633	04/23/2025	NMeFOSA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	NMeFOSAA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	NMeFOSE	<15.1	15.1	
DWS-84	EPA Method 1633	04/23/2025	PFBA	<6.0	6.0	
DWS-84	EPA Method 1633	04/23/2025	PFBS	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFDA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFDoA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFDoS	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFDS	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFEESA	<3.0	3.0	
DWS-84	EPA Method 1633	04/23/2025	PFHpA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFHpS	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFHxA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFHxS	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFMBA	<3.0	3.0	
DWS-84	EPA Method 1633	04/23/2025	PFMPA	<3.0	3.0	
DWS-84	EPA Method 1633	04/23/2025	PFNA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFNS	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFOA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFOS	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFOSA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFPeA	<3.0	3.0	
DWS-84	EPA Method 1633	04/23/2025	PFPeS	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFTeDA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFTrDA	<1.5	1.5	
DWS-84	EPA Method 1633	04/23/2025	PFUnA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	11Cl-PF3OUdS	<6.1	6.1	
DWS-85	EPA Method 1633	05/06/2025	3:3 FTCA	<7.7	7.7	
DWS-85	EPA Method 1633	05/06/2025	4:2 FTS	<6.1	6.1	
DWS-85	EPA Method 1633	05/06/2025	5:3 FTCA	<38.3	38.3	
DWS-85	EPA Method 1633	05/06/2025	6:2 FTS	<6.1	6.1	
DWS-85	EPA Method 1633	05/06/2025	7:3 FTCA	<38.3	38.3	
DWS-85	EPA Method 1633	05/06/2025	8:2 FTS	<6.1	6.1	
DWS-85	EPA Method 1633	05/06/2025	9Cl-PF3ONS	<6.1	6.1	
DWS-85	EPA Method 1633	05/06/2025	ADONA	<6.1	6.1	
DWS-85	EPA Method 1633	05/06/2025	HFPO-DA	<6.1	6.1	
DWS-85	EPA Method 1633	05/06/2025	NEtFOSA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	NEtFOSAA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	NEtFOSE	<15.3	15.3	
DWS-85	EPA Method 1633	05/06/2025	NFDHA	<3.1	3.1	
DWS-85	EPA Method 1633	05/06/2025	NMeFOSA	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-85	EPA Method 1633	05/06/2025	NMeFOSAA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	NMeFOSE	<15.3	15.3	
DWS-85	EPA Method 1633	05/06/2025	PFBA	<6.1	6.1	
DWS-85	EPA Method 1633	05/06/2025	PFBS	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFDA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFDoA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFDoS	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFDS	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFEESA	<3.1	3.1	
DWS-85	EPA Method 1633	05/06/2025	PFHpA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFHpS	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFHxA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFHxS	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFMBA	<3.1	3.1	
DWS-85	EPA Method 1633	05/06/2025	PFMPA	<3.1	3.1	
DWS-85	EPA Method 1633	05/06/2025	PFNA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFNS	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFOA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFOS	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFOSA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFPeA	<3.1	3.1	
DWS-85	EPA Method 1633	05/06/2025	PFPeS	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFTeDA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFTrDA	<1.5	1.5	
DWS-85	EPA Method 1633	05/06/2025	PFUnA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	11Cl-PF3OUdS	<5.8	5.8	
DWS-86	EPA Method 1633	05/06/2025	3:3 FTCA	<7.3	7.3	
DWS-86	EPA Method 1633	05/06/2025	4:2 FTS	<5.8	5.8	
DWS-86	EPA Method 1633	05/06/2025	5:3 FTCA	<36.6	36.6	
DWS-86	EPA Method 1633	05/06/2025	6:2 FTS	<5.8	5.8	
DWS-86	EPA Method 1633	05/06/2025	7:3 FTCA	<36.6	36.6	
DWS-86	EPA Method 1633	05/06/2025	8:2 FTS	<5.8	5.8	
DWS-86	EPA Method 1633	05/06/2025	9Cl-PF3ONS	<5.8	5.8	
DWS-86	EPA Method 1633	05/06/2025	ADONA	<5.8	5.8	
DWS-86	EPA Method 1633	05/06/2025	HFPO-DA	<5.8	5.8	
DWS-86	EPA Method 1633	05/06/2025	NEtFOSA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	NEtFOSAA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	NEtFOSE	<14.6	14.6	
DWS-86	EPA Method 1633	05/06/2025	NFDHA	<2.9	2.9	
DWS-86	EPA Method 1633	05/06/2025	NMeFOSA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	NMeFOSAA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	NMeFOSE	<14.6	14.6	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-86	EPA Method 1633	05/06/2025	PFBA	<5.8	5.8	
DWS-86	EPA Method 1633	05/06/2025	PFBS	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFDA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFDoA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFDoS	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFDS	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFEESA	<2.9	2.9	
DWS-86	EPA Method 1633	05/06/2025	PFHpA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFHpS	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFHxA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFHxS	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFMBA	<2.9	2.9	
DWS-86	EPA Method 1633	05/06/2025	PFMPA	<2.9	2.9	
DWS-86	EPA Method 1633	05/06/2025	PFNA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFNS	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFOA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFOS	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFOSA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFPeA	<2.9	2.9	
DWS-86	EPA Method 1633	05/06/2025	PFPeS	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFTeDA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFTrDA	<1.5	1.5	
DWS-86	EPA Method 1633	05/06/2025	PFUnA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	11Cl-PF3OUdS	<6.0	6.0	
DWS-87	EPA Method 1633	05/06/2025	3:3 FTCA	<7.5	7.5	
DWS-87	EPA Method 1633	05/06/2025	4:2 FTS	<6.0	6.0	
DWS-87	EPA Method 1633	05/06/2025	5:3 FTCA	<37.7	37.7	
DWS-87	EPA Method 1633	05/06/2025	6:2 FTS	<6.0	6.0	
DWS-87	EPA Method 1633	05/06/2025	7:3 FTCA	<37.7	37.7	
DWS-87	EPA Method 1633	05/06/2025	8:2 FTS	<6.0	6.0	
DWS-87	EPA Method 1633	05/06/2025	9Cl-PF3ONS	<6.0	6.0	
DWS-87	EPA Method 1633	05/06/2025	ADONA	<6.0	6.0	
DWS-87	EPA Method 1633	05/06/2025	HFPO-DA	<6.0	6.0	
DWS-87	EPA Method 1633	05/06/2025	NEtFOSA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	NEtFOSAA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	NEtFOSE	<15.1	15.1	
DWS-87	EPA Method 1633	05/06/2025	NFDHA	<3.0	3.0	
DWS-87	EPA Method 1633	05/06/2025	NMeFOSA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	NMeFOSAA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	NMeFOSE	<15.1	15.1	
DWS-87	EPA Method 1633	05/06/2025	PFBA	<6.0	6.0	
DWS-87	EPA Method 1633	05/06/2025	PFBS	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-87	EPA Method 1633	05/06/2025	PFDA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFDoA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFDoS	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFDS	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFEESA	<3.0	3.0	
DWS-87	EPA Method 1633	05/06/2025	PFHpA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFHpS	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFHxA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFHxS	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFMBA	<3.0	3.0	
DWS-87	EPA Method 1633	05/06/2025	PFMPA	<3.0	3.0	
DWS-87	EPA Method 1633	05/06/2025	PFNA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFNS	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFOA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFOS	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFOSA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFPeA	<3.0	3.0	
DWS-87	EPA Method 1633	05/06/2025	PFPeS	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFTeDA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFTrDA	<1.5	1.5	
DWS-87	EPA Method 1633	05/06/2025	PFUnA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	11Cl-PF3OUdS	<6.0	6.0	
DWS-88	EPA Method 1633	05/06/2025	3:3 FTCA	<7.5	7.5	
DWS-88	EPA Method 1633	05/06/2025	4:2 FTS	<6.0	6.0	
DWS-88	EPA Method 1633	05/06/2025	5:3 FTCA	<37.5	37.5	
DWS-88	EPA Method 1633	05/06/2025	6:2 FTS	<6.0	6.0	
DWS-88	EPA Method 1633	05/06/2025	7:3 FTCA	<37.5	37.5	
DWS-88	EPA Method 1633	05/06/2025	8:2 FTS	<6.0	6.0	
DWS-88	EPA Method 1633	05/06/2025	9Cl-PF3ONS	<6.0	6.0	
DWS-88	EPA Method 1633	05/06/2025	ADONA	<6.0	6.0	
DWS-88	EPA Method 1633	05/06/2025	HFPO-DA	<6.0	6.0	
DWS-88	EPA Method 1633	05/06/2025	NEtFOSA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	NEtFOSAA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	NEtFOSE	<15.0	15.0	
DWS-88	EPA Method 1633	05/06/2025	NFDHA	<3.0	3.0	
DWS-88	EPA Method 1633	05/06/2025	NMeFOSA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	NMeFOSAA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	NMeFOSE	<15.0	15.0	
DWS-88	EPA Method 1633	05/06/2025	PFBA	<6.0	6.0	
DWS-88	EPA Method 1633	05/06/2025	PFBS	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFDA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFDoA	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-88	EPA Method 1633	05/06/2025	PFDoS	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFDS	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFEESA	<3.0	3.0	
DWS-88	EPA Method 1633	05/06/2025	PFHpA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFHpS	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFHxA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFHxS	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFMBA	<3.0	3.0	
DWS-88	EPA Method 1633	05/06/2025	PFMPA	<3.0	3.0	
DWS-88	EPA Method 1633	05/06/2025	PFNA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFNS	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFOA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFOS	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFOSA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFPeA	<3.0	3.0	
DWS-88	EPA Method 1633	05/06/2025	PFPeS	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFTeDA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFTrDA	<1.5	1.5	
DWS-88	EPA Method 1633	05/06/2025	PFUnA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	11Cl-PF3OUdS	<6.0	6.0	
DWS-89	EPA Method 1633	05/06/2025	3:3 FTCA	<7.5	7.5	
DWS-89	EPA Method 1633	05/06/2025	4:2 FTS	<6.0	6.0	
DWS-89	EPA Method 1633	05/06/2025	5:3 FTCA	<37.3	37.3	
DWS-89	EPA Method 1633	05/06/2025	6:2 FTS	<6.0	6.0	
DWS-89	EPA Method 1633	05/06/2025	7:3 FTCA	<37.3	37.3	
DWS-89	EPA Method 1633	05/06/2025	8:2 FTS	<6.0	6.0	
DWS-89	EPA Method 1633	05/06/2025	9Cl-PF3ONS	<6.0	6.0	
DWS-89	EPA Method 1633	05/06/2025	ADONA	<6.0	6.0	
DWS-89	EPA Method 1633	05/06/2025	HFPO-DA	<6.0	6.0	
DWS-89	EPA Method 1633	05/06/2025	NEtFOSA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	NEtFOSAA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	NEtFOSE	<14.9	14.9	
DWS-89	EPA Method 1633	05/06/2025	NFDHA	<3.0	3.0	
DWS-89	EPA Method 1633	05/06/2025	NMeFOSA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	NMeFOSAA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	NMeFOSE	<14.9	14.9	
DWS-89	EPA Method 1633	05/06/2025	PFBA	<6.0	6.0	
DWS-89	EPA Method 1633	05/06/2025	PFBS	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFDA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFDoA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFDoS	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFDS	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-89	EPA Method 1633	05/06/2025	PFEESA	<3.0	3.0	
DWS-89	EPA Method 1633	05/06/2025	PFHpA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFHpS	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFHxA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFHxS	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFMBA	<3.0	3.0	
DWS-89	EPA Method 1633	05/06/2025	PFMPA	<3.0	3.0	
DWS-89	EPA Method 1633	05/06/2025	PFNA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFNS	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFOA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFOS	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFOSA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFPeA	<3.0	3.0	
DWS-89	EPA Method 1633	05/06/2025	PFPeS	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFTeDA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFTrDA	<1.5	1.5	
DWS-89	EPA Method 1633	05/06/2025	PFUnA	<1.5	1.5	
DWS-9	EPA Method 537.1	06/06/2023	11Cl-PF3OUdS	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	9Cl-PF3ONS	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	ADONA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	HFPO-DA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	NEtFOSAA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	NMeFOSAA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFBS	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFDA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFDoA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFHpA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFHxA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFHxS	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFNA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFOA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFOS	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFTeDA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFTrDA	<1.92	1.92	U
DWS-9	EPA Method 537.1	06/06/2023	PFUnA	<1.92	1.92	U
DWS-90	EPA Method 1633	05/06/2025	11Cl-PF3OUdS	<24.0	24.0	
DWS-90	EPA Method 1633	05/06/2025	3:3 FTCA	<30.0	30.0	
DWS-90	EPA Method 1633	05/06/2025	4:2 FTS	<24.0	24.0	
DWS-90	EPA Method 1633	05/06/2025	5:3 FTCA	<150.0	150.0	
DWS-90	EPA Method 1633	05/06/2025	6:2 FTS	<24.0	24.0	
DWS-90	EPA Method 1633	05/06/2025	7:3 FTCA	<150.0	150.0	
DWS-90	EPA Method 1633	05/06/2025	8:2 FTS	<24.0	24.0	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-90	EPA Method 1633	05/06/2025	9Cl-PF3ONS	<24.0	24.0	
DWS-90	EPA Method 1633	05/06/2025	ADONA	<24.0	24.0	
DWS-90	EPA Method 1633	05/06/2025	HFPO-DA	<24.0	24.0	
DWS-90	EPA Method 1633	05/06/2025	NEtFOSA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	NEtFOSAA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	NEtFOSE	<60.0	60.0	
DWS-90	EPA Method 1633	05/06/2025	NFDHA	<12.0	12.0	
DWS-90	EPA Method 1633	05/06/2025	NMeFOSA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	NMeFOSAA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	NMeFOSE	<60.0	60.0	
DWS-90	EPA Method 1633	05/06/2025	PFBA	<24.0	24.0	
DWS-90	EPA Method 1633	05/06/2025	PFBS	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFDA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFDoA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFDoS	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFDS	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFEESA	<12.0	12.0	
DWS-90	EPA Method 1633	05/06/2025	PFHpA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFHpS	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFHxA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFHxS	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFMBA	<12.0	12.0	
DWS-90	EPA Method 1633	05/06/2025	PFMPA	<12.0	12.0	
DWS-90	EPA Method 1633	05/06/2025	PFNA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFNS	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFOA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFOS	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFOSA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFPeA	<12.0	12.0	
DWS-90	EPA Method 1633	05/06/2025	PFPeS	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFTeDA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFTrDA	<6.0	6.0	
DWS-90	EPA Method 1633	05/06/2025	PFUnA	<6.0	6.0	
DWS-91	EPA Method 1633	05/06/2025	11Cl-PF3OUdS	<6.2	6.2	
DWS-91	EPA Method 1633	05/06/2025	3:3 FTCA	<7.8	7.8	
DWS-91	EPA Method 1633	05/06/2025	4:2 FTS	<6.2	6.2	
DWS-91	EPA Method 1633	05/06/2025	5:3 FTCA	<38.8	38.8	
DWS-91	EPA Method 1633	05/06/2025	6:2 FTS	<6.2	6.2	
DWS-91	EPA Method 1633	05/06/2025	7:3 FTCA	<38.8	38.8	
DWS-91	EPA Method 1633	05/06/2025	8:2 FTS	<6.2	6.2	
DWS-91	EPA Method 1633	05/06/2025	9Cl-PF3ONS	<6.2	6.2	
DWS-91	EPA Method 1633	05/06/2025	ADONA	<6.2	6.2	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-91	EPA Method 1633	05/06/2025	HFPO-DA	<6.2	6.2	
DWS-91	EPA Method 1633	05/06/2025	NEtFOSA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	NEtFOSAA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	NEtFOSE	<15.5	15.5	
DWS-91	EPA Method 1633	05/06/2025	NFDHA	<3.1	3.1	
DWS-91	EPA Method 1633	05/06/2025	NMeFOSA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	NMeFOSAA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	NMeFOSE	<15.5	15.5	
DWS-91	EPA Method 1633	05/06/2025	PFBA	<6.2	6.2	
DWS-91	EPA Method 1633	05/06/2025	PFBS	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFDA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFDoA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFDoS	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFDS	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFEESA	<3.1	3.1	
DWS-91	EPA Method 1633	05/06/2025	PFHpA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFHpS	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFHxA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFHxS	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFMBA	<3.1	3.1	
DWS-91	EPA Method 1633	05/06/2025	PFMPA	<3.1	3.1	
DWS-91	EPA Method 1633	05/06/2025	PFNA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFNS	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFOA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFOS	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFOSA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFPeA	<3.1	3.1	
DWS-91	EPA Method 1633	05/06/2025	PFPeS	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFTeDA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFTrDA	<1.6	1.6	
DWS-91	EPA Method 1633	05/06/2025	PFUnA	<1.6	1.6	
DWS-92	EPA Method 1633	06/10/2025	11Cl-PF3OUdS	<6.2	6.2	
DWS-92	EPA Method 1633	06/10/2025	3:3 FTCA	<7.7	7.7	
DWS-92	EPA Method 1633	06/10/2025	4:2 FTS	<6.2	6.2	
DWS-92	EPA Method 1633	06/10/2025	5:3 FTCA	<38.7	38.7	
DWS-92	EPA Method 1633	06/10/2025	6:2 FTS	<6.2	6.2	
DWS-92	EPA Method 1633	06/10/2025	7:3 FTCA	<38.7	38.7	
DWS-92	EPA Method 1633	06/10/2025	8:2 FTS	<6.2	6.2	
DWS-92	EPA Method 1633	06/10/2025	9Cl-PF3ONS	<6.2	6.2	
DWS-92	EPA Method 1633	06/10/2025	ADONA	<6.2	6.2	
DWS-92	EPA Method 1633	06/10/2025	HFPO-DA	<6.2	6.2	
DWS-92	EPA Method 1633	06/10/2025	NEtFOSA	<1.5	1.5	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-92	EPA Method 1633	06/10/2025	NEtFOSAA	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	NEtFOSE	<15.5	15.5	
DWS-92	EPA Method 1633	06/10/2025	NFDHA	<3.1	3.1	
DWS-92	EPA Method 1633	06/10/2025	NMeFOSA	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	NMeFOSAA	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	NMeFOSE	<15.5	15.5	
DWS-92	EPA Method 1633	06/10/2025	PFBA	<6.2	6.2	
DWS-92	EPA Method 1633	06/10/2025	PFBS	12.2	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFDA	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFDoA	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFDoS	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFDS	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFEESA	<3.1	3.1	
DWS-92	EPA Method 1633	06/10/2025	PFHpA	4.7	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFHpS	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFHxA	15.8	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFHxS	8.4	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFMBA	<3.1	3.1	
DWS-92	EPA Method 1633	06/10/2025	PFMPA	<3.1	3.1	
DWS-92	EPA Method 1633	06/10/2025	PFNA	1.6	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFNS	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFOA	**20.1**	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFOS	**5**	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFOSA	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFPeA	21.1	3.1	
DWS-92	EPA Method 1633	06/10/2025	PFPeS	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFTeDA	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFTrDA	<1.5	1.5	
DWS-92	EPA Method 1633	06/10/2025	PFUnA	<1.5	1.5	
DWS-93	EPA Method 1633	08/07/2025	11Cl-PF3OUdS	<6.3	6.3	
DWS-93	EPA Method 1633	08/07/2025	3:3 FTCA	<7.9	7.9	
DWS-93	EPA Method 1633	08/07/2025	4:2 FTS	<6.3	6.3	
DWS-93	EPA Method 1633	08/07/2025	5:3 FTCA	<39.4	39.4	
DWS-93	EPA Method 1633	08/07/2025	6:2 FTS	<6.3	6.3	
DWS-93	EPA Method 1633	08/07/2025	7:3 FTCA	<39.4	39.4	
DWS-93	EPA Method 1633	08/07/2025	8:2 FTS	<6.3	6.3	
DWS-93	EPA Method 1633	08/07/2025	9Cl-PF3ONS	<6.3	6.3	
DWS-93	EPA Method 1633	08/07/2025	ADONA	<6.3	6.3	
DWS-93	EPA Method 1633	08/07/2025	HFPO-DA	<6.3	6.3	
DWS-93	EPA Method 1633	08/07/2025	NEtFOSA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	NEtFOSAA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	NEtFOSE	<15.8	15.8	

Table 10. Domestic Water Supply Wells Analytical Results

Sample ID	Analytical Method	Date Collected	Analyte	Result (ng/L)	RL	Qual.
DWS-93	EPA Method 1633	08/07/2025	NFDHA	<3.2	3.2	
DWS-93	EPA Method 1633	08/07/2025	NMeFOSA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	NMeFOSAA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	NMeFOSE	<15.8	15.8	
DWS-93	EPA Method 1633	08/07/2025	PFBA	<6.3	6.3	
DWS-93	EPA Method 1633	08/07/2025	PFBS	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFDA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFDoA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFDoS	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFDS	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFEESA	<3.2	3.2	
DWS-93	EPA Method 1633	08/07/2025	PFHpA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFHpS	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFHxA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFHxS	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFMBA	<3.2	3.2	
DWS-93	EPA Method 1633	08/07/2025	PFMPA	<3.2	3.2	
DWS-93	EPA Method 1633	08/07/2025	PFNA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFNS	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFOA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFOS	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFOSA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFPeA	<3.2	3.2	
DWS-93	EPA Method 1633	08/07/2025	PFPeS	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFTeDA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFTrDA	<1.6	1.6	
DWS-93	EPA Method 1633	08/07/2025	PFUnA	<1.6	1.6	

Notes:

ND = not detected; no quantitative reporting limit available

NRL = reporting limit not reported in original laboratory documentation

Qual. = qualifier (listed if provided in lab reports)

RL = reporting limit

= exceedance in the Hazard Index (HI)

Bold indicates that the value exceeds U.S. Environmental Protetion Agency (EPA) maximum contaminant levels (MCLs).

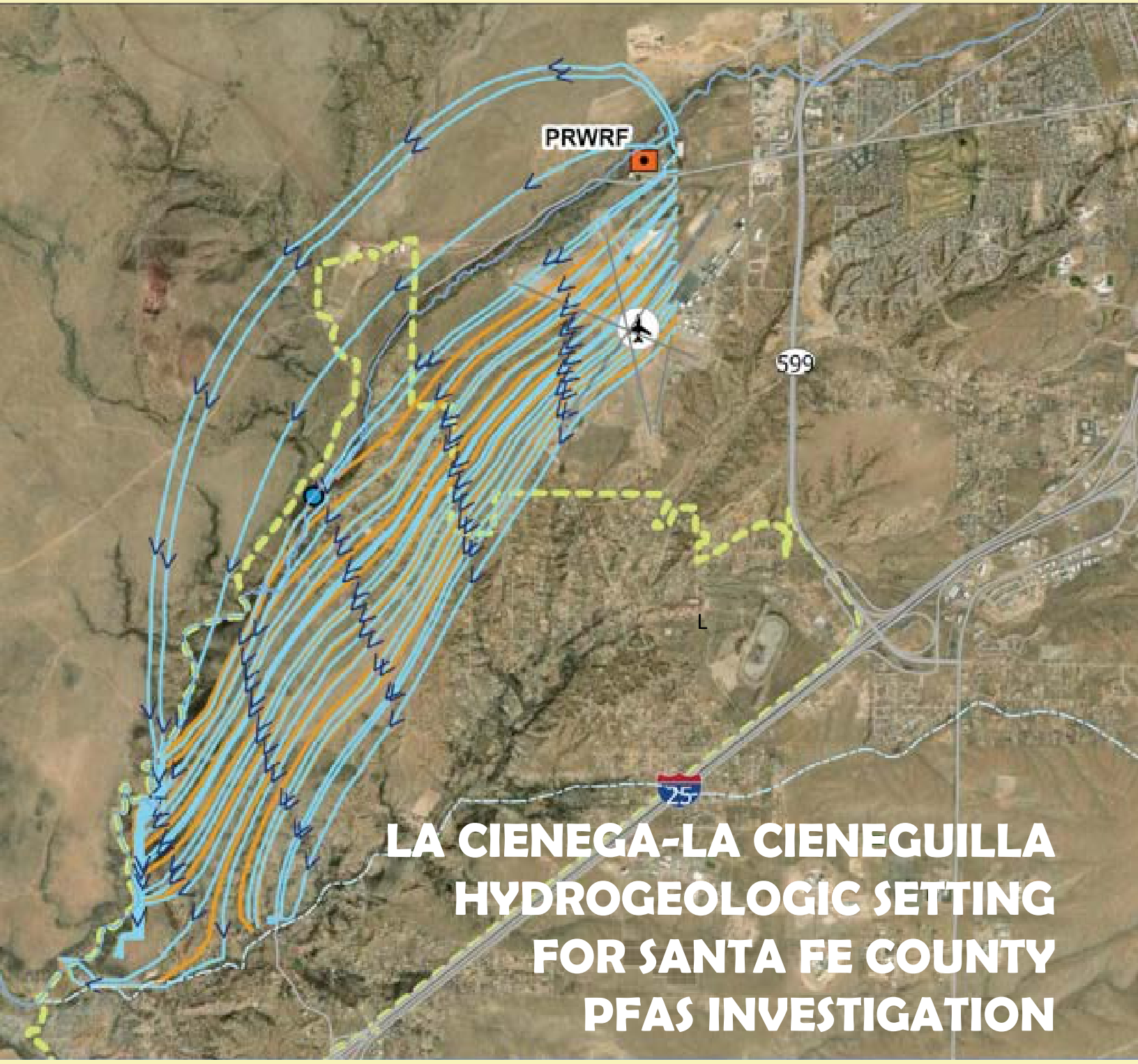
Because multiple analytical methods are used, analytes analyzed may vary.

When laboratory reports listed the result, LOQ, detection limit (DL), and qualifiers, results qualified as "U" were treated as non-detects. The associated numeric result values represent laboratory reporting limits rather than measured concentrations. These values are not included in the screening level assessment. This occurs for analytical method QSM B15. For these results, the LOQ is used as the RL.

APPENDIX A

JSAI Hydrogeologic Setting Report

DECEMBER 2025



LA CIENEGA-LA CIENEGUILLA HYDROGEOLOGIC SETTING FOR SANTA FE COUNTY PFAS INVESTIGATION

JSAI

JOHN SHOMAKER & ASSOCIATES, INC.
WATER-RESOURCE AND ENVIRONMENTAL CONSULTANTS
ALBUQUERQUE, NM * www.shomaker.com * 505-345-3407

LA CIENEGA-LA CIENEGUILLA HYDROGEOLOGIC SETTING FOR SANTA FE COUNTY PFAS INVESTIGATION

by

Steven T. Finch, CPG, PG

Ryan Boyle, GIT

JOHN SHOMAKER & ASSOCIATES, INC.
Water-Resource and Environmental Consultants
2611 Broadbent Parkway NE
Albuquerque, New Mexico 87107
505-345-3407
www.shomaker.com

prepared for

INTERA Incorporated

and

Santa Fe County

December 17, 2025

CONTENTS

page

1.0 INTRODUCTION 1

2.0 HYDROGEOLOGIC CHARACTERIZATION 1

2.1 Geologic Setting 1

2.2 Groundwater Flow 11

2.3 Gaining and Losing Streams 11

2.4 Aquifer Properties 13

2.5 Hydrogeologic Conceptual Model 14

3.0 MODELING AND PARTICLE TRACKING 15

3.1 Overview of JSAI Santa Fe City Well Field Model 15

3.2 Model Updates 17

3.2.1 Model-Simulated Pumping 17

3.2.2 Calibration Targets and Performance 19

3.3 Particle Tracking Results 20

3.3.1 Flow Paths and Transport Patterns 20

3.3.2 Sensitivity Analysis and Limitations 20

4.0 REFERENCES 22

TABLES

page

Table 1. Summary of geologic units found in La Cienega-La Cieneguilla study area (after Koning and Read (2010)) 3

Table 2. Summary of hydraulic conductivity data 13

Table 3. Summary of Darcy tracer velocity calculations 14

Table 4. Summary of model-assigned hydraulic properties 15

Table 5. Summary of changes to JSAI (2018) groundwater flow model 17

Table 6. Steady-state water budget 19

Table 7. Historical-transient water budget 19

ILLUSTRATIONS

page

Figure 1. Geologic map of La Cienega-La Cieneguilla area, Santa Fe County, New Mexico. 2

Figure 2. Structure contour map for the top of Tesuque Formation, and estimated areas of overlying saturated Ancha Formation. 5

Figure 3. Hydrogeologic cross-section A-A' 6

Figure 4. Hydrogeologic cross-section B-B'. 7

Figure 5. Hydrogeologic cross-section C-C'. 8

Figure 6. Hydrogeologic cross-section D-D' 9

Figure 7. Hydrogeologic cross-section E-E' 10

Figure 8. Map showing water-level elevation contours and stream reaches gaining or losing to groundwater. 12

Figure 9. Map showing JSAI (2018) model extent, grid, and assigned boundary conditions. 16

Figure 10. Map showing JSAI (2018) model extent, grid, and study area. 18

Figure 11. Aerial photograph showing 2025 model particle-tracking results (each arrow is the distance traveled in 10 years) 21

LA CIENEGA-LA CIENEGUILLA HYDROGEOLOGIC SETTING FOR SANTA FE COUNTY PFAS INVESTIGATION

1.0 INTRODUCTION

John Shomaker & Associates, Inc. (JSAI) was subcontracted by INTERA Incorporated to assist with developing a hydrogeologic conceptual model of the La Cienega and La Cieneguilla area PFAS (per- and polyfluoroalkyl substances) investigation for Santa Fe County.

2.0 HYDROGEOLOGIC CHARACTERIZATION

The hydrogeology of the Santa Fe area has been studied in detail by Spiegel and Baldwin (1963), Johnson et al. (2009), and Koning and Read (2010), and the hydrogeology of the La Cienega area has been studied in detail by Johnson and others (2016), and Finch (2023). These existing studies were combined with more-recent well logs that were used to characterize the hydrogeology of the La Cienega-La Cieneguilla study area (Fig. 1).

2.1 Geologic Setting

Descriptions of geologic units found in the study area were referenced from Koning and Read (2010), which are summarized in Table 1. A geologic map of the study area is presented as Figure 1. The Tesuque Formation is composed of various units of paleo-drainage basins, called lithosomes. Tesuque Formation lithosomes are alluvial-transported sediments underlying the La Cienega area by the ancestral Santa Fe River. Lithosome S, a reddish pebbly sand, was deposited on west sloping fluvial fan, which is divided into course-, medium-, and fine-grained units. Lithosome E, a gray-brown volcanoclastic, clayey-silty sandstone, derives from regional basanite volcanics. Erosion created the modern hills and valleys topographically seen today. The more recent Ancha Formation fills in erosional surfaces of the Tesuque Formation with predominately sand and gravel derived from the Sangre de Cristo Mountains and ancestral Santa Fe River, and forms the upper Santa Fe Group aquifer unit. Some localized fine-grained deposits (silt and clay) can be found in the Ancha Formation.

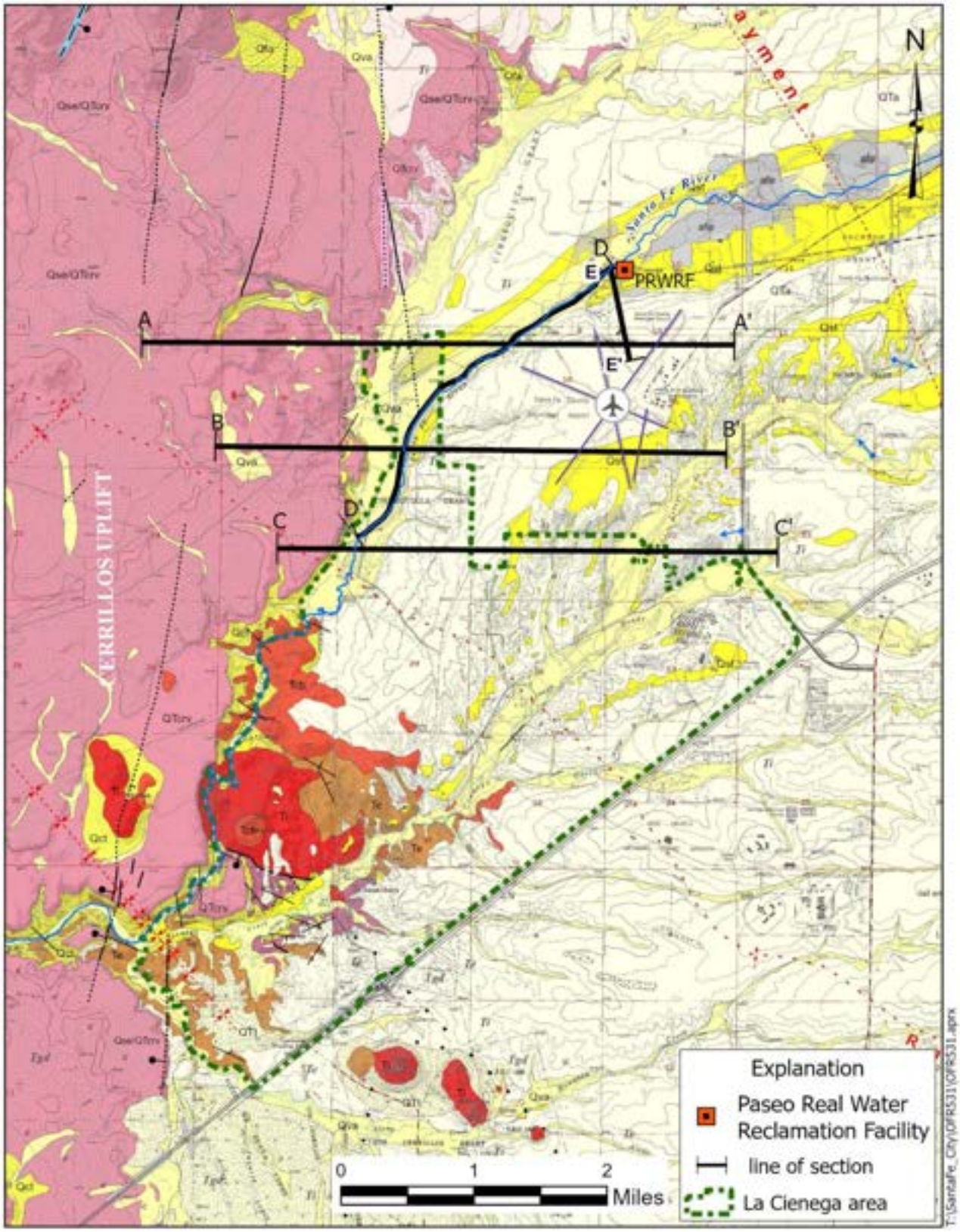


Figure 1. Geologic map of La Cienega-La Cieneguilla area, Santa Fe County, New Mexico.

Table 1. Summary of geologic units found in La Cienega-La Cieneguilla study area (after Koning and Read (2010)

geologic unit	geologic symbol	unit description
alluvium	Qam, Qamg, Qay, Qao_1, Qst, Qva	Quaternary alluvial and colluvial deposits approximately 50 ft thick; interbedded sand, clayey-silty sand, and subordinate gravel that underlies valley floors
volcanic rocks	QTcrv	Cerros del Rio volcanic rocks, basalt and andesite flows overlying phreatomagmatic deposits
Ancha Fm	QTa, QTars, QTbtt	Ancha Formation of the Santa Fe Group sedimentary deposits, approximately 50 ft thick east of La Cieneguilla; arkosic sand, silty-clayey sand, and gravel unconformably overlying tilted basin-fill of the Santa Fe Group
Tesuque Fm	Tts, Ttse	Tesuque Formation of the Santa Fe Group basin-fill deposits, up to 10,000 ft thick, sand with minor gravel, silt, and clay: subdivided into three lithosomes (S, E, and A). Lithosome S and SE of the Tesuque Formation, approximately 250 ft thick; occurs most prevalently in the area of study
older bedrock units	Tcb, Ti, Tg, Te	volcanic rocks, and consolidated sediments of the Galisteo Formation, and Espinaso Formation

Prominent structural features of the La Cienega-La Cieneguilla area include the Cerrillos Uplift, Rancho Viejo Hinge Zone and Santa Fe Embayment synclinal axis, and the surface of the Tesuque Formation (Koning and Read, 2010). The Cerrillos Uplift exists as an uplifted structural and topographic barrier to the west of the study area, and is composed of bedrock units, Santa Fe Group sediments, and the more recent Cerros del Rio volcanoclastic rocks (Fig. 1).

The Rancho Viejo Hinge Zone encompasses the study area and runs northwest southeast and hinges to the northeast. The axis of the hinge zone crosses the Santa Fe River at La Cieneguilla, through Arroyo Hondo and Cienega Creek going southeast. The hinge zone structurally divides the Santa Fe platform to the south and the Española Basin to the north (see Koning and Read, 2010).

Due to tectonic flexure at the Rancho Viejo Hinge Zone, a modern northward plunging synclinal feature formed along the Santa Fe Embayment Synclinal Axis, causing Tesuque Formation sediments to dip to the west in the Santa Fe area, and to dip back to the east in the study area.

The coarser-grained Ancha Formation was deposited on the erosional surface of the Tesuque Formation. A structure contour map of the top of Tesuque Formation is presented as Figure 2. The Ancha Formation is thickest where it filled in ancestral valleys on the Tesuque Formation surface. The Tesuque Ridge is a topographic high of Tesuque Formation that separates the saturated Ancha Formation along the Santa Fe River from the saturated Ancha Formation in the Cienega Creek drainage. Most domestic water-supply wells in La Cienega and La Cieneguilla produce groundwater from the Ancha Formation.

Using results from Johnson et al. (2016) and available well logs, JSAI prepared hydrogeologic cross-sections of the study area (Figs. 3 through 6). The lines-of-section can be referenced from Figure 1. The cross-sections provide the structural context of the geologic units, depth-to-water, and locations of significant hydrologic features such as and the Santa Fe River. The hydrogeologic cross-sections represent the geology about 400 ft below the regional water table where most all water-supply wells in the area are completed. The deeper geologic formations that highlight the Cerrillos Uplift are not shown.

Hydrogeologic cross-section A-A' indicates the Ancha Formation extends to the west across the Cerrillos Uplift; based on well log RG-75421. The extent and thickness of the Ancha Formation west of the Santa Fe River are poorly understood and defined.

Hydrogeologic cross-sections A-A', B-B', and C-C' show that the Cerros del Rio basalt was deposited on top of the Ancha Formation, but well logs and field observations indicate some smaller basalt flows occurred during deposition of the Ancha Formation.

Hydrogeologic cross-section D-D' is along the Santa Fe River from Paseo Real Water Reclamation Facility (PRWRF) to Cieneguilla Spring (Figs. 1 and 6). Basalt flows in the Ancha Formation are indicated in well logs to construct hydrogeologic cross-section D-D'. Older volcanic rocks associated with the Cerrillos Uplift are near the surface at Cieneguilla Spring, which caused the Tesuque Formation to pinch out to the south (Fig. 6).

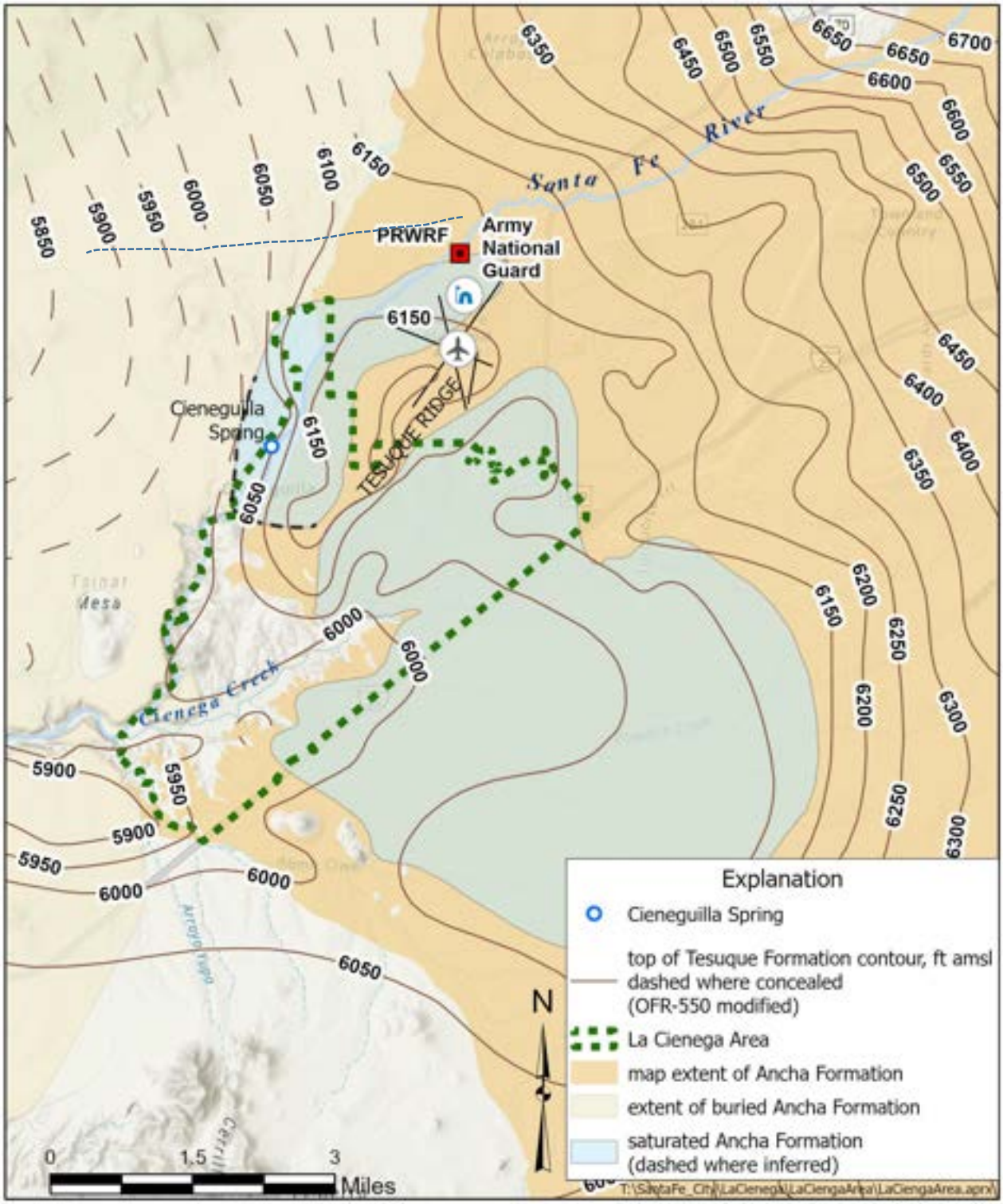


Figure 2. Structure contour map for the top of Tesuque Formation, and estimated areas of overlying saturated Ancha Formation.

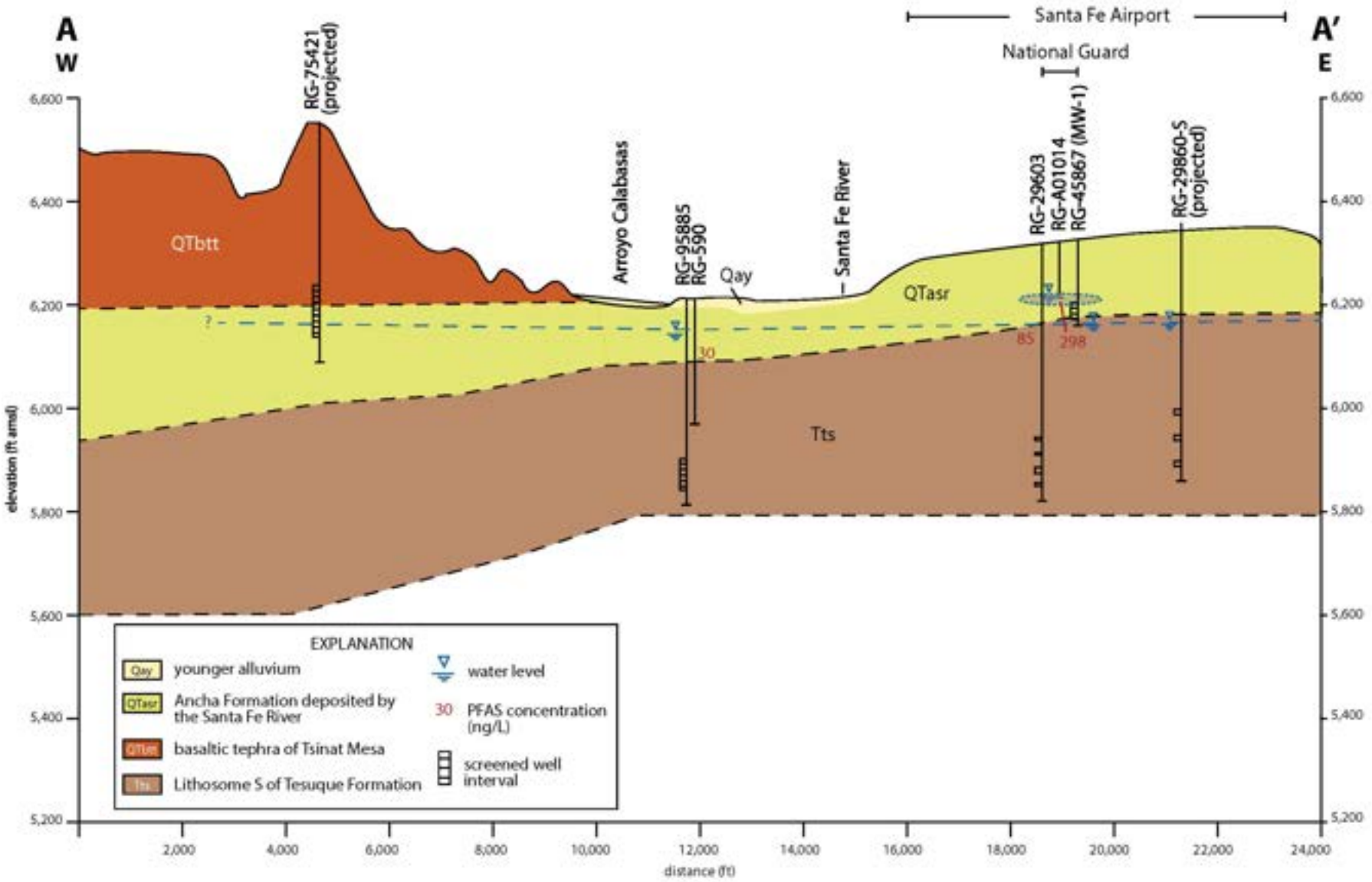


Figure 3. Hydrogeologic cross-section A-A'.

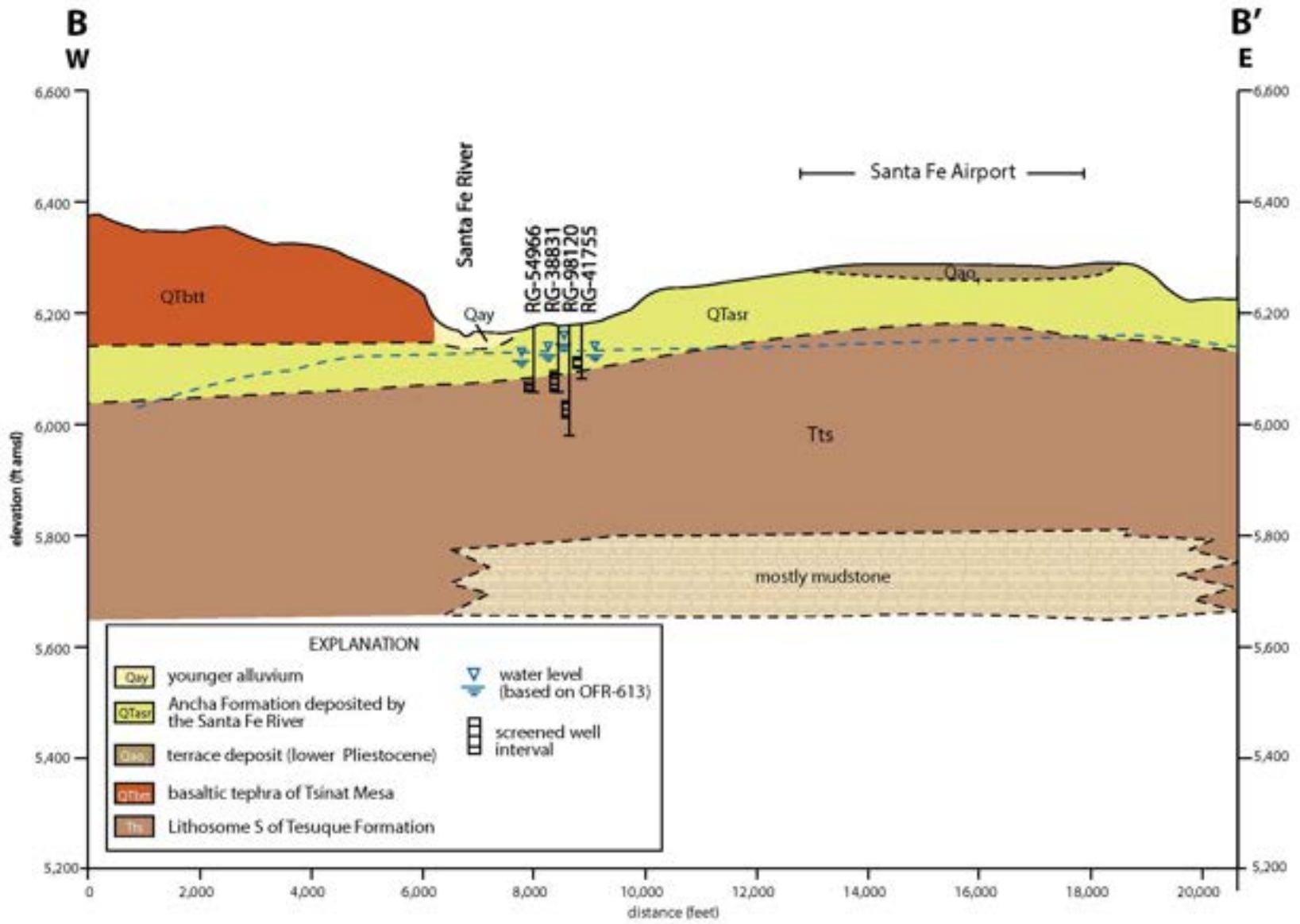


Figure 4. Hydrogeologic cross-section B-B'.

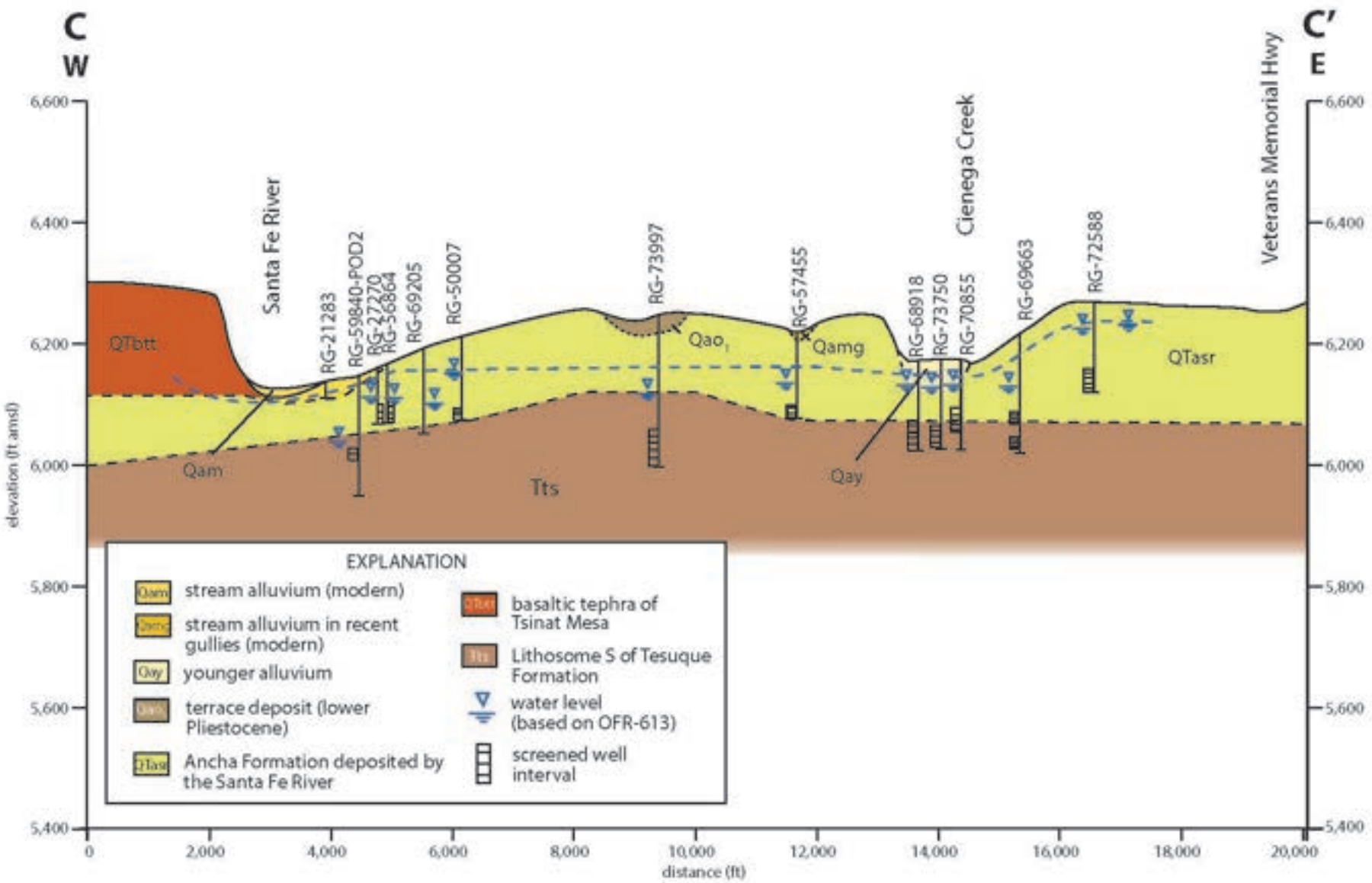


Figure 5. Hydrogeologic cross-section C-C'.

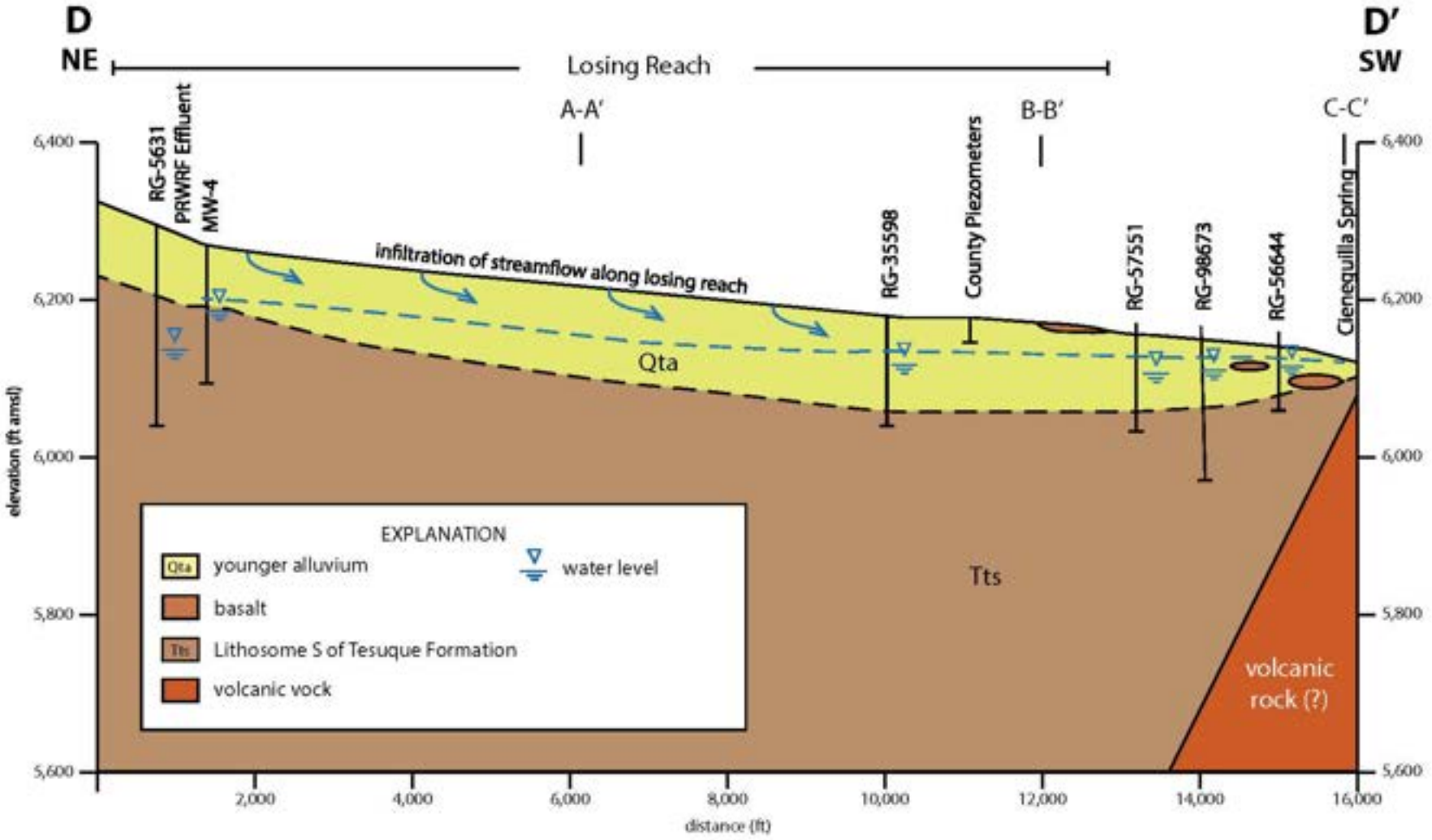


Figure 6. Hydrogeologic cross-section D-D'.

Several monitoring wells have been drilled at the Santa Fe National Guard and PRWRF potential source areas. The area is underlain by Ancha Formation in which a low-permeability zone with perched groundwater has been identified (Fig. 7). The regional groundwater system is in the lower portion of Ancha Formation and Tesuque Formation (Fig. 7). Based on monitoring well data, the PFAS plume beneath the Santa Fe National Guard site appears to have migrated vertically to the perched groundwater system and then to the regional water table where the perched system is absent.

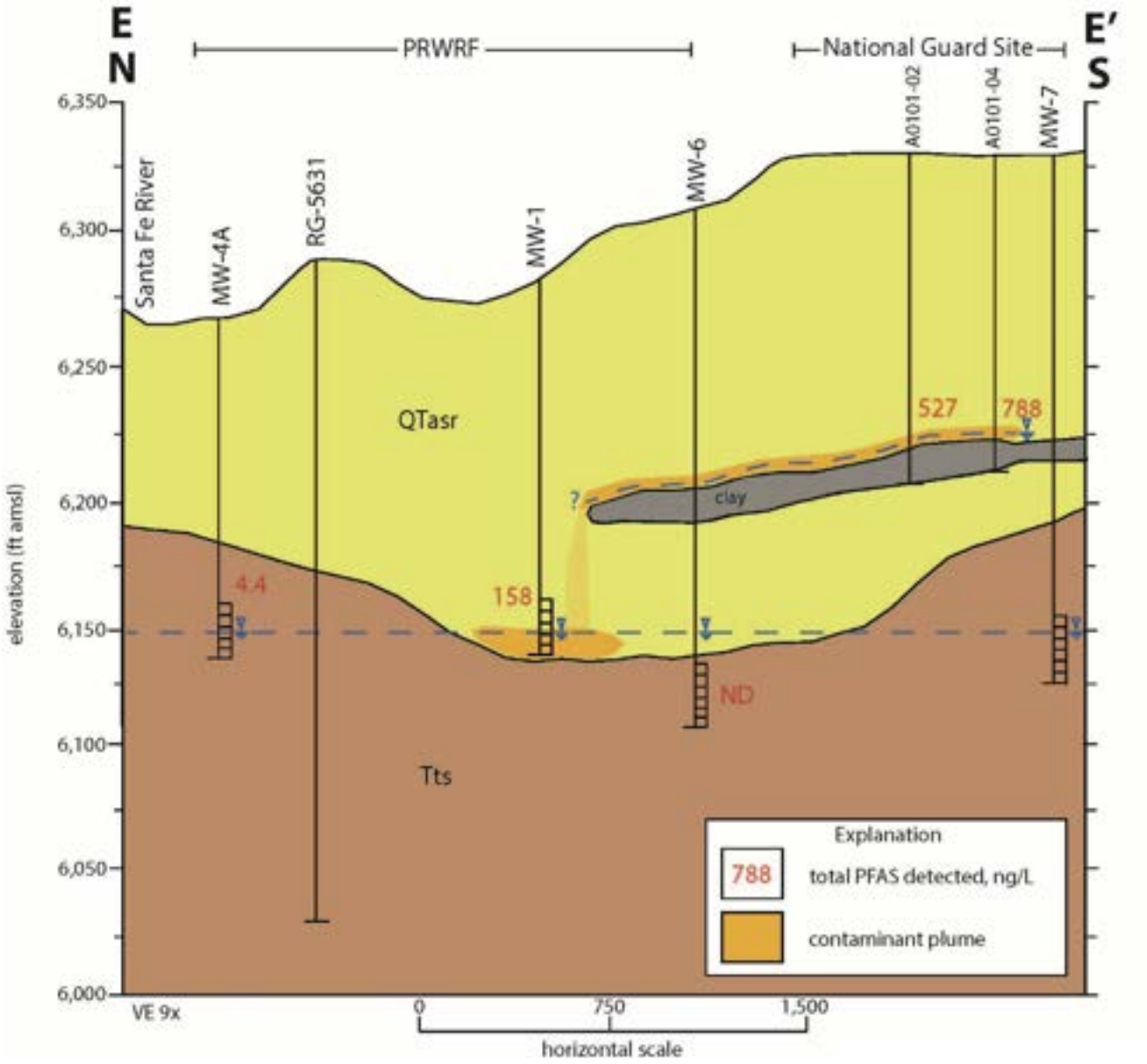


Figure 7. Hydrogeologic cross-section E-E'.

2.2 Groundwater Flow

Groundwater flow in the La Cienega-Cieneguilla study area of Santa Fe County generally trends northeast to southwest (Fig. 8). Groundwater flow is toward Cienega Creek because Cienega Creek is gaining from groundwater inflow. Groundwater flow direction near PRWRF and Santa Fe Airport is generally southwest (Fig. 8). Southwest of the Santa Fe Airport, groundwater flow is toward the Santa Fe River along the reach that is gaining from groundwater inflow.

A key hydrogeologic unit controlling regional groundwater movement is the interbedded sedimentary units of the Tesuque Formation. Regional groundwater in the Tesuque Formation flows into the overlying Ancha Formation. In La Cienega, groundwater emerges at springs and wetlands where it intersects land surface. Additionally, buried paleochannels and coarser sedimentary lenses both within the Ancha Formation are known to act as groundwater flow conduits. Overall, the interplay between geologic formations, structural controls, and surface hydrology defines the dynamic groundwater system in this region.

2.3 Gaining and Losing Streams

The Santa Fe River reach from PRWRF to Cieneguilla Spring is losing to groundwater (see Figs. 6 and 8). This reach of the Santa Fe River is losing to groundwater but perennial conditions are maintained by discharges of treated effluent from the City of Santa Fe PRWRF. Seepage studies by JSAI (2023) measured about 1.5 cubic feet per second (cfs) of streamflow loss.

The Santa Fe River is gaining from groundwater at and downstream of Cieneguilla Spring to the confluence with Cienega Creek (Fig. 8). Santa Fe River streamflow downstream of Cieneguilla Spring is a mixture of groundwater inflow and discharge effluent from PRWRF.

Cienega Creek drains most of the area south of the Santa Fe Airport. Cienega Creek streamflow is supported by a number of natural springs; however, streamflow varies between irrigation and non-irrigation seasons.

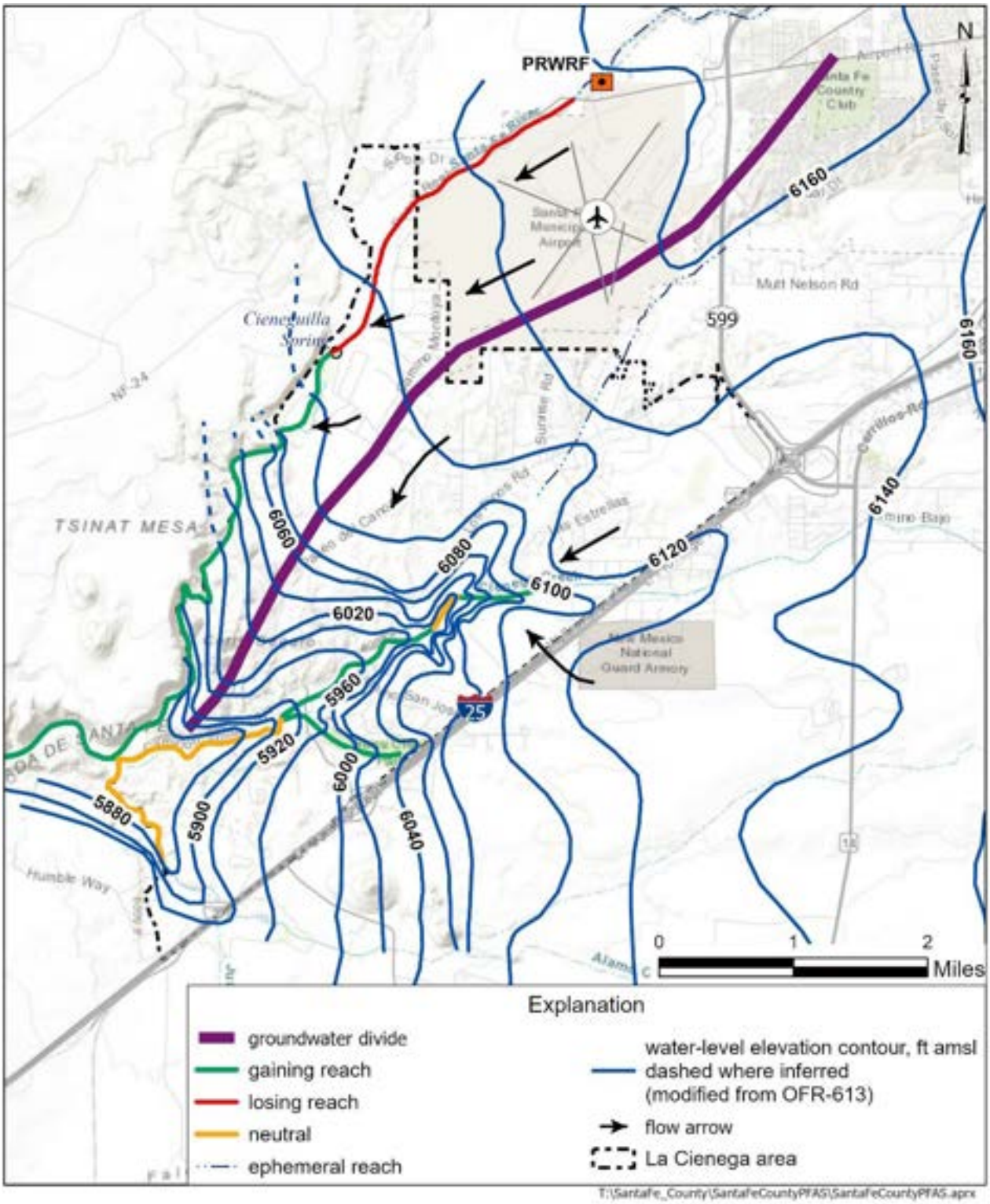


Figure 8. Map showing water-level elevation contours and stream reaches gaining or losing to groundwater.

2.4 Aquifer Properties

In regards to contaminant transport in groundwater systems, the primary aquifer property is hydraulic conductivity. JSAI (2018) summarized hydraulic conductivity data by formation and lithosome (Table 2). The Tesuque Formation has lower hydraulic conductivities (1 to 5 ft/day) than the younger Ancha Formation coarse gravel (10 to 100 ft/day). These Santa Fe Group units differ by one magnitude and govern preferential flow paths in the subsurface. The saturated thickness of the localized Ancha Formation deposited in buried valleys formed on the Tesuque Formation surface can exceed 100 ft.

Table 2. Summary of hydraulic conductivity data

	Ancha Formation (ft/day)	Tesuque Formation				Espinaso Formation (ft/day)
		Tta	Ttsc	Ttsm	Ttsf	
number	14	15	11	12	11	7
average	52.3	0.4	11.2	1.2	0.4	0.1
median	15.5	0.4	8.9	1.3	0.3	0.04
range	3 - 252	0.02 - 0.9	4.4 - 26	0.4 - 2.2	0.03 - 1.4	0.01 - 0.4

Tta – Lithosome A of Tesuque Formation
Ttsc – coarse-grained unit of Tesuque Formation Lithosome S
Ttsm – medium-grained unit of Tesuque Formation Lithosome S
Ttsf – fine-grained unit of Tesuque Formation Lithosome S

The velocity of contaminants in groundwater, Darcy tracer velocity, can be calculated by using hydraulic conductivity of the aquifer unit and hydraulic gradient from water-level elevation contours (Fig. 8). The Darcy tracer velocity equation is as follows:

$$Vx = \frac{Q}{(Ne * A)}$$

Where,

Vx equals tracer velocity in ft/day
Q equals groundwater flux in ft^3/day calculated from Darcy's Law (Q=KIA), where
K equals hydraulic gradient in ft/day and **I** equals hydraulic gradient in ft/ft (0.0033 ft/ft)
Ne equals effective porosity (unitless; estimated at 0.1)
A equals cross-sectional area in ft^2 (2,640 ft wide by 10 ft thick, or 26,400 ft^2)

From potential PFAS source areas at or near the City Fe Airport to Cieneguilla is about 2 miles distance. The average hydraulic gradient for this flow field is 0.0033 ft/ft. Table 3 is a summary of Darcy tracer velocity calculations for a range of expected hydraulic conductivity values observed in the Ancha and Tesuque Formations. From the Darcy tracer velocity calculations, it is apparent that the Ancha Formation (10 to 100 ft/day) is the preferred contaminant transport pathway, with travel times for the 2-mile-long flow field ranging from 8.7 to 35 years.

Table 3. Summary of Darcy tracer velocity calculations

K (ft/day)	Q (ft^3/day)	Vx (ft/day)	time to travel 2 miles (years)
1	**87.1**	**0.03**	**876.0**
5	435.6	0.17	175.0
10	871.2	0.83	35.0
50	4,356.0	1.65	17.5
100	8,712.0	3.30	8.7

K - hydraulic gradient
Q - groundwater flux
Vx - tracer velocity

2.5 Hydrogeologic Conceptual Model

The primary aquifer system in the study area is the Ancha Formation and underlying Tesuque Formation. Most domestic wells in the La Cienega and Cieneguilla area are completed in the Ancha Formation where saturated and in the Tesuque Formation where the Ancha Formation is not saturated.

Regionally, groundwater moves west-southwest from recharge zones near the Sangre de Cristo Mountains toward lower elevations along Cienega Creek and Santa Fe River. Preferential flow paths are found where the Ancha Formation is saturated in depressions or paleo-valleys on the Tesuque Formation surface. The saturated Ancha Formation along the Santa Fe River is separate from the saturated Ancha system in La Cienega. Recharge to the Ancha aquifer system along the Santa Fe River occurs primarily by infiltration of streamflow where the river reach is losing to groundwater. The La Cienega Ancha aquifer system is recharged upgradient of La Cienega and receives groundwater inflow from the regional Tesuque system aquifer, which discharges groundwater to Cienega Creek.

3.0 MODELING AND PARTICLE TRACKING

An existing groundwater flow model developed by JSAI (2018) was updated and used to evaluate contaminant transport pathways in the La Cienega-La Cieneguilla study area. The extent of the JSAI (2018) groundwater flow model can be referenced from Figure 9, in which the southwestern corner of the model includes the La Cienega-La Cieneguilla study area (except the southwestern corner of the study area).

3.1 Overview of JSAI Santa Fe City Well Field Model

The MODFLOW-96 finite difference code (Harbaugh and McDonald, 1996) and the graphical user interface Groundwater Vistas (Rumbaugh and Rumbaugh, 2007) were used to create and update the Santa Fe area model. Figure 9 presents the model grid, extent of the model domain, and model-assigned boundaries. The model is oriented north to south (no rotation) and represents an area of about 14.5 miles by 14.5 miles. The model grid consists of 104 rows and 117 columns with an even spacing of 660 ft. The model origin (SW corner) is at X = 1,328,370 ft, Y = 11,456,800 ft UTM NAD27. The model is georeferenced in Groundwater Vistas to UTM NAD84. Model length is in feet, and time is in days.

The top of model is based on a Digital Elevation Model, and has four model layers. The elevation tops and bottoms for each layer were defined from the geologic model developed by Koning and Read (2010). Layer 1 represents the Ancha Formation and the coarse-grain unit of Lithosome S, Layer 2 represents the medium-grain unit of Lithosome S, Layer 3 represents the fine-grain unit of Lithosome S, and Layer 4 represents fractured rock in the mountain front and older formations underlying the Tesuque Formation. Model Layers 1 through 3 have variable thickness. The top of Layer 1 is the land surface from the U.S. Geological Survey National Elevation Database at a 1/3 arc-second (approximately 10 meters) 2013 1x1 degree resolution. Layers 1 through 4 were re-defined as MODFLOW "type 3" (confined until the head falls below the top of the layer, at which point the layer converts to unconfined storage and transmissivity changes with saturated thickness). Model-assigned hydraulic properties are summarized in Table 4.

Table 4. Summary of model-assigned hydraulic properties

model layer	geologic unit	horizontal hydraulic conductivity (ft/day)	vertical hydraulic conductivity (ft/day)	specific yield (percent)	specific storage (1/ft)
1	Ancha Formation coarse unit	25.000 5.000	0.25 0.05	0.1	1e-6
2	medium unit	0.750	0.0075	0.1	1e-6
3	fine unit	0.133	0.00133	0.1	1e-6
4	fractured rock older rocks	0.167	0.00167	0.05	1e-6

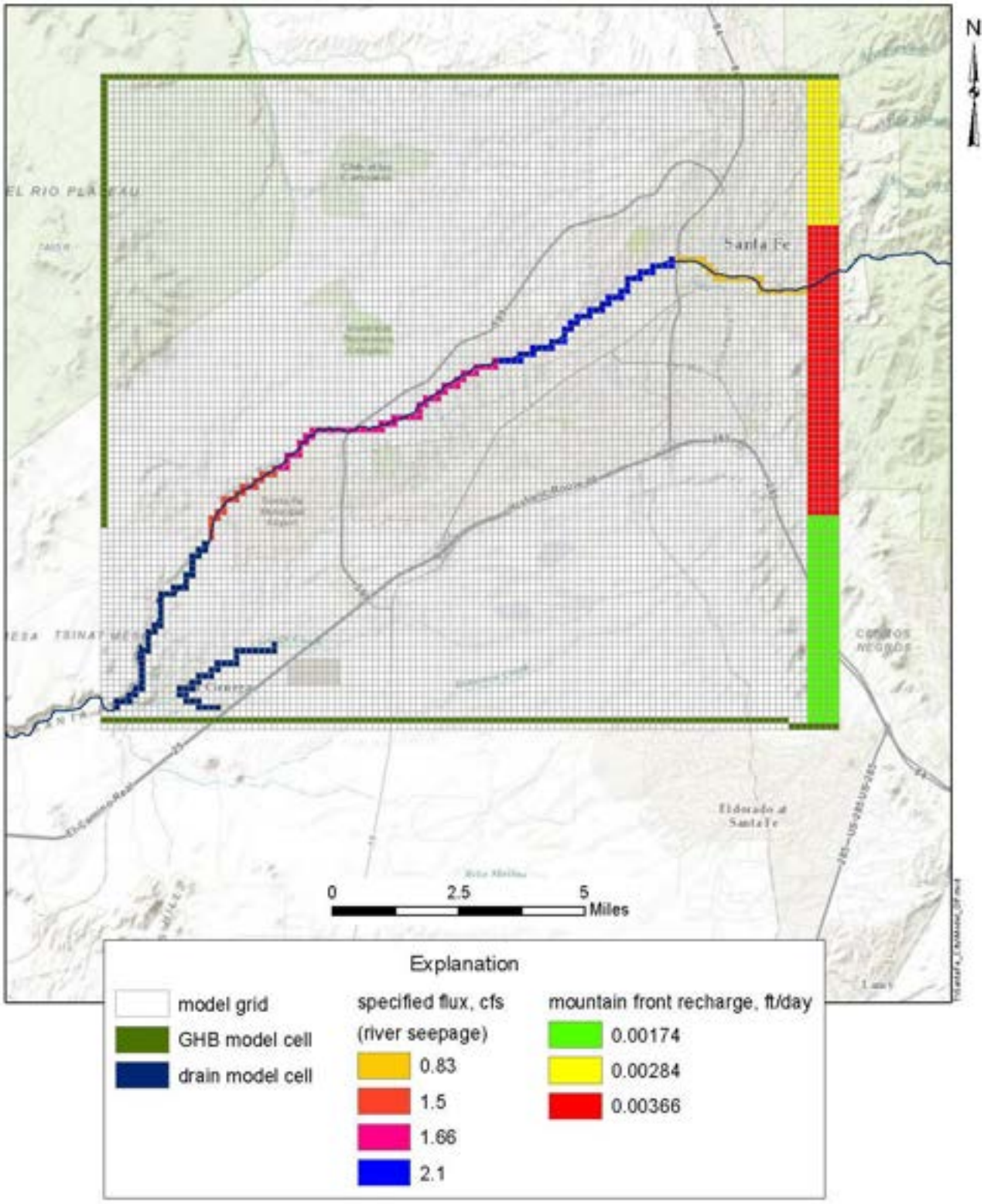


Figure 9. Map showing JSAI (2018) model extent, grid, and assigned boundary conditions.

3.2 Model Updates

To better represent the La Cienega-La Cieneguilla area, updates to the JSAI (2018) groundwater flow model were performed (Table 5). The model updates included:

1. Better representation of recharge from Santa Fe River seepage for the reach PRWRF to Cieneguilla (1.5 cfs).
2. Add model-simulated pumping related to the Hagerman irrigation well and domestic wells.
3. Adjustments to the general head boundaries (GHB) for better model calibration. Stops at row 72 for top segment, starts at column 17 on bottom segment.
4. Adjusted the active area in Layer 1 to better represent the Ancha Formation.
5. Adjusted boundary conditions along the west and southern sides of model domain.

Table 5. Summary of changes to JSAI (2018) groundwater flow model

model component	change description	change reasoning	result
hydraulic conductivity	from 10 ft/day for area below SF airport and off river to 1 ft/day	Tesuque ridge not modeled in previous versions	more accurate particulate pathways and groundwater flow
hydraulic conductivity	from 10 ft/day southwest to 30 ft/day southwest	geologic	more accurate particulate pathways and groundwater flow
GHB conductance	western model edge GHB conductance of 125 ft/day to 10 ft/day	hydrologic	to better calibrate to observed heads and Santa Fe River seepage recharge
hydraulic conductivity and storage for increased active model domain	expansion to west	hydrologic	more representative groundwater flow in Ancha
simulation of groundwater pumping	added 724 domestic wells within the study area	hydrologic	more realistic groundwater stresses

GHB - general head boundaries

3.2.1 Model-Simulated Pumping

JSAI had previously extracted domestic well data from the New Mexico Office of the State Engineer (NMOSE) POD-search database and verified well completion and location. 724 domestic wells were imported into the model. RG-590, a groundwater well located 0.87 miles west of the Santa Fe Airport, pumps the greatest at 50 acre-feet per year (ac-ft/yr). Model-simulated groundwater pumping totaled 2,394 ac-ft/yr for the future simulation. The model domain does not include the southwestern corner of the study area (Fig. 10); however, there are no wells in this portion of the study area.

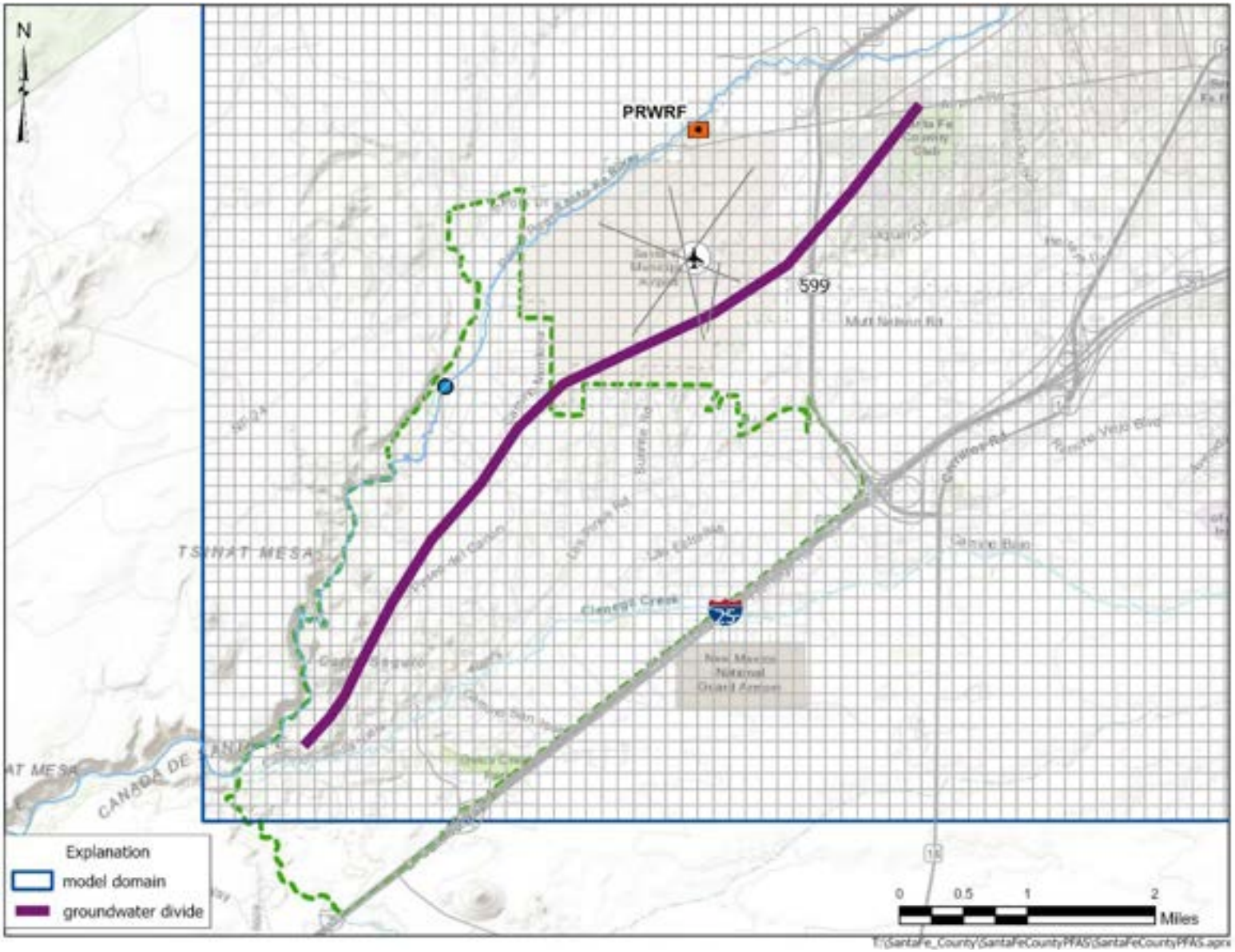


Figure 10. Map showing JSAI (2018) model extent, grid, and study area.

3.2.2 Calibration Targets and Performance

Calibration targets and performance were largely addressed by JSAI (2018), and subsequent updates to the model did not significantly alter the model-simulated water balance or the simulated groundwater heads. Model-simulated groundwater elevation contours were compared to current measured groundwater flow contours to validate spatial consistency, and calibration included matching observed groundwater discharges at Cienega Creek and Cieneguilla Spring. Changes in the water budget from parameter adjustments (outlined above in Table 5) are summarized below in Tables 6 and Table 7.

However, these changes to the model-simulated water budget were not substantial enough to warrant an additional sensitivity analysis, as the model's response remained within expected bounds and did not materially affect the overall water budget.

Table 6. Steady-state water budget

component	2018 inflow (ac-ft/yr)	2018 outflow (ac-ft/yr)	updated inflow (ac-ft/yr)	updated outflow (ac-ft/yr)
mountain front recharge	5,413	0	5,397	0
Santa Fe River	5,623	0	5,504	0
drains at La Cienega	0	3,884	0	4,929
groundwater flux (GHB)	700	7,867	134	6
total	11,736	11,751	11,035	11,035

ac-ft/yr - acre-feet per year
GHB - general head boundaries

Table 7. Historical-transient water budget

component	2018 inflow (ac-ft/yr)	2018 outflow (ac-ft/yr)	updated inflow (ac-ft/yr)	updated outflow (ac-ft/yr)
storage	3,345	1,759	8,708	640
mountain front recharge	5,397	0	5,397	0
Santa Fe River (in), domestic wells (out)	4,594	1,885	2,922	2,393
drains at La Cienega	0	4,773	0	3,139
groundwater flux (GHB)	582	7,137	302	9,525
total	13,918	13,918	17,329	17,330

ac-ft/yr - acre-feet per year
GHB - general head boundaries

3.3 Particle Tracking Results

The updated model was used to simulate potential migration pathways from the Santa Fe Airport area to La Cienega and La Cieneguilla using particle tracking module in Groundwater Vistas for the historical transient model period. The historical transient model period was from 1913 to 2033.

3.3.1 Flow Paths and Transport Patterns

A series of simulated particles were implemented to evaluate potential PFAS migration pathways originating from the Santa Fe Airport. As illustrated in Figure 11, particle trajectories generally followed the prevailing groundwater gradient, moving in a southwesterly direction consistent with alignment of the Santa Fe River. This pattern indicates that the simulated particles were effectively captured by the model's representation of the regional flow system and ultimately discharged to the simulated drains. Notably, two particles deviated westward from the primary flow path and crossing the Santa Fe River, before ultimately ending similarly at the simulated drain. These results highlight the Ancha Formation's role as a broadly transmissive unit, facilitating lateral dispersion of contaminants. Its geologic characteristics appear to support sustained particle transport and accumulation, reinforcing its significance in regional PFAS mobility.

3.3.2 Sensitivity Analysis and Limitations

An additional sensitivity analysis was not conducted.

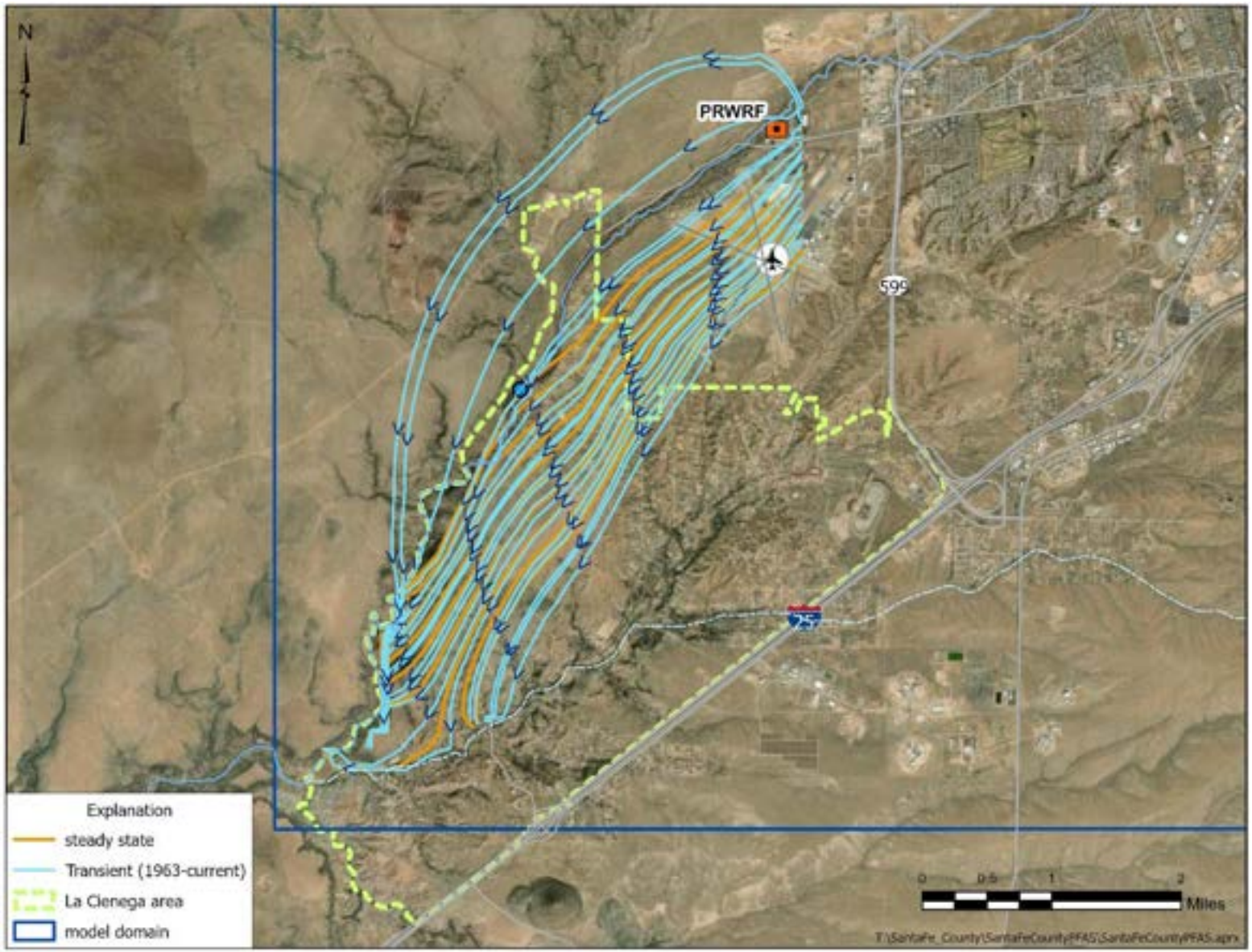


Figure 11. Aerial photograph showing 2025 model particle-tracking results (each arrow is the distance traveled in 10 years).

4.0 REFERENCES

Johnson, P.S., Koning, D.J., and Timmons, S.S., 2016, Geology and Hydrology of Groundwater-Fed Springs and Wetlands at La Cienega, Santa Fe County, New Mexico. New Mexico Bureau of Geology & Mineral Resources. Bulletin-161. https://doi.org/10.58799/B-161

Johnson, P.S., Koning, D.J., and Partey, F.K. (2013). Shallow groundwater geochemistry in the Española Basin, Rio Grande rift, New Mexico: Evidence for structural control of a deep thermal source; in Hudson, M.R. and Grauch, V.J.S., eds., New Perspectives on Rio Grande Rift Basins: From Tectonics to Groundwater: Geological Society of America Special Paper 494, p. 261–301, doi:10.1130/2013.2464(11).

[JSAI] John Shomaker & Associates, Inc., 2018, City of Santa Fe City Well Field Optimization Implementation Plan: consultant's report prepared by CDM Smith; John Shomaker & Associates, Inc. (JSAI); and Bohannan Huston, Inc. (BHI) for the City of Santa Fe Water Division, 69 p. plus appendices.

[JSAI] John Shomaker & Associates, Inc., 2023, City of Santa Fe City Well Field Optimization Implementation Plan: consultant's report prepared by CDM Smith; John Shomaker & Associates, Inc. (JSAI); and Bohannan Huston, Inc. (BHI) for the City of Santa Fe Water Division, 69 p. plus appendices.

Koning, D.J., and Read, A.S., 2010, Geologic Map of the Southern Española Basin: New Mexico Bureau of Geology & Mineral Resources. Open-file Report 531. https://doi.org/10.58799/OFR-531

Minor, S.A., ed., 2006, The Cerrillos Uplift, the La Bajada constriction, and hydrogeologic framework of the Santo Domingo Basin, Rio Grande rift, New Mexico: U.S. Geological Survey Professional Paper 1720, 189 p.

Spiegel, Z., and Baldwin, B., 1963, Geology and water resources of the Santa Fe area, New Mexico: U.S. Geological Survey, Water Supply Paper 1525, 253 p.

APPENDIX B

WEPL Source Identification Report

WESTERN ENVIRONMENTAL

(08) 6162 8980
PO Box 437, Leederville, WA 6903
enquiries@westenv.com.au

Friday, 9 January 2026

Our Ref: Z24.008-LRP-INT-001_1

INTERA Incorporated
Suite 700, 2440 Louisiana Boulevard
Alburquerque, New Mexico, 87110

ATTENTION: Karen Flores

SUBJECT: SANTA FE COUNTY PFAS INVESTIGATION – SOURCE EVALUATION

Introduction

Western Environmental Pty Ltd (WEPL) was engaged by INTERA Incorporated (INTERA) to assist with the identification of potential sources of Per- and Polyfluoroalkyl Substances (PFAS) reported within samples collected from domestic drinking water wells throughout La Cieneguilla and La Cienega.

This letter report presents WEPL's screening level evaluation of available PFAS data and potential sources of contamination surrounding the impacted communities at La Cieneguilla and La Cienega. This letter report should be read in conjunction with the statement of limitations provided in Schedule 1.

Acronyms and abbreviations used throughout this letter report are defined in Attachment A.

Objective

The objective of the screening level source evaluation was to inform potential source differentiations and establish initial lines of evidence for known PFAS impacts within and surrounding the La Cienega and La Cieneguilla communities.

Source Evaluation

Screening level source evaluation was undertaken using standard PFAS analytical data for various media (soil, groundwater, surface water, wastewater, and biosolids), which was collected across several (independent) investigations and sampling events between 2020 and 2025. The outcomes from the screening level source evaluation are presented in the following sections.

The following limitations apply to the screening level source evaluation:

- Specific characteristics (such as lithology, hydrology, hydrogeology) associated with the environmental site setting, individual source areas, and individual PFAS means that it may not be possible to identify a definitive PFAS signature for any single source area.

- Different PFAS have different fate and transport profiles, which may influence and change the PFAS signature as the individual compounds move through the environment. As a result, the evaluation of PFAS signatures may become more difficult with increased distance from the original source area and increased time from the original release to the environment.

- The data that was used for the screening level source evaluation was collected during separate (independent) investigations and sampling events over a period of 5 years. Each individual dataset represents a snapshot of PFAS contamination at the time of sampling and analysis, and evaluation of the collated data may not accurately represent current PFAS signatures.

- The PFAS analytical suite varied between each individual investigation/sampling event, such that the same set of PFAS were not analyzed at all sample locations at all times. The exclusion of some compounds from the laboratory analysis may influence visualization of the PFAS signature at those respective locations.

- In most cases, only one data point is available at each sampling location and the potential effect of temporal, spatial and seasonal changes on PFAS concentrations in the environment are unknown.

- There is no PFAS data for the Santa Fe Regional Airport and limited data for the Paseo Real Water Reclamation Facility (PRWRF). The screening level source evaluation has utilized off-site data (potentially from mixed sources) to provide a preliminary indication of potential source areas. However, due to the absence of on-site data for these potential source areas it is not possible to differentiate (qualitatively or quantitatively) individual contributions from multiple potential source areas.

- A quality assurance/quality control assessment (QA/QC) of the dataset was not undertaken to determine its suitability for use in the screening level source evaluation.

- Advanced forensic methods, such as non-targeted PFAS analysis, were not used during the screening level source evaluation.

Reference Information

PFAS are commonly associated with the historic (and potentially current) use of aqueous film forming foam (AFFF) during firefighting and fire training activities, and the associated storage and disposal of AFFF. Common AFFF formulations typically comprise (National Academies of Sciences, Engineering, and Medicine, 2023):

- Long-chain (typically C8) fluorocarbon surfactants, such as perfluorooctane sulfonic acid (PFOS), which were generally used from the late 1960s and phased out from the early 2000s.

- Short-chain (typically C6) fluorocarbon surfactants, such as perfluorohexane sulfonic acid (PFHxS), which were generally used from the early 2000s as a replacement for the long-chain formulations.

- Fluorotelemer-based AFFF, such as 6:2 fluorotelemer sulfonic acid (6:2 FTS), which were generally used from the 1970s to the mid-2010s and contained precursors that have been known to transform into perfluoroalkyl carboxylic acids (PFCAs), such as perfluorooctanoic acid (PFOA) in the environment.

- Short-chain fluorotelemer-based products (typically C6), which are used in modern AFFF and can transform to other short-chain PFAS, such as perfluorohexanoic acid (PFHxA) and perfluoropentanoic acid (PFPeA) when released to the environment.

PFAS have also been used in a wide range of industrial applications and consumer products since the 1940s, including but not limited to, (USEPA, 2025):

- Metal plating.
- Electronics manufacturing.
- Paper and textile manufacturing.
- Stain- and water-resistant fabrics and coatings.
- Grease-resistant paper (including fast food containers/wrappers).
- Paints, varnishes and sealants.
- Non-stick cookware.
- Personal care products, such as certain shampoo, dental floss and cosmetics.

Due to the disposal and/or treatment of PFAS contaminated waste from various sources (domestic, commercial and industrial), landfills, hazardous waste management facilities, and wastewater treatment plants (WWTPs) are often identified as secondary sources of PFAS contamination to the environment.

The National Academies of Sciences, Engineering, and Medicine (2023) compiled and analyzed a novel PFAS database that includes information on likely (generalized) compositions for different PFAS sources. These generalized PFAS compositions are indicative only and actual PFAS compositions may not match the generalized data for a given site (i.e., an airport). The generalized PFAS compositional distributions for six types of common source sites are shown in Plate 1. Heat maps and cross-plots showing the frequency of detection and median concentration for various PFAS at a typical airport and WWTP are respectively shown in Plate 2 and Plate 3.

These generalized data visualizations have been used during the screening level source evaluation to inform the differentiation of potential source areas. However, it is noted that site-specific factors may influence or change the PFAS composition at a source site, such that it does not match (or may not resemble) the generalized visualisations presented below (Plates 1 to 3).

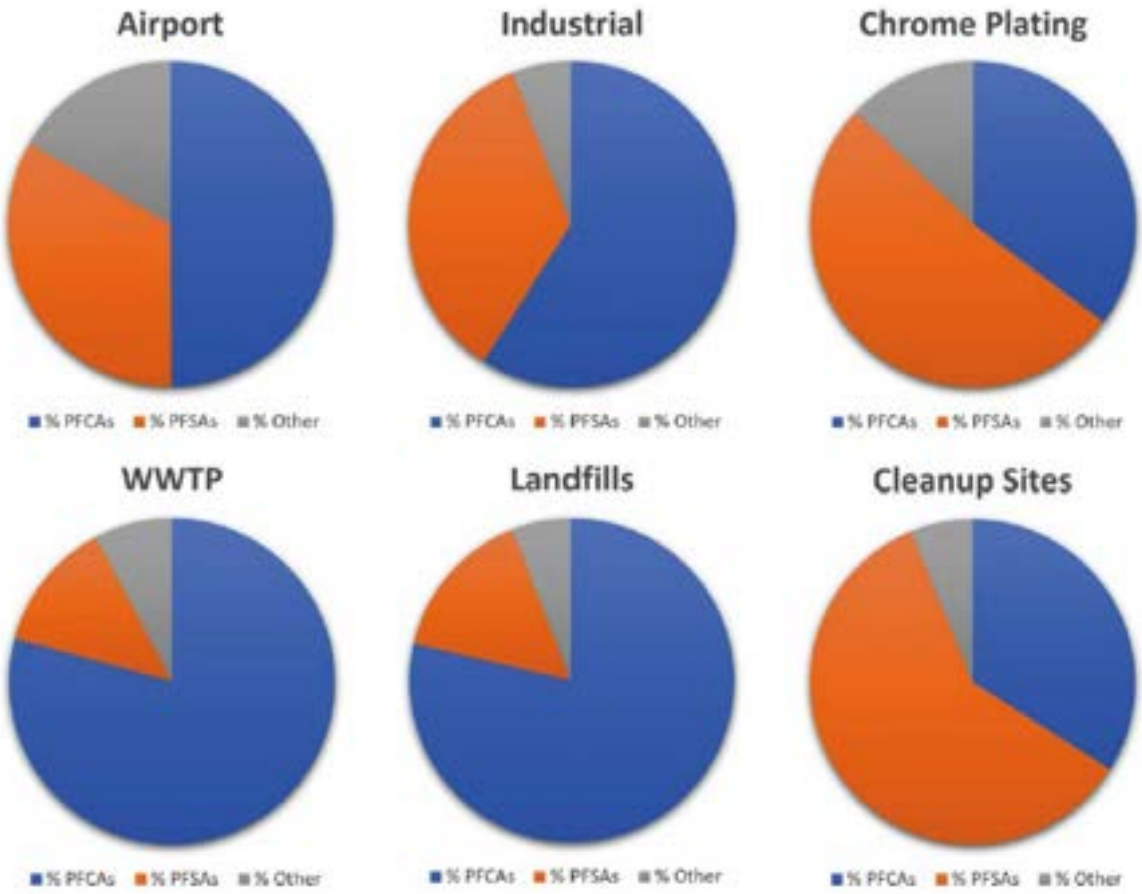


Plate 1: Typical generalized PFAS compositional distributions for source site categories

Source: National Academies of Sciences, Engineering, and Medicine (2023).

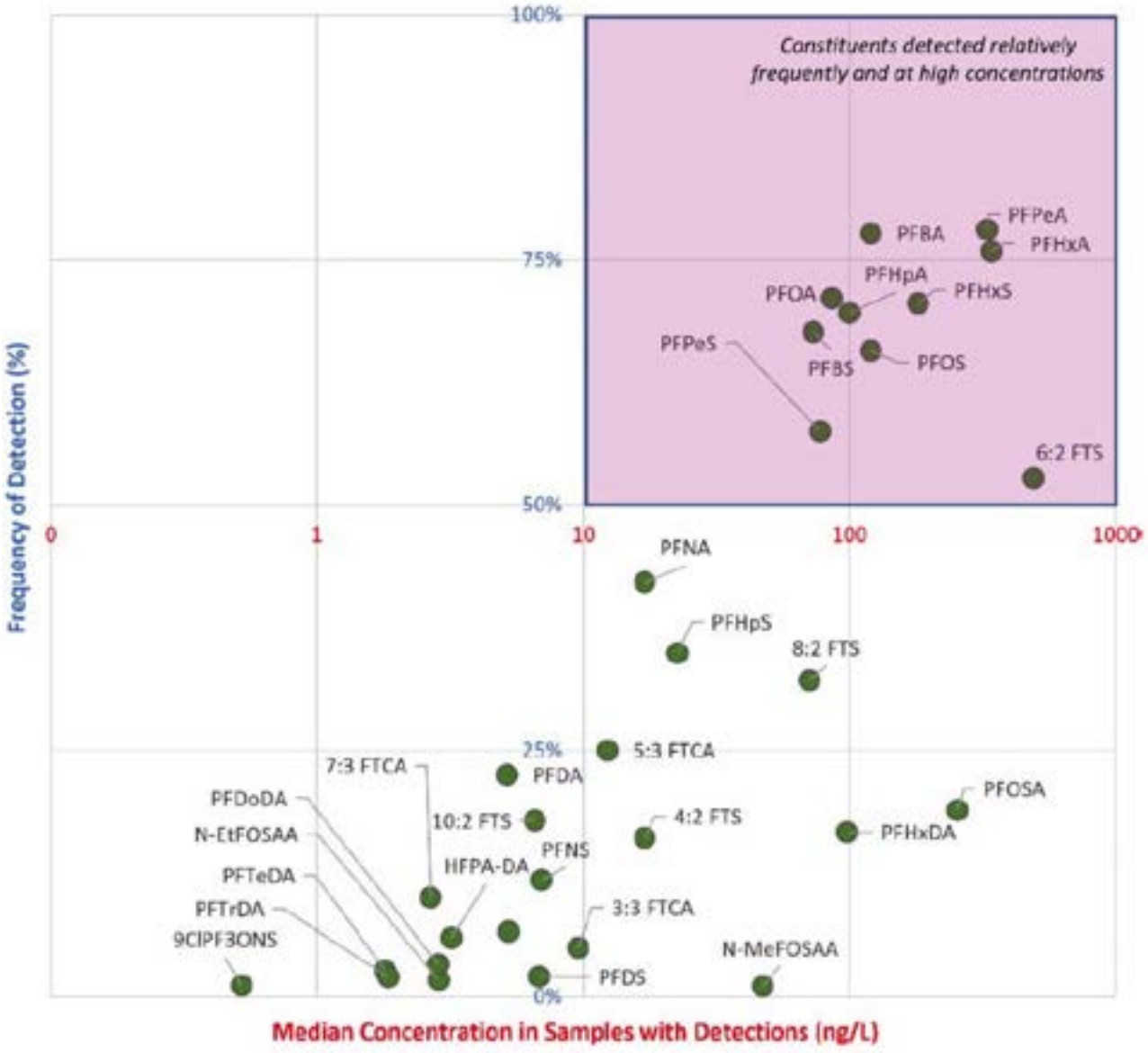


Plate 2: Airport category PFAS detection frequency and median concentration cross-plot

Source: National Academies of Sciences, Engineering, and Medicine (2023).

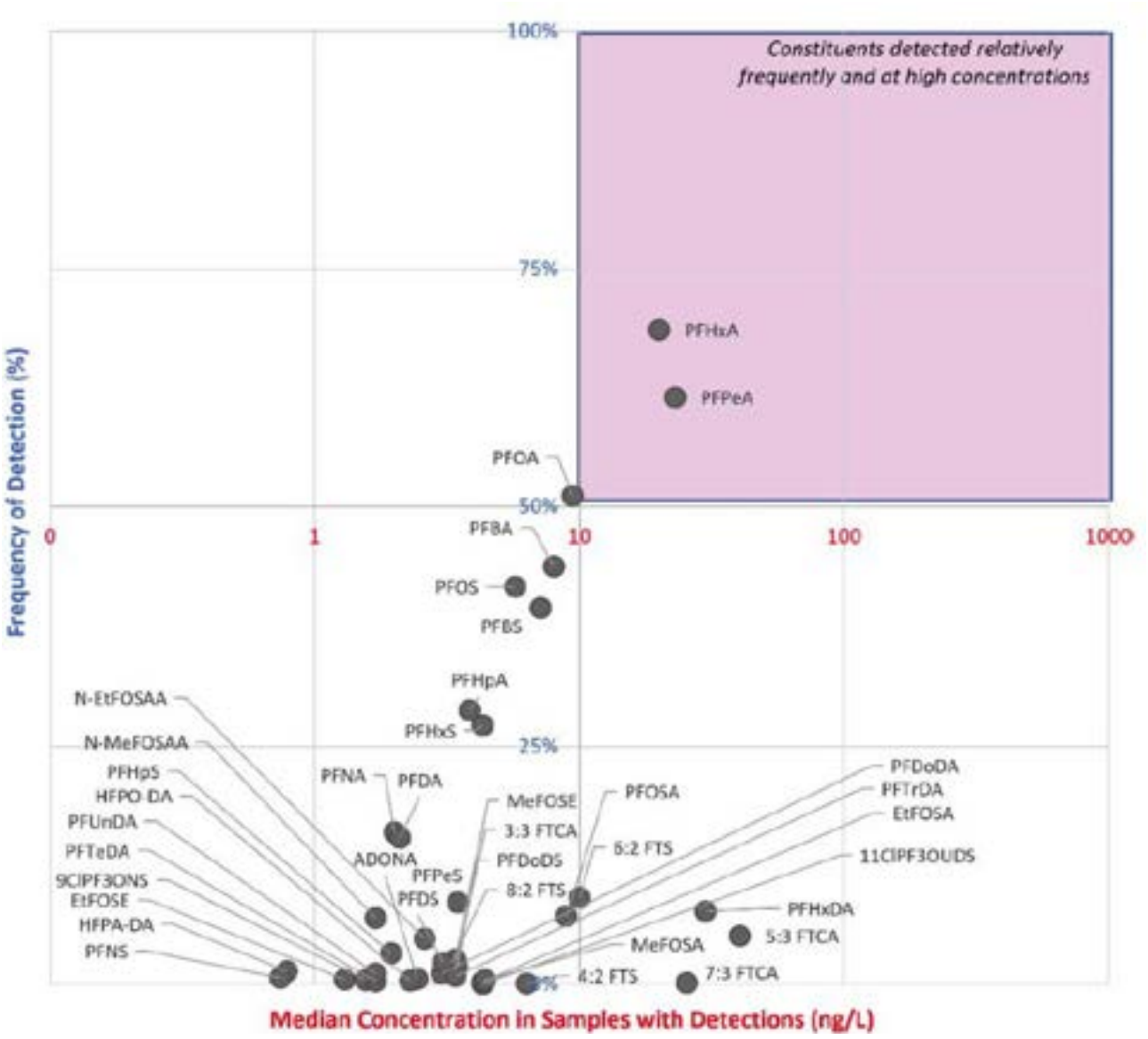


Plate 3: WWTP category PFAS detection frequency and median concentration cross-plot

Source: National Academies of Sciences, Engineering, and Medicine (2023).

Investigation Areas

The investigations areas that were included in the screening level source evaluation are summarized in Table A.

Table A: Investigation Areas

Area	Description	Potential Sources of PFAS	No. of Samples Analyzed[1]	Sum of PFAS Detected[2,3]
PRWRF	WWTP and biosolids composting facility adjacent to the Santa Fe River on the western side of the groundwater divide. The WWTP is located directly north of the airport and La Cienega and north-east of La Cieneguilla.	Treatment of wastewater from various sources. Land application of biosolids generated from the treatment process.	Biosolids - 1 Compost - 1 Influent - 1 Effluent - 1 GW - 6 SW - 1	0.5 µg/kg 0.3 µg/kg 94.8 ng/L 66.0 ng/L 85.3 ng/L 65.1 ng/L
Army Aviation Support Facility (AASF)	The AASF is an Army National Guard facility, which is located between the airport and the PRWRF on the western side of the groundwater divide. The AASF is located north of La Cienega, and north-east of La Cieneguilla.	**On-site** Historic storage and potential use of AFFF. Site for land application of biosolids generated at the adjacent WWTP. **Off-site** PRWRF.	Soil - 23 GW - 5	11.5 µg/kg 1,318 ng/L
Santa Fe Regional Airport	A regional airport located adjacent to the Santa Fe River. The airport straddles the groundwater divide. The southern extent of the airport borders the La Cieneguilla and La Cienega communities.	**On-site** Potential fire training activities. Potential firefighting activities. Potential storage of AFFF. Potential foam fire suppression systems in airport hangers and fuel storage facilities. **Off-site** AASF and PRWRF.	No data provided	Unknown
La Cieneguilla	A community located adjacent to the south-western boundary of the Santa Fe Regional Airport, adjacent to the Sante Fe River and Cieneguilla Spring, and situated on the western side of the groundwater divide.	**On-site** Septic tanks. Other potential unknown sources. **Off-site** AASF, PRWRF and Santa Fe Regional Airport.	GW - 21 SW - 4	175.4 ng/L 104.8 ng/L
La Cienega	A community located adjacent to the southern boundary of the Santa Fe Regional Airport, situated on the eastern side of the groundwater divide.	**On-site** Septic tanks. Other potential unknown sources. **Off-site** Santa Fe Regional Airport	GW - 25 SW - 2	9.3 ng/L 6.9 ng/L

Table Notes:

1. GW = Groundwater
   SW = Surface water

westenv.com.au

2. 'Sum of PFAS Detected' is defined as the sum of detected PFAS based on the specific method utilized. Only analytes above the method detection limits are summed. Because method detection limits are not equal for all analytes, the Sum of PFAS is, at best, an approximation.
3. The Sum of PFAS results listed in the table represent the maximum reported result for each sample type (i.e., media) collected and analysed from the respective investigation area.

Screening Evaluation of Analytical Data

The available analytical dataset (as summarized in Table A) was evaluated by using pie charts to graphically show the relative contribution of individual analytes to the overall sum of detected PFAS reported at each sample location (i.e., the PFAS 'fingerprint'). The outcomes of the screening level evaluation for each investigation area are presented in the following sections. A graphical overview of the PFAS composition for all sample locations is presented in Figure B1, Attachment B.

PRWRF

The graphical representation of PFAS composition in groundwater and wastewater effluent at the PRWRF and surface water in the Santa Fe River downstream of the PRWRF is displayed in Figure B2, Attachment B.

The highest sum of detected PFAS concentration in groundwater was recorded at MW-1 (85.3 ng/L), which is located outside the boundary of the PRWRF, south of the WWTP and downgradient from the municipal biosolids composting facility. The PFAS composition at MW-1 is dominated by PFCAs, specifically PFPeA (28%) and PFHxA (24%), which correlates with a typical WWTP PFAS signature (as shown in Plate 1 and Plate 3). The PFAS impacts in groundwater at MW-1 may be attributed to the historic and current operation of the PRWRF, including land application of biosolids. However, two monitoring wells (MW-2 and MW-6) located within the municipal biosolids composting facility (east of MW-1) did not report PFAS detections.

The composition of one wastewater effluent sample collected at the PRWRF in 2020 is dominated by perfluoroalkyl carboxylic acids (PFCAs), specifically PFPeA (27%), PFHxA (27%) and PFOA (24%), with no perfluoroalkyl sulfonic acids (PFSAs) detected in the sample. The PFAS composition in this sample appears to correlate with the nearest downstream surface water sample location (SW03) in the Santa Fe River. The sample collected at SW03 comprised PFPeA (39%), PFHxA (17%), PFOA (12%), and other PFCAs (32%). This indicates that the treated wastewater outfall is contributing to PFAS contamination in the river.

Soil data for the PRWRF was not included in the screening level evaluation. The groundwater monitoring well network at the PRWRF is also limited, with the location of existing monitoring wells biased to the municipal biosolids composting facility (not the WWTP).

AASF

Previous investigations at the AASF targeted potential PFAS source areas, as described within the Site Inspection Report (EA Engineering, Science, and Technology Inc., 2023). The investigations completed to-date have not delineated the lateral or vertical extent of identified PFAS impacts, nor has potential off-base PFAS migration been investigated. Available data for this screening level source analysis only included data from the Site Inspection Report (EA Engineering, Science, and Technology Inc., 2023).

The graphical representation of PFAS composition in soil and groundwater at the AASF is displayed in the following figures (included in Attachment B):

- Figure B2: Groundwater PFAS Results - AASF and PRWRF
- Figure B3: AASF - Soil PFAS Results (0-8 ft)
- Figure B4: AASF - Soil PFAS Results (13-15 ft)
- Figure B5: AASF - Soil PFAS Results (109-180 ft)

The PFAS composition in surface and near-surface soils (0-8 ft) and deeper soils (13-15 ft) on the western and north-western sides of the tarmac is dominated by PFOS (22% to 95%) and PFHxS (5% to 56%), as shown on Figures B3 and B4. This PFAS signature is typically associated with AFFF containing PFOS.

The PFAS concentration and composition at AOI01-04 was similar at both the 13-15 ft and 109-110 ft samples. PFAS at this location may be leaching down through the soil profile via mechanisms such as rainwater infiltration.

The groundwater sum of detected PFAS concentrations (Figure B2) for AOI01-02 (543.5 ng/L) and AOI01-04 (1,318 ng/L), which were inferred to have been installed in perched groundwater, do not appear to correlate with the soil sample results for the screened intervals in each respective monitoring well. The groundwater results are potentially indicative of more than one source contributing to PFAS concentrations in groundwater at and surrounding the AASF. A comparison of the PFAS composition in soil (collected from the deepest interval) to groundwater samples at AOI01-02 and AOI01-04 is presented in Table B.

The PFAS results for the remaining groundwater monitoring wells at the AASF, located on the northern and eastern sides of the facility, presumably upgradient, were reported between 0.5 and 0.9 ng/L. The low-grade detections suggest potential upgradient PFAS, but the magnitude and composition of the PFAS reported in these monitoring wells also suggest that these areas are unlikely to be a significant source of PFAS in groundwater. Further, the historic application of biosolids to the northern and eastern sides of the AASF does not appear to have contributed significantly to PFAS concentrations in groundwater in this area.

Table B: AOI01-02 and AOI01-04 PFAS Soil and Groundwater Comparison

Well ID	Sum of PFAS Detected[1] Soil Concentration	Soil Composition	Sum of PFAS Detected[1] Groundwater Concentration	Groundwater Composition[2]
AOI01-02	0.4 µg/kg	PFHxS - 100%	543.5 ng/L	PFBS - 24% PFHxS - 13% PFPeA - 17% PFHxA - 24% PFOA - <1% Other PFSAs - 11% Other PFCAs - 10% Other PFAS - <1%
AOI01-04	8.2 µg/kg	PFOS - 27% PFHxS - 13% PFPeA - 5% PFHxA - 9% PFOA - 6% Other PFSAs - 16% Other PFCAs - 17% Other PFAS - 7%	1,318 ng/L	PFBS - 2% PFHxS - 18% PFPeA - 23% PFHxA - 25% PFOA - 3% Other PFSAs - 2% Other PFCAs - 25% Other PFAS - 2%

Table Notes:

1. 'Sum of PFAS Detected' is defined as the sum of detected PFAS based on the specific method utilized. Only analytes above the method detection limits are summed. Because method detection limits are not equal for all analytes, the Sum of PFAS is, at best, an approximation.
2. PFBS = Perfluorobutane sulfonic acid.

La Cieneguilla

The graphical representation of PFAS composition in groundwater and surface water at La Cieneguilla is displayed in Figure B6, Attachment B.

The general PFAS composition throughout La Cieneguilla is dominated by PFCAs (specifically PFPeA, PFHxA and PFOA) and one PFSA (PFHxS). However, PFOS was also detected in several drinking water wells throughout the area, with two discreet groupings adjacent to the Santa Fe River, to the north and to the south, potentially exhibiting a typical airport signature (as shown in Plate 1 and Plate 2). These wells included:

- DWS-52, DWS-68, DWS-73 and DWS-80, located at the northern end of the community.
- DWS-24 and DWS-54, located near the southern end of the community adjacent to Cieneguilla Spring.

These locations generally corresponded to the highest sum of detected PFAS concentrations in groundwater at La Cieneguilla. The percentage of PFOS in groundwater mostly decreases with distance from the river. PFOS was not detected in the drinking water wells within the eastern portion of La Cieneguilla (DWS-35, DWS-67, DWS-69, DWS-70 and DWS-71).

The PFAS composition in surface water samples collected from the Santa Fe River at the northern (SWS-06) and central (SWS-07) portions of La Cieneguilla are dominated by PFCAs, specifically PFPeA (38%) and PFHxA (22-24%), with minor contributions from PFBS (4-6%) and PFOS (4%). However, the PFAS composition at SWS-05, located at the southern end of the town, is significantly different from the two upstream locations (SWS-06 and SWS-07). The signature at SWS-05 is dominated by PFOA (39%), with increased PFBS (12%) and PFOS (18%) and the addition of PFHxS (20%). PFPeA was not detected at SWS-05. Further evaluation of surface water PFAS results is presented in the subsequent section on *Santa Fe River* and Table C.

The closest drinking water well (DWS-85) to SWS-05 is located west of the Santa Fe River and shows a unique PFAS signature that is dominated by PFOS (43%), PFHxS (29%) and PFOA (28%). The PFAS signature at DWS-85 was not observed at other groundwater or surface water sample locations within La Cieneguilla.

The different PFAS compositions observed in groundwater and surface water at La Cieneguilla are likely indicative of multiple source areas contributing to PFAS impacts in and surrounding the community. PFAS fate and transport, as well as transformation processes, may also affect PFAS composition in groundwater as it moves through the environment. Based on the current dataset, source identification in the La Cieneguilla community is not possible.

The absence of data for the Santa Fe Regional Airport, inferred to be hydraulically upgradient of La Cieneguilla and located between the community and the PRWRF and AASF, presents the most significant data gap for source evaluation.

La Cienega

The graphical representation of PFAS composition in groundwater and surface water at La Cienega is displayed in Figure B7, Attachment B.

Sum of detected PFAS was reported in six (6) of 25 sampled drinking water wells at concentrations between 1.8 and 9.3 ng/L. Sum of detected PFAS (6.9 ng/L) was also reported in one surface water sample (SWS-02) collected from Cienega Creek. The PFAS composition at these sampling locations was dominated by PFCAs, specifically PFHxA and PFOA, with low levels of PFSAs (PFBS and PFHxS) detected at some locations.

The presence of a groundwater divide between La Cienega and La Cieneguilla and the differences between the PFAS signatures on either side of the divide, combined with the low concentrations and low detection frequency in La Cienega, may indicate separate potential PFAS source areas. However, this has not been confirmed based on the current available dataset.

Santa Fe River

The graphical representation of PFAS composition in surface water within the Santa Fe River is displayed in Figure B8, Attachment B.

The PFAS composition in surface water in the Santa Fe River changes as water flows downstream from the PRWRF and south past the La Cieneguilla community. The PFAS signature in surface water changes from PFCA dominant at SWS-03 (likely due to the discharge of treated water from the PRWRF) to a mixed signature comprising of PFOA, PFOS, PFHxS, PFBS and PFHxA at SWS-05 (at the downstream end of La Cieneguilla). Based on the surface water results, the river receives PFSAs (i.e., PFOS, PFHxS and PFBS) as it flows past

Santa Fe Regional Airport and La Cieneguilla, changing the PFCA dominant signature typically associated with a WWTP and creating a more mixed signature.

Although the sum of detected PFAS remained relatively consistent between SWS-03 (65.1 ng/L), SWS-06 (66.4 ng/L), SWS-07 (66.1 ng/L), and SWS-05 (56.6 ng/L), the PFAS composition changes slightly from SWS-03 through SWS-06 and SWS-07 and then drastically between SWS-07 and SWS-05. In combination these two aspects point to a PFSA source to the river between SWS-03 and SWS-07 and a much stronger PFSA source between SWS-07 and SWS-05.

However, further downstream, the PFAS signature changes again, between SWS-05 and SWS-04, with a PFCA dominant signature observed at the southern-most surface water sampling location (SWS-04). Although the signature at SWS-04 is PFCA dominant, perfluorobutanoic acid (PFBA) was the main component of the sum of the detected PFAS compared to PFPeA at SWS-03, SWS-06 and SWS-07 (which were also PFCA dominant). Both PFBA and PFPeA are terminal end products, highly soluble and highly mobile, indicating a potential additional PFAS source in this region. An overview of the differences in PFAS composition observed within the Santa Fe River is presented in Table C.

This screening level source evaluation of surface water sampling results in the Santa Fe River suggests that multiple sources are contributing to PFAS fate and transport in the river. However, there is insufficient data to clearly identify individual source areas and determine the relative contribution from each area to PFAS contamination in the river.

Table C: Changes to PFAS Composition within the Santa Fe River

Location ID	SWS-03	SWS-06	SWS-07	SWS-05	SWS-04
Location Description	Downstream of the PRWRF	Northern end of La Cieneguilla and south-western corner of the airport	Middle portion of La Cieneguilla near Cieneguilla spring	Southern end of La Cieneguilla	Paseo Del Canon Road
Sum of PFAS Detected[1]	65.1 ng/L	66.4 ng/L	66.1 ng/L	56.6 ng/L	104.8 ng/L
PFAS Composition	PFBS PFHxS PFOS PFPeA - 39% PFHxA - 17% PFOA - 12% Other PFCAs - 32%	PFBS - 4% PFHxS PFOS - 4% PFPeA - 39% PFHxA - 22% PFOA - 14% Other PFCAs - 17%	PFBS - 5% PFHxS PFOS - 4% PFPeA - 38% PFHxA - 25% PFOA - 14% Other PFCAs - 14%	PFBS - 12% PFHxS - 20% PFOS - 18% PFPeA PFHxA - 11% PFOA - 39% Other PFCAs	PFBS - 3% PFHxS - 3% PFOS - 6% PFPeA - 15% PFHxA - 15% PFOA - 11% Other PFCAs - 47%

Table Notes:

1. 'Sum of PFAS Detected' is defined as the sum of detected PFAS based on the specific method utilized. Only analytes above the method detection limits are summed. Because method detection limits are not equal for all analytes, the Sum of PFAS is, at best, an approximation.

Santa Fe Regional Airport

Santa Fe Regional Airport is a potential source of PFAS contamination due to the presumed potential storage and use of AFFF. However, no on-site PFAS data was provided for the airport.

A review of the PFAS compositions for groundwater samples collected from domestic drinking water wells proximal to the south-western boundary of the airport (Figure B6) identified locations (including DWS-52, DWS-68, DWS-73, and DWS-80) that generally appeared to correlate with a typical airport PFAS signature (as shown in Plate 1 and Plate 2).

Principal Component Analysis

A principal component analysis (PCA) of the available dataset was undertaken as part of the screening level source evaluation to try to identify potential groupings that may be attributable to different sources of PFAS. PCA utilizes statistical methods to transform data that is associated with many variables and attempts to explain the variation in the data by grouping parameters (in this case PFAS compounds) in various combinations, (National Academies of Sciences, Engineering, and Medicine, 2023).

PCA of the dataset was undertaken using two scenarios:

- All groundwater data (refer to Plate 4).
- Domestic drinking water wells only (refer to Plate 5).

The PCA for all groundwater wells only captured 61% of the variability of the data within the first two generated components (F1 and F2). Although the PCA showed potential grouping of the AASF monitoring wells (AOI01-02 and AOI01-04) with strong positive correlations to perfluoropentane sulfonic acid (PFPeS), PFBS, PFHxA, PFPeA, PFBA and PFHxS, the overall results were inconclusive and did not conclusively inform the differentiation of potential PFAS sources.

The domestic drinking water wells within La Cieneguilla that potentially exhibited similar PFAS signatures (i.e., DWS-24, DWS-52, DWS-68 and DWS-80) were not grouped by the PCA. However, PFOS showed a strong positive correlation to these wells (Plate 4).

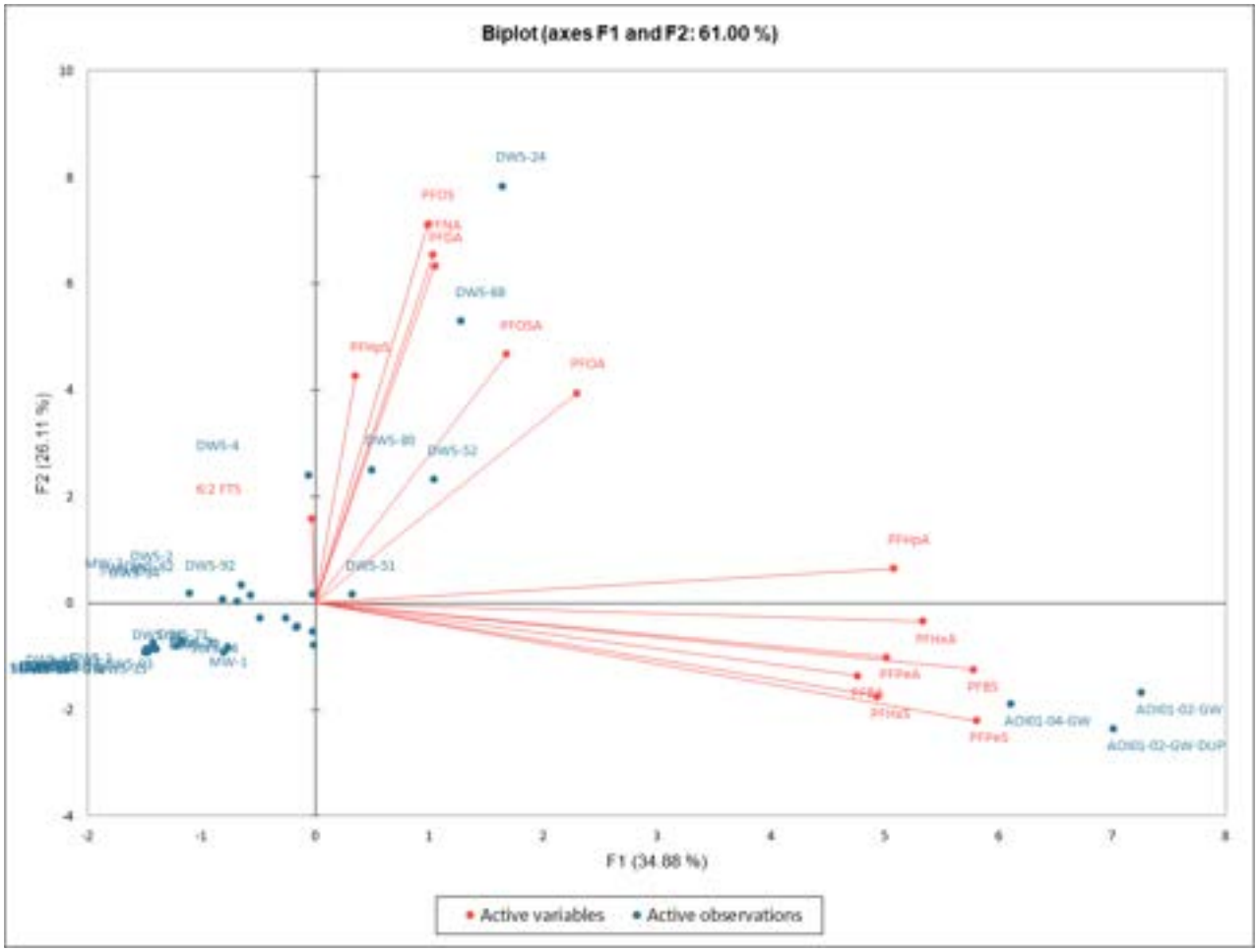


Plate 4: PCA – All Groundwater Wells

The PCA for the domestic drinking water wells captured 77% of the variability in the data within the first two generated components (F1 and F2). However, the PCA did not identify potential groupings to support the differentiation of potential PFAS source areas. This may be due to the potential mixing of PFAS from multiple sources within the general La Cieneguilla area, which may limit the effective identification of discreet sources using only the domestic drinking water well results.

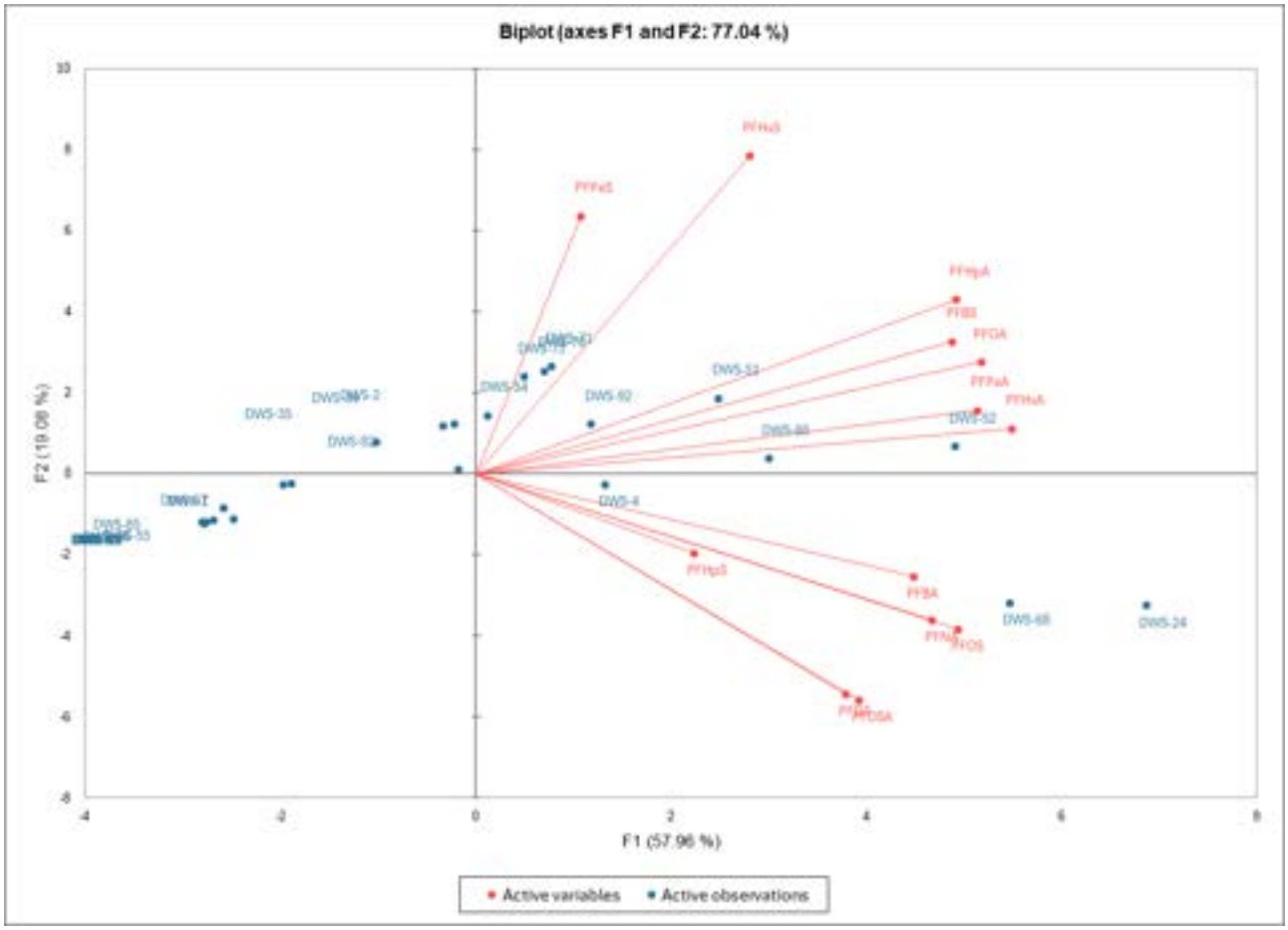


Plate 5: PCA – Domestic Drinking Water Wells Only

Overall, the results of the PCA were inconclusive and it was not possible to identify or differentiate contributions from separate PFAS source areas. Additional data at and down-gradient of the potential PFAS source areas may improve the PCA outcomes.

Summary of Findings

The key findings from the screening level source evaluation of available PFAS data for the investigated areas north-west and north (upstream and inferred to be upgradient) of the La Cieneguilla and La Cienega communities include:

- The discharge of treated wastewater from the PRWRF is likely to be a source of PFAS to the Santa Fe River. The PFAS composition of the treated effluent and surface water at a downstream sampling location (SWS-03) were dominated by PFCAs, correlating to a typical WWTP signature.

- PFAS contamination in soils at the AASF is characterized by PFSAs, specifically PFOS and PFHxS, which are considered to be representative of historic AFFF use at the facility. However, PFOS was not detected in groundwater at the AASF and the PFAS compositions in groundwater at the same locations where soil samples were collected (i.e., AOI01-02 and AOI01-04) comprised a higher percentage of PFCAs.

- Different PFAS signatures were evident in groundwater between La Cieneguilla and La Cienega, indicating that different sources may be contributing to PFAS contamination on either side of the groundwater divide.

- Mixed PFAS compositions in domestic drinking water wells throughout the La Cieneguilla community may indicate that multiple sources of PFAS are impacting the drinking water wells. The PFAS composition in groundwater throughout the community was generally dominated by PFCAs, which may indicate the PRWRF's influence. However, PFSAs were present in multiple drinking water wells located closer to the Santa Fe River, including PFOS, which was not detected in groundwater at the PRWRF or AASF. The presence of PFSAs may indicate a different PFAS source area contribution to groundwater beneath the La Cieneguilla community.

- Different PFAS signatures in surface water were observed within the Santa Fe River as water flowed downstream from the PRWRF to SWS-04 (south of La Cieneguilla). The PFAS signature in the Santa Fe River near the PRWRF was dominated by PFCAs. However, further downstream beyond La Cieneguilla the PFAS signature comprised a mix of PFCAs and PFSAs. The changes in the surface water PFAS signatures within the vicinity of La Cieneguilla (and Cieneguilla Spring) are potentially indicative of different PFAS sources discharging to the river, which may include groundwater discharge along the gaining reaches of the river.

Due to limitations with the dataset, clearly differentiating PFAS contributions from the known and potential source sites/areas is not possible. Changes in PFAS compositions at and surrounding La Cieneguilla may be attributable to multiple/mixed sources (i.e., the PRWRF, airport and/or AASF). However, the shifts in PFAS composition at different locations may also be attributed to environmental processes and chemical properties that influence the fate and transport of PFAS in the environment. It is possible that conditions may change with distance (and time) such that compositional differences may be observed between multiple geographical locations that are hydraulically down-gradient of the same source area.

Further investigation at the known source sites and the areas that have not been investigated (i.e., the Santa Fe Regional Airport and losing/gaining reaches of the Santa Fe River) is required to perform a more complete forensic analysis of PFAS sources and their contribution to the downgradient receiving environment, including PFAS impacts in the La Cieneguilla and La Cienega communities.

A summary of key results for each investigation is presented in Table D.

Table D: Investigation Areas – Summary of Key Results

Area[1]	PRWRF	AASF		La Cieneguilla	La Cienega
Media	Groundwater (ng/L)	Soil (µg/kg)	Groundwater (ng/L)	Groundwater (ng/L)	Groundwater (ng/L)
Primary PFAS (>50%)	PFPeA (27%) PFHxA (23%)	PFOS (50%) PFHxS (15%)	PFHxA (25%) PFPeA (21%) Other PFCA (21%)	PFOA (19%) PFPeA (17%) PFHxA (16%)	PFOA (32%) PFHxA (28%)

Table Notes:

1. The summary was prepared by collating the available data for each investigation area to identify the primary constituents contributing to the total reported PFAS concentration (per area).

References

The following references were used during the preparation of this letter report:

- EA Engineering, Science, and Technology Inc. 2023. *Site Inspection Report, Army Aviation Support Facility, Santa Fe, New Mexico*. FINAL. October 2023.
- National Academies of Sciences, Engineering, and Medicine. 2023. *PFAS Source Differentiation Guide for Airports*. Washington, DC. The National Academies Press.
- INTERA Incorporated. 2025. *Santa Fe County PFAS Investigation Data Update*. Presentation. 18 September 2025.
- USEPA. 2025. *Our Current Understanding of the Human Health and Environmental Risks of PFAS*. United States Environmental Protection Agency. 5 November 2025. Viewed 18/12/2025, Our Current Understanding of the Human Health and Environmental Risks of PFAS | US EPA.

Closing

This letter report should be read in conjunction with the Schedule - Statement of Limitations. Should you have any queries regarding the above, please contact the undersigned on +61 8 6162 8980.

Yours sincerely,
Western Environmental Pty Ltd



DR DAVID REYNOLDS
SENIOR PRINCIPAL ENGINEER



JAMES GIBSON
SENIOR PRINCIPAL ENVIRONMENTAL SCIENTIST & MANAGING DIRECTOR

Schedule

- Statement of Limitations

Attachments

- Attachment A: Table of Abbreviations
- Attachment B: Figures

westenv.com.au

SCHEDULE Statement of Limitations

Copyright Statement

© Western Environmental Pty Ltd (WEPL). All rights reserved. No part of this work may be produced in any material form or communicated by any means without the permission of the copyright owner. The unauthorised copying or reproduction of this report or any of its contents is prohibited.

Scope of Services

This letter report ("this report") has been prepared for the sole benefit and exclusive use of INTERA Incorporated (the Client) for the purpose for which it was prepared in accordance with the agreement between the Client and WEPL ("the Agreement"). WEPL disclaims any and all liability with respect to any use of or reliance upon this report for any other purpose whatsoever.

In particular, it should be noted that this report is based on a scope of services defined by the Client, and is limited by budgetary and time constraints, the information supplied by the Client (and its agents) and, in some circumstances, access and/or site disturbance constraints.

The scope of services did not include any assessment of the title to or ownership of the properties, buildings and structures referred to in this report, or the application or interpretation of laws in the jurisdiction in which those properties, buildings and structures are located.

Reliance on Data

In preparing this report, WEPL has relied on data, surveys, analyses, designs, plans and other information provided by the Client (or its agents), other individuals and organisations ("the data").

WEPL has not verified the accuracy or completeness of the data. WEPL does not represent or warrant that the data is true or accurate, and disclaims any and all responsibility or liability with respect to the use of the data.

To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in this report ("conclusions") are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data.

WEPL does not accept any responsibility or liability for any incorrect or inaccurate conclusions should any data be incorrect, inaccurate or incomplete or have been concealed, withheld, misrepresented or otherwise not fully disclosed to WEPL.

The conclusions must also be considered in light of the agreed scope of services (including any constraints or limitation therein) and the methods used to carry out those services, both of which are as stated or referred to in this report.

Environmental Conclusions

WEPL has not conducted environmental field monitoring and/or testing in the preparation of this report.



On all sites, varying degrees of non-uniformity of vertical and horizontal conditions in media (soil, water, air, waste or other media as described in the report) are encountered. Hence no monitoring, common testing or sampling technique can eliminate the possibility that monitoring or testing results/samples are not totally representative of media conditions encountered. The conclusions are based on the data and the environmental field monitoring and/or testing actually undertaken by third parties, and are therefore merely indicative of the environmental condition of the site at the time the monitoring and/or testing was conducted, including the presence or otherwise of contaminants or emissions. It should be recognised that site conditions, including the extent and concentration of contaminants, can change.

Within the limitations imposed by the scope of services, the preparation of this report has been undertaken and performed in a professional manner, in accordance with generally accepted practices and using a degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances. To the maximum extent permitted by law, no other warranty, express or implied, is made.

Report for Benefit of Client

This report is confidential. Neither the whole nor any part of this report, or any copy or extract thereof, may be disclosed or otherwise made available to any third party without the prior written approval of WEPL.

WEPL accepts no liability or responsibility whatsoever in respect of any use of or reliance upon this report, by any person or organisation who is not a party to the Agreement. Reliance on this report by any person who is not a party to the Agreement is expressly prohibited. Any representation in this report is made only to the parties to the Agreement.

WEPL assumes no responsibility and disclaims any and all liability to any other person or organisation for or in relation to any matter dealt with or conclusions expressed in this report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in this report (including without limitation matters arising from any negligent act or omission of WEPL or for any loss or damage suffered by any other party using or relying on the matters dealt with or conclusions expressed in this report, even if WEPL has been advised of the possibility of such use or reliance).

Other parties should not rely on this report or the accuracy or completeness of any conclusions contained in this report, and should make their own enquiries and obtain independent advice in relation to such matters.

Other Limitations

This report is intended to be read in its entirety, and sections or parts of this report should therefore not be read and relied on out of context. WEPL will not be liable to update or revise this report to take into account any events or circumstances or facts becoming apparent after the date of this report.

ATTACHMENT A: Table of Abbreviations

Acronym	Definition
6:2 FTS	6:2 fluorotelemer sulfonic acid
AFFF	Aqueous film forming foam
AASF	Army Aviation Support Facility
INTERA	INTERA Incorporated
PCA	Principal component analysis
PFAS	Per- and polyfluoroalkyl substances
PFBA	Perfluorobutanoic acid
PFBS	Perfluorobutane sulfonic acid
PFCAs	Perfluoroalkyl carboxylic acids
PFHpA	Perfluoroheptanoic acid
PFHxA	Perfluorohexanoic acid
PFHxS	Perfluorohexane sulfonic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonic acid
PFPeA	Perfluoropentanoic acid
PFPeS	Perfluoropentane sulfonic acid
PFSAs	Perfluoroalkyl sulfonic acids
PRWRF	Paseo Real Water Reclamation Facility
QA/QC	Quality Assurance/Quality Control
USEPA	United States Environmental Protection Agency
WEPL	Western Environmental Pty Ltd
WWTP	Wastewater treatment plant

ATTACHMENT B: Figures

COPYRIGHT: This document is and shall remain the property of The Client. This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement. The Client does not hold any responsibility for the misuse of this document

396580 397835 399090 400345 401600 402855

3944465 3943210 3941955 3940700 3939445 3938190 3936935

MW-4A
4.5 ng/L

PRWRF_EFF
66 ng/L

MW-3
1.8 ng/L

SWS-03
65.1 ng/L

AOI01-01
0.5 ng/L

SFAASF-03-GW
0.9 ng/L

MW-1
85.3 ng/L

SFAASF-04-GW
0.6 ng/L

DWS-51
114.5 ng/L

AOI01-02
543.5 ng/L

AOI01-04
1318 ng/L

DWS-68
148.6 ng/L

DWS-52
160.8 ng/L

DWS-80
133.1 ng/L

SWS-06
66.4 ng/L

DWS-73
75.9 ng/L

DWS-70
78.4 ng/L

DWS-71
80.4 ng/L

SWS-07
66.1 ng/L

DWS-34
45.7 ng/L

DWS-67
25.2 ng/L

DWS-35
44.1 ng/L

DWS-24
175.4 ng/L

DWS-2
45.9 ng/L

DWS-1
18.9 ng/L

DWS-54
64.4 ng/L

DWS-85
8.2 ng/L

DWS-53
3.7 ng/L

DWS-18
2.2 ng/L

DWS-69
2.1 ng/L

SWS-05
56.6 ng/L

DWS-56
4.4 ng/L

DWS-63
1.8 ng/L

DWS-82
62.2 ng/L

DWS-26
2.4 ng/L

DWS-55
9.3 ng/L

SWS-04
104.8 ng/L

SWS-02
6.9 ng/L

396580 397835 399090 400345 401600 402855

Figure B1: Area Overview

N

0 200 400 600 800 m

PROJECT/REPORT NAME	Santa Fe County PFAS Investigation-Source Evaluation Santa Fe, New Mexico
SCALE	1:25,100
SHEET SIZE	A3 COLOUR
CLIENT	Intera
COORDINATE REFERENCE SYSTEM	NAD83 (2011) / UTM zone 13N
PROJECT NUMBER	Z24.008
VERSION	0
DATA SOURCE	Google Earth
DRAWN BY / REVIEWED BY	MD / BC
DATE	7/1/2026

Legend

Water Sampling Locations - PFAS Not Detected
- Groundwater Well
- Surface Water Sample Location
- Ephemeral Reach
- Gaining Reach
- Neutral
- Losing Reach

Water Sampling Locations - PFAS Detected
- Groundwater Well
- Surface Water Sample Location
- Wastewater Treatment Plant Effluent
- Groundwater Flow

- PFBS
- PFHxS
- PFOS
- Other PFSAs
- PFPeA
- PFHxA
- PFOA
- Other PFCAs
- Other PFAS

No	Description	Drawn	Approved	Date
A	Original issue	MD	BC	7/1/2026

NOTES:

WESTERN ENVIRONMENTAL

Western Environmental Pty Ltd
(08) 6162 8980 | enquiries@westenv.com.au
162 Colin Street, Perth Western Australia 6005
westenv.com.au

Z:\Projects\2. Projects\Z24.008_INT\6. GIS\03. Maps\01. Working\Z24.008-Working_BC - MD.qgz

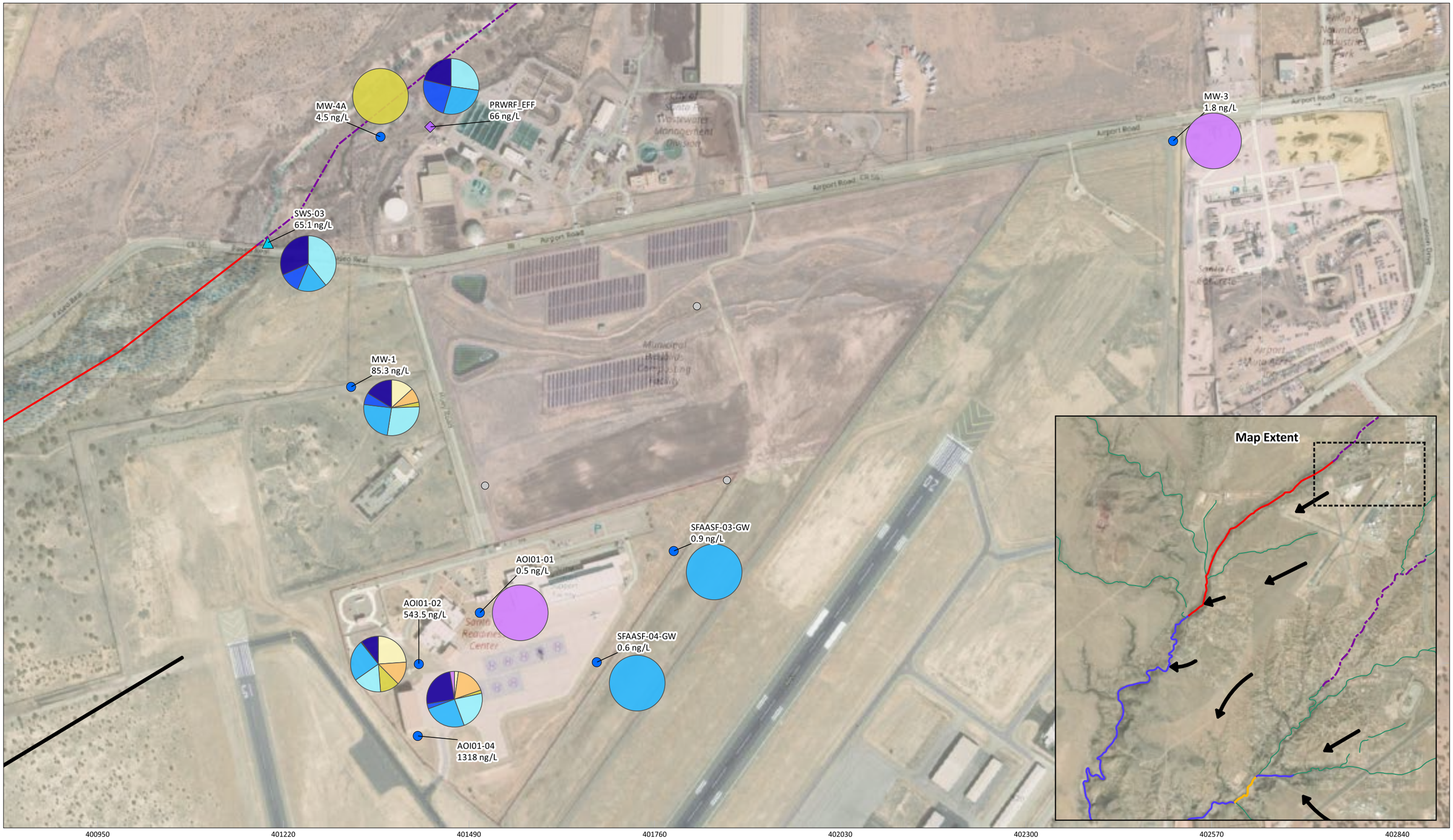


Figure B2: Groundwater PFAS Results- AASF and PRWRF

N; 0 80 160 240 320 m		PROJECT/REPORT NAME: Santa Fe County PFAS Investigation- Source Evaluation, Santa Fe, New Mexico	
SCALE: 1:5,400	SHEET SIZE: A3 COLOUR	CLIENT: Intera	
COORDINATE REFERENCE SYSTEM: NAD83 (2011) / UTM zone 13N		PROJECT NUMBER: Z24.008	VERSION: 0
DATA SOURCE: Google Earth		DRAWN BY / REVIEWED BY: MD / BC	DATE: 7/1/2026

Legend

Water Sampling Locations - PFAS Not Detected
- Groundwater Well

Water Sampling Locations - PFAS Detected
- Groundwater Well
- Surface Water Sample Location
- Wastewater Treatment Plant Effluent

- PFBS
- PFHxS
- PFOS
- Other PFSAs
- PFPeA
- PFHxA
- PFOA
- Other PFCAs
- Other PFAS
- Ephemeral Reach
- Gaining Reach
- Neutral
- Losing Reach
- Groundwater Flow

No	Description	Drawn	Approved	Date
A	Original issue	MD	BC	7/1/2026

NOTES:

WESTERN ENVIRONMENTAL
Western Environmental Pty Ltd
(08) 6162 8980 | enquiries@westenv.com.au
162 Colin Street, Perth Western Australia 6005
westenv.com.au

COPYRIGHT: This document is and shall remain the property of The Client. This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement. The Client does not hold any responsibility for the misuse of this document

Z:\Projects\2. Projects\Z24.008_INT\6. GIS\03. Maps\01. Working\Z24.008-Working_BC - MD.qgz



Figure B3: AASF- Soil PFAS Results (0- 8 ft)

N; 0 37 74 111 148 m		PROJECT/REPORT NAME: Santa Fe County PFAS Investigation- Source Evaluation Santa Fe, New Mexico	
SCALE: 1:2,500	SHEET SIZE: A3 COLOUR	CLIENT: Intera	
COORDINATE REFERENCE SYSTEM: NAD83 (2011) / UTM zone 13N		PROJECT NUMBER: Z24.008	VERSION: 0
DATA SOURCE: Google Earth		DRAWN BY / REVIEWED BY: MD / BC	DATE: 18/12/2025

Legend

Soil Sample Locations

- PFAS Detected - 0-2 ft
- PFAS Detected - 6-8 ft
- PFAS Not Detected

- PFBS
- PFHxS
- PFOS
- Other PFSAs
- PFPeA
- PFHxA
- PFOA
- Other PFCAs
- Other PFAS

No	Description	Drawn	Approved	Date
A	Original issue	MD	BC	18/12/2025

NOTES:

WESTERN ENVIRONMENTAL
Western Environmental Pty Ltd
(08) 6162 8980 | enquiries@westenv.com.au
162 Colin Street, Perth Western Australia 6005
westenv.com.au

Z:\Projects\2. Projects\Z24.008_INT\6. GIS\03. Maps\01. Working\Z24.008-Working_BC - MD.qgz

COPYRIGHT: This document is and shall remain the property of The Client. This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement. The Client does not hold any responsibility for the misuse of this document



Figure B4: AASF- Soil PFAS Results (13- 15 ft)

N

0 37 74 111 148 m

PROJECT/REPORT NAME	Santa Fe County PFAS Investigation- Source Evaluation Santa Fe, New Mexico
SCALE	1:2,500
SHEET SIZE	A3 COLOUR
CLIENT	Intera
COORDINATE REFERENCE SYSTEM	NAD83 (2011) / UTM zone 13N
PROJECT NUMBER	Z24.008
VERSION	0
DATA SOURCE	Google Earth
DRAWN BY / REVIEWED BY	MD / BC
DATE	18/12/2025

Legend

Soil Sample Locations (13-15 ft)

- PFAS Detected
- PFAS Not Detected

- PFBS
- PFHxS
- PFOS
- Other PFSAs
- PFPeA
- PFHxA
- PFOA
- Other PFCAs
- Other PFAS

No	Description	Drawn	Approved	Date
A	Original issue	MD	BC	18/12/2025

NOTES:

WESTERN ENVIRONMENTAL

Western Environmental Pty Ltd
(08) 6162 8980 | enquiries@westenv.com.au
162 Colin Street, Perth Western Australia 6005
westenv.com.au

Z:\Projects\2. Projects\Z24.008_INT\6. GIS\03. Maps\01. Working\Z24.008-Working_BC - MD.qgz

COPYRIGHT: This document is and shall remain the property of The Client. This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement. The Client does not hold any responsibility for the misuse of this document



Figure B5: AASF- Soil PFAS Results (109- 180 ft)

N

0 37 74 111 148 m

SCALE: 1:2,500	SHEET SIZE: A3 COLOUR	CLIENT: Intera	
COORDINATE REFERENCE SYSTEM: NAD83 (2011) / UTM zone 13N		PROJECT NUMBER: Z24.008	VERSION: 0
DATA SOURCE: Google Earth		DRAWN BY / REVIEWED BY: MD / BC	DATE: 18/12/2025

PROJECT/REPORT NAME: Santa Fe County PFAS Investigation- Source Evaluation
Santa Fe, New Mexico

Legend

Soil Sample Locations

- PFAS Detected - 109-115 ft
- PFAS Not Detected - 109-115 ft
- PFAS Not Detected - 180-184 ft

- PFBS
- PFHxS
- PFOS
- Other PFSAs
- PFPeA
- PFHxA
- PFOA
- Other PFCAs
- Other PFAS

No	Description	Drawn	Approved	Date
A	Original issue	MD	BC	18/12/2025

NOTES:

WESTERN ENVIRONMENTAL
Western Environmental Pty Ltd
(08) 6162 8980 | enquiries@westenv.com.au
162 Colin Street, Perth Western Australia 6005
westenv.com.au

COPYRIGHT: This document is and shall remain the property of The Client. This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement. The Client does not hold any responsibility for the misuse of this document

Z:\Projects\2. Projects\Z24.008_INT\6. GIS\03. Maps\01. Working\Z24.008-Working_BC - MD.qgz

COPYRIGHT: This document is and shall remain the property of The Client. This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement. The Client does not hold any responsibility for the misuse of this document

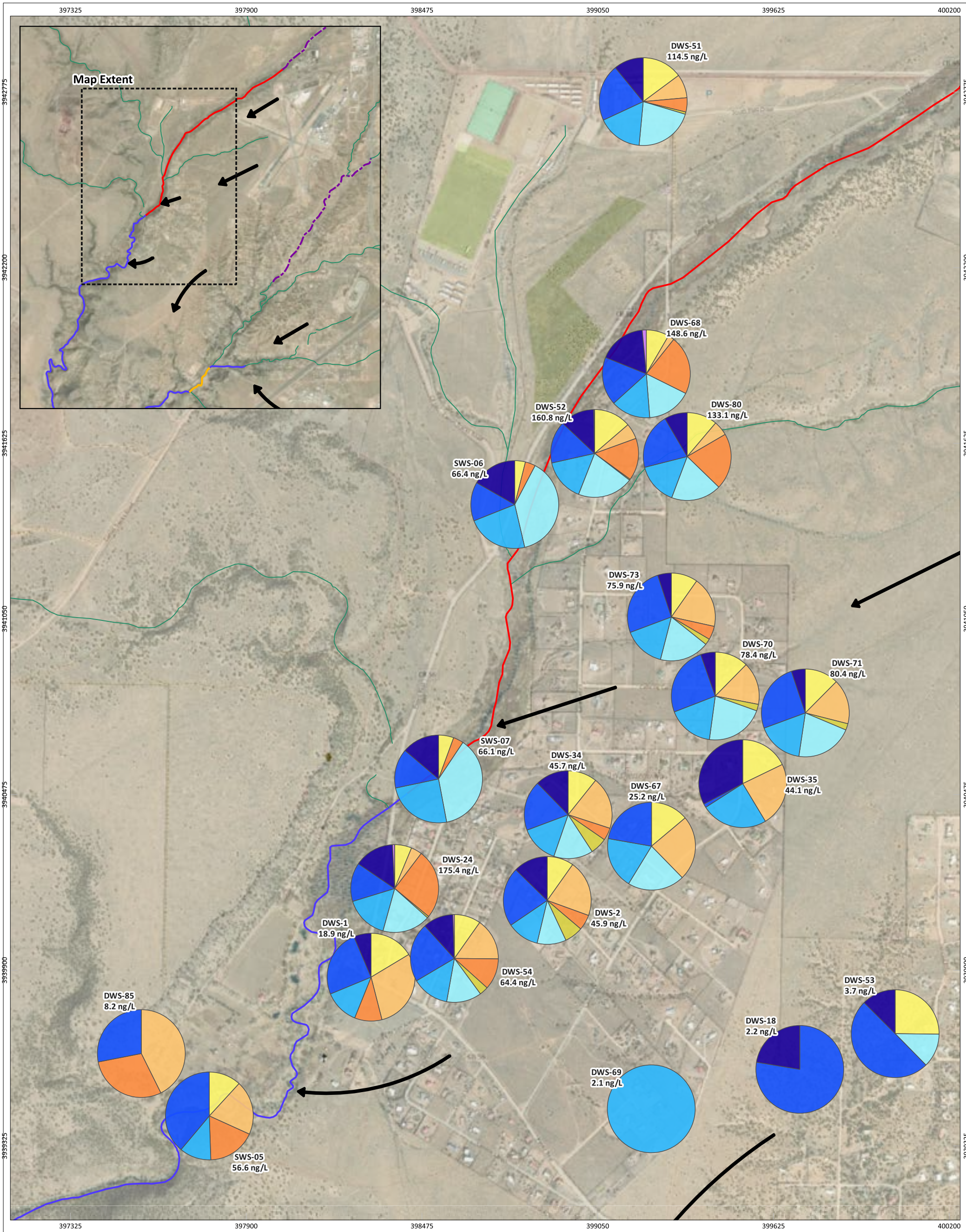


Figure B6: Groundwater PFAS Results- La Cieneguilla

N

0 100 200 300 400 m

PROJECT/REPORT NAME: Santa Fe County PFAS Investigation- Source Evaluation Santa Fe, New Mexico		
SCALE: 1:11,500	SHEET SIZE: A3 COLOUR	CLIENT: Intera
COORDINATE REFERENCE SYSTEM: NAD83 (2011) / UTM zone 13N	PROJECT NUMBER: Z24.008	VERSION: 0
DATA SOURCE: Google Earth	DRAWN BY / REVIEWED BY: MD / BC	DATE: 7/1/2026

Legend

- Ephemeral Reach
- Gaining Reach
- Neutral
- Losing Reach
- Groundwater Flow
- PFBS
- PFHxS
- PFOS
- Other PFSAs
- PFPeA
- PFHxA
- PFOA
- Other PFCAs
- Other PFAS

No	Description	Drawn	Approved	Date
A	Original issue	MD	BC	7/1/2026

NOTES:

WESTERN ENVIRONMENTAL

Western Environmental Pty Ltd
(08) 6162 8980 | enquiries@westenv.com.au
162 Colin Street, Perth Western Australia 6005
westenv.com.au

Z:\Projects\2. Projects\Z24.008_INT\6. GIS\03. Maps\01. Working\Z24.008-Working_BC - MD.qgz

COPYRIGHT: This document is and shall remain the property of The Client. This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement. The Client does not hold any responsibility for the misuse of this document

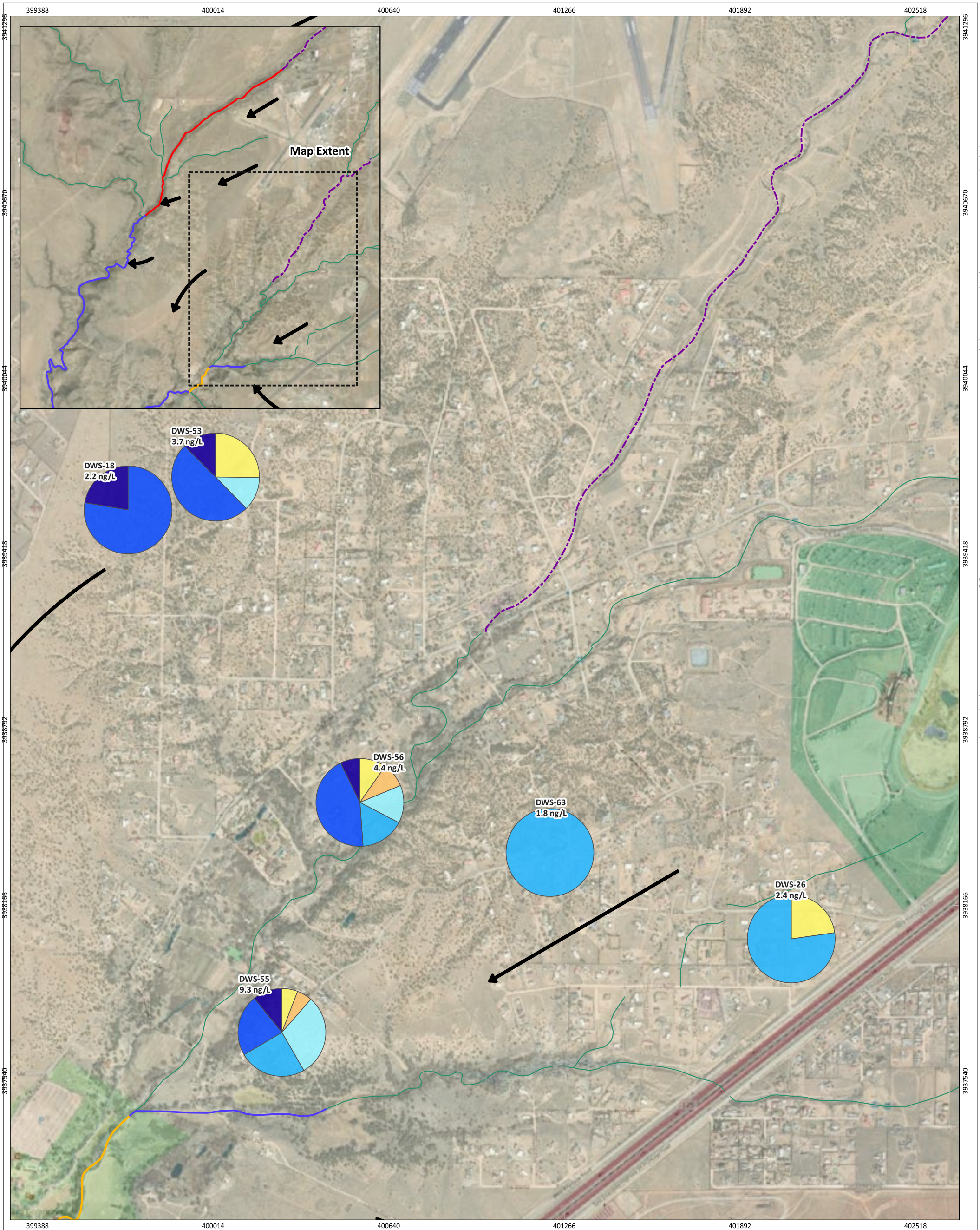


Figure B7: Groundwater PFAS Results- La Cienega

N; 0 100 200 300 400 m	PROJECT/REPORT NAME: Santa Fe County PFAS Investigation- Source Evaluation, Santa Fe, New Mexico		
SCALE: 1:12,520	SHEET SIZE: A3 COLOUR	CLIENT: Intera	
COORDINATE REFERENCE SYSTEM: NAD83 (2011) / UTM zone 13N	PROJECT NUMBER: Z24.008	VERSION: 0	
DATA SOURCE: Google Earth	DRAWN BY / REVIEWED BY: MD / BC	DATE: 17/12/2025	

Legend

- Ephemeral Reach
- Gaining Reach
- Neutral
- Losing Reach
- Groundwater Flow
- PFBS
- PFHxS
- PFOS
- Other PFSAs
- PFPeA
- PFHxA
- PFOA
- Other PFCAs
- Other PFAS

No	Description	Drawn	Approved	Date
A	Original issue	MD	BC	17/12/2025

NOTES:

WESTERN ENVIRONMENTAL
Western Environmental Pty Ltd
(08) 6162 8980 | enquiries@westenv.com.au
162 Colin Street, Perth Western Australia 6005
westenv.com.au

Z:\Projects\2. Projects\Z24.008_INT\6. GIS\03. Maps\01. Working\Z24.008-Working_BC - MD.qgz

COPYRIGHT: This document is and shall remain the property of The Client. This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement. The Client does not hold any responsibility for the misuse of this document

396580 397835 399090 400345 401600 402855

3944465 3943210 3941955 3940700 3939445 3938190 3936935

SWS-03
65.1 ng/L

SWS-06
66.4 ng/L

SWS-07
66.1 ng/L

SWS-05
56.6 ng/L

SWS-04
104.8 ng/L

SWS-02
6.9 ng/L

Figure B8: Surface Water PFAS Results

0 200 400 600 800 m

N

PROJECT/REPORT NAME	Santa Fe County PFAS Investigation- Source Evaluation Santa Fe, New Mexico
SCALE	1:25,100
SHEET SIZE	A3 COLOUR
CLIENT	Intera
COORDINATE REFERENCE SYSTEM	NAD83 (2011) / UTM zone 13N
PROJECT NUMBER	Z24.008
VERSION	0
DATA SOURCE	Google Earth
DRAWN BY / REVIEWED BY	MD / BC
DATE	17/12/2025

Legend

Water Sampling Locations - PFAS Detected
- Surface Water Sample Location
- Ephemeral Reach
- Gaining Reach
- Neutral
- Losing Reach
- Groundwater Flow

- PFBS
- PFHxS
- PFOS
- Other PFSAs
- PFPeA
- PFHxA
- PFOA
- Other PFCAs
- Other PFAS

No	Description	Drawn	Approved	Date
A	Original issue	MD	BC	17/12/2025

NOTES:

WESTERN ENVIRONMENTAL

Western Environmental Pty Ltd
(08) 6162 8980 | enquiries@westenv.com.au
162 Colin Street, Perth Western Australia 6005
westenv.com.au

Z:\Projects\2. Projects\Z24.008_INT\6. GIS\03. Maps\01. Working\Z24.008-Working_BC - MD.qgz

APPENDIX C

Laboratory Reports

ANALYTICAL REPORT

A ril 23, 2025

Re ised Re ort

INTERA - Albuquerque, NM

a le eli er rou : L1844148

a les Recei ed: 04/05/2025

Project Nu ber: P 001 P A

escri tion:

Re ort To: L nda Price
2440 Louisiana l d
uite 700
Albuquerque, NM 87110

Entire Re ort Re ie ed :

Jordan N Zito
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



TA LE NTENT

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Gl: Glossary of Terms 6

Al: Accreditations & Locations 7

Sc: Sample Chain of Custody 8

-60 L1844148-01

Collected by: Lynda Price | Collected date/time: 04/03/25 09:32 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

-61 L1844148-02

Collected by: Lynda Price | Collected date/time: 04/03/25 10:30 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

-01 L1844148-03

Collected by: Lynda Price | Collected date/time: 04/03/25 10:56 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

-62 L1844148-04

Collected by: Lynda Price | Collected date/time: 04/03/25 11:45 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

63 L1844148-05

Collected by: Lynda Price | Collected date/time: 04/03/25 12:25 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

PE-01 L1844148-06

Collected by: Lynda Price | Collected date/time: 04/03/25 09:05 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

-02 L1844148-07

Collected by: Lynda Price | Collected date/time: 04/03/25 13:20 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

-64 L1844148-08

Collected by: Lynda Price | Collected date/time: 04/03/25 13:45 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

-66 L1844148-09

Collected by: Lynda Price
Collected date/time: 04/03/25 15:55
Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

-01 L1844148-10

Collected by: Lynda Price
Collected date/time: 04/03/25 16:05
Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484567	1	04/23/25 00:00	04/23/25 00:00	ANF	Minneapolis, MN 55414

All sa le aliquots ere recei ed at t e correct te erature, in t e ro er containers, it t e a ro riate reser ati es, and it in et od s ecified olding ti es, unless qualified or notated it in t e re ort ere a licable, all M L L and R L L alues re orted for en iron ental sa les a e been corrected for t e dilution factor used in t e anal sis All Met od and atc ualit ontrol are it in establis ed criteria e ce t ere addressed in t is case narrati e, a non-confor ance for or ro erl qualified it in t e sa le results digital signature belo , l affir to t e best of no ledge, all roble s/ano alies obser ed b t e laborator as a ing t e otential to affect t e qualit of t e data a e been identified b t e laborator , and no infor ation or data a e been no ingl it eld t at ould affect t e qualit of t e data

Jordan N Zito
Project Manager

Re ort Re ision istor

Le el II Re ort - ersion 1: 04/23/25 11:46

Project Narrati e

L1844148 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10 contains subout data t at is included after t e c ain of custod

uide to Reading and nderstanding our Laborator Re ort

T e infor ation belo is designed to better e lain t e arious ter s used in our re ort of anal tical results fro t e Laborator T is is not intended as a co re ensi e e lanation, and if ou a e additional questions lease contact our roject re resentati e

Results isclai er - Infor ation t at a be ro ided b t e custo er, and contained it in t is re ort, include Per it Li its, Project Na e, a le I , a le Matri , a le Preser ation, ield lan s, ield i es, ield u licates, n- ite ata, a ling ollection ates/Ti es, and a ling Location Results relate to t e accurac of t is infor ation ro ided, and as t e sa les are recei ed

Abbre iations and efinitions

	a le eli er rou
ncertaint Radioc e istr	onfidence le el of 2 sig a
ase Narrati e n	A brief discussion about t e included sa le results, including a discussion of an non-confor ances to rotocol obser ed eit er at sa le recei t b t e laborator fro t e field or during t e anal tical rocess If resent, t ere ill be a section in t e ase Narrati e to discuss t e eaning of an data qualifiers used in t e re ort
ualit ontrol u ar c	T is section of t e re ort includes t e results of t e laborator qualit control anal ses required b rocedure or anal tical et ods to assist in e aluating t e alidit of t e results re orted for our sa les T ese anal ses are not being erfor ed on our sa les t icall , but on laborator generated aterial
a le ain of ustod c	T is is t e docu ent created in t e field en our sa les ere initiall collected T is is used to erif t e ti e and date of collection, t e erson collecting t e sa les, and t e anal ses t at t e laborator is requested to erfor T is c ain of custod also docu ents all ersons e cluding co ercial s i ers t at a e ad control or ossession of t e sa les fro t e ti e of collection until deli er to t e laborator for anal sis
a le Results r	T is section of our re ort ill ro ide t e results of all testing erfor ed on our sa les T ese results are ro ided b sa le I and are se arated b t e anal ses erfor ed on eac sa le T e eader line of eac anal sis section for eac sa le ill ro ide t e na e and et od nu ber for t e anal sis re orted
a le u ar s	T is section of t e Anal tical Re ort defines t e s ecific anal ses erfor ed for eac sa le I , including t e dates and ti es of re aration and/or anal sis

ualifier escri tion

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Anal tical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
INTERA - Albuquerque, NM

2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Billing Information:
Lynda Price
2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Pres Chk

Report to: Lynda Price

Email To: lprice@intera.com

Project Description:

City/State Collected: New Mexico

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # SFCPW, 0001. PFAS

Lab Project # INTERAANM-PFAS

Collected by (print): LYNDA PRICE

Site/Facility ID #

P.O. #

Collected by (signature): Lynda Price

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day X STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1844148

F062

Acctnum: INTERAANM
Template: T271065
Prelogin: P1141786
PM: 942 - Jordan N Zito
PB: 3/27/25 mV
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SUBPFAS1633 PFAS-500HDPE-NoPres	Remarks	Sample # (lab only)
DWS-60	Grab	GW		4/3/25	0932	2	X		-01
DWS-61	Grab	GW		4/3/25	1030	2	X		-02
SWS-01	Grab	~~SW~~ GW		4/3/25	1056	2	X		-03
DWS-62	Grab	GW		4/3/25	11:45	2	X		-04
DSW-63	Grab	GW		4/3/25	1225	2	X		-05
DUPE-01	Grab	GW		4/3/25	0905	2	X		-06
SWS-02	Grab	~~SW~~ GW		4/3/25	13:20	2	X		-07
DWS-64	Grab	GW		4/3/25	1345	2	X		-08
DWS-66	Grab	GW		4/3/25	15:55	2	X		-09
FB-01	Grab	~~GW~~ AQ		4/3/25	1605	1	X		-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4493 5929 1182

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Bottles Received: 19	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) CBarker	Date: 04/05/25 Time: 0900	Hold: Condition: NCF / OK

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 23, 2025

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1844148 WG2484567
Pace Project No.: 10730185

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for Testing & Innovation

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: L1844148 WG2484567
Pace Project No.: 10730185

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10730185001	**DWS-60**	Water	04/03/25 09:32	04/08/25 08:50
10730185002	**DWS-61**	Water	04/03/25 10:30	04/08/25 08:50
10730185003	**SWS-01**	Water	04/03/25 10:56	04/08/25 08:50
10730185004	**DWS-62**	Water	04/03/25 11:45	04/08/25 08:50
10730185005	**DSW63**	Water	04/03/25 12:25	04/08/25 08:50
10730185006	**DUPE-01**	Water	04/03/25 09:05	04/08/25 08:50
10730185007	**SWS-02**	Water	04/03/25 13:20	04/08/25 08:50
10730185008	**DWS-64**	Water	04/03/25 13:45	04/08/25 08:50
10730185009	**DWS-66**	Water	04/03/25 15:55	04/08/25 08:50
10730185010	**FB-01**	Water	04/03/25 16:05	04/08/25 08:50

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: L1844148 WG2484567
Pace Project No.: 10730185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10730185001	**DWS-60**	EPA 1633	MJL	65	PASI-M
10730185002	**DWS-61**	EPA 1633	MJL	65	PASI-M
10730185003	**SWS-01**	EPA 1633	MJL	65	PASI-M
10730185004	**DWS-62**	EPA 1633	MJL	65	PASI-M
10730185005	**DSW63**	EPA 1633	MJL	65	PASI-M
10730185006	**DUPE-01**	EPA 1633	MJL	65	PASI-M
10730185007	**SWS-02**	EPA 1633	MJL	65	PASI-M
10730185008	**DWS-64**	EPA 1633	MJL	65	PASI-M
10730185009	**DWS-66**	EPA 1633	MJL	65	PASI-M
10730185010	**FB-01**	EPA 1633	MJL	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DWS-60 **Lab ID: 10730185001** Collected: 04/03/25 09:32 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 468.9 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:05	763051-92-9	
3:3 FTCA	ND	ng/L	8.5	1	04/16/25 10:37	04/18/25 16:05	356-02-5	
4:2 FTS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:05	757124-72-4	
5:3 FTCA	ND	ng/L	42.7	1	04/16/25 10:37	04/18/25 16:05	914637-49-3	
6:2 FTS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:05	27619-97-2	
7:3 FTCA	ND	ng/L	42.7	1	04/16/25 10:37	04/18/25 16:05	812-70-4	
8:2 FTS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:05	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:05	756426-58-1	
ADONA	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:05	919005-14-4	
HFPO-DA	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:05	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	4151-50-2	
NEtFOSE	ND	ng/L	17.1	1	04/16/25 10:37	04/18/25 16:05	1691-99-2	
NFDHA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:05	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	31506-32-8	
NMeFOSE	ND	ng/L	17.1	1	04/16/25 10:37	04/18/25 16:05	24448-09-7	
PFBS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	375-73-5	
PFDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	335-76-2	
PFHxA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	307-24-4	
PFBA	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:05	375-22-4	
PFDS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	79780-39-5	
PFEESA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:05	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	375-92-8	
PFMBA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:05	863090-89-5	
PFMPA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:05	377-73-1	
PFNS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	754-91-6	
PFPeA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:05	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	307-55-1	
PFHpA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	375-85-9	
PFHxS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	355-46-4	
PFNA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	375-95-1	
PFOS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	1763-23-1	
PFOA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:05	2058-94-8	
Surrogates								
13C2-PFDoA (S)	56	%.	10-130	1	04/16/25 10:37	04/18/25 16:05		
13C3HFPO-DA (S)	75	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		
13C3-PFBS (S)	81	%.	40-135	1	04/16/25 10:37	04/18/25 16:05		
13C3-PFHxS (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DWS-60 **Lab ID: 10730185001** Collected: 04/03/25 09:32 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 468.9 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	78	%.	5-130	1	04/16/25 10:37	04/18/25 16:05		
13C4-PFHpA (S)	73	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		
13C5-PFHxA (S)	76	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		
13C5-PFPeA (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		
13C6-PFDA (S)	71	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		
13C8-PFOA (S)	76	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		
13C8-PFOS (S)	70	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		
13C8-PFOSA (S)	60	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		
13C9-PFNA (S)	73	%.	40-130	1	04/16/25 10:37	04/18/25 16:05		
d3-MeFOSAA (S)	62	%.	40-170	1	04/16/25 10:37	04/18/25 16:05		
d3-NMeFOSA (S)	49	%.	10-130	1	04/16/25 10:37	04/18/25 16:05		
d5-EtFOSAA (S)	56	%.	25-135	1	04/16/25 10:37	04/18/25 16:05		
d5-NEtFOSA (S)	45	%.	10-130	1	04/16/25 10:37	04/18/25 16:05		
d7-NMeFOSE (S)	54	%.	10-130	1	04/16/25 10:37	04/18/25 16:05		
d9-NEtFOSE (S)	52	%.	10-130	1	04/16/25 10:37	04/18/25 16:05		
13C2-PFTA (S)	52	%.	10-130	1	04/16/25 10:37	04/18/25 16:05		
13C7-PFUdA (S)	65	%.	30-130	1	04/16/25 10:37	04/18/25 16:05		
13C24:2FTS (S)	86	%.	40-200	1	04/16/25 10:37	04/18/25 16:05		
13C26:2FTS (S)	83	%.	40-200	1	04/16/25 10:37	04/18/25 16:05		
13C28:2FTS (S)	76	%.	40-300	1	04/16/25 10:37	04/18/25 16:05		
13C3-PFPrA (S)	13	%.	5-130	1	04/16/25 10:37	04/18/25 16:05		

Sample: DWS-61 **Lab ID: 10730185002** Collected: 04/03/25 10:30 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 463 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:14	763051-92-9	
3:3 FTCA	ND	ng/L	8.6	1	04/16/25 10:37	04/18/25 16:14	356-02-5	
4:2 FTS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:14	757124-72-4	
5:3 FTCA	ND	ng/L	43.2	1	04/16/25 10:37	04/18/25 16:14	914637-49-3	
6:2 FTS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:14	27619-97-2	
7:3 FTCA	ND	ng/L	43.2	1	04/16/25 10:37	04/18/25 16:14	812-70-4	
8:2 FTS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:14	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:14	756426-58-1	
ADONA	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:14	919005-14-4	
HFPO-DA	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:14	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	4151-50-2	
NEtFOSE	ND	ng/L	17.3	1	04/16/25 10:37	04/18/25 16:14	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DWS-61 **Lab ID: 10730185002** Collected: 04/03/25 10:30 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 463 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:14	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	31506-32-8	
NMeFOSE	ND	ng/L	17.3	1	04/16/25 10:37	04/18/25 16:14	24448-09-7	
PFBS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	375-73-5	
PFDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	335-76-2	
PFHxA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	307-24-4	
PFBA	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:14	375-22-4	
PFDS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	79780-39-5	
PFEESA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:14	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	375-92-8	
PFMBA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:14	863090-89-5	
PFMPA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:14	377-73-1	
PFNS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	754-91-6	
PFPeA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:14	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	307-55-1	
PFHpA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	375-85-9	
PFHxS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	355-46-4	
PFNA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	375-95-1	
PFOS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	1763-23-1	
PFOA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:14	2058-94-8	
Surrogates								
13C2-PFDoA (S)	69	%.	10-130	1	04/16/25 10:37	04/18/25 16:14		
13C3HFPO-DA (S)	83	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
13C3-PFBS (S)	82	%.	40-135	1	04/16/25 10:37	04/18/25 16:14		
13C3-PFHxS (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
13C4-PFBA (S)	80	%.	5-130	1	04/16/25 10:37	04/18/25 16:14		
13C4-PFHpA (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
13C5-PFHxA (S)	81	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
13C5-PFPeA (S)	83	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
13C6-PFDA (S)	76	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
13C8-PFOA (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
13C8-PFOS (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
13C8-PFOSA (S)	74	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
13C9-PFNA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:14		
d3-MeFOSAA (S)	72	%.	40-170	1	04/16/25 10:37	04/18/25 16:14		
d3-NMeFOSA (S)	53	%.	10-130	1	04/16/25 10:37	04/18/25 16:14		
d5-EtFOSAA (S)	68	%.	25-135	1	04/16/25 10:37	04/18/25 16:14		
d5-NEtFOSA (S)	47	%.	10-130	1	04/16/25 10:37	04/18/25 16:14		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DWS-61 **Lab ID: 10730185002** Collected: 04/03/25 10:30 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 463 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	63	%.	10-130	1	04/16/25 10:37	04/18/25 16:14		
d9-NEtFOSE (S)	60	%.	10-130	1	04/16/25 10:37	04/18/25 16:14		
13C2-PFTA (S)	64	%.	10-130	1	04/16/25 10:37	04/18/25 16:14		
13C7-PFUdA (S)	77	%.	30-130	1	04/16/25 10:37	04/18/25 16:14		
13C24:2FTS (S)	83	%.	40-200	1	04/16/25 10:37	04/18/25 16:14		
13C26:2FTS (S)	86	%.	40-200	1	04/16/25 10:37	04/18/25 16:14		
13C28:2FTS (S)	80	%.	40-300	1	04/16/25 10:37	04/18/25 16:14		
13C3-PFPrA (S)	39	%.	5-130	1	04/16/25 10:37	04/18/25 16:14		

Sample: SWS-01 **Lab ID: 10730185003** Collected: 04/03/25 10:56 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 469.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:23	763051-92-9	
3:3 FTCA	ND	ng/L	8.5	1	04/16/25 10:37	04/18/25 16:23	356-02-5	
4:2 FTS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:23	757124-72-4	
5:3 FTCA	ND	ng/L	42.6	1	04/16/25 10:37	04/18/25 16:23	914637-49-3	
6:2 FTS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:23	27619-97-2	
7:3 FTCA	ND	ng/L	42.6	1	04/16/25 10:37	04/18/25 16:23	812-70-4	
8:2 FTS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:23	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:23	756426-58-1	
ADONA	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:23	919005-14-4	
HFPO-DA	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:23	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	4151-50-2	
NEtFOSE	ND	ng/L	17.0	1	04/16/25 10:37	04/18/25 16:23	1691-99-2	
NFDHA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:23	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	31506-32-8	
NMeFOSE	ND	ng/L	17.0	1	04/16/25 10:37	04/18/25 16:23	24448-09-7	
PFBS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	375-73-5	
PFDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	335-76-2	
PFHxA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	307-24-4	
PFBA	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 16:23	375-22-4	
PFDS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	79780-39-5	
PFEESA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:23	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	375-92-8	
PFMBA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:23	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: SWS-01 **Lab ID: 10730185003** Collected: 04/03/25 10:56 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 469.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:23	377-73-1	
PFNS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	754-91-6	
PFPeA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:23	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	307-55-1	
PFHpA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	375-85-9	
PFHxS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	355-46-4	
PFNA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	375-95-1	
PFOS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	1763-23-1	
PFOA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:23	2058-94-8	
Surrogates								
13C2-PFDoA (S)	64	%.	10-130	1	04/16/25 10:37	04/18/25 16:23		
13C3HFPO-DA (S)	67	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
13C3-PFBS (S)	73	%.	40-135	1	04/16/25 10:37	04/18/25 16:23		
13C3-PFHxS (S)	71	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
13C4-PFBA (S)	70	%.	5-130	1	04/16/25 10:37	04/18/25 16:23		
13C4-PFHpA (S)	69	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
13C5-PFHxA (S)	68	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
13C5-PFPeA (S)	70	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
13C6-PFDA (S)	68	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
13C8-PFOA (S)	71	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
13C8-PFOS (S)	65	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
13C8-PFOSA (S)	58	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
13C9-PFNA (S)	70	%.	40-130	1	04/16/25 10:37	04/18/25 16:23		
d3-MeFOSAA (S)	60	%.	40-170	1	04/16/25 10:37	04/18/25 16:23		
d3-NMeFOSA (S)	50	%.	10-130	1	04/16/25 10:37	04/18/25 16:23		
d5-EtFOSAA (S)	59	%.	25-135	1	04/16/25 10:37	04/18/25 16:23		
d5-NEtFOSA (S)	47	%.	10-130	1	04/16/25 10:37	04/18/25 16:23		
d7-NMeFOSE (S)	52	%.	10-130	1	04/16/25 10:37	04/18/25 16:23		
d9-NEtFOSE (S)	51	%.	10-130	1	04/16/25 10:37	04/18/25 16:23		
13C2-PFTA (S)	55	%.	10-130	1	04/16/25 10:37	04/18/25 16:23		
13C7-PFUdA (S)	73	%.	30-130	1	04/16/25 10:37	04/18/25 16:23		
13C24:2FTS (S)	79	%.	40-200	1	04/16/25 10:37	04/18/25 16:23		
13C26:2FTS (S)	80	%.	40-200	1	04/16/25 10:37	04/18/25 16:23		
13C28:2FTS (S)	77	%.	40-300	1	04/16/25 10:37	04/18/25 16:23		
13C3-PFPrA (S)	21	%.	5-130	1	04/16/25 10:37	04/18/25 16:23		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DWS-62 **Lab ID: 10730185004** Collected: 04/03/25 11:45 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 482.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 16:32	763051-92-9	
3:3 FTCA	ND	ng/L	8.3	1	04/16/25 10:37	04/18/25 16:32	356-02-5	
4:2 FTS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 16:32	757124-72-4	
5:3 FTCA	ND	ng/L	41.5	1	04/16/25 10:37	04/18/25 16:32	914637-49-3	
6:2 FTS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 16:32	27619-97-2	
7:3 FTCA	ND	ng/L	41.5	1	04/16/25 10:37	04/18/25 16:32	812-70-4	
8:2 FTS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 16:32	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 16:32	756426-58-1	
ADONA	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 16:32	919005-14-4	
HFPO-DA	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 16:32	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	4151-50-2	
NEtFOSE	ND	ng/L	16.6	1	04/16/25 10:37	04/18/25 16:32	1691-99-2	
NFDHA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 16:32	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	31506-32-8	
NMeFOSE	ND	ng/L	16.6	1	04/16/25 10:37	04/18/25 16:32	24448-09-7	
PFBS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	375-73-5	
PFDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	335-76-2	
PFHxA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	307-24-4	
PFBA	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 16:32	375-22-4	
PFDS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	79780-39-5	
PFEESA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 16:32	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	375-92-8	
PFMBA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 16:32	863090-89-5	
PFMPA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 16:32	377-73-1	
PFNS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	754-91-6	
PFPeA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 16:32	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	307-55-1	
PFHpA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	375-85-9	
PFHxS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	355-46-4	
PFNA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	375-95-1	
PFOS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	1763-23-1	
PFOA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:32	2058-94-8	
Surrogates								
13C2-PFDoA (S)	70	%.	10-130	1	04/16/25 10:37	04/18/25 16:32		
13C3HFPO-DA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		
13C3-PFBS (S)	80	%.	40-135	1	04/16/25 10:37	04/18/25 16:32		
13C3-PFHxS (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DWS-62 **Lab ID: 10730185004** Collected: 04/03/25 11:45 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 482.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	78	%.	5-130	1	04/16/25 10:37	04/18/25 16:32		
13C4-PFHpA (S)	76	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		
13C5-PFHxA (S)	76	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		
13C5-PFPeA (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		
13C6-PFDA (S)	80	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		
13C8-PFOA (S)	80	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		
13C8-PFOS (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		
13C8-PFOSA (S)	68	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		
13C9-PFNA (S)	80	%.	40-130	1	04/16/25 10:37	04/18/25 16:32		
d3-MeFOSAA (S)	68	%.	40-170	1	04/16/25 10:37	04/18/25 16:32		
d3-NMeFOSA (S)	53	%.	10-130	1	04/16/25 10:37	04/18/25 16:32		
d5-EtFOSAA (S)	66	%.	25-135	1	04/16/25 10:37	04/18/25 16:32		
d5-NEtFOSA (S)	47	%.	10-130	1	04/16/25 10:37	04/18/25 16:32		
d7-NMeFOSE (S)	57	%.	10-130	1	04/16/25 10:37	04/18/25 16:32		
d9-NEtFOSE (S)	55	%.	10-130	1	04/16/25 10:37	04/18/25 16:32		
13C2-PFTA (S)	61	%.	10-130	1	04/16/25 10:37	04/18/25 16:32		
13C7-PFUdA (S)	77	%.	30-130	1	04/16/25 10:37	04/18/25 16:32		
13C24:2FTS (S)	82	%.	40-200	1	04/16/25 10:37	04/18/25 16:32		
13C26:2FTS (S)	81	%.	40-200	1	04/16/25 10:37	04/18/25 16:32		
13C28:2FTS (S)	85	%.	40-300	1	04/16/25 10:37	04/18/25 16:32		
13C3-PFPrA (S)	19	%.	5-130	1	04/16/25 10:37	04/18/25 16:32		

Sample: DSW63 **Lab ID: 10730185005** Collected: 04/03/25 12:25 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 475.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.7	1	04/16/25 10:37	04/18/25 16:41	763051-92-9	
3:3 FTCA	ND	ng/L	8.4	1	04/16/25 10:37	04/18/25 16:41	356-02-5	
4:2 FTS	ND	ng/L	6.7	1	04/16/25 10:37	04/18/25 16:41	757124-72-4	
5:3 FTCA	ND	ng/L	42.1	1	04/16/25 10:37	04/18/25 16:41	914637-49-3	
6:2 FTS	ND	ng/L	6.7	1	04/16/25 10:37	04/18/25 16:41	27619-97-2	
7:3 FTCA	ND	ng/L	42.1	1	04/16/25 10:37	04/18/25 16:41	812-70-4	
8:2 FTS	ND	ng/L	6.7	1	04/16/25 10:37	04/18/25 16:41	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.7	1	04/16/25 10:37	04/18/25 16:41	756426-58-1	
ADONA	ND	ng/L	6.7	1	04/16/25 10:37	04/18/25 16:41	919005-14-4	
HFPO-DA	ND	ng/L	6.7	1	04/16/25 10:37	04/18/25 16:41	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	4151-50-2	
NEtFOSE	ND	ng/L	16.8	1	04/16/25 10:37	04/18/25 16:41	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DSW63 **Lab ID: 10730185005** Collected: 04/03/25 12:25 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 475.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:41	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	31506-32-8	
NMeFOSE	ND	ng/L	16.8	1	04/16/25 10:37	04/18/25 16:41	24448-09-7	
PFBS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	375-73-5	
PFDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	335-76-2	
PFHxA	**1.8**	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	307-24-4	
PFBA	ND	ng/L	6.7	1	04/16/25 10:37	04/18/25 16:41	375-22-4	
PFDS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	79780-39-5	
PFEESA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:41	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	375-92-8	
PFMBA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:41	863090-89-5	
PFMPA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:41	377-73-1	
PFNS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	754-91-6	
PFPeA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 16:41	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	307-55-1	
PFHpA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	375-85-9	
PFHxS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	355-46-4	
PFNA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	375-95-1	
PFOS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	1763-23-1	
PFOA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:41	2058-94-8	
Surrogates								
13C2-PFDoA (S)	72	%.	10-130	1	04/16/25 10:37	04/18/25 16:41		
13C3HFPO-DA (S)	75	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
13C3-PFBS (S)	78	%.	40-135	1	04/16/25 10:37	04/18/25 16:41		
13C3-PFHxS (S)	72	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
13C4-PFBA (S)	77	%.	5-130	1	04/16/25 10:37	04/18/25 16:41		
13C4-PFHpA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
13C5-PFHxA (S)	75	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
13C5-PFPeA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
13C6-PFDA (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
13C8-PFOA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
13C8-PFOS (S)	74	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
13C8-PFOSA (S)	69	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
13C9-PFNA (S)	76	%.	40-130	1	04/16/25 10:37	04/18/25 16:41		
d3-MeFOSAA (S)	70	%.	40-170	1	04/16/25 10:37	04/18/25 16:41		
d3-NMeFOSA (S)	55	%.	10-130	1	04/16/25 10:37	04/18/25 16:41		
d5-EtFOSAA (S)	68	%.	25-135	1	04/16/25 10:37	04/18/25 16:41		
d5-NEtFOSA (S)	54	%.	10-130	1	04/16/25 10:37	04/18/25 16:41		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DSW63 **Lab ID: 10730185005** Collected: 04/03/25 12:25 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 475.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	63	%.	10-130	1	04/16/25 10:37	04/18/25 16:41		
d9-NEtFOSE (S)	62	%.	10-130	1	04/16/25 10:37	04/18/25 16:41		
13C2-PFTA (S)	66	%.	10-130	1	04/16/25 10:37	04/18/25 16:41		
13C7-PFUdA (S)	82	%.	30-130	1	04/16/25 10:37	04/18/25 16:41		
13C24:2FTS (S)	77	%.	40-200	1	04/16/25 10:37	04/18/25 16:41		
13C26:2FTS (S)	83	%.	40-200	1	04/16/25 10:37	04/18/25 16:41		
13C28:2FTS (S)	81	%.	40-300	1	04/16/25 10:37	04/18/25 16:41		
13C3-PFPrA (S)	19	%.	5-130	1	04/16/25 10:37	04/18/25 16:41		

Sample: DUPE-01 **Lab ID: 10730185006** Collected: 04/03/25 09:05 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 484.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 15:55	763051-92-9	
3:3 FTCA	ND	ng/L	8.3	1	04/16/25 10:37	04/18/25 15:55	356-02-5	
4:2 FTS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 15:55	757124-72-4	
5:3 FTCA	ND	ng/L	41.3	1	04/16/25 10:37	04/18/25 15:55	914637-49-3	
6:2 FTS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 15:55	27619-97-2	
7:3 FTCA	ND	ng/L	41.3	1	04/16/25 10:37	04/18/25 15:55	812-70-4	
8:2 FTS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 15:55	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 15:55	756426-58-1	
ADONA	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 15:55	919005-14-4	
HFPO-DA	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 15:55	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	4151-50-2	
NEtFOSE	ND	ng/L	16.5	1	04/16/25 10:37	04/18/25 15:55	1691-99-2	
NFDHA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 15:55	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	31506-32-8	
NMeFOSE	ND	ng/L	16.5	1	04/16/25 10:37	04/18/25 15:55	24448-09-7	
PFBS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	375-73-5	
PFDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	335-76-2	
PFHxA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	307-24-4	
PFBA	ND	ng/L	6.6	1	04/16/25 10:37	04/18/25 15:55	375-22-4	
PFDS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	79780-39-5	
PFEESA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 15:55	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	375-92-8	
PFMBA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 15:55	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DUPE-01 **Lab ID: 10730185006** Collected: 04/03/25 09:05 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 484.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 15:55	377-73-1	
PFNS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	754-91-6	
PFPeA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 15:55	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	307-55-1	
PFHpA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	375-85-9	
PFHxS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	355-46-4	
PFNA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	375-95-1	
PFOS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	1763-23-1	
PFOA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 15:55	2058-94-8	
Surrogates								
13C2-PFDoA (S)	74	%.	10-130	1	04/16/25 10:37	04/18/25 15:55		
13C3HFPO-DA (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
13C3-PFBS (S)	82	%.	40-135	1	04/16/25 10:37	04/18/25 15:55		
13C3-PFHxS (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
13C4-PFBA (S)	80	%.	5-130	1	04/16/25 10:37	04/18/25 15:55		
13C4-PFHpA (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
13C5-PFHxA (S)	71	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
13C5-PFPeA (S)	80	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
13C6-PFDA (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
13C8-PFOA (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
13C8-PFOS (S)	75	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
13C8-PFOSA (S)	70	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
13C9-PFNA (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 15:55		
d3-MeFOSAA (S)	74	%.	40-170	1	04/16/25 10:37	04/18/25 15:55		
d3-NMeFOSA (S)	60	%.	10-130	1	04/16/25 10:37	04/18/25 15:55		
d5-EtFOSAA (S)	70	%.	25-135	1	04/16/25 10:37	04/18/25 15:55		
d5-NEtFOSA (S)	58	%.	10-130	1	04/16/25 10:37	04/18/25 15:55		
d7-NMeFOSE (S)	67	%.	10-130	1	04/16/25 10:37	04/18/25 15:55		
d9-NEtFOSE (S)	66	%.	10-130	1	04/16/25 10:37	04/18/25 15:55		
13C2-PFTA (S)	66	%.	10-130	1	04/16/25 10:37	04/18/25 15:55		
13C7-PFUdA (S)	77	%.	30-130	1	04/16/25 10:37	04/18/25 15:55		
13C24:2FTS (S)	83	%.	40-200	1	04/16/25 10:37	04/18/25 15:55		
13C26:2FTS (S)	82	%.	40-200	1	04/16/25 10:37	04/18/25 15:55		
13C28:2FTS (S)	79	%.	40-300	1	04/16/25 10:37	04/18/25 15:55		
13C3-PFPrA (S)	18	%.	5-130	1	04/16/25 10:37	04/18/25 15:55		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: SWS-02 **Lab ID: 10730185007** Collected: 04/03/25 13:20 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 463.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:50	763051-92-9	
3:3 FTCA	ND	ng/L	8.6	1	04/16/25 10:37	04/18/25 16:50	356-02-5	
4:2 FTS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:50	757124-72-4	
5:3 FTCA	ND	ng/L	43.2	1	04/16/25 10:37	04/18/25 16:50	914637-49-3	
6:2 FTS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:50	27619-97-2	
7:3 FTCA	ND	ng/L	43.2	1	04/16/25 10:37	04/18/25 16:50	812-70-4	
8:2 FTS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:50	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:50	756426-58-1	
ADONA	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:50	919005-14-4	
HFPO-DA	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:50	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	4151-50-2	
NEtFOSE	ND	ng/L	17.3	1	04/16/25 10:37	04/18/25 16:50	1691-99-2	
NFDHA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:50	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	31506-32-8	
NMeFOSE	ND	ng/L	17.3	1	04/16/25 10:37	04/18/25 16:50	24448-09-7	
PFBS	**2.3**	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	375-73-5	
PFDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	335-76-2	
PFHxA	**2.4**	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	307-24-4	
PFBA	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 16:50	375-22-4	
PFDS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	79780-39-5	
PFEESA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:50	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	375-92-8	
PFMBA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:50	863090-89-5	
PFMPA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:50	377-73-1	
PFNS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	754-91-6	
PFPeA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 16:50	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	307-55-1	
PFHpA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	375-85-9	
PFHxS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	355-46-4	
PFNA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	375-95-1	
PFOS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	1763-23-1	
PFOA	**2.2**	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 16:50	2058-94-8	
Surrogates								
13C2-PFDoA (S)	64	%.	10-130	1	04/16/25 10:37	04/18/25 16:50		
13C3HFPO-DA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		
13C3-PFBS (S)	82	%.	40-135	1	04/16/25 10:37	04/18/25 16:50		
13C3-PFHxS (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: SWS-02 **Lab ID: 10730185007** Collected: 04/03/25 13:20 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 463.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	78	%.	5-130	1	04/16/25 10:37	04/18/25 16:50		
13C4-PFHpA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		
13C5-PFHxA (S)	81	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		
13C5-PFPeA (S)	82	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		
13C6-PFDA (S)	74	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		
13C8-PFOA (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		
13C8-PFOS (S)	74	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		
13C8-PFOSA (S)	64	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		
13C9-PFNA (S)	73	%.	40-130	1	04/16/25 10:37	04/18/25 16:50		
d3-MeFOSAA (S)	58	%.	40-170	1	04/16/25 10:37	04/18/25 16:50		
d3-NMeFOSA (S)	55	%.	10-130	1	04/16/25 10:37	04/18/25 16:50		
d5-EtFOSAA (S)	55	%.	25-135	1	04/16/25 10:37	04/18/25 16:50		
d5-NEtFOSA (S)	49	%.	10-130	1	04/16/25 10:37	04/18/25 16:50		
d7-NMeFOSE (S)	55	%.	10-130	1	04/16/25 10:37	04/18/25 16:50		
d9-NEtFOSE (S)	52	%.	10-130	1	04/16/25 10:37	04/18/25 16:50		
13C2-PFTA (S)	57	%.	10-130	1	04/16/25 10:37	04/18/25 16:50		
13C7-PFUdA (S)	75	%.	30-130	1	04/16/25 10:37	04/18/25 16:50		
13C24:2FTS (S)	88	%.	40-200	1	04/16/25 10:37	04/18/25 16:50		
13C26:2FTS (S)	74	%.	40-200	1	04/16/25 10:37	04/18/25 16:50		
13C28:2FTS (S)	77	%.	40-300	1	04/16/25 10:37	04/18/25 16:50		
13C3-PFPrA (S)	3	%.	5-130	1	04/16/25 10:37	04/18/25 16:50		S0

Sample: DWS-64 **Lab ID: 10730185008** Collected: 04/03/25 13:45 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 460.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 17:00	763051-92-9	
3:3 FTCA	ND	ng/L	8.7	1	04/16/25 10:37	04/18/25 17:00	356-02-5	
4:2 FTS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 17:00	757124-72-4	
5:3 FTCA	ND	ng/L	43.4	1	04/16/25 10:37	04/18/25 17:00	914637-49-3	
6:2 FTS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 17:00	27619-97-2	
7:3 FTCA	ND	ng/L	43.4	1	04/16/25 10:37	04/18/25 17:00	812-70-4	
8:2 FTS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 17:00	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 17:00	756426-58-1	
ADONA	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 17:00	919005-14-4	
HFPO-DA	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 17:00	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	4151-50-2	
NEtFOSE	ND	ng/L	17.4	1	04/16/25 10:37	04/18/25 17:00	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DWS-64 **Lab ID: 10730185008** Collected: 04/03/25 13:45 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 460.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 17:00	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	31506-32-8	
NMeFOSE	ND	ng/L	17.4	1	04/16/25 10:37	04/18/25 17:00	24448-09-7	
PFBS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	375-73-5	
PFDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	335-76-2	
PFHxA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	307-24-4	
PFBA	ND	ng/L	6.9	1	04/16/25 10:37	04/18/25 17:00	375-22-4	
PFDS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	79780-39-5	
PFEESA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 17:00	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	375-92-8	
PFMBA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 17:00	863090-89-5	
PFMPA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 17:00	377-73-1	
PFNS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	754-91-6	
PFPeA	ND	ng/L	3.5	1	04/16/25 10:37	04/18/25 17:00	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	307-55-1	
PFHpA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	375-85-9	
PFHxS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	355-46-4	
PFNA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	375-95-1	
PFOS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	1763-23-1	
PFOA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:00	2058-94-8	
Surrogates								
13C2-PFDoA (S)	70	%.	10-130	1	04/16/25 10:37	04/18/25 17:00		
13C3HFPO-DA (S)	75	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
13C3-PFBS (S)	80	%.	40-135	1	04/16/25 10:37	04/18/25 17:00		
13C3-PFHxS (S)	80	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
13C4-PFBA (S)	77	%.	5-130	1	04/16/25 10:37	04/18/25 17:00		
13C4-PFHpA (S)	74	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
13C5-PFHxA (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
13C5-PFPeA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
13C6-PFDA (S)	75	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
13C8-PFOA (S)	76	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
13C8-PFOS (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
13C8-PFOSA (S)	70	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
13C9-PFNA (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 17:00		
d3-MeFOSAA (S)	70	%.	40-170	1	04/16/25 10:37	04/18/25 17:00		
d3-NMeFOSA (S)	54	%.	10-130	1	04/16/25 10:37	04/18/25 17:00		
d5-EtFOSAA (S)	63	%.	25-135	1	04/16/25 10:37	04/18/25 17:00		
d5-NEtFOSA (S)	51	%.	10-130	1	04/16/25 10:37	04/18/25 17:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DWS-64 **Lab ID: 10730185008** Collected: 04/03/25 13:45 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 460.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	63	%.	10-130	1	04/16/25 10:37	04/18/25 17:00		
d9-NEtFOSE (S)	62	%.	10-130	1	04/16/25 10:37	04/18/25 17:00		
13C2-PFTA (S)	64	%.	10-130	1	04/16/25 10:37	04/18/25 17:00		
13C7-PFUdA (S)	77	%.	30-130	1	04/16/25 10:37	04/18/25 17:00		
13C24:2FTS (S)	78	%.	40-200	1	04/16/25 10:37	04/18/25 17:00		
13C26:2FTS (S)	87	%.	40-200	1	04/16/25 10:37	04/18/25 17:00		
13C28:2FTS (S)	82	%.	40-300	1	04/16/25 10:37	04/18/25 17:00		
13C3-PFPrA (S)	35	%.	5-130	1	04/16/25 10:37	04/18/25 17:00		

Sample: DWS-66 **Lab ID: 10730185009** Collected: 04/03/25 15:55 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 490.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.5	1	04/16/25 10:37	04/18/25 17:27	763051-92-9	
3:3 FTCA	ND	ng/L	8.2	1	04/16/25 10:37	04/18/25 17:27	356-02-5	
4:2 FTS	ND	ng/L	6.5	1	04/16/25 10:37	04/18/25 17:27	757124-72-4	
5:3 FTCA	ND	ng/L	40.8	1	04/16/25 10:37	04/18/25 17:27	914637-49-3	
6:2 FTS	ND	ng/L	6.5	1	04/16/25 10:37	04/18/25 17:27	27619-97-2	
7:3 FTCA	ND	ng/L	40.8	1	04/16/25 10:37	04/18/25 17:27	812-70-4	
8:2 FTS	ND	ng/L	6.5	1	04/16/25 10:37	04/18/25 17:27	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.5	1	04/16/25 10:37	04/18/25 17:27	756426-58-1	
ADONA	ND	ng/L	6.5	1	04/16/25 10:37	04/18/25 17:27	919005-14-4	
HFPO-DA	ND	ng/L	6.5	1	04/16/25 10:37	04/18/25 17:27	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	4151-50-2	
NEtFOSE	ND	ng/L	16.3	1	04/16/25 10:37	04/18/25 17:27	1691-99-2	
NFDHA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 17:27	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	31506-32-8	
NMeFOSE	ND	ng/L	16.3	1	04/16/25 10:37	04/18/25 17:27	24448-09-7	
PFBS	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	375-73-5	
PFDA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	335-76-2	
PFHxA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	307-24-4	
PFBA	ND	ng/L	6.5	1	04/16/25 10:37	04/18/25 17:27	375-22-4	
PFDS	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	335-77-3	
PFDoS	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	79780-39-5	
PFEESA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 17:27	113507-82-7	
PFHpS	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	375-92-8	
PFMBA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 17:27	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: DWS-66 **Lab ID: 10730185009** Collected: 04/03/25 15:55 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 490.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 17:27	377-73-1	
PFNS	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	68259-12-1	
PFOSA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	754-91-6	
PFPeA	ND	ng/L	3.3	1	04/16/25 10:37	04/18/25 17:27	2706-90-3	
PFPeS	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	2706-91-4	
PFDoA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	307-55-1	
PFHpA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	375-85-9	
PFHxS	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	355-46-4	
PFNA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	375-95-1	
PFOS	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	1763-23-1	
PFOA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	335-67-1	
PFTeDA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	376-06-7	
PFTrDA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	72629-94-8	
PFUnA	ND	ng/L	1.6	1	04/16/25 10:37	04/18/25 17:27	2058-94-8	
Surrogates								
13C2-PFDoA (S)	82	%.	10-130	1	04/16/25 10:37	04/18/25 17:27		
13C3HFPO-DA (S)	84	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
13C3-PFBS (S)	84	%.	40-135	1	04/16/25 10:37	04/18/25 17:27		
13C3-PFHxS (S)	80	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
13C4-PFBA (S)	85	%.	5-130	1	04/16/25 10:37	04/18/25 17:27		
13C4-PFHpA (S)	84	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
13C5-PFHxA (S)	85	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
13C5-PFPeA (S)	87	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
13C6-PFDA (S)	84	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
13C8-PFOA (S)	84	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
13C8-PFOS (S)	80	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
13C8-PFOSA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
13C9-PFNA (S)	85	%.	40-130	1	04/16/25 10:37	04/18/25 17:27		
d3-MeFOSAA (S)	81	%.	40-170	1	04/16/25 10:37	04/18/25 17:27		
d3-NMeFOSA (S)	65	%.	10-130	1	04/16/25 10:37	04/18/25 17:27		
d5-EtFOSAA (S)	75	%.	25-135	1	04/16/25 10:37	04/18/25 17:27		
d5-NEtFOSA (S)	62	%.	10-130	1	04/16/25 10:37	04/18/25 17:27		
d7-NMeFOSE (S)	70	%.	10-130	1	04/16/25 10:37	04/18/25 17:27		
d9-NEtFOSE (S)	69	%.	10-130	1	04/16/25 10:37	04/18/25 17:27		
13C2-PFTA (S)	77	%.	10-130	1	04/16/25 10:37	04/18/25 17:27		
13C7-PFUdA (S)	87	%.	30-130	1	04/16/25 10:37	04/18/25 17:27		
13C24:2FTS (S)	94	%.	40-200	1	04/16/25 10:37	04/18/25 17:27		
13C26:2FTS (S)	94	%.	40-200	1	04/16/25 10:37	04/18/25 17:27		
13C28:2FTS (S)	92	%.	40-300	1	04/16/25 10:37	04/18/25 17:27		
13C3-PFPrA (S)	25	%.	5-130	1	04/16/25 10:37	04/18/25 17:27		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: FB-01 **Lab ID: 10730185010** Collected: 04/03/25 16:05 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 470 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 17:36	763051-92-9	
3:3 FTCA	ND	ng/L	8.5	1	04/16/25 10:37	04/18/25 17:36	356-02-5	
4:2 FTS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 17:36	757124-72-4	
5:3 FTCA	ND	ng/L	42.6	1	04/16/25 10:37	04/18/25 17:36	914637-49-3	
6:2 FTS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 17:36	27619-97-2	
7:3 FTCA	ND	ng/L	42.6	1	04/16/25 10:37	04/18/25 17:36	812-70-4	
8:2 FTS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 17:36	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 17:36	756426-58-1	
ADONA	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 17:36	919005-14-4	
HFPO-DA	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 17:36	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	4151-50-2	
NEtFOSE	ND	ng/L	17.0	1	04/16/25 10:37	04/18/25 17:36	1691-99-2	
NFDHA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 17:36	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	31506-32-8	
NMeFOSE	ND	ng/L	17.0	1	04/16/25 10:37	04/18/25 17:36	24448-09-7	
PFBS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	375-73-5	
PFDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	335-76-2	
PFHxA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	307-24-4	
PFBA	ND	ng/L	6.8	1	04/16/25 10:37	04/18/25 17:36	375-22-4	
PFDS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	79780-39-5	
PFEESA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 17:36	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	375-92-8	
PFMBA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 17:36	863090-89-5	
PFMPA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 17:36	377-73-1	
PFNS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	754-91-6	
PFPeA	ND	ng/L	3.4	1	04/16/25 10:37	04/18/25 17:36	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	307-55-1	
PFHpA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	375-85-9	
PFHxS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	355-46-4	
PFNA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	375-95-1	
PFOS	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	1763-23-1	
PFOA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/16/25 10:37	04/18/25 17:36	2058-94-8	
Surrogates								
13C2-PFDoA (S)	69	%.	10-130	1	04/16/25 10:37	04/18/25 17:36		
13C3HFPO-DA (S)	78	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		
13C3-PFBS (S)	80	%.	40-135	1	04/16/25 10:37	04/18/25 17:36		
13C3-PFHxS (S)	76	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844148 WG2484567
Pace Project No.: 10730185

Sample: FB-01 **Lab ID: 10730185010** Collected: 04/03/25 16:05 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 470 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	78	%.	5-130	1	04/16/25 10:37	04/18/25 17:36		
13C4-PFHpA (S)	77	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		
13C5-PFHxA (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		
13C5-PFPeA (S)	79	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		
13C6-PFDA (S)	73	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		
13C8-PFOA (S)	80	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		
13C8-PFOS (S)	72	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		
13C8-PFOSA (S)	67	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		
13C9-PFNA (S)	80	%.	40-130	1	04/16/25 10:37	04/18/25 17:36		
d3-MeFOSAA (S)	71	%.	40-170	1	04/16/25 10:37	04/18/25 17:36		
d3-NMeFOSA (S)	52	%.	10-130	1	04/16/25 10:37	04/18/25 17:36		
d5-EtFOSAA (S)	71	%.	25-135	1	04/16/25 10:37	04/18/25 17:36		
d5-NEtFOSA (S)	51	%.	10-130	1	04/16/25 10:37	04/18/25 17:36		
d7-NMeFOSE (S)	63	%.	10-130	1	04/16/25 10:37	04/18/25 17:36		
d9-NEtFOSE (S)	62	%.	10-130	1	04/16/25 10:37	04/18/25 17:36		
13C2-PFTA (S)	64	%.	10-130	1	04/16/25 10:37	04/18/25 17:36		
13C7-PFUdA (S)	74	%.	30-130	1	04/16/25 10:37	04/18/25 17:36		
13C24:2FTS (S)	91	%.	40-200	1	04/16/25 10:37	04/18/25 17:36		
13C26:2FTS (S)	88	%.	40-200	1	04/16/25 10:37	04/18/25 17:36		
13C28:2FTS (S)	85	%.	40-300	1	04/16/25 10:37	04/18/25 17:36		
13C3-PFPrA (S)	80	%.	5-130	1	04/16/25 10:37	04/18/25 17:36		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844148 WG2484567
Pace Project No.: 10730185

QC Batch: 1001595
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10730185001, 10730185002, 10730185003, 10730185004, 10730185005, 10730185006, 10730185007, 10730185008, 10730185009, 10730185010

METHOD BLANK: 5223661
Matrix: Water
Associated Lab Samples: 10730185001, 10730185002, 10730185003, 10730185004, 10730185005, 10730185006, 10730185007, 10730185008, 10730185009, 10730185010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	04/18/25 15:28	
3:3 FTCA	ng/L	ND	8.0	04/18/25 15:28	
4:2 FTS	ng/L	ND	6.4	04/18/25 15:28	
5:3 FTCA	ng/L	ND	40.0	04/18/25 15:28	
6:2 FTS	ng/L	ND	6.4	04/18/25 15:28	
7:3 FTCA	ng/L	ND	40.0	04/18/25 15:28	
8:2 FTS	ng/L	ND	6.4	04/18/25 15:28	
9Cl-PF3ONS	ng/L	ND	6.4	04/18/25 15:28	
ADONA	ng/L	ND	6.4	04/18/25 15:28	
HFPO-DA	ng/L	ND	6.4	04/18/25 15:28	
NEtFOSA	ng/L	ND	1.6	04/18/25 15:28	
NEtFOSAA	ng/L	ND	1.6	04/18/25 15:28	
NEtFOSE	ng/L	ND	16.0	04/18/25 15:28	
NFDHA	ng/L	ND	3.2	04/18/25 15:28	
NMeFOSA	ng/L	ND	1.6	04/18/25 15:28	
NMeFOSAA	ng/L	ND	1.6	04/18/25 15:28	
NMeFOSE	ng/L	ND	16.0	04/18/25 15:28	
PFBA	ng/L	ND	6.4	04/18/25 15:28	
PFBS	ng/L	ND	1.6	04/18/25 15:28	
PFDA	ng/L	ND	1.6	04/18/25 15:28	
PFDoA	ng/L	ND	1.6	04/18/25 15:28	
PFDoS	ng/L	ND	1.6	04/18/25 15:28	
PFDS	ng/L	ND	1.6	04/18/25 15:28	
PFEESA	ng/L	ND	3.2	04/18/25 15:28	
PFHpA	ng/L	ND	1.6	04/18/25 15:28	
PFHpS	ng/L	ND	1.6	04/18/25 15:28	
PFHxA	ng/L	ND	1.6	04/18/25 15:28	
PFHxS	ng/L	ND	1.6	04/18/25 15:28	
PFMBA	ng/L	ND	3.2	04/18/25 15:28	
PFMPA	ng/L	ND	3.2	04/18/25 15:28	
PFNA	ng/L	ND	1.6	04/18/25 15:28	
PFNS	ng/L	ND	1.6	04/18/25 15:28	
PFOA	ng/L	ND	1.6	04/18/25 15:28	
PFOS	ng/L	ND	1.6	04/18/25 15:28	
PFOSA	ng/L	ND	1.6	04/18/25 15:28	
PFPeA	ng/L	ND	3.2	04/18/25 15:28	
PFPeS	ng/L	ND	1.6	04/18/25 15:28	
PFTeDA	ng/L	ND	1.6	04/18/25 15:28	
PFTrDA	ng/L	ND	1.6	04/18/25 15:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844148 WG2484567
Pace Project No.: 10730185

METHOD BLANK: 5223661 Matrix: Water

Associated Lab Samples: 10730185001, 10730185002, 10730185003, 10730185004, 10730185005, 10730185006, 10730185007, 10730185008, 10730185009, 10730185010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PFUnA	ng/L	ND	1.6	04/18/25 15:28	
13C2-PFDoA (S)	%.	73	10-130	04/18/25 15:28	
13C2-PFTA (S)	%.	67	10-130	04/18/25 15:28	
13C24:2FTS (S)	%.	66	40-200	04/18/25 15:28	
13C26:2FTS (S)	%.	79	40-200	04/18/25 15:28	
13C28:2FTS (S)	%.	82	40-300	04/18/25 15:28	
13C3-PFBS (S)	%.	90	40-135	04/18/25 15:28	
13C3-PFHxS (S)	%.	85	40-130	04/18/25 15:28	
13C3-PFPrA (S)	%.	90	5-130	04/18/25 15:28	
13C3HFPO-DA (S)	%.	87	40-130	04/18/25 15:28	
13C4-PFBA (S)	%.	86	5-130	04/18/25 15:28	
13C4-PFHpA (S)	%.	84	40-130	04/18/25 15:28	
13C5-PFHxA (S)	%.	85	40-130	04/18/25 15:28	
13C5-PFPeA (S)	%.	88	40-130	04/18/25 15:28	
13C6-PFDA (S)	%.	81	40-130	04/18/25 15:28	
13C7-PFUdA (S)	%.	83	30-130	04/18/25 15:28	
13C8-PFOA (S)	%.	87	40-130	04/18/25 15:28	
13C8-PFOS (S)	%.	89	40-130	04/18/25 15:28	
13C8-PFOSA (S)	%.	71	40-130	04/18/25 15:28	
13C9-PFNA (S)	%.	86	40-130	04/18/25 15:28	
d3-MeFOSAA (S)	%.	65	40-170	04/18/25 15:28	
d3-NMeFOSA (S)	%.	55	10-130	04/18/25 15:28	
d5-EtFOSAA (S)	%.	57	25-135	04/18/25 15:28	
d5-NEtFOSA (S)	%.	53	10-130	04/18/25 15:28	
d7-NMeFOSE (S)	%.	67	10-130	04/18/25 15:28	
d9-NEtFOSE (S)	%.	64	10-130	04/18/25 15:28	

LABORATORY CONTROL SAMPLE: 5223662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	69.0	92	55-160	
3:3 FTCA	ng/L	99.2	82.9	84	65-130	
4:2 FTS	ng/L	75.2	71.8	95	70-145	
5:3 FTCA	ng/L	496	432	87	70-135	
6:2 FTS	ng/L	76.8	74.3	97	65-155	
7:3 FTCA	ng/L	496	445	90	50-145	
8:2 FTS	ng/L	76.8	73.2	95	60-150	
9Cl-PF3ONS	ng/L	75.2	74.7	99	70-155	
ADONA	ng/L	75.2	73.1	97	65-145	
HFPO-DA	ng/L	80	76.2	95	70-140	
NEtFOSA	ng/L	19.2	19.4	101	65-145	
NEtFOSAA	ng/L	19.2	19.7	103	70-145	
NEtFOSE	ng/L	192	186	97	70-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844148 WG2484567
Pace Project No.: 10730185

LABORATORY CONTROL SAMPLE: 5223662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NFDHA	ng/L	40	38.0	95	50-150	
NMeFOSA	ng/L	19.2	18.3	96	60-150	
NMeFOSAA	ng/L	19.2	18.2	95	50-140	
NMeFOSE	ng/L	192	189	98	70-145	
PFBA	ng/L	80	74.1	93	70-140	
PFBS	ng/L	17.6	16.6	94	60-145	
PFDA	ng/L	19.2	18.5	96	70-140	
PFDoA	ng/L	19.2	18.6	97	70-140	
PFDoS	ng/L	19.2	16.4	85	50-145	
PFDS	ng/L	19.2	17.6	92	60-145	
PFEESA	ng/L	35.2	32.1	91	70-140	
PFHpA	ng/L	19.2	18.3	96	70-150	
PFHpS	ng/L	19.2	18.0	94	70-150	
PFHxA	ng/L	19.2	17.5	91	70-145	
PFHxS	ng/L	17.6	17.5	99	65-145	
PFMBA	ng/L	40	37.0	93	60-150	
PFMPA	ng/L	40	37.8	95	55-140	
PFNA	ng/L	19.2	17.9	93	70-150	
PFNS	ng/L	19.2	16.5	86	65-145	
PFOA	ng/L	19.2	17.4	91	70-150	
PFOS	ng/L	19.2	16.8	87	55-150	
PFOSA	ng/L	19.2	18.7	97	70-145	
PFPeA	ng/L	40	36.9	92	65-135	
PFPeS	ng/L	19.2	17.9	93	65-140	
PFTeDA	ng/L	19.2	19.5	101	60-140	
PFTrDA	ng/L	19.2	18.3	95	65-140	
PFUnA	ng/L	19.2	17.7	92	70-145	
13C2-PFDoA (S)	%.			68	10-130	
13C2-PFTA (S)	%.			61	10-130	
13C24:2FTS (S)	%.			71	40-200	
13C26:2FTS (S)	%.			74	40-200	
13C28:2FTS (S)	%.			76	40-300	
13C3-PFBS (S)	%.			78	40-135	
13C3-PFHxS (S)	%.			76	40-130	
13C3-PFPrA (S)	%.			81	5-130	
13C3HFPO-DA (S)	%.			75	40-130	
13C4-PFBA (S)	%.			78	5-130	
13C4-PFHpA (S)	%.			76	40-130	
13C5-PFHxA (S)	%.			79	40-130	
13C5-PFPeA (S)	%.			78	40-130	
13C6-PFDA (S)	%.			71	40-130	
13C7-PFUdA (S)	%.			77	30-130	
13C8-PFOA (S)	%.			79	40-130	
13C8-PFOS (S)	%.			73	40-130	
13C8-PFOSA (S)	%.			65	40-130	
13C9-PFNA (S)	%.			75	40-130	
d3-MeFOSAA (S)	%.			65	40-170	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844148 WG2484567
Pace Project No.: 10730185

LABORATORY CONTROL SAMPLE: 5223662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d3-NMeFOSA (S)	%.			52	10-130	
d5-EtFOSAA (S)	%.			59	25-135	
d5-NEtFOSA (S)	%.			52	10-130	
d7-NMeFOSE (S)	%.			61	10-130	
d9-NEtFOSE (S)	%.			59	10-130	

LABORATORY CONTROL SAMPLE: 5223663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	11.4	94	55-160	
3:3 FTCA	ng/L	15.9	13.2	83	65-130	
4:2 FTS	ng/L	12	11.2	93	70-145	
5:3 FTCA	ng/L	79.4	68.9	87	70-135	
6:2 FTS	ng/L	12.3	12.1	98	65-155	
7:3 FTCA	ng/L	79.4	66.1	83	50-145	
8:2 FTS	ng/L	12.3	13.5	110	60-150	
9Cl-PF3ONS	ng/L	12	12.0	99	70-155	
ADONA	ng/L	12	11.8	98	65-145	
HFPO-DA	ng/L	12.8	11.8	92	70-140	
NEtFOSA	ng/L	3.1	3.4	110	65-145	
NEtFOSAA	ng/L	3.1	2.7	88	70-145	
NEtFOSE	ng/L	30.7	29.3	95	70-135	
NFDHA	ng/L	6.4	6.1	95	50-150	
NMeFOSA	ng/L	3.1	3.2	104	60-150	
NMeFOSAA	ng/L	3.1	2.8	92	50-140	
NMeFOSE	ng/L	30.7	29.9	97	70-145	
PFBA	ng/L	12.8	11.7	91	70-140	
PFBS	ng/L	2.8	2.6	93	60-145	
PFDA	ng/L	3.1	2.9	93	70-140	
PFDoA	ng/L	3.1	3.0	96	70-140	
PFDoS	ng/L	3.1	2.8	91	50-145	
PFDS	ng/L	3.1	2.8	90	60-145	
PFEESA	ng/L	5.6	5.3	95	70-140	
PFHpA	ng/L	3.1	2.8	92	70-150	
PFHpS	ng/L	3.1	2.8	90	70-150	
PFHxA	ng/L	3.1	2.9	93	70-145	
PFHxS	ng/L	2.8	2.9	103	65-145	
PFMBA	ng/L	6.4	5.7	89	60-150	
PFMPA	ng/L	6.4	6.0	94	55-140	
PFNA	ng/L	3.1	2.8	91	70-150	
PFNS	ng/L	3.1	2.9	93	65-145	
PFOA	ng/L	3.1	3.1	100	70-150	
PFOS	ng/L	3.1	2.9	93	55-150	
PFOSA	ng/L	3.1	3.0	98	70-145	
PFPeA	ng/L	6.4	5.8	91	65-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844148 WG2484567
Pace Project No.: 10730185

LABORATORY CONTROL SAMPLE: 5223663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFPeS	ng/L	3.1	2.9	93	65-140	
PFTeDA	ng/L	3.1	3.1	101	60-140	
PFTrDA	ng/L	3.1	2.9	93	65-140	
PFUnA	ng/L	3.1	2.8	93	70-145	
13C2-PFDoA (S)	%.			71	10-130	
13C2-PFTA (S)	%.			65	10-130	
13C24:2FTS (S)	%.			78	40-200	
13C26:2FTS (S)	%.			76	40-200	
13C28:2FTS (S)	%.			70	40-300	
13C3-PFBS (S)	%.			77	40-135	
13C3-PFHxS (S)	%.			72	40-130	
13C3-PFPrA (S)	%.			79	5-130	
13C3HFPO-DA (S)	%.			76	40-130	
13C4-PFBA (S)	%.			75	5-130	
13C4-PFHpA (S)	%.			74	40-130	
13C5-PFHxA (S)	%.			76	40-130	
13C5-PFPeA (S)	%.			78	40-130	
13C6-PFDA (S)	%.			74	40-130	
13C7-PFUdA (S)	%.			79	30-130	
13C8-PFOA (S)	%.			77	40-130	
13C8-PFOS (S)	%.			72	40-130	
13C8-PFOSA (S)	%.			65	40-130	
13C9-PFNA (S)	%.			76	40-130	
d3-MeFOSAA (S)	%.			66	40-170	
d3-NMeFOSA (S)	%.			54	10-130	
d5-EtFOSAA (S)	%.			59	25-135	
d5-NEtFOSA (S)	%.			49	10-130	
d7-NMeFOSE (S)	%.			62	10-130	
d9-NEtFOSE (S)	%.			60	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: L1844148 WG2484567
Pace Project No.: 10730185

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

S0	Surrogate recovery outside laboratory control limits.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1844148 WG2484567
Pace Project No.: 10730185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10730185006	**DUPE-01**	EPA 1633	1001595	EPA 1633	1002404
10730185001	**DWS-60**	EPA 1633	1001595	EPA 1633	1002404
10730185002	**DWS-61**	EPA 1633	1001595	EPA 1633	1002404
10730185003	**SWS-01**	EPA 1633	1001595	EPA 1633	1002404
10730185004	**DWS-62**	EPA 1633	1001595	EPA 1633	1002404
10730185005	**DSW63**	EPA 1633	1001595	EPA 1633	1002404
10730185007	**SWS-02**	EPA 1633	1001595	EPA 1633	1002404
10730185008	**DWS-64**	EPA 1633	1001595	EPA 1633	1002404
10730185009	**DWS-66**	EPA 1633	1001595	EPA 1633	1002404
10730185010	**FB-01**	EPA 1633	1001595	EPA 1633	1002404

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sub-Contract Chain of Custody

Batch Date/Time: 04/07/25 09:17
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2484567
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 04/14/25
ESC Purchase Order #: L1844148
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only	
DWS-60 PFAS-500HDPE-NoPres - S51293749 PFAS-500HDPE-NoPres - S51293750	GW	NM	04/03/25 09:32	PFAS1633	1. L1844148-01	Level 4	01
DWS-61 PFAS-500HDPE-NoPres - S51293751 PFAS-500HDPE-NoPres - S51293752	GW	NM	04/03/25 10:30	PFAS1633	2. L1844148-02	Level 4	02
SWS-01 PFAS-500HDPE-NoPres - S51293753 PFAS-500HDPE-NoPres - S51293754	GW	NM	04/03/25 10:56	PFAS1633	3. L1844148-03	Level 4	03
DWS-62 PFAS-500HDPE-NoPres - S51293755 PFAS-500HDPE-NoPres - S51293756	GW	NM	04/03/25 11:45	PFAS1633	4. L1844148-04	Level 4	04
DSW63 PFAS-500HDPE-NoPres - S51293757 PFAS-500HDPE-NoPres - S51293758	GW	NM	04/03/25 12:25	PFAS1633	5. L1844148-05	Level 4	05
DUPE-01 PFAS-500HDPE-NoPres - S51293759 PFAS-500HDPE-NoPres - S51293760	GW	NM	04/03/25 09:05	PFAS1633	6. L1844148-06	Level 4	06
SWS-02 PFAS-500HDPE-NoPres - S51293761 PFAS-500HDPE-NoPres - S51293762	GW	NM	04/03/25 13:20	PFAS1633	7. L1844148-07	Level 4	07
DWS-64 PFAS-500HDPE-NoPres - S51293763 PFAS-500HDPE-NoPres - S51293764	GW	NM	04/03/25 13:45	PFAS1633	8. L1844148-08	Level 4	08
DWS-66 PFAS-500HDPE-NoPres - S51293715 PFAS-500HDPE-NoPres - S51293716	GW	NM	04/03/25 15:55	PFAS1633	9. L1844148-09	Level 4	09
FB-01 PFAS-500HDPE-NoPres - S51293717	GW	NM	04/03/25 16:05	PFAS1633	10. L1844148-10	Level 4	010

*= Container used for multiple Samples and/or Analyses

Relinquished by: _____ **Date** 4.7.25

Received by: _____ **Date** 4/8/25 850

Relinquished by: _____ **Date** _____

Received by: _____ **Date** _____

WO# : 10730185

10730185

ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: ZE 4/8/25

PROJECT #: **WO#: 10730185**

PM: TKL Due Date: 04/29/25

CLIENT: PASI-TN

Client Name: Pace MT Juliet

Custody Seal Present: ☑ YES ☐ NO Seals Intact: ☑ YES ☐ NO

Tracking Number: 4434 2456 2206 ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☐ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☐ Bubble Bags ☑ Bubble Wrap ☐ None ☐ Other: _____ Biological Tissue Frozen: ☐ YES ☑ NO

Thermometer: ☐ T1 (0461) ☐ T2 (0431) ☐ T3 (0459) ☐ T4 (0402) Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None
☐ T5 (0187) ☑ T6 (0396) ☐ T7 (0377) ☐ T8 (0775)
☐ T9 (0428) ☐ 01339252 (0710) Temp Blank: ☑ YES ☐ NO

NOTE: Temp should be ≤ 6°C, but above freezing.

Read Temp w/Temp Blank: 1.1 °C

Correction Factor: -0.2

Corrected Temp w/Temp Blank: 0.9 °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): _____

☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☐ N/A – Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☑ NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☐ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☐	☑	3.
Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr	☑	☐		4.
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other:
Rush Turn Around Time Requested?	☑	☐		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date: 4/11/25
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? (If NO, fill out section 11.) Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.
Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0142
EXCECTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐	☑	☐	
Extra labels present on soil VOA or WIDRO containers? (soil only)	☐	☐	☑	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

Sample #:

☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____

pH Paper Lot #:

☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip _____

Positive for Residual Chlorine (NaOH containers only): ☐ YES ☐ NO

CLIENT NOTIFICATION / RESOLUTION: Labeled By: ZE Line: 2

Person Contacted & Date/Time: _____ PM Review & Date: 4/8/25

***NOTE:** When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.*

ANALYTICAL REPORT

A ril 21, 2025

Re ised Re ort

INTERA - Albuquerque, NM

a le eli er rou : L1844151

a les Recei ed: 04/05/2025

Project Nu ber: P 001 P A

escri tion:

Re ort To: L nda Price
2440 Louisiana l d
uite 700
Albuquerque, NM 87110

Entire Re ort Re ie ed :

Jordan N Zito
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



TA LE NTENT

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Gl: Glossary of Terms 6

Al: Accreditations & Locations 7

Sc: Sample Chain of Custody 8

-65 L1844151-01

Collected by: Lynda Price | Collected date/time: 04/03/25 15:15 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

-67 L1844151-02

Collected by: Lynda Price | Collected date/time: 04/04/25 10:05 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

-68 L1844151-03

Collected by: Lynda Price | Collected date/time: 04/04/25 10:40 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

-69 L1844151-04

Collected by: Lynda Price | Collected date/time: 04/04/25 11:34 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

-70 L1844151-05

Collected by: Lynda Price | Collected date/time: 04/04/25 12:50 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

-71 L1844151-06

Collected by: Lynda Price | Collected date/time: 04/04/25 13:07 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

-03 L1844151-07

Collected by: Lynda Price | Collected date/time: 04/04/25 14:58 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

-04 L1844151-08

Collected by: Lynda Price | Collected date/time: 04/04/25 15:45 | Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

-72 L1844151-09

Collected by: Lynda Price
Collected date/time: 04/04/25 14:15
Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

PE-02 L1844151-10

Collected by: Lynda Price
Collected date/time: 04/04/25 11:23
Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

-73 L1844151-11

Collected by: Lynda Price
Collected date/time: 04/04/25 16:20
Received date/time: 04/05/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2484579	1	04/18/25 00:00	04/18/25 00:00	-	Minneapolis, MN 55414

All sa le aliquots ere recei ed at t e correct te erature, in t e ro er containers, it t e a ro riate reser ati es, and it in et od s ecified olding ti es, unless qualified or notated it in t e re ort ere a licable, all M L L and R L L alues re orted for en iron ental sa les a e been corrected for t e dilution factor used in t e anal sis All Met od and atc ualit ontrol are it in establis ed criteria e ce t ere addressed in t is case narrati e, a non-confor ance for or ro erl qualified it in t e sa le results digital signature belo , l affir to t e best of no ledge, all roble s/ano alies obser ed b t e laborator as a ing t e otential to affect t e qualit of t e data a e been identified b t e laborator , and no infor ation or data a e been no ingl it eld t at ould affect t e qualit of t e data

Jordan N Zito
Project Manager

Re ort Re ision istor

Le el II Re ort - ersion 1: 04/21/25 06:38

Project Narrati e

L1844151 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11 contains subout data t at is included after t e c ain of custod

uide to Reading and nderstanding our Laborator Re ort

T e infor ation belo is designed to better e lain t e arious ter s used in our re ort of anal tical results fro t e Laborator T is is not intended as a co re ensi e e lanation, and if ou a e additional questions lease contact our roject re resentati e

Results isclai er - Infor ation t at a be ro ided b t e custo er, and contained it in t is re ort, include Per it Li its, Project Na e, a le I , a le Matri , a le Preser ation, ield lan s, ield i es, ield u licates, n- ite ata, a ling ollection ates/Ti es, and a ling Location Results relate to t e accurac of t is infor ation ro ided, and as t e sa les are recei ed

Abbre iations and efinitions

	a le eli er rou
ncertaint Radioc e istr	onfidence le el of 2 sig a
ase Narrati e n	A brief discussion about t e included sa le results, including a discussion of an non-confor ances to rotocol obser ed eit er at sa le recei t b t e laborator fro t e field or during t e anal tical rocess If resent, t ere ill be a section in t e ase Narrati e to discuss t e eaning of an data qualifiers used in t e re ort
ualit ontrol u ar c	T is section of t e re ort includes t e results of t e laborator qualit control anal ses required b rocedure or anal tical et ods to assist in e aluating t e alidit of t e results re orted for our sa les T ese anal ses are not being erfor ed on our sa les t icall , but on laborator generated aterial
a le ain of ustod c	T is is t e docu ent created in t e field en our sa les ere initiall collected T is is used to erif t e ti e and date of collection, t e erson collecting t e sa les, and t e anal ses t at t e laborator is requested to erfor T is c ain of custod also docu ents all ersons e cluding co ercial s i ers t at a e ad control or ossession of t e sa les fro t e ti e of collection until deli er to t e laborator for anal sis
a le Results r	T is section of our re ort ill ro ide t e results of all testing erfor ed on our sa les T ese results are ro ided b sa le l and are se arated b t e anal ses erfor ed on eac sa le T e eader line of eac anal sis section for eac sa le ill ro ide t e na e and et od nu ber for t e anal sis re orted
a le u ar s	T is section of t e Anal tical Re ort defines t e s ecific anal ses erfor ed for eac sa le l , including t e dates and ti es of re aration and/or anal sis

ualifier escri tion

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Anal tical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
INTERA - Albuquerque, NM

2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Billing Information:
Lynda Price
2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Pres Chk

Report to:
Lynda Price

Email To: lprice@intera.com

Project Description:

City/State Collected: New Mexico

Please Circle: PT MT CT ET

Regulatory Program (DOD,RCRA,DW,etc):

Client Project #
SFCPW.C001.PFAS

Lab Project #
INTERAANM-PFAS

Collected by (print):
LYNDA PRICE

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day X STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SUBPFAS1633 PFAS-500HDPE-NoPres										Remarks	Sample # (lab only)
~~DSW~~ DWS-65	Grab	GW		4/3/25	15:15	2	X											-01
~~DSW~~ DWS-67	Grab	GW		4/4/25	10:05	2	X											-02
~~DSW~~ DWS-68	Grab	GW		4/4/25	10:40	2	X											-03
~~DSW~~ DWS-69	Grab	GW		4/4/25	11:34	2	X											-04
DWS-70	Grab	GW		4/4/25	1250	2	X											-05
DWS-71	Grab	GW		4/4/25	13:07	2	X											-06
SWS-03	Grab	~~GW~~ SW		4/4/25	1458	2	X											-07
SWS-04	Grab	~~GW~~ SW		4/4/25	1545	2	X											-08
DWS-72	Grab	GW		4/4/25 1415	~~16:20~~	2	X											-09
Dupe-02	Grab	GW		4/4/25	11:25	2	X											-10

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # U844151
F063

Acctnum: INTERAANM
Template: T271065
Prelogin: P1141786
PM: 942 - Jordan N Zito
PB: 3/26/25 mV
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 22	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) CRobert	Date: 04/05/25 Time: 0900	Hold: Condition: NCF / OK

Company Name/Address:
INTERA - Albuquerque, NM

2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Billing Information:
Lynda Price
2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Pres Chk

Report to:
Lynda Price

Email To: lprice@intera.com

Project Description:

City/State Collected: New Mexico

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
SFCPW.001.PFAS

Lab Project #
INTERAANM-PFAS

Collected by (print):
LYNDA PRICE

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice: N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day X STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

SUBPFAS1633 PFAS-500HDPE-NoPres

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L844151

Table #

Acctnum: INTERAANM
Template: T271065
Prelogin: P1141786
PM: 942 - Jordan N Zito
PB: 3/27/25 mV

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Remarks	Sample # (lab only)
DWS-73	GRAB	GW		4/4/25	1620			-11
		GW						
		GW						
		GW						
		GW						

* Matrix:
~~SS - Soil AIR - Air F - Filter~~
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y / N
COC Signed/Accurate:		Y / N
Bottles arrive intact:		Y / N
Correct bottles used:		Y / N
Sufficient volume sent:		Y / N
If Applicable		
VOA Zero Headspace:		Y / N
Preservation Correct/Checked:		Y / N
RAD Screen <0.5 mR/hr:		Y / N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 22	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) CROBERD	Date: 04/05/25 Time: 0900	Hold: Condition: NCF / OK

Multiple Parcel Form

L# L1844151

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4493 5929 1182	EDA9	4.9	0.4	5.3	(Yes) / No / Not Present
4493 5929 1193	EDA9	3.7	0.4	4.1	(Yes) / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

C Rober P
Name

04.09.25
Date

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 18, 2025

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1844151 WG2484579
Pace Project No.: 10730162

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for Testing & Innovation

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: L1844151 WG2484579
Pace Project No.: 10730162

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10730162001	**DWS-65**	Water	04/03/25 15:15	04/08/25 08:50
10730162002	**DWS-67**	Water	04/04/25 10:05	04/08/25 08:50
10730162003	**DWS-68**	Water	04/04/25 10:40	04/08/25 08:50
10730162004	**DWS-69**	Water	04/04/25 11:34	04/08/25 08:50
10730162005	**DWS-70**	Water	04/04/25 12:50	04/08/25 08:50
10730162006	**DWS-71**	Water	04/04/25 13:07	04/08/25 08:50
10730162007	**SWS-03**	Water	04/04/25 14:58	04/08/25 08:50
10730162008	**SWS-04**	Water	04/04/25 15:45	04/08/25 08:50
10730162009	**DWS-72**	Water	04/04/25 14:15	04/08/25 08:50
10730162010	**DUPE-02**	Water	04/04/25 11:23	04/08/25 08:50
10730162011	**DWS-73**	Water	04/04/25 16:20	04/08/25 08:50

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: L1844151 WG2484579
Pace Project No.: 10730162

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10730162001	**DWS-65**	EPA 1633	AJG	65	PASI-M
10730162002	**DWS-67**	EPA 1633	AJG	65	PASI-M
10730162003	**DWS-68**	EPA 1633	AJG	65	PASI-M
10730162004	**DWS-69**	EPA 1633	AJG	65	PASI-M
10730162005	**DWS-70**	EPA 1633	AJG	65	PASI-M
10730162006	**DWS-71**	EPA 1633	AJG	65	PASI-M
10730162007	**SWS-03**	EPA 1633	AJG	65	PASI-M
10730162008	**SWS-04**	EPA 1633	AJG	65	PASI-M
10730162009	**DWS-72**	EPA 1633	AJG	65	PASI-M
10730162010	**DUPE-02**	EPA 1633	AJG	65	PASI-M
10730162011	**DWS-73**	EPA 1633	AJG	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-65 **Lab ID: 10730162001** Collected: 04/03/25 15:15 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 519.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 15:43	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	1	04/15/25 08:35	04/16/25 15:43	356-02-5	
4:2 FTS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 15:43	757124-72-4	
5:3 FTCA	ND	ng/L	38.5	1	04/15/25 08:35	04/16/25 15:43	914637-49-3	
6:2 FTS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 15:43	27619-97-2	
7:3 FTCA	ND	ng/L	38.5	1	04/15/25 08:35	04/16/25 15:43	812-70-4	
8:2 FTS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 15:43	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 15:43	756426-58-1	
ADONA	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 15:43	919005-14-4	
HFPO-DA	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 15:43	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	4151-50-2	
NEtFOSE	ND	ng/L	15.4	1	04/15/25 08:35	04/16/25 15:43	1691-99-2	
NFDHA	ND	ng/L	3.1	1	04/15/25 08:35	04/16/25 15:43	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	31506-32-8	
NMeFOSE	ND	ng/L	15.4	1	04/15/25 08:35	04/16/25 15:43	24448-09-7	
PFBS	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	375-73-5	
PFDA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	335-76-2	
PFHxA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	307-24-4	
PFBA	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 15:43	375-22-4	
PFDS	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	335-77-3	
PFDoS	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	79780-39-5	
PFEESA	ND	ng/L	3.1	1	04/15/25 08:35	04/16/25 15:43	113507-82-7	
PFHpS	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	375-92-8	
PFMBA	ND	ng/L	3.1	1	04/15/25 08:35	04/16/25 15:43	863090-89-5	
PFMPA	ND	ng/L	3.1	1	04/15/25 08:35	04/16/25 15:43	377-73-1	
PFNS	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	68259-12-1	
PFOSA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	754-91-6	
PFPeA	ND	ng/L	3.1	1	04/15/25 08:35	04/16/25 15:43	2706-90-3	
PFPeS	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	2706-91-4	
PFDoA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	307-55-1	
PFHpA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	375-85-9	
PFHxS	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	355-46-4	
PFNA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	375-95-1	
PFOS	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	1763-23-1	
PFOA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	335-67-1	
PFTeDA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	376-06-7	
PFTrDA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	72629-94-8	
PFUnA	ND	ng/L	1.5	1	04/15/25 08:35	04/16/25 15:43	2058-94-8	
Surrogates								
13C2-PFDoA (S)	65	%.	10-130	1	04/15/25 08:35	04/16/25 15:43		
13C3HFPO-DA (S)	70	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		
13C3-PFBS (S)	72	%.	40-135	1	04/15/25 08:35	04/16/25 15:43		
13C3-PFHxS (S)	67	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-65 **Lab ID: 10730162001** Collected: 04/03/25 15:15 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 519.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	71	%.	5-130	1	04/15/25 08:35	04/16/25 15:43		
13C4-PFHpA (S)	68	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		
13C5-PFHxA (S)	69	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		
13C5-PFPeA (S)	72	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		
13C6-PFDA (S)	68	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		
13C8-PFOA (S)	72	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		
13C8-PFOS (S)	69	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		
13C8-PFOSA (S)	63	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		
13C9-PFNA (S)	69	%.	40-130	1	04/15/25 08:35	04/16/25 15:43		
d3-MeFOSAA (S)	67	%.	40-170	1	04/15/25 08:35	04/16/25 15:43		
d3-NMeFOSA (S)	51	%.	10-130	1	04/15/25 08:35	04/16/25 15:43		
d5-EtFOSAA (S)	65	%.	25-135	1	04/15/25 08:35	04/16/25 15:43		
d5-NEtFOSA (S)	48	%.	10-130	1	04/15/25 08:35	04/16/25 15:43		
d7-NMeFOSE (S)	55	%.	10-130	1	04/15/25 08:35	04/16/25 15:43		
d9-NEtFOSE (S)	54	%.	10-130	1	04/15/25 08:35	04/16/25 15:43		
13C2-PFTA (S)	61	%.	10-130	1	04/15/25 08:35	04/16/25 15:43		
13C7-PFUdA (S)	73	%.	30-130	1	04/15/25 08:35	04/16/25 15:43		
13C24:2FTS (S)	71	%.	40-200	1	04/15/25 08:35	04/16/25 15:43		
13C26:2FTS (S)	83	%.	40-200	1	04/15/25 08:35	04/16/25 15:43		
13C28:2FTS (S)	82	%.	40-300	1	04/15/25 08:35	04/16/25 15:43		
13C3-PFPrA (S)	18	%.	5-130	1	04/15/25 08:35	04/16/25 15:43		

Sample: DWS-67 **Lab ID: 10730162002** Collected: 04/04/25 10:05 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 495 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 15:52	763051-92-9	
3:3 FTCA	ND	ng/L	8.1	1	04/15/25 08:35	04/16/25 15:52	356-02-5	
4:2 FTS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 15:52	757124-72-4	
5:3 FTCA	ND	ng/L	40.4	1	04/15/25 08:35	04/16/25 15:52	914637-49-3	
6:2 FTS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 15:52	27619-97-2	
7:3 FTCA	ND	ng/L	40.4	1	04/15/25 08:35	04/16/25 15:52	812-70-4	
8:2 FTS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 15:52	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 15:52	756426-58-1	
ADONA	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 15:52	919005-14-4	
HFPO-DA	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 15:52	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	4151-50-2	
NEtFOSE	ND	ng/L	16.2	1	04/15/25 08:35	04/16/25 15:52	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-67 **Lab ID: 10730162002** Collected: 04/04/25 10:05 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 495 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 15:52	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	31506-32-8	
NMeFOSE	ND	ng/L	16.2	1	04/15/25 08:35	04/16/25 15:52	24448-09-7	
PFBS	**3.5**	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	375-73-5	
PFDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	335-76-2	
PFHxA	**4.8**	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	307-24-4	
PFBA	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 15:52	375-22-4	
PFDS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	335-77-3	
PFDoS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	79780-39-5	
PFEESA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 15:52	113507-82-7	
PFHpS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	375-92-8	
PFMBA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 15:52	863090-89-5	
PFMPA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 15:52	377-73-1	
PFNS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	68259-12-1	
PFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	754-91-6	
PFPeA	**5.3**	ng/L	3.2	1	04/15/25 08:35	04/16/25 15:52	2706-90-3	
PFPeS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	2706-91-4	
PFDoA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	307-55-1	
PFHpA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	375-85-9	
PFHxS	**6.0**	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	355-46-4	
PFNA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	375-95-1	
PFOS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	1763-23-1	
PFOA	**5.6**	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	335-67-1	
PFTeDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	376-06-7	
PFTrDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	72629-94-8	
PFUnA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 15:52	2058-94-8	
Surrogates								
13C2-PFDoA (S)	68	%.	10-130	1	04/15/25 08:35	04/16/25 15:52		
13C3HFPO-DA (S)	76	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
13C3-PFBS (S)	77	%.	40-135	1	04/15/25 08:35	04/16/25 15:52		
13C3-PFHxS (S)	72	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
13C4-PFBA (S)	79	%.	5-130	1	04/15/25 08:35	04/16/25 15:52		
13C4-PFHpA (S)	73	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
13C5-PFHxA (S)	73	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
13C5-PFPeA (S)	78	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
13C6-PFDA (S)	72	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
13C8-PFOA (S)	75	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
13C8-PFOS (S)	71	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
13C8-PFOSA (S)	67	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
13C9-PFNA (S)	76	%.	40-130	1	04/15/25 08:35	04/16/25 15:52		
d3-MeFOSAA (S)	74	%.	40-170	1	04/15/25 08:35	04/16/25 15:52		
d3-NMeFOSA (S)	58	%.	10-130	1	04/15/25 08:35	04/16/25 15:52		
d5-EtFOSAA (S)	72	%.	25-135	1	04/15/25 08:35	04/16/25 15:52		
d5-NEtFOSA (S)	60	%.	10-130	1	04/15/25 08:35	04/16/25 15:52		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-67 **Lab ID: 10730162002** Collected: 04/04/25 10:05 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 495 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	65	%.	10-130	1	04/15/25 08:35	04/16/25 15:52		
d9-NEtFOSE (S)	64	%.	10-130	1	04/15/25 08:35	04/16/25 15:52		
13C2-PFTA (S)	63	%.	10-130	1	04/15/25 08:35	04/16/25 15:52		
13C7-PFUdA (S)	75	%.	30-130	1	04/15/25 08:35	04/16/25 15:52		
13C24:2FTS (S)	72	%.	40-200	1	04/15/25 08:35	04/16/25 15:52		
13C26:2FTS (S)	85	%.	40-200	1	04/15/25 08:35	04/16/25 15:52		
13C28:2FTS (S)	84	%.	40-300	1	04/15/25 08:35	04/16/25 15:52		
13C3-PFPrA (S)	42	%.	5-130	1	04/15/25 08:35	04/16/25 15:52		

Sample: DWS-68 **Lab ID: 10730162003** Collected: 04/04/25 10:40 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 458 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	7.0	1	04/15/25 08:35	04/16/25 16:01	763051-92-9	
3:3 FTCA	ND	ng/L	8.7	1	04/15/25 08:35	04/16/25 16:01	356-02-5	
4:2 FTS	ND	ng/L	7.0	1	04/15/25 08:35	04/16/25 16:01	757124-72-4	
5:3 FTCA	ND	ng/L	43.7	1	04/15/25 08:35	04/16/25 16:01	914637-49-3	
6:2 FTS	ND	ng/L	7.0	1	04/15/25 08:35	04/16/25 16:01	27619-97-2	
7:3 FTCA	ND	ng/L	43.7	1	04/15/25 08:35	04/16/25 16:01	812-70-4	
8:2 FTS	ND	ng/L	7.0	1	04/15/25 08:35	04/16/25 16:01	39108-34-4	
9Cl-PF3ONS	ND	ng/L	7.0	1	04/15/25 08:35	04/16/25 16:01	756426-58-1	
ADONA	ND	ng/L	7.0	1	04/15/25 08:35	04/16/25 16:01	919005-14-4	
HFPO-DA	ND	ng/L	7.0	1	04/15/25 08:35	04/16/25 16:01	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	4151-50-2	
NEtFOSE	ND	ng/L	17.5	1	04/15/25 08:35	04/16/25 16:01	1691-99-2	
NFDHA	ND	ng/L	3.5	1	04/15/25 08:35	04/16/25 16:01	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	31506-32-8	
NMeFOSE	ND	ng/L	17.5	1	04/15/25 08:35	04/16/25 16:01	24448-09-7	
PFBS	**12.5**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	375-73-5	
PFDA	**2.6**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	335-76-2	
PFHxA	**21.6**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	307-24-4	
PFBA	**11.6**	ng/L	7.0	1	04/15/25 08:35	04/16/25 16:01	375-22-4	
PFDS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	79780-39-5	
PFEESA	ND	ng/L	3.5	1	04/15/25 08:35	04/16/25 16:01	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	375-92-8	
PFMBA	ND	ng/L	3.5	1	04/15/25 08:35	04/16/25 16:01	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-68 **Lab ID: 10730162003** Collected: 04/04/25 10:40 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 458 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.5	1	04/15/25 08:35	04/16/25 16:01	377-73-1	
PFNS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	68259-12-1	
PFOSA	**2.2**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	754-91-6	
PFPeA	**24.4**	ng/L	3.5	1	04/15/25 08:35	04/16/25 16:01	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	307-55-1	
PFHpA	**4.0**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	375-85-9	
PFHxS	**3.4**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	355-46-4	
PFNA	**7.7**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	375-95-1	
PFOS	**32.2**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	1763-23-1	
PFOA	**26.4**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:01	2058-94-8	
Surrogates								
13C2-PFDoA (S)	60	%.	10-130	1	04/15/25 08:35	04/16/25 16:01		
13C3HFPO-DA (S)	70	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
13C3-PFBS (S)	71	%.	40-135	1	04/15/25 08:35	04/16/25 16:01		
13C3-PFHxS (S)	70	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
13C4-PFBA (S)	74	%.	5-130	1	04/15/25 08:35	04/16/25 16:01		
13C4-PFHpA (S)	68	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
13C5-PFHxA (S)	70	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
13C5-PFPeA (S)	71	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
13C6-PFDA (S)	67	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
13C8-PFOA (S)	71	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
13C8-PFOS (S)	69	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
13C8-PFOSA (S)	62	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
13C9-PFNA (S)	69	%.	40-130	1	04/15/25 08:35	04/16/25 16:01		
d3-MeFOSAA (S)	66	%.	40-170	1	04/15/25 08:35	04/16/25 16:01		
d3-NMeFOSA (S)	41	%.	10-130	1	04/15/25 08:35	04/16/25 16:01		
d5-EtFOSAA (S)	61	%.	25-135	1	04/15/25 08:35	04/16/25 16:01		
d5-NEtFOSA (S)	38	%.	10-130	1	04/15/25 08:35	04/16/25 16:01		
d7-NMeFOSE (S)	51	%.	10-130	1	04/15/25 08:35	04/16/25 16:01		
d9-NEtFOSE (S)	49	%.	10-130	1	04/15/25 08:35	04/16/25 16:01		
13C2-PFTA (S)	53	%.	10-130	1	04/15/25 08:35	04/16/25 16:01		
13C7-PFUdA (S)	73	%.	30-130	1	04/15/25 08:35	04/16/25 16:01		
13C24:2FTS (S)	81	%.	40-200	1	04/15/25 08:35	04/16/25 16:01		
13C26:2FTS (S)	90	%.	40-200	1	04/15/25 08:35	04/16/25 16:01		
13C28:2FTS (S)	85	%.	40-300	1	04/15/25 08:35	04/16/25 16:01		
13C3-PFPrA (S)	15	%.	5-130	1	04/15/25 08:35	04/16/25 16:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-69 **Lab ID: 10730162004** Collected: 04/04/25 11:34 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 489.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:10	763051-92-9	
3:3 FTCA	ND	ng/L	8.2	1	04/15/25 08:35	04/16/25 16:10	356-02-5	
4:2 FTS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:10	757124-72-4	
5:3 FTCA	ND	ng/L	40.9	1	04/15/25 08:35	04/16/25 16:10	914637-49-3	
6:2 FTS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:10	27619-97-2	
7:3 FTCA	ND	ng/L	40.9	1	04/15/25 08:35	04/16/25 16:10	812-70-4	
8:2 FTS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:10	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:10	756426-58-1	
ADONA	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:10	919005-14-4	
HFPO-DA	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:10	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	4151-50-2	
NEtFOSE	ND	ng/L	16.4	1	04/15/25 08:35	04/16/25 16:10	1691-99-2	
NFDHA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:10	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	31506-32-8	
NMeFOSE	ND	ng/L	16.4	1	04/15/25 08:35	04/16/25 16:10	24448-09-7	
PFBS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	375-73-5	
PFDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	335-76-2	
PFHxA	**2.1**	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	307-24-4	
PFBA	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:10	375-22-4	
PFDS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	335-77-3	
PFDoS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	79780-39-5	
PFEESA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:10	113507-82-7	
PFHpS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	375-92-8	
PFMBA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:10	863090-89-5	
PFMPA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:10	377-73-1	
PFNS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	68259-12-1	
PFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	754-91-6	
PFPeA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:10	2706-90-3	
PFPeS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	2706-91-4	
PFDoA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	307-55-1	
PFHpA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	375-85-9	
PFHxS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	355-46-4	
PFNA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	375-95-1	
PFOS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	1763-23-1	
PFOA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	335-67-1	
PFTeDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	376-06-7	
PFTrDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	72629-94-8	
PFUnA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:10	2058-94-8	
Surrogates								
13C2-PFDoA (S)	63	%.	10-130	1	04/15/25 08:35	04/16/25 16:10		
13C3HFPO-DA (S)	58	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		
13C3-PFBS (S)	63	%.	40-135	1	04/15/25 08:35	04/16/25 16:10		
13C3-PFHxS (S)	60	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-69 **Lab ID: 10730162004** Collected: 04/04/25 11:34 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 489.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	67	%.	5-130	1	04/15/25 08:35	04/16/25 16:10		
13C4-PFHpA (S)	59	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		
13C5-PFHxA (S)	59	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		
13C5-PFPeA (S)	62	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		
13C6-PFDA (S)	59	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		
13C8-PFOA (S)	60	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		
13C8-PFOS (S)	58	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		
13C8-PFOSA (S)	53	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		
13C9-PFNA (S)	62	%.	40-130	1	04/15/25 08:35	04/16/25 16:10		
d3-MeFOSAA (S)	61	%.	40-170	1	04/15/25 08:35	04/16/25 16:10		
d3-NMeFOSA (S)	44	%.	10-130	1	04/15/25 08:35	04/16/25 16:10		
d5-EtFOSAA (S)	61	%.	25-135	1	04/15/25 08:35	04/16/25 16:10		
d5-NEtFOSA (S)	44	%.	10-130	1	04/15/25 08:35	04/16/25 16:10		
d7-NMeFOSE (S)	52	%.	10-130	1	04/15/25 08:35	04/16/25 16:10		
d9-NEtFOSE (S)	53	%.	10-130	1	04/15/25 08:35	04/16/25 16:10		
13C2-PFTA (S)	63	%.	10-130	1	04/15/25 08:35	04/16/25 16:10		
13C7-PFUdA (S)	65	%.	30-130	1	04/15/25 08:35	04/16/25 16:10		
13C24:2FTS (S)	72	%.	40-200	1	04/15/25 08:35	04/16/25 16:10		
13C26:2FTS (S)	78	%.	40-200	1	04/15/25 08:35	04/16/25 16:10		
13C28:2FTS (S)	77	%.	40-300	1	04/15/25 08:35	04/16/25 16:10		
13C3-PFPrA (S)	21	%.	5-130	1	04/15/25 08:35	04/16/25 16:10		

Sample: DWS-70 **Lab ID: 10730162005** Collected: 04/04/25 12:50 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 481.2 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 16:19	763051-92-9	
3:3 FTCA	ND	ng/L	8.3	1	04/15/25 08:35	04/16/25 16:19	356-02-5	
4:2 FTS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 16:19	757124-72-4	
5:3 FTCA	ND	ng/L	41.6	1	04/15/25 08:35	04/16/25 16:19	914637-49-3	
6:2 FTS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 16:19	27619-97-2	
7:3 FTCA	ND	ng/L	41.6	1	04/15/25 08:35	04/16/25 16:19	812-70-4	
8:2 FTS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 16:19	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 16:19	756426-58-1	
ADONA	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 16:19	919005-14-4	
HFPO-DA	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 16:19	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	4151-50-2	
NEtFOSE	ND	ng/L	16.6	1	04/15/25 08:35	04/16/25 16:19	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-70 **Lab ID: 10730162005** Collected: 04/04/25 12:50 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 481.2 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:19	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	31506-32-8	
NMeFOSE	ND	ng/L	16.6	1	04/15/25 08:35	04/16/25 16:19	24448-09-7	
PFBS	**9.7**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	375-73-5	
PFDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	335-76-2	
PFHxA	**13.3**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	307-24-4	
PFBA	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 16:19	375-22-4	
PFDS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	79780-39-5	
PFEESA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:19	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	375-92-8	
PFMBA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:19	863090-89-5	
PFMPA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:19	377-73-1	
PFNS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	754-91-6	
PFPeA	**17.0**	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:19	2706-90-3	
PFPeS	**1.9**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	307-55-1	
PFHpA	**4.2**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	375-85-9	
PFHxS	**12.3**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	355-46-4	
PFNA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	375-95-1	
PFOS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	1763-23-1	
PFOA	**20.0**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:19	2058-94-8	
Surrogates								
13C2-PFDoA (S)	75	%.	10-130	1	04/15/25 08:35	04/16/25 16:19		
13C3HFPO-DA (S)	95	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
13C3-PFBS (S)	80	%.	40-135	1	04/15/25 08:35	04/16/25 16:19		
13C3-PFHxS (S)	84	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
13C4-PFBA (S)	88	%.	5-130	1	04/15/25 08:35	04/16/25 16:19		
13C4-PFHpA (S)	88	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
13C5-PFHxA (S)	85	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
13C5-PFPeA (S)	97	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
13C6-PFDA (S)	85	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
13C8-PFOA (S)	91	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
13C8-PFOS (S)	83	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
13C8-PFOSA (S)	73	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
13C9-PFNA (S)	85	%.	40-130	1	04/15/25 08:35	04/16/25 16:19		
d3-MeFOSAA (S)	54	%.	40-170	1	04/15/25 08:35	04/16/25 16:19		
d3-NMeFOSA (S)	60	%.	10-130	1	04/15/25 08:35	04/16/25 16:19		
d5-EtFOSAA (S)	49	%.	25-135	1	04/15/25 08:35	04/16/25 16:19		
d5-NEtFOSA (S)	58	%.	10-130	1	04/15/25 08:35	04/16/25 16:19		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-70 **Lab ID: 10730162005** Collected: 04/04/25 12:50 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 481.2 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	66	%.	10-130	1	04/15/25 08:35	04/16/25 16:19		
d9-NEtFOSE (S)	64	%.	10-130	1	04/15/25 08:35	04/16/25 16:19		
13C2-PFTA (S)	73	%.	10-130	1	04/15/25 08:35	04/16/25 16:19		
13C7-PFUdA (S)	86	%.	30-130	1	04/15/25 08:35	04/16/25 16:19		
13C24:2FTS (S)	44	%.	40-200	1	04/15/25 08:35	04/16/25 16:19		
13C26:2FTS (S)	80	%.	40-200	1	04/15/25 08:35	04/16/25 16:19		
13C28:2FTS (S)	93	%.	40-300	1	04/15/25 08:35	04/16/25 16:19		
13C3-PFPrA (S)	9	%.	5-130	1	04/15/25 08:35	04/16/25 16:19		

Sample: DWS-71 **Lab ID: 10730162006** Collected: 04/04/25 13:07 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 471.2 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.8	1	04/15/25 08:35	04/16/25 16:47	763051-92-9	
3:3 FTCA	ND	ng/L	8.5	1	04/15/25 08:35	04/16/25 16:47	356-02-5	
4:2 FTS	ND	ng/L	6.8	1	04/15/25 08:35	04/16/25 16:47	757124-72-4	
5:3 FTCA	ND	ng/L	42.4	1	04/15/25 08:35	04/16/25 16:47	914637-49-3	
6:2 FTS	ND	ng/L	6.8	1	04/15/25 08:35	04/16/25 16:47	27619-97-2	
7:3 FTCA	ND	ng/L	42.4	1	04/15/25 08:35	04/16/25 16:47	812-70-4	
8:2 FTS	ND	ng/L	6.8	1	04/15/25 08:35	04/16/25 16:47	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.8	1	04/15/25 08:35	04/16/25 16:47	756426-58-1	
ADONA	ND	ng/L	6.8	1	04/15/25 08:35	04/16/25 16:47	919005-14-4	
HFPO-DA	ND	ng/L	6.8	1	04/15/25 08:35	04/16/25 16:47	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	4151-50-2	
NEtFOSE	ND	ng/L	17.0	1	04/15/25 08:35	04/16/25 16:47	1691-99-2	
NFDHA	ND	ng/L	3.4	1	04/15/25 08:35	04/16/25 16:47	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	31506-32-8	
NMeFOSE	ND	ng/L	17.0	1	04/15/25 08:35	04/16/25 16:47	24448-09-7	
PFBS	**10.0**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	375-73-5	
PFDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	335-76-2	
PFHxA	**13.7**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	307-24-4	
PFBA	ND	ng/L	6.8	1	04/15/25 08:35	04/16/25 16:47	375-22-4	
PFDS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	79780-39-5	
PFEESA	ND	ng/L	3.4	1	04/15/25 08:35	04/16/25 16:47	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	375-92-8	
PFMBA	ND	ng/L	3.4	1	04/15/25 08:35	04/16/25 16:47	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-71 **Lab ID: 10730162006** Collected: 04/04/25 13:07 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 471.2 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.4	1	04/15/25 08:35	04/16/25 16:47	377-73-1	
PFNS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	754-91-6	
PFPeA	**16.9**	ng/L	3.4	1	04/15/25 08:35	04/16/25 16:47	2706-90-3	
PFPeS	**1.9**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	307-55-1	
PFHpA	**4.1**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	375-85-9	
PFHxS	**13.3**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	355-46-4	
PFNA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	375-95-1	
PFOS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	1763-23-1	
PFOA	**20.5**	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 16:47	2058-94-8	
Surrogates								
13C2-PFDoA (S)	67	%.	10-130	1	04/15/25 08:35	04/16/25 16:47		
13C3HFPO-DA (S)	73	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
13C3-PFBS (S)	74	%.	40-135	1	04/15/25 08:35	04/16/25 16:47		
13C3-PFHxS (S)	70	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
13C4-PFBA (S)	77	%.	5-130	1	04/15/25 08:35	04/16/25 16:47		
13C4-PFHpA (S)	70	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
13C5-PFHxA (S)	71	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
13C5-PFPeA (S)	74	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
13C6-PFDA (S)	71	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
13C8-PFOA (S)	71	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
13C8-PFOS (S)	71	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
13C8-PFOSA (S)	66	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
13C9-PFNA (S)	69	%.	40-130	1	04/15/25 08:35	04/16/25 16:47		
d3-MeFOSAA (S)	67	%.	40-170	1	04/15/25 08:35	04/16/25 16:47		
d3-NMeFOSA (S)	52	%.	10-130	1	04/15/25 08:35	04/16/25 16:47		
d5-EtFOSAA (S)	64	%.	25-135	1	04/15/25 08:35	04/16/25 16:47		
d5-NEtFOSA (S)	51	%.	10-130	1	04/15/25 08:35	04/16/25 16:47		
d7-NMeFOSE (S)	60	%.	10-130	1	04/15/25 08:35	04/16/25 16:47		
d9-NEtFOSE (S)	59	%.	10-130	1	04/15/25 08:35	04/16/25 16:47		
13C2-PFTA (S)	66	%.	10-130	1	04/15/25 08:35	04/16/25 16:47		
13C7-PFUdA (S)	72	%.	30-130	1	04/15/25 08:35	04/16/25 16:47		
13C24:2FTS (S)	54	%.	40-200	1	04/15/25 08:35	04/16/25 16:47		
13C26:2FTS (S)	87	%.	40-200	1	04/15/25 08:35	04/16/25 16:47		
13C28:2FTS (S)	82	%.	40-300	1	04/15/25 08:35	04/16/25 16:47		
13C3-PFPrA (S)	37	%.	5-130	1	04/15/25 08:35	04/16/25 16:47		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: SWS-03 **Lab ID: 10730162007** Collected: 04/04/25 14:58 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 491.9 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:56	763051-92-9	
3:3 FTCA	ND	ng/L	8.1	1	04/15/25 08:35	04/16/25 16:56	356-02-5	
4:2 FTS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:56	757124-72-4	
5:3 FTCA	ND	ng/L	40.7	1	04/15/25 08:35	04/16/25 16:56	914637-49-3	
6:2 FTS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:56	27619-97-2	
7:3 FTCA	ND	ng/L	40.7	1	04/15/25 08:35	04/16/25 16:56	812-70-4	
8:2 FTS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:56	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:56	756426-58-1	
ADONA	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:56	919005-14-4	
HFPO-DA	ND	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:56	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	4151-50-2	
NEtFOSE	ND	ng/L	16.3	1	04/15/25 08:35	04/16/25 16:56	1691-99-2	
NFDHA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:56	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	31506-32-8	
NMeFOSE	ND	ng/L	16.3	1	04/15/25 08:35	04/16/25 16:56	24448-09-7	
PFBS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	375-73-5	
PFDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	335-76-2	
PFHxA	**11.1**	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	307-24-4	
PFBA	**20.6**	ng/L	6.5	1	04/15/25 08:35	04/16/25 16:56	375-22-4	
PFDS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	335-77-3	
PFDoS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	79780-39-5	
PFEESA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:56	113507-82-7	
PFHpS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	375-92-8	
PFMBA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:56	863090-89-5	
PFMPA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:56	377-73-1	
PFNS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	68259-12-1	
PFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	754-91-6	
PFPeA	**25.5**	ng/L	3.3	1	04/15/25 08:35	04/16/25 16:56	2706-90-3	
PFPeS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	2706-91-4	
PFDoA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	307-55-1	
PFHpA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	375-85-9	
PFHxS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	355-46-4	
PFNA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	375-95-1	
PFOS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	1763-23-1	
PFOA	**7.9**	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	335-67-1	
PFTeDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	376-06-7	
PFTrDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	72629-94-8	
PFUnA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 16:56	2058-94-8	
Surrogates								
13C2-PFDoA (S)	63	%.	10-130	1	04/15/25 08:35	04/16/25 16:56		
13C3HFPO-DA (S)	78	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		
13C3-PFBS (S)	77	%.	40-135	1	04/15/25 08:35	04/16/25 16:56		
13C3-PFHxS (S)	76	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: SWS-03 **Lab ID: 10730162007** Collected: 04/04/25 14:58 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 491.9 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	64	%.	5-130	1	04/15/25 08:35	04/16/25 16:56		
13C4-PFHpA (S)	77	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		
13C5-PFHxA (S)	79	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		
13C5-PFPeA (S)	76	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		
13C6-PFDA (S)	73	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		
13C8-PFOA (S)	77	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		
13C8-PFOS (S)	75	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		
13C8-PFOSA (S)	68	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		
13C9-PFNA (S)	74	%.	40-130	1	04/15/25 08:35	04/16/25 16:56		
d3-MeFOSAA (S)	75	%.	40-170	1	04/15/25 08:35	04/16/25 16:56		
d3-NMeFOSA (S)	56	%.	10-130	1	04/15/25 08:35	04/16/25 16:56		
d5-EtFOSAA (S)	68	%.	25-135	1	04/15/25 08:35	04/16/25 16:56		
d5-NEtFOSA (S)	53	%.	10-130	1	04/15/25 08:35	04/16/25 16:56		
d7-NMeFOSE (S)	55	%.	10-130	1	04/15/25 08:35	04/16/25 16:56		
d9-NEtFOSE (S)	51	%.	10-130	1	04/15/25 08:35	04/16/25 16:56		
13C2-PFTA (S)	41	%.	10-130	1	04/15/25 08:35	04/16/25 16:56		
13C7-PFUdA (S)	76	%.	30-130	1	04/15/25 08:35	04/16/25 16:56		
13C24:2FTS (S)	105	%.	40-200	1	04/15/25 08:35	04/16/25 16:56		
13C26:2FTS (S)	150	%.	40-200	1	04/15/25 08:35	04/16/25 16:56		
13C28:2FTS (S)	132	%.	40-300	1	04/15/25 08:35	04/16/25 16:56		
13C3-PFPrA (S)	3	%.	5-130	1	04/15/25 08:35	04/16/25 16:56		S0

Sample: SWS-04 **Lab ID: 10730162008** Collected: 04/04/25 15:45 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 500.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.4	1	04/15/25 08:35	04/16/25 17:05	763051-92-9	
3:3 FTCA	ND	ng/L	8.0	1	04/15/25 08:35	04/16/25 17:05	356-02-5	
4:2 FTS	ND	ng/L	6.4	1	04/15/25 08:35	04/16/25 17:05	757124-72-4	
5:3 FTCA	ND	ng/L	40.0	1	04/15/25 08:35	04/16/25 17:05	914637-49-3	
6:2 FTS	ND	ng/L	6.4	1	04/15/25 08:35	04/16/25 17:05	27619-97-2	
7:3 FTCA	ND	ng/L	40.0	1	04/15/25 08:35	04/16/25 17:05	812-70-4	
8:2 FTS	ND	ng/L	6.4	1	04/15/25 08:35	04/16/25 17:05	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.4	1	04/15/25 08:35	04/16/25 17:05	756426-58-1	
ADONA	ND	ng/L	6.4	1	04/15/25 08:35	04/16/25 17:05	919005-14-4	
HFPO-DA	ND	ng/L	6.4	1	04/15/25 08:35	04/16/25 17:05	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	4151-50-2	
NEtFOSE	ND	ng/L	16.0	1	04/15/25 08:35	04/16/25 17:05	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: SWS-04 **Lab ID: 10730162008** Collected: 04/04/25 15:45 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 500.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:05	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	31506-32-8	
NMeFOSE	ND	ng/L	16.0	1	04/15/25 08:35	04/16/25 17:05	24448-09-7	
PFBS	**3.7**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	375-73-5	
PFDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	335-76-2	
PFHxA	**15.6**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	307-24-4	
PFBA	**47.0**	ng/L	6.4	1	04/15/25 08:35	04/16/25 17:05	375-22-4	
PFDS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	335-77-3	
PFDoS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	79780-39-5	
PFEESA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:05	113507-82-7	
PFHpS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	375-92-8	
PFMBA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:05	863090-89-5	
PFMPA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:05	377-73-1	
PFNS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	68259-12-1	
PFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	754-91-6	
PFPeA	**15.7**	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:05	2706-90-3	
PFPeS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	2706-91-4	
PFDoA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	307-55-1	
PFHpA	**2.0**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	375-85-9	
PFHxS	**2.7**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	355-46-4	
PFNA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	375-95-1	
PFOS	**6.3**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	1763-23-1	
PFOA	**11.8**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	335-67-1	
PFTeDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	376-06-7	
PFTrDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	72629-94-8	
PFUnA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:05	2058-94-8	
Surrogates								
13C2-PFDoA (S)	63	%.	10-130	1	04/15/25 08:35	04/16/25 17:05		
13C3HFPO-DA (S)	73	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
13C3-PFBS (S)	73	%.	40-135	1	04/15/25 08:35	04/16/25 17:05		
13C3-PFHxS (S)	71	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
13C4-PFBA (S)	26	%.	5-130	1	04/15/25 08:35	04/16/25 17:05		
13C4-PFHpA (S)	73	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
13C5-PFHxA (S)	72	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
13C5-PFPeA (S)	75	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
13C6-PFDA (S)	72	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
13C8-PFOA (S)	73	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
13C8-PFOS (S)	68	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
13C8-PFOSA (S)	62	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
13C9-PFNA (S)	72	%.	40-130	1	04/15/25 08:35	04/16/25 17:05		
d3-MeFOSAA (S)	58	%.	40-170	1	04/15/25 08:35	04/16/25 17:05		
d3-NMeFOSA (S)	55	%.	10-130	1	04/15/25 08:35	04/16/25 17:05		
d5-EtFOSAA (S)	56	%.	25-135	1	04/15/25 08:35	04/16/25 17:05		
d5-NEtFOSA (S)	54	%.	10-130	1	04/15/25 08:35	04/16/25 17:05		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: SWS-04 **Lab ID: 10730162008** Collected: 04/04/25 15:45 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 500.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	49	%.	10-130	1	04/15/25 08:35	04/16/25 17:05		
d9-NEtFOSE (S)	46	%.	10-130	1	04/15/25 08:35	04/16/25 17:05		
13C2-PFTA (S)	43	%.	10-130	1	04/15/25 08:35	04/16/25 17:05		
13C7-PFUdA (S)	73	%.	30-130	1	04/15/25 08:35	04/16/25 17:05		
13C24:2FTS (S)	65	%.	40-200	1	04/15/25 08:35	04/16/25 17:05		
13C26:2FTS (S)	111	%.	40-200	1	04/15/25 08:35	04/16/25 17:05		
13C28:2FTS (S)	101	%.	40-300	1	04/15/25 08:35	04/16/25 17:05		
13C3-PFPrA (S)	1	%.	5-130	1	04/15/25 08:35	04/16/25 17:05		S0

Sample: DWS-72 **Lab ID: 10730162009** Collected: 04/04/25 14:15 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 505.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.3	1	04/15/25 08:35	04/16/25 17:14	763051-92-9	
3:3 FTCA	ND	ng/L	7.9	1	04/15/25 08:35	04/16/25 17:14	356-02-5	
4:2 FTS	ND	ng/L	6.3	1	04/15/25 08:35	04/16/25 17:14	757124-72-4	
5:3 FTCA	ND	ng/L	39.6	1	04/15/25 08:35	04/16/25 17:14	914637-49-3	
6:2 FTS	ND	ng/L	6.3	1	04/15/25 08:35	04/16/25 17:14	27619-97-2	
7:3 FTCA	ND	ng/L	39.6	1	04/15/25 08:35	04/16/25 17:14	812-70-4	
8:2 FTS	ND	ng/L	6.3	1	04/15/25 08:35	04/16/25 17:14	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.3	1	04/15/25 08:35	04/16/25 17:14	756426-58-1	
ADONA	ND	ng/L	6.3	1	04/15/25 08:35	04/16/25 17:14	919005-14-4	
HFPO-DA	ND	ng/L	6.3	1	04/15/25 08:35	04/16/25 17:14	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	4151-50-2	
NEtFOSE	ND	ng/L	15.8	1	04/15/25 08:35	04/16/25 17:14	1691-99-2	
NFDHA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:14	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	31506-32-8	
NMeFOSE	ND	ng/L	15.8	1	04/15/25 08:35	04/16/25 17:14	24448-09-7	
PFBS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	375-73-5	
PFDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	335-76-2	
PFHxA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	307-24-4	
PFBA	ND	ng/L	6.3	1	04/15/25 08:35	04/16/25 17:14	375-22-4	
PFDS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	335-77-3	
PFDoS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	79780-39-5	
PFEESA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:14	113507-82-7	
PFHpS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	375-92-8	
PFMBA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:14	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-72 **Lab ID: 10730162009** Collected: 04/04/25 14:15 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 505.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:14	377-73-1	
PFNS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	68259-12-1	
PFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	754-91-6	
PFPeA	ND	ng/L	3.2	1	04/15/25 08:35	04/16/25 17:14	2706-90-3	
PFPeS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	2706-91-4	
PFDoA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	307-55-1	
PFHpA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	375-85-9	
PFHxS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	355-46-4	
PFNA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	375-95-1	
PFOS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	1763-23-1	
PFOA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	335-67-1	
PFTeDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	376-06-7	
PFTrDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	72629-94-8	
PFUnA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:14	2058-94-8	
Surrogates								
13C2-PFDoA (S)	77	%.	10-130	1	04/15/25 08:35	04/16/25 17:14		
13C3HFPO-DA (S)	80	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
13C3-PFBS (S)	86	%.	40-135	1	04/15/25 08:35	04/16/25 17:14		
13C3-PFHxS (S)	82	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
13C4-PFBA (S)	81	%.	5-130	1	04/15/25 08:35	04/16/25 17:14		
13C4-PFHpA (S)	79	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
13C5-PFHxA (S)	81	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
13C5-PFPeA (S)	83	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
13C6-PFDA (S)	83	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
13C8-PFOA (S)	86	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
13C8-PFOS (S)	78	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
13C8-PFOSA (S)	74	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
13C9-PFNA (S)	81	%.	40-130	1	04/15/25 08:35	04/16/25 17:14		
d3-MeFOSAA (S)	73	%.	40-170	1	04/15/25 08:35	04/16/25 17:14		
d3-NMeFOSA (S)	61	%.	10-130	1	04/15/25 08:35	04/16/25 17:14		
d5-EtFOSAA (S)	72	%.	25-135	1	04/15/25 08:35	04/16/25 17:14		
d5-NEtFOSA (S)	57	%.	10-130	1	04/15/25 08:35	04/16/25 17:14		
d7-NMeFOSE (S)	65	%.	10-130	1	04/15/25 08:35	04/16/25 17:14		
d9-NEtFOSE (S)	65	%.	10-130	1	04/15/25 08:35	04/16/25 17:14		
13C2-PFTA (S)	72	%.	10-130	1	04/15/25 08:35	04/16/25 17:14		
13C7-PFUdA (S)	87	%.	30-130	1	04/15/25 08:35	04/16/25 17:14		
13C24:2FTS (S)	78	%.	40-200	1	04/15/25 08:35	04/16/25 17:14		
13C26:2FTS (S)	93	%.	40-200	1	04/15/25 08:35	04/16/25 17:14		
13C28:2FTS (S)	97	%.	40-300	1	04/15/25 08:35	04/16/25 17:14		
13C3-PFPrA (S)	26	%.	5-130	1	04/15/25 08:35	04/16/25 17:14		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DUPE-02 **Lab ID: 10730162010** Collected: 04/04/25 11:23 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 477.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 17:23	763051-92-9	
3:3 FTCA	ND	ng/L	8.4	1	04/15/25 08:35	04/16/25 17:23	356-02-5	
4:2 FTS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 17:23	757124-72-4	
5:3 FTCA	ND	ng/L	41.9	1	04/15/25 08:35	04/16/25 17:23	914637-49-3	
6:2 FTS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 17:23	27619-97-2	
7:3 FTCA	ND	ng/L	41.9	1	04/15/25 08:35	04/16/25 17:23	812-70-4	
8:2 FTS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 17:23	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 17:23	756426-58-1	
ADONA	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 17:23	919005-14-4	
HFPO-DA	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 17:23	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	4151-50-2	
NEtFOSE	ND	ng/L	16.7	1	04/15/25 08:35	04/16/25 17:23	1691-99-2	
NFDHA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 17:23	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	31506-32-8	
NMeFOSE	ND	ng/L	16.7	1	04/15/25 08:35	04/16/25 17:23	24448-09-7	
PFBS	**7.8**	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	375-73-5	
PFDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	335-76-2	
PFHxA	**11.8**	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	307-24-4	
PFBA	ND	ng/L	6.7	1	04/15/25 08:35	04/16/25 17:23	375-22-4	
PFDS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	335-77-3	
PFDoS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	79780-39-5	
PFEESA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 17:23	113507-82-7	
PFHpS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	375-92-8	
PFMBA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 17:23	863090-89-5	
PFMPA	ND	ng/L	3.3	1	04/15/25 08:35	04/16/25 17:23	377-73-1	
PFNS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	68259-12-1	
PFOSA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	754-91-6	
PFPeA	**14.8**	ng/L	3.3	1	04/15/25 08:35	04/16/25 17:23	2706-90-3	
PFPeS	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	2706-91-4	
PFDoA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	307-55-1	
PFHpA	**3.6**	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	375-85-9	
PFHxS	**14.8**	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	355-46-4	
PFNA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	375-95-1	
PFOS	**4.1**	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	1763-23-1	
PFOA	**20.6**	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	335-67-1	
PFTeDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	376-06-7	
PFTrDA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	72629-94-8	
PFUnA	ND	ng/L	1.7	1	04/15/25 08:35	04/16/25 17:23	2058-94-8	
Surrogates								
13C2-PFDoA (S)	73	%.	10-130	1	04/15/25 08:35	04/16/25 17:23		
13C3HFPO-DA (S)	80	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		
13C3-PFBS (S)	79	%.	40-135	1	04/15/25 08:35	04/16/25 17:23		
13C3-PFHxS (S)	78	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DUPE-02 **Lab ID: 10730162010** Collected: 04/04/25 11:23 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 477.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	80	%.	5-130	1	04/15/25 08:35	04/16/25 17:23		
13C4-PFHpA (S)	78	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		
13C5-PFHxA (S)	79	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		
13C5-PFPeA (S)	79	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		
13C6-PFDA (S)	77	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		
13C8-PFOA (S)	82	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		
13C8-PFOS (S)	76	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		
13C8-PFOSA (S)	71	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		
13C9-PFNA (S)	78	%.	40-130	1	04/15/25 08:35	04/16/25 17:23		
d3-MeFOSAA (S)	75	%.	40-170	1	04/15/25 08:35	04/16/25 17:23		
d3-NMeFOSA (S)	56	%.	10-130	1	04/15/25 08:35	04/16/25 17:23		
d5-EtFOSAA (S)	74	%.	25-135	1	04/15/25 08:35	04/16/25 17:23		
d5-NEtFOSA (S)	53	%.	10-130	1	04/15/25 08:35	04/16/25 17:23		
d7-NMeFOSE (S)	64	%.	10-130	1	04/15/25 08:35	04/16/25 17:23		
d9-NEtFOSE (S)	62	%.	10-130	1	04/15/25 08:35	04/16/25 17:23		
13C2-PFTA (S)	70	%.	10-130	1	04/15/25 08:35	04/16/25 17:23		
13C7-PFUdA (S)	83	%.	30-130	1	04/15/25 08:35	04/16/25 17:23		
13C24:2FTS (S)	80	%.	40-200	1	04/15/25 08:35	04/16/25 17:23		
13C26:2FTS (S)	91	%.	40-200	1	04/15/25 08:35	04/16/25 17:23		
13C28:2FTS (S)	93	%.	40-300	1	04/15/25 08:35	04/16/25 17:23		
13C3-PFPrA (S)	31	%.	5-130	1	04/15/25 08:35	04/16/25 17:23		

Sample: DWS-73 **Lab ID: 10730162011** Collected: 04/04/25 16:20 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 512.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 17:33	763051-92-9	
3:3 FTCA	ND	ng/L	7.8	1	04/15/25 08:35	04/16/25 17:33	356-02-5	
4:2 FTS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 17:33	757124-72-4	
5:3 FTCA	ND	ng/L	39.0	1	04/15/25 08:35	04/16/25 17:33	914637-49-3	
6:2 FTS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 17:33	27619-97-2	
7:3 FTCA	ND	ng/L	39.0	1	04/15/25 08:35	04/16/25 17:33	812-70-4	
8:2 FTS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 17:33	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 17:33	756426-58-1	
ADONA	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 17:33	919005-14-4	
HFPO-DA	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 17:33	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	4151-50-2	
NEtFOSE	ND	ng/L	15.6	1	04/15/25 08:35	04/16/25 17:33	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-73 **Lab ID: 10730162011** Collected: 04/04/25 16:20 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 512.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.1	1	04/15/25 08:35	04/16/25 17:33	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	31506-32-8	
NMeFOSE	ND	ng/L	15.6	1	04/15/25 08:35	04/16/25 17:33	24448-09-7	
PFBS	**7.4**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	375-73-5	
PFDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	335-76-2	
PFHxA	**11.6**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	307-24-4	
PFBA	ND	ng/L	6.2	1	04/15/25 08:35	04/16/25 17:33	375-22-4	
PFDS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	335-77-3	
PFDoS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	79780-39-5	
PFEESA	ND	ng/L	3.1	1	04/15/25 08:35	04/16/25 17:33	113507-82-7	
PFHpS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	375-92-8	
PFMBA	ND	ng/L	3.1	1	04/15/25 08:35	04/16/25 17:33	863090-89-5	
PFMPA	ND	ng/L	3.1	1	04/15/25 08:35	04/16/25 17:33	377-73-1	
PFNS	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	68259-12-1	
PFOSA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	754-91-6	
PFPeA	**13.9**	ng/L	3.1	1	04/15/25 08:35	04/16/25 17:33	2706-90-3	
PFPeS	**1.7**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	2706-91-4	
PFDoA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	307-55-1	
PFHpA	**3.8**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	375-85-9	
PFHxS	**14.2**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	355-46-4	
PFNA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	375-95-1	
PFOS	**3.8**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	1763-23-1	
PFOA	**19.5**	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	335-67-1	
PFTeDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	376-06-7	
PFTrDA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	72629-94-8	
PFUnA	ND	ng/L	1.6	1	04/15/25 08:35	04/16/25 17:33	2058-94-8	
Surrogates								
13C2-PFDoA (S)	65	%.	10-130	1	04/15/25 08:35	04/16/25 17:33		
13C3HFPO-DA (S)	68	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
13C3-PFBS (S)	73	%.	40-135	1	04/15/25 08:35	04/16/25 17:33		
13C3-PFHxS (S)	68	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
13C4-PFBA (S)	76	%.	5-130	1	04/15/25 08:35	04/16/25 17:33		
13C4-PFHpA (S)	67	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
13C5-PFHxA (S)	68	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
13C5-PFPeA (S)	72	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
13C6-PFDA (S)	67	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
13C8-PFOA (S)	70	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
13C8-PFOS (S)	67	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
13C8-PFOSA (S)	63	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
13C9-PFNA (S)	68	%.	40-130	1	04/15/25 08:35	04/16/25 17:33		
d3-MeFOSAA (S)	70	%.	40-170	1	04/15/25 08:35	04/16/25 17:33		
d3-NMeFOSA (S)	53	%.	10-130	1	04/15/25 08:35	04/16/25 17:33		
d5-EtFOSAA (S)	70	%.	25-135	1	04/15/25 08:35	04/16/25 17:33		
d5-NEtFOSA (S)	53	%.	10-130	1	04/15/25 08:35	04/16/25 17:33		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1844151 WG2484579
Pace Project No.: 10730162

Sample: DWS-73 **Lab ID: 10730162011** Collected: 04/04/25 16:20 Received: 04/08/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 512.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	58	%.	10-130	1	04/15/25 08:35	04/16/25 17:33		
d9-NEtFOSE (S)	57	%.	10-130	1	04/15/25 08:35	04/16/25 17:33		
13C2-PFTA (S)	66	%.	10-130	1	04/15/25 08:35	04/16/25 17:33		
13C7-PFUdA (S)	69	%.	30-130	1	04/15/25 08:35	04/16/25 17:33		
13C24:2FTS (S)	81	%.	40-200	1	04/15/25 08:35	04/16/25 17:33		
13C26:2FTS (S)	80	%.	40-200	1	04/15/25 08:35	04/16/25 17:33		
13C28:2FTS (S)	77	%.	40-300	1	04/15/25 08:35	04/16/25 17:33		
13C3-PFPrA (S)	13	%.	5-130	1	04/15/25 08:35	04/16/25 17:33		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844151 WG2484579
Pace Project No.: 10730162

QC Batch: 1001280
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10730162001, 10730162002, 10730162003, 10730162004, 10730162005, 10730162006, 10730162007, 10730162008, 10730162009, 10730162010, 10730162011

METHOD BLANK: 5222646
Matrix: Water
Associated Lab Samples: 10730162001, 10730162002, 10730162003, 10730162004, 10730162005, 10730162006, 10730162007, 10730162008, 10730162009, 10730162010, 10730162011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	04/16/25 14:30	
3:3 FTCA	ng/L	ND	8.0	04/16/25 14:30	
4:2 FTS	ng/L	ND	6.4	04/16/25 14:30	
5:3 FTCA	ng/L	ND	40.0	04/16/25 14:30	
6:2 FTS	ng/L	ND	6.4	04/16/25 14:30	
7:3 FTCA	ng/L	ND	40.0	04/16/25 14:30	
8:2 FTS	ng/L	ND	6.4	04/16/25 14:30	
9Cl-PF3ONS	ng/L	ND	6.4	04/16/25 14:30	
ADONA	ng/L	ND	6.4	04/16/25 14:30	
HFPO-DA	ng/L	ND	6.4	04/16/25 14:30	
NEtFOSA	ng/L	ND	1.6	04/16/25 14:30	
NEtFOSAA	ng/L	ND	1.6	04/16/25 14:30	
NEtFOSE	ng/L	ND	16.0	04/16/25 14:30	
NFDHA	ng/L	ND	3.2	04/16/25 14:30	
NMeFOSA	ng/L	ND	1.6	04/16/25 14:30	
NMeFOSAA	ng/L	ND	1.6	04/16/25 14:30	
NMeFOSE	ng/L	ND	16.0	04/16/25 14:30	
PFBA	ng/L	ND	6.4	04/16/25 14:30	
PFBS	ng/L	ND	1.6	04/16/25 14:30	
PFDA	ng/L	ND	1.6	04/16/25 14:30	
PFDoA	ng/L	ND	1.6	04/16/25 14:30	
PFDoS	ng/L	ND	1.6	04/16/25 14:30	
PFDS	ng/L	ND	1.6	04/16/25 14:30	
PFEESA	ng/L	ND	3.2	04/16/25 14:30	
PFHpA	ng/L	ND	1.6	04/16/25 14:30	
PFHpS	ng/L	ND	1.6	04/16/25 14:30	
PFHxA	ng/L	ND	1.6	04/16/25 14:30	
PFHxS	ng/L	ND	1.6	04/16/25 14:30	
PFMBA	ng/L	ND	3.2	04/16/25 14:30	
PFMPA	ng/L	ND	3.2	04/16/25 14:30	
PFNA	ng/L	ND	1.6	04/16/25 14:30	
PFNS	ng/L	ND	1.6	04/16/25 14:30	
PFOA	ng/L	ND	1.6	04/16/25 14:30	
PFOS	ng/L	ND	1.6	04/16/25 14:30	
PFOSA	ng/L	ND	1.6	04/16/25 14:30	
PFPeA	ng/L	ND	3.2	04/16/25 14:30	
PFPeS	ng/L	ND	1.6	04/16/25 14:30	
PFTeDA	ng/L	ND	1.6	04/16/25 14:30	
PFTrDA	ng/L	ND	1.6	04/16/25 14:30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844151 WG2484579
Pace Project No.: 10730162

METHOD BLANK: 5222646 Matrix: Water

Associated Lab Samples: 10730162001, 10730162002, 10730162003, 10730162004, 10730162005, 10730162006, 10730162007, 10730162008, 10730162009, 10730162010, 10730162011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PFUnA	ng/L	ND	1.6	04/16/25 14:30	
13C2-PFDoA (S)	%.	62	10-130	04/16/25 14:30	
13C2-PFTA (S)	%.	62	10-130	04/16/25 14:30	
13C24:2FTS (S)	%.	87	40-200	04/16/25 14:30	
13C26:2FTS (S)	%.	84	40-200	04/16/25 14:30	
13C28:2FTS (S)	%.	73	40-300	04/16/25 14:30	
13C3-PFBS (S)	%.	67	40-135	04/16/25 14:30	
13C3-PFHxS (S)	%.	63	40-130	04/16/25 14:30	
13C3-PFPrA (S)	%.	69	5-130	04/16/25 14:30	
13C3HFPO-DA (S)	%.	64	40-130	04/16/25 14:30	
13C4-PFBA (S)	%.	67	5-130	04/16/25 14:30	
13C4-PFHpA (S)	%.	62	40-130	04/16/25 14:30	
13C5-PFHxA (S)	%.	64	40-130	04/16/25 14:30	
13C5-PFPeA (S)	%.	65	40-130	04/16/25 14:30	
13C6-PFDA (S)	%.	63	40-130	04/16/25 14:30	
13C7-PFUdA (S)	%.	66	30-130	04/16/25 14:30	
13C8-PFOA (S)	%.	67	40-130	04/16/25 14:30	
13C8-PFOS (S)	%.	63	40-130	04/16/25 14:30	
13C8-PFOSA (S)	%.	57	40-130	04/16/25 14:30	
13C9-PFNA (S)	%.	64	40-130	04/16/25 14:30	
d3-MeFOSAA (S)	%.	65	40-170	04/16/25 14:30	
d3-NMeFOSA (S)	%.	49	10-130	04/16/25 14:30	
d5-EtFOSAA (S)	%.	65	25-135	04/16/25 14:30	
d5-NEtFOSA (S)	%.	50	10-130	04/16/25 14:30	
d7-NMeFOSE (S)	%.	58	10-130	04/16/25 14:30	
d9-NEtFOSE (S)	%.	58	10-130	04/16/25 14:30	

LABORATORY CONTROL SAMPLE: 5222647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	77.6	103	55-160	
3:3 FTCA	ng/L	99.2	83.0	84	65-130	
4:2 FTS	ng/L	75.2	70.9	94	70-145	
5:3 FTCA	ng/L	496	448	90	70-135	
6:2 FTS	ng/L	76.8	73.3	95	65-155	
7:3 FTCA	ng/L	496	437	88	50-145	
8:2 FTS	ng/L	76.8	74.5	97	60-150	
9Cl-PF3ONS	ng/L	75.2	80.3	107	70-155	
ADONA	ng/L	75.2	74.6	99	65-145	
HFPO-DA	ng/L	80	74.8	94	70-140	
NEtFOSA	ng/L	19.2	18.1	94	65-145	
NEtFOSAA	ng/L	19.2	18.4	96	70-145	
NEtFOSE	ng/L	192	185	96	70-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844151 WG2484579
Pace Project No.: 10730162

LABORATORY CONTROL SAMPLE: 5222647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NFDHA	ng/L	40	36.0	90	50-150	
NMeFOSA	ng/L	19.2	18.4	96	60-150	
NMeFOSAA	ng/L	19.2	17.7	92	50-140	
NMeFOSE	ng/L	192	185	96	70-145	
PFBA	ng/L	80	73.4	92	70-140	
PFBS	ng/L	17.6	16.2	92	60-145	
PFDA	ng/L	19.2	18.3	95	70-140	
PFDoA	ng/L	19.2	18.9	98	70-140	
PFDoS	ng/L	19.2	18.2	95	50-145	
PFDS	ng/L	19.2	18.9	98	60-145	
PFEESA	ng/L	35.2	33.1	94	70-140	
PFHpA	ng/L	19.2	18.3	95	70-150	
PFHpS	ng/L	19.2	18.4	96	70-150	
PFHxA	ng/L	19.2	17.8	93	70-145	
PFHxS	ng/L	17.6	16.6	94	65-145	
PFMBA	ng/L	40	37.0	92	60-150	
PFMPA	ng/L	40	37.5	94	55-140	
PFNA	ng/L	19.2	18.5	96	70-150	
PFNS	ng/L	19.2	18.1	94	65-145	
PFOA	ng/L	19.2	18.3	96	70-150	
PFOS	ng/L	19.2	17.1	89	55-150	
PFOSA	ng/L	19.2	18.3	95	70-145	
PFPeA	ng/L	40	37.1	93	65-135	
PFPeS	ng/L	19.2	17.2	90	65-140	
PFTeDA	ng/L	19.2	19.2	100	60-140	
PFTrDA	ng/L	19.2	19.3	100	65-140	
PFUnA	ng/L	19.2	18.3	95	70-145	
13C2-PFDoA (S)	%.			72	10-130	
13C2-PFTA (S)	%.			68	10-130	
13C24:2FTS (S)	%.			89	40-200	
13C26:2FTS (S)	%.			88	40-200	
13C28:2FTS (S)	%.			89	40-300	
13C3-PFBS (S)	%.			76	40-135	
13C3-PFHxS (S)	%.			74	40-130	
13C3-PFPrA (S)	%.			78	5-130	
13C3HFPO-DA (S)	%.			72	40-130	
13C4-PFBA (S)	%.			76	5-130	
13C4-PFHpA (S)	%.			73	40-130	
13C5-PFHxA (S)	%.			75	40-130	
13C5-PFPeA (S)	%.			75	40-130	
13C6-PFDA (S)	%.			75	40-130	
13C7-PFUdA (S)	%.			79	30-130	
13C8-PFOA (S)	%.			75	40-130	
13C8-PFOS (S)	%.			74	40-130	
13C8-PFOSA (S)	%.			71	40-130	
13C9-PFNA (S)	%.			76	40-130	
d3-MeFOSAA (S)	%.			79	40-170	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844151 WG2484579
Pace Project No.: 10730162

LABORATORY CONTROL SAMPLE: 5222647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d3-NMeFOSA (S)	%.			51	10-130	
d5-EtFOSAA (S)	%.			76	25-135	
d5-NEtFOSA (S)	%.			51	10-130	
d7-NMeFOSE (S)	%.			65	10-130	
d9-NEtFOSE (S)	%.			65	10-130	

LABORATORY CONTROL SAMPLE: 5222648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	11.0	91	55-160	
3:3 FTCA	ng/L	15.9	12.6	80	65-130	
4:2 FTS	ng/L	12	11.0	91	70-145	
5:3 FTCA	ng/L	79.4	67.5	85	70-135	
6:2 FTS	ng/L	12.3	11.5	94	65-155	
7:3 FTCA	ng/L	79.4	67.9	86	50-145	
8:2 FTS	ng/L	12.3	12.5	101	60-150	
9Cl-PF3ONS	ng/L	12	12.2	101	70-155	
ADONA	ng/L	12	11.5	95	65-145	
HFPO-DA	ng/L	12.8	11.6	91	70-140	
NEtFOSA	ng/L	3.1	2.9	93	65-145	
NEtFOSAA	ng/L	3.1	3.0	99	70-145	
NEtFOSE	ng/L	30.7	28.8	94	70-135	
NFDHA	ng/L	6.4	5.1	80	50-150	
NMeFOSA	ng/L	3.1	3.1	100	60-150	
NMeFOSAA	ng/L	3.1	2.6	86	50-140	
NMeFOSE	ng/L	30.7	29.3	95	70-145	
PFBA	ng/L	12.8	11.4	89	70-140	
PFBS	ng/L	2.8	2.6	91	60-145	
PFDA	ng/L	3.1	2.8	91	70-140	
PFDoA	ng/L	3.1	2.9	93	70-140	
PFDoS	ng/L	3.1	2.6	83	50-145	
PFDS	ng/L	3.1	2.7	89	60-145	
PFEESA	ng/L	5.6	5.0	89	70-140	
PFHpA	ng/L	3.1	2.8	91	70-150	
PFHpS	ng/L	3.1	2.8	90	70-150	
PFHxA	ng/L	3.1	3.0	97	70-145	
PFHxS	ng/L	2.8	2.7	96	65-145	
PFMBA	ng/L	6.4	5.8	91	60-150	
PFMPA	ng/L	6.4	6.1	95	55-140	
PFNA	ng/L	3.1	2.7	88	70-150	
PFNS	ng/L	3.1	2.9	94	65-145	
PFOA	ng/L	3.1	3.0	96	70-150	
PFOS	ng/L	3.1	2.8	92	55-150	
PFOSA	ng/L	3.1	2.9	95	70-145	
PFPeA	ng/L	6.4	5.7	90	65-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844151 WG2484579
Pace Project No.: 10730162

LABORATORY CONTROL SAMPLE: 5222648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFPeS	ng/L	3.1	2.7	89	65-140	
PFTeDA	ng/L	3.1	2.9	96	60-140	
PFTrDA	ng/L	3.1	2.7	88	65-140	
PFUnA	ng/L	3.1	2.8	90	70-145	
13C2-PFDoA (S)	%.			81	10-130	
13C2-PFTA (S)	%.			74	10-130	
13C24:2FTS (S)	%.			107	40-200	
13C26:2FTS (S)	%.			104	40-200	
13C28:2FTS (S)	%.			97	40-300	
13C3-PFBS (S)	%.			87	40-135	
13C3-PFHxS (S)	%.			82	40-130	
13C3-PFPrA (S)	%.			85	5-130	
13C3HFPO-DA (S)	%.			87	40-130	
13C4-PFBA (S)	%.			86	5-130	
13C4-PFHpA (S)	%.			84	40-130	
13C5-PFHxA (S)	%.			89	40-130	
13C5-PFPeA (S)	%.			87	40-130	
13C6-PFDA (S)	%.			84	40-130	
13C7-PFUdA (S)	%.			89	30-130	
13C8-PFOA (S)	%.			85	40-130	
13C8-PFOS (S)	%.			82	40-130	
13C8-PFOSA (S)	%.			78	40-130	
13C9-PFNA (S)	%.			81	40-130	
d3-MeFOSAA (S)	%.			85	40-170	
d3-NMeFOSA (S)	%.			55	10-130	
d5-EtFOSAA (S)	%.			80	25-135	
d5-NEtFOSA (S)	%.			49	10-130	
d7-NMeFOSE (S)	%.			67	10-130	
d9-NEtFOSE (S)	%.			65	10-130	

MATRIX SPIKE SAMPLE: 5222649

Parameter	Units	10729030001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	ND	80.1	89.7	112	55-160	
3:3 FTCA	ng/L	ND	106	88.5	80	65-130	
4:2 FTS	ng/L	ND	80.1	74.9	94	70-145	
5:3 FTCA	ng/L	ND	528	450	85	70-135	
6:2 FTS	ng/L	ND	81.8	79.6	96	65-155	
7:3 FTCA	ng/L	ND	528	469	89	50-145	
8:2 FTS	ng/L	ND	81.8	80.2	98	60-150	
9Cl-PF3ONS	ng/L	ND	80.1	83.1	104	70-155	
ADONA	ng/L	ND	80.1	78.1	97	65-145	
HFPO-DA	ng/L	ND	85.2	80.3	92	70-140	
NEtFOSA	ng/L	ND	20.5	19.6	96	65-145	
NEtFOSAA	ng/L	2.4	20.5	22.0	96	70-145	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844151 WG2484579
Pace Project No.: 10730162

MATRIX SPIKE SAMPLE: 5222649

Parameter	Units	10729030001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
NEtFOSE	ng/L	ND	205	191	93	70-135	
NFDHA	ng/L	ND	42.6	38.3	90	50-150	
NMeFOSA	ng/L	ND	20.5	18.7	91	60-150	
NMeFOSAA	ng/L	2.2	20.5	21.3	93	50-140	
NMeFOSE	ng/L	ND	205	193	94	70-145	
PFBA	ng/L	2030	85.2	2110	101	70-140	
PFBS	ng/L	36.9	18.7	53.9	90	60-145	
PFDA	ng/L	ND	20.5	18.9	91	70-140	
PFDoA	ng/L	ND	20.5	19.4	95	70-140	
PFDoS	ng/L	ND	20.5	20.2	99	50-145	
PFDS	ng/L	2.7	20.5	24.8	108	60-145	
PFEESA	ng/L	ND	37.5	34.3	92	70-140	
PFHpA	ng/L	3.4	20.5	22.5	93	70-150	
PFHpS	ng/L	26.8	20.5	41.6	72	70-150	
PFHxA	ng/L	24.1	20.5	43.6	96	70-145	
PFHxS	ng/L	92.2	18.7	107	77	65-145	
PFMBA	ng/L	ND	42.6	39.1	90	60-150	
PFMPA	ng/L	38.3	42.6	79.0	95	55-140	
PFNA	ng/L	ND	20.5	19.1	92	70-150	
PFNS	ng/L	ND	20.5	18.9	92	65-145	
PFOA	ng/L	57.3	20.5	75.1	87	70-150	
PFOS	ng/L	99.5	20.5	122	108	55-150	
PFOSA	ng/L	3.1	20.5	23.1	98	70-145	
PFPeA	ng/L	115	42.6	156	97	65-135	
PFPeS	ng/L	18.2	20.5	36.2	88	65-140	
PFTeDA	ng/L	ND	20.5	20.0	98	60-140	
PFTrDA	ng/L	ND	20.5	19.8	97	65-140	
PFUnA	ng/L	ND	20.5	19.0	93	70-145	
13C2-PFDoA (S)	%.				51	10-130	
13C2-PFTA (S)	%.				48	10-130	
13C24:2FTS (S)	%.				57	40-200	
13C26:2FTS (S)	%.				60	40-200	
13C28:2FTS (S)	%.				64	40-300	
13C3-PFBS (S)	%.				47	40-135	
13C3-PFHxS (S)	%.				45	40-130	
13C3-PFPrA (S)	%.				5	5-130	
13C3HFPO-DA (S)	%.				43	40-130	
13C4-PFBA (S)	%.				45	5-130	
13C4-PFHpA (S)	%.				42	40-130	
13C5-PFHxA (S)	%.				45	40-130	
13C5-PFPeA (S)	%.				46	40-130	
13C6-PFDA (S)	%.				45	40-130	
13C7-PFUdA (S)	%.				52	30-130	
13C8-PFOA (S)	%.				47	40-130	
13C8-PFOS (S)	%.				45	40-130	
13C8-PFOSA (S)	%.				40	40-130	
13C9-PFNA (S)	%.				44	40-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1844151 WG2484579
Pace Project No.: 10730162

MATRIX SPIKE SAMPLE: 5222649

Parameter	Units	10729030001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
d3-MeFOSAA (S)	%.				46	40-170	
d3-NMeFOSA (S)	%.				36	10-130	
d5-EtFOSAA (S)	%.				46	25-135	
d5-NEtFOSA (S)	%.				36	10-130	
d7-NMeFOSE (S)	%.				42	10-130	
d9-NEtFOSE (S)	%.				42	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: L1844151 WG2484579
Pace Project No.: 10730162

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1844151 WG2484579
Pace Project No.: 10730162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10730162001	**DWS-65**	EPA 1633	1001280	EPA 1633	1002013
10730162002	**DWS-67**	EPA 1633	1001280	EPA 1633	1002013
10730162003	**DWS-68**	EPA 1633	1001280	EPA 1633	1002013
10730162010	**DUPE-02**	EPA 1633	1001280	EPA 1633	1002013
10730162004	**DWS-69**	EPA 1633	1001280	EPA 1633	1002013
10730162005	**DWS-70**	EPA 1633	1001280	EPA 1633	1002013
10730162006	**DWS-71**	EPA 1633	1001280	EPA 1633	1002013
10730162009	**DWS-72**	EPA 1633	1001280	EPA 1633	1002013
10730162007	**SWS-03**	EPA 1633	1001280	EPA 1633	1002013
10730162008	**SWS-04**	EPA 1633	1001280	EPA 1633	1002013
10730162011	**DWS-73**	EPA 1633	1001280	EPA 1633	1002013

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sub-Contract Chain of Custody

Batch Date/Time: 04/07/25 09:28
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2484579
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 05/05/25
ESC Purchase Order #: L1844151
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
DWS-65 PFAS-500HDPE-NoPres - S51293719 PFAS-500HDPE-NoPres - S51293720	GW	NM	04/03/25 15:15	PFAS1633	1. L1844151-01	Level 4 001
DWS-67 PFAS-500HDPE-NoPres - S51293721 PFAS-500HDPE-NoPres - S51293722	GW	NM	04/04/25 10:05	PFAS1633	2. L1844151-02	Level 4 002
DWS-68 PFAS-500HDPE-NoPres - S51293723 PFAS-500HDPE-NoPres - S51293724	GW	NM	04/04/25 10:40	PFAS1633	3. L1844151-03	Level 4 003
DWS-69 PFAS-500HDPE-NoPres - S51293725 PFAS-500HDPE-NoPres - S51293726	GW	NM	04/04/25 11:34	PFAS1633	4. L1844151-04	Level 4 004
DWS-70 PFAS-500HDPE-NoPres - S51293727 PFAS-500HDPE-NoPres - S51293728	GW	NM	04/04/25 12:50	PFAS1633	5. L1844151-05	Level 4 005
DWS-71 PFAS-500HDPE-NoPres - S51293729 PFAS-500HDPE-NoPres - S51293730	GW	NM	04/04/25 13:07	PFAS1633	6. L1844151-06	Level 4 006
SWS-03 PFAS-500HDPE-NoPres - S51293731 PFAS-500HDPE-NoPres - S51293732	GW	NM	04/04/25 14:58	PFAS1633	7. L1844151-07	Level 4 007
SWS-04 PFAS-500HDPE-NoPres - S51293733 PFAS-500HDPE-NoPres - S51293734	GW	NM	04/04/25 15:45	PFAS1633	8. L1844151-08	Level 4 008
DWS-72 PFAS-500HDPE-NoPres - S51293735 PFAS-500HDPE-NoPres - S51293736	GW	NM	04/04/25 14:15	PFAS1633	9. L1844151-09	Level 4 009
DUPE-02 PFAS-500HDPE-NoPres - S51293737 PFAS-500HDPE-NoPres - S51293738	GW	NM	04/04/25 11:23	PFAS1633	10. L1844151-10	Level 4 010
DWS-73 PFAS-500HDPE-NoPres - S51293739 PFAS-500HDPE-NoPres - S51293740	GW	NM	04/04/25 16:20	PFAS1633	11. L1844151-11	Level 4 011

*= Container used for multiple Samples and/or Analyses

Relinquished by: _____ **Date** 4-7-25

Received by: TJWPace **Date** 4/8/25 850

Relinquished by: _____ **Date** _____

Received by: _____ **Date** _____



ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: JZW 4/8/25

PROJECT #: **WO#: 10730162**

PM: TKL Due Date: 05/05/25

CLIENT: PASI-TN

Client Name: PACE MT JL

Custody Seal Present: ☑ YES ☐ NO Seals Intact: ☑ YES ☐ NO

Tracking Number: 4439 2450 2193 ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☐ Bubble Bags ☐ Bubble Wrap ☑ None ☐ Other: _____ Biological Tissue Frozen: ☐ YES ☑ NO

Thermometer: ☐ T1 (0461) ☑ T2 (0431) ☐ T3 (0459) ☐ T4 (0402) ☐ TS (0187) ☐ T6 (0396) ☐ T7 (0377) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Temp Blank: ☑ YES ☐ NO

NOTE: Temp should be ≤ 6°C, but above freezing.

Read Temp w/Temp Blank: 1.6 °C

Correction Factor: 0

Corrected Temp w/Temp Blank: 1.6 °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): _____

☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☑ N/A – Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☐ NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☐	☑	3.
Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr	☑	☐		4.
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other:
Rush Turn Around Time Requested?	☐	☑		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date:
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8. 2x NT2U / SAMPLE
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? (If NO, fill out section 11.) Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.

Sample #:

☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____

pH Paper Lot #:

☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip ✓

Positive for Residual Chlorine (NaOH containers only): ☐ YES ☐ NO

Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0142
EXCECTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐	☐	☑	
Extra labels present on soil VOA or WIDRO containers? (soil only)	☐	☐	☑	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION / RESOLUTION:

Labeled By: JZW Line: 2

Person Contacted & Date/Time: _____ PM Review & Date: 4/8/25

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.

ANALYTICAL REPORT

Ma 15, 2025

Re ised Re ort

INTERA - Albuquerque, NM

a le eli er rou :	L1850348
a les Recei ed:	04/22/2025
Project Nu ber:	P 001 P A
escri tion:	a ling

Re ort To:

L nda Price
2440 Louisiana l d
uite 700
Albuquerque, NM 87110

Entire Re ort Re ie ed :

Jordan N Zito
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



TA LE NTENT

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Gl: Glossary of Terms 5

Al: Accreditations & Locations 6

Sc: Sample Chain of Custody 7

-74 L1850348-01

Collected by: Lynda Price | Collected date/time: 04/21/25 09:15 | Received date/time: 04/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2496826	1	05/14/25 00:00	05/14/25 00:00	-	Minneapolis, MN 55414

-75 L1850348-02

Collected by: Lynda Price | Collected date/time: 04/21/25 09:56 | Received date/time: 04/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2496826	1	05/14/25 00:00	05/14/25 00:00	-	Minneapolis, MN 55414

-76 L1850348-03

Collected by: Lynda Price | Collected date/time: 04/21/25 10:46 | Received date/time: 04/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2496826	1	05/14/25 00:00	05/14/25 00:00	-	Minneapolis, MN 55414

-77 L1850348-04

Collected by: Lynda Price | Collected date/time: 04/21/25 12:06 | Received date/time: 04/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2496826	1	05/14/25 00:00	05/14/25 00:00	-	Minneapolis, MN 55414

-78 L1850348-05

Collected by: Lynda Price | Collected date/time: 04/21/25 12:48 | Received date/time: 04/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2496826	1	05/14/25 00:00	05/14/25 00:00	-	Minneapolis, MN 55414

-79 L1850348-06

Collected by: Lynda Price | Collected date/time: 04/21/25 13:38 | Received date/time: 04/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2496826	1	05/14/25 00:00	05/14/25 00:00	-	Minneapolis, MN 55414

All sa le aliquots ere recei ed at t e correct te erature, in t e ro er containers, it t e a ro riate reser ati es, and it in et od s ecified olding ti es, unless qualified or notated it in t e re ort ere a licable, all M L L and R L L alues re orted for en iron ental sa les a e been corrected for t e dilution factor used in t e anal sis All Met od and atc ualit ontrol are it in establis ed criteria e ce t ere addressed in t is case narrati e, a non-confor ance for or ro erl qualified it in t e sa le results digital signature belo , l affir to t e best of no ledge, all roble s/ano alies obser ed b t e laborator as a ing t e otential to affect t e qualit of t e data a e been identified b t e laborator , and no infor ation or data a e been no ingl it eld t at ould affect t e qualit of t e data



Jordan N Zito
Project Manager

Re ort Re ision istor

Le el II Re ort - ersion 1: 05/15/25 07:40

Project Narrati e

L1850348 -01, -02, -03, -04, -05, -06 contains subout data t at is included after t e c ain of custod

uide to Reading and nderstanding our Laborator Re ort

T e infor ation belo is designed to better e lain t e arious ter s used in our re ort of anal tical results fro t e Laborator T is is not intended as a co re ensi e e lanation, and if ou a e additional questions lease contact our roject re resentati e

Results isclai er - Infor ation t at a be ro ided b t e custo er, and contained it in t is re ort, include Per it Li its, Project Na e, a le I , a le Matri , a le Preser ation, ield lan s, ield i es, ield u licates, n- ite ata, a ling ollection ates/Ti es, and a ling Location Results relate to t e accurac of t is infor ation ro ided, and as t e sa les are recei ed

Abbre iations and efinitions

	a le eli er rou
ncertaint Radioc e istr	onfidence le el of 2 sig a
ase Narrati e n	A brief discussion about t e included sa le results, including a discussion of an non-confor ances to rotocol obser ed eit er at sa le recei t b t e laborator fro t e field or during t e anal tical rocess If resent, t ere ill be a section in t e ase Narrati e to discuss t e eaning of an data qualifiers used in t e re ort
ualit ontrol u ar c	T is section of t e re ort includes t e results of t e laborator qualit control anal ses required b rocedure or anal tical et ods to assist in e aluating t e alidit of t e results re orted for our sa les T ese anal ses are not being erfor ed on our sa les t icall , but on laborator generated aterial
a le ain of ustod c	T is is t e docu ent created in t e field en our sa les ere initiall collected T is is used to erif t e ti e and date of collection, t e erson collecting t e sa les, and t e anal ses t at t e laborator is requested to erfor T is c ain of custod also docu ents all ersons e cluding co ercial s i ers t at a e ad control or ossession of t e sa les fro t e ti e of collection until deli er to t e laborator for anal sis
a le Results r	T is section of our re ort ill ro ide t e results of all testing erfor ed on our sa les T ese results are ro ided b sa le I and are se arated b t e anal ses erfor ed on eac sa le T e eader line of eac anal sis section for eac sa le ill ro ide t e na e and et od nu ber for t e anal sis re orted
a le u ar s	T is section of t e Anal tical Re ort defines t e s ecific anal ses erfor ed for eac sa le I , including t e dates and ti es of re aration and/or anal sis

ualifier escri tion

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Anal tical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
INTERA - Albuquerque, NM

2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Billing Information:
Lynda Price
2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Report to: Lynda Price

Email To: lprice@intera.com

Project Description: GW Sampling

City/State Collected: New Mexico

Please Circle: PT (MT) CT ET

Regulatory Program (DOD, RCRA, DW, etc): DW

Client Project #: SFCPW.C001.PFAS

Lab Project #: INTERAANM-PFAS

Collected by (print): Lynda Price

Site/Facility ID #:

P.O. #:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day X STD TAT

Quote #:

Date Results Needed:

Pres Chk

Analysis / Container / Preservative

SUBPFAS1633 PFAS-500HDPE-NoPres

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1650346

Table # K199

Acctnum: INTERAANM

Template: T271110

Prelogin: P1141904

PM: 942 - Jordan N Zito

PB: LL 3/28/25

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs		Remarks	Sample # (lab only)
DWS-74	Grab	GW		4/21/25	~~0950~~ 0915	2	X		-01
DWS-75	Grab	GW		4/21/25	0956	2	X		-02
DWS-76	Grab	GW		4/21/25	1046	2	X		-03
DWS-77	Grab	GW		4/21/25	1206	2	X		-04
DWS-78	Grab	GW		4/21/25	1249	2	X		-05
DWS-79	Grab	GW		4/21/25	1339	2	X		-06

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 4439 2447 9809

Sample Receipt Checklist

COC Seal Present/Intact:	Y	N
COC Signed/Accurate:	Y	N
Bottles arrive intact:	Y	N
Correct bottles used:	Y	N
Sufficient Volume sent:	Y	N
If Applicable		
VOA Zero Headspace:	Y	N
Preservation Correct/Checked:	Y	N
RAD Screen <0.5 mR/hr:	Y	N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Lynda Price	4/21/25	1530			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.4 °C Bottles Received: 12	
				5.0+0.4=5.4	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/22/25 Time: 0900	Hold: Condition: NCF / OK

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

May 14, 2025

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1850348 WG2496826
Pace Project No.: 10731874

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for Testing & Innovation

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: L1850348 WG2496826
Pace Project No.: 10731874

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10731874001	**DWS-74**	Water	04/21/25 09:15	04/23/25 08:50
10731874002	**DWS-75**	Water	04/21/25 09:56	04/23/25 08:50
10731874003	**DWS-76**	Water	04/21/25 10:46	04/23/25 08:50
10731874004	**DWS-77**	Water	04/21/25 12:06	04/23/25 08:50
10731874005	**DWS-78**	Water	04/21/25 12:48	04/23/25 08:50
10731874006	**DWS-79**	Water	04/21/25 13:38	04/23/25 08:50

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: L1850348 WG2496826
Pace Project No.: 10731874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10731874001	**DWS-74**	EPA 1633	NBH	65	PASI-M
10731874002	**DWS-75**	EPA 1633	NBH	65	PASI-M
10731874003	**DWS-76**	EPA 1633	NBH	65	PASI-M
10731874004	**DWS-77**	EPA 1633	NBH	65	PASI-M
10731874005	**DWS-78**	EPA 1633	NBH	65	PASI-M
10731874006	**DWS-79**	EPA 1633	NBH	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-74 **Lab ID: 10731874001** Collected: 04/21/25 09:15 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 528.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:45	763051-92-9	
3:3 FTCA	ND	ng/L	7.6	1	05/10/25 09:02	05/12/25 16:45	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:45	757124-72-4	
5:3 FTCA	ND	ng/L	37.9	1	05/10/25 09:02	05/12/25 16:45	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:45	27619-97-2	
7:3 FTCA	ND	ng/L	37.9	1	05/10/25 09:02	05/12/25 16:45	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:45	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:45	756426-58-1	
ADONA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:45	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:45	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	4151-50-2	
NEtFOSE	ND	ng/L	15.1	1	05/10/25 09:02	05/12/25 16:45	1691-99-2	
NFDHA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 16:45	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	31506-32-8	
NMeFOSE	ND	ng/L	15.1	1	05/10/25 09:02	05/12/25 16:45	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	375-73-5	
PFDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	307-24-4	
PFBA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:45	375-22-4	
PFDS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 16:45	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 16:45	863090-89-5	
PFMPA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 16:45	377-73-1	
PFNS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 16:45	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	355-46-4	
PFNA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	375-95-1	
PFOS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:45	2058-94-8	
Surrogates								
13C2-PFDoA (S)	54	%.	10-130	1	05/10/25 09:02	05/12/25 16:45		
13C3HFPO-DA (S)	50	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		
13C3-PFBS (S)	52	%.	40-135	1	05/10/25 09:02	05/12/25 16:45		
13C3-PFHxS (S)	49	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-74 **Lab ID: 10731874001** Collected: 04/21/25 09:15 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 528.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	62	%.	5-130	1	05/10/25 09:02	05/12/25 16:45		
13C4-PFHpA (S)	49	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		
13C5-PFHxA (S)	51	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		
13C5-PFPeA (S)	51	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		
13C6-PFDA (S)	49	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		
13C8-PFOA (S)	51	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		
13C8-PFOS (S)	47	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		
13C8-PFOSA (S)	52	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		
13C9-PFNA (S)	47	%.	40-130	1	05/10/25 09:02	05/12/25 16:45		
d3-MeFOSAA (S)	62	%.	40-170	1	05/10/25 09:02	05/12/25 16:45		
d3-NMeFOSA (S)	43	%.	10-130	1	05/10/25 09:02	05/12/25 16:45		
d5-EtFOSAA (S)	61	%.	25-135	1	05/10/25 09:02	05/12/25 16:45		
d5-NEtFOSA (S)	40	%.	10-130	1	05/10/25 09:02	05/12/25 16:45		
d7-NMeFOSE (S)	55	%.	10-130	1	05/10/25 09:02	05/12/25 16:45		
d9-NEtFOSE (S)	54	%.	10-130	1	05/10/25 09:02	05/12/25 16:45		
13C2-PFTA (S)	60	%.	10-130	1	05/10/25 09:02	05/12/25 16:45		
13C7-PFUdA (S)	56	%.	30-130	1	05/10/25 09:02	05/12/25 16:45		
13C24:2FTS (S)	72	%.	40-200	1	05/10/25 09:02	05/12/25 16:45		
13C26:2FTS (S)	65	%.	40-200	1	05/10/25 09:02	05/12/25 16:45		
13C28:2FTS (S)	68	%.	40-300	1	05/10/25 09:02	05/12/25 16:45		
13C3-PFPrA (S)	15	%.	5-130	1	05/10/25 09:02	05/12/25 16:45		

Sample: DWS-75 **Lab ID: 10731874002** Collected: 04/21/25 09:56 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 520.9 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:54	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	1	05/10/25 09:02	05/12/25 16:54	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:54	757124-72-4	
5:3 FTCA	ND	ng/L	38.4	1	05/10/25 09:02	05/12/25 16:54	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:54	27619-97-2	
7:3 FTCA	ND	ng/L	38.4	1	05/10/25 09:02	05/12/25 16:54	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:54	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:54	756426-58-1	
ADONA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:54	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:54	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	4151-50-2	
NEtFOSE	ND	ng/L	15.4	1	05/10/25 09:02	05/12/25 16:54	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-75 **Lab ID: 10731874002** Collected: 04/21/25 09:56 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 520.9 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 16:54	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	31506-32-8	
NMeFOSE	ND	ng/L	15.4	1	05/10/25 09:02	05/12/25 16:54	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	375-73-5	
PFDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	307-24-4	
PFBA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 16:54	375-22-4	
PFDS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 16:54	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 16:54	863090-89-5	
PFMPA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 16:54	377-73-1	
PFNS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 16:54	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	355-46-4	
PFNA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	375-95-1	
PFOS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 16:54	2058-94-8	
Surrogates								
13C2-PFDoA (S)	56	%.	10-130	1	05/10/25 09:02	05/12/25 16:54		
13C3HFPO-DA (S)	54	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
13C3-PFBS (S)	56	%.	40-135	1	05/10/25 09:02	05/12/25 16:54		
13C3-PFHxS (S)	52	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
13C4-PFBA (S)	68	%.	5-130	1	05/10/25 09:02	05/12/25 16:54		
13C4-PFHpA (S)	50	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
13C5-PFHxA (S)	57	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
13C5-PFPeA (S)	56	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
13C6-PFDA (S)	51	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
13C8-PFOA (S)	56	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
13C8-PFOS (S)	48	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
13C8-PFOSA (S)	50	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
13C9-PFNA (S)	51	%.	40-130	1	05/10/25 09:02	05/12/25 16:54		
d3-MeFOSAA (S)	61	%.	40-170	1	05/10/25 09:02	05/12/25 16:54		
d3-NMeFOSA (S)	39	%.	10-130	1	05/10/25 09:02	05/12/25 16:54		
d5-EtFOSAA (S)	61	%.	25-135	1	05/10/25 09:02	05/12/25 16:54		
d5-NEtFOSA (S)	40	%.	10-130	1	05/10/25 09:02	05/12/25 16:54		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-75 **Lab ID: 10731874002** Collected: 04/21/25 09:56 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 520.9 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	49	%.	10-130	1	05/10/25 09:02	05/12/25 16:54		
d9-NEtFOSE (S)	48	%.	10-130	1	05/10/25 09:02	05/12/25 16:54		
13C2-PFTA (S)	65	%.	10-130	1	05/10/25 09:02	05/12/25 16:54		
13C7-PFUdA (S)	56	%.	30-130	1	05/10/25 09:02	05/12/25 16:54		
13C24:2FTS (S)	79	%.	40-200	1	05/10/25 09:02	05/12/25 16:54		
13C26:2FTS (S)	66	%.	40-200	1	05/10/25 09:02	05/12/25 16:54		
13C28:2FTS (S)	73	%.	40-300	1	05/10/25 09:02	05/12/25 16:54		
13C3-PFPrA (S)	27	%.	5-130	1	05/10/25 09:02	05/12/25 16:54		

Sample: DWS-76 **Lab ID: 10731874003** Collected: 04/21/25 10:46 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 528.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:03	763051-92-9	
3:3 FTCA	ND	ng/L	7.6	1	05/10/25 09:02	05/12/25 17:03	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:03	757124-72-4	
5:3 FTCA	ND	ng/L	37.8	1	05/10/25 09:02	05/12/25 17:03	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:03	27619-97-2	
7:3 FTCA	ND	ng/L	37.8	1	05/10/25 09:02	05/12/25 17:03	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:03	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:03	756426-58-1	
ADONA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:03	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:03	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	4151-50-2	
NEtFOSE	ND	ng/L	15.1	1	05/10/25 09:02	05/12/25 17:03	1691-99-2	
NFDHA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:03	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	31506-32-8	
NMeFOSE	ND	ng/L	15.1	1	05/10/25 09:02	05/12/25 17:03	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	375-73-5	
PFDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	307-24-4	
PFBA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:03	375-22-4	
PFDS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:03	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:03	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-76 **Lab ID: 10731874003** Collected: 04/21/25 10:46 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 528.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:03	377-73-1	
PFNS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:03	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	355-46-4	
PFNA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	375-95-1	
PFOS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:03	2058-94-8	
Surrogates								
13C2-PFDoA (S)	55	%.	10-130	1	05/10/25 09:02	05/12/25 17:03		
13C3HFPO-DA (S)	55	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
13C3-PFBS (S)	53	%.	40-135	1	05/10/25 09:02	05/12/25 17:03		
13C3-PFHxS (S)	50	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
13C4-PFBA (S)	68	%.	5-130	1	05/10/25 09:02	05/12/25 17:03		
13C4-PFHpA (S)	53	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
13C5-PFHxA (S)	59	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
13C5-PFPeA (S)	56	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
13C6-PFDA (S)	52	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
13C8-PFOA (S)	55	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
13C8-PFOS (S)	50	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
13C8-PFOSA (S)	56	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
13C9-PFNA (S)	50	%.	40-130	1	05/10/25 09:02	05/12/25 17:03		
d3-MeFOSAA (S)	63	%.	40-170	1	05/10/25 09:02	05/12/25 17:03		
d3-NMeFOSA (S)	40	%.	10-130	1	05/10/25 09:02	05/12/25 17:03		
d5-EtFOSAA (S)	62	%.	25-135	1	05/10/25 09:02	05/12/25 17:03		
d5-NEtFOSA (S)	38	%.	10-130	1	05/10/25 09:02	05/12/25 17:03		
d7-NMeFOSE (S)	50	%.	10-130	1	05/10/25 09:02	05/12/25 17:03		
d9-NEtFOSE (S)	48	%.	10-130	1	05/10/25 09:02	05/12/25 17:03		
13C2-PFTA (S)	61	%.	10-130	1	05/10/25 09:02	05/12/25 17:03		
13C7-PFUdA (S)	55	%.	30-130	1	05/10/25 09:02	05/12/25 17:03		
13C24:2FTS (S)	75	%.	40-200	1	05/10/25 09:02	05/12/25 17:03		
13C26:2FTS (S)	65	%.	40-200	1	05/10/25 09:02	05/12/25 17:03		
13C28:2FTS (S)	64	%.	40-300	1	05/10/25 09:02	05/12/25 17:03		
13C3-PFPrA (S)	15	%.	5-130	1	05/10/25 09:02	05/12/25 17:03		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-77 **Lab ID: 10731874004** Collected: 04/21/25 12:06 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 521.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:12	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	1	05/10/25 09:02	05/12/25 17:12	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:12	757124-72-4	
5:3 FTCA	ND	ng/L	38.4	1	05/10/25 09:02	05/12/25 17:12	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:12	27619-97-2	
7:3 FTCA	ND	ng/L	38.4	1	05/10/25 09:02	05/12/25 17:12	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:12	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:12	756426-58-1	
ADONA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:12	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:12	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	4151-50-2	
NEtFOSE	ND	ng/L	15.4	1	05/10/25 09:02	05/12/25 17:12	1691-99-2	
NFDHA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:12	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	31506-32-8	
NMeFOSE	ND	ng/L	15.4	1	05/10/25 09:02	05/12/25 17:12	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	375-73-5	
PFDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	307-24-4	
PFBA	ND	ng/L	6.1	1	05/10/25 09:02	05/12/25 17:12	375-22-4	
PFDS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:12	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:12	863090-89-5	
PFMPA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:12	377-73-1	
PFNS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:12	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	355-46-4	
PFNA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	375-95-1	
PFOS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:12	2058-94-8	
Surrogates								
13C2-PFDoA (S)	51	%.	10-130	1	05/10/25 09:02	05/12/25 17:12		
13C3HFPO-DA (S)	53	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		
13C3-PFBS (S)	52	%.	40-135	1	05/10/25 09:02	05/12/25 17:12		
13C3-PFHxS (S)	49	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-77 **Lab ID: 10731874004** Collected: 04/21/25 12:06 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 521.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	66	%.	5-130	1	05/10/25 09:02	05/12/25 17:12		
13C4-PFHpA (S)	50	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		
13C5-PFHxA (S)	52	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		
13C5-PFPeA (S)	53	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		
13C6-PFDA (S)	49	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		
13C8-PFOA (S)	54	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		
13C8-PFOS (S)	50	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		
13C8-PFOSA (S)	51	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		
13C9-PFNA (S)	50	%.	40-130	1	05/10/25 09:02	05/12/25 17:12		
d3-MeFOSAA (S)	60	%.	40-170	1	05/10/25 09:02	05/12/25 17:12		
d3-NMeFOSA (S)	37	%.	10-130	1	05/10/25 09:02	05/12/25 17:12		
d5-EtFOSAA (S)	59	%.	25-135	1	05/10/25 09:02	05/12/25 17:12		
d5-NEtFOSA (S)	37	%.	10-130	1	05/10/25 09:02	05/12/25 17:12		
d7-NMeFOSE (S)	48	%.	10-130	1	05/10/25 09:02	05/12/25 17:12		
d9-NEtFOSE (S)	47	%.	10-130	1	05/10/25 09:02	05/12/25 17:12		
13C2-PFTA (S)	57	%.	10-130	1	05/10/25 09:02	05/12/25 17:12		
13C7-PFUdA (S)	53	%.	30-130	1	05/10/25 09:02	05/12/25 17:12		
13C24:2FTS (S)	75	%.	40-200	1	05/10/25 09:02	05/12/25 17:12		
13C26:2FTS (S)	68	%.	40-200	1	05/10/25 09:02	05/12/25 17:12		
13C28:2FTS (S)	66	%.	40-300	1	05/10/25 09:02	05/12/25 17:12		
13C3-PFPrA (S)	22	%.	5-130	1	05/10/25 09:02	05/12/25 17:12		

Sample: DWS-78 **Lab ID: 10731874005** Collected: 04/21/25 12:48 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 512.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.2	1	05/10/25 09:02	05/12/25 17:21	763051-92-9	
3:3 FTCA	ND	ng/L	7.8	1	05/10/25 09:02	05/12/25 17:21	356-02-5	
4:2 FTS	ND	ng/L	6.2	1	05/10/25 09:02	05/12/25 17:21	757124-72-4	
5:3 FTCA	ND	ng/L	39.0	1	05/10/25 09:02	05/12/25 17:21	914637-49-3	
6:2 FTS	ND	ng/L	6.2	1	05/10/25 09:02	05/12/25 17:21	27619-97-2	
7:3 FTCA	ND	ng/L	39.0	1	05/10/25 09:02	05/12/25 17:21	812-70-4	
8:2 FTS	ND	ng/L	6.2	1	05/10/25 09:02	05/12/25 17:21	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.2	1	05/10/25 09:02	05/12/25 17:21	756426-58-1	
ADONA	ND	ng/L	6.2	1	05/10/25 09:02	05/12/25 17:21	919005-14-4	
HFPO-DA	ND	ng/L	6.2	1	05/10/25 09:02	05/12/25 17:21	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	4151-50-2	
NEtFOSE	ND	ng/L	15.6	1	05/10/25 09:02	05/12/25 17:21	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-78 **Lab ID: 10731874005** Collected: 04/21/25 12:48 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 512.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:21	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	31506-32-8	
NMeFOSE	ND	ng/L	15.6	1	05/10/25 09:02	05/12/25 17:21	24448-09-7	
PFBS	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	375-73-5	
PFDA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	335-76-2	
PFHxA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	307-24-4	
PFBA	ND	ng/L	6.2	1	05/10/25 09:02	05/12/25 17:21	375-22-4	
PFDS	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	335-77-3	
PFDoS	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:21	113507-82-7	
PFHpS	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:21	863090-89-5	
PFMPA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:21	377-73-1	
PFNS	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	68259-12-1	
PFOSA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/10/25 09:02	05/12/25 17:21	2706-90-3	
PFPeS	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	2706-91-4	
PFDoA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	307-55-1	
PFHpA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	375-85-9	
PFHxS	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	355-46-4	
PFNA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	375-95-1	
PFOS	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	1763-23-1	
PFOA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	335-67-1	
PFTeDA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	376-06-7	
PFTrDA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	72629-94-8	
PFUnA	ND	ng/L	1.6	1	05/10/25 09:02	05/12/25 17:21	2058-94-8	
Surrogates								
13C2-PFDoA (S)	50	%.	10-130	1	05/10/25 09:02	05/12/25 17:21		
13C3HFPO-DA (S)	48	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
13C3-PFBS (S)	47	%.	40-135	1	05/10/25 09:02	05/12/25 17:21		
13C3-PFHxS (S)	45	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
13C4-PFBA (S)	63	%.	5-130	1	05/10/25 09:02	05/12/25 17:21		
13C4-PFHpA (S)	44	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
13C5-PFHxA (S)	47	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
13C5-PFPeA (S)	49	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
13C6-PFDA (S)	46	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
13C8-PFOA (S)	45	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
13C8-PFOS (S)	45	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
13C8-PFOSA (S)	45	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
13C9-PFNA (S)	45	%.	40-130	1	05/10/25 09:02	05/12/25 17:21		
d3-MeFOSAA (S)	56	%.	40-170	1	05/10/25 09:02	05/12/25 17:21		
d3-NMeFOSA (S)	36	%.	10-130	1	05/10/25 09:02	05/12/25 17:21		
d5-EtFOSAA (S)	56	%.	25-135	1	05/10/25 09:02	05/12/25 17:21		
d5-NEtFOSA (S)	35	%.	10-130	1	05/10/25 09:02	05/12/25 17:21		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-78 **Lab ID: 10731874005** Collected: 04/21/25 12:48 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 512.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	47	%.	10-130	1	05/10/25 09:02	05/12/25 17:21		
d9-NEtFOSE (S)	47	%.	10-130	1	05/10/25 09:02	05/12/25 17:21		
13C2-PFTA (S)	59	%.	10-130	1	05/10/25 09:02	05/12/25 17:21		
13C7-PFUdA (S)	49	%.	30-130	1	05/10/25 09:02	05/12/25 17:21		
13C24:2FTS (S)	66	%.	40-200	1	05/10/25 09:02	05/12/25 17:21		
13C26:2FTS (S)	59	%.	40-200	1	05/10/25 09:02	05/12/25 17:21		
13C28:2FTS (S)	59	%.	40-300	1	05/10/25 09:02	05/12/25 17:21		
13C3-PFPrA (S)	12	%.	5-130	1	05/10/25 09:02	05/12/25 17:21		

Sample: DWS-79 **Lab ID: 10731874006** Collected: 04/21/25 13:38 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 534.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.0	1	05/10/25 09:02	05/12/25 17:30	763051-92-9	
3:3 FTCA	ND	ng/L	7.5	1	05/10/25 09:02	05/12/25 17:30	356-02-5	
4:2 FTS	ND	ng/L	6.0	1	05/10/25 09:02	05/12/25 17:30	757124-72-4	
5:3 FTCA	ND	ng/L	37.4	1	05/10/25 09:02	05/12/25 17:30	914637-49-3	
6:2 FTS	ND	ng/L	6.0	1	05/10/25 09:02	05/12/25 17:30	27619-97-2	
7:3 FTCA	ND	ng/L	37.4	1	05/10/25 09:02	05/12/25 17:30	812-70-4	
8:2 FTS	ND	ng/L	6.0	1	05/10/25 09:02	05/12/25 17:30	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.0	1	05/10/25 09:02	05/12/25 17:30	756426-58-1	
ADONA	ND	ng/L	6.0	1	05/10/25 09:02	05/12/25 17:30	919005-14-4	
HFPO-DA	ND	ng/L	6.0	1	05/10/25 09:02	05/12/25 17:30	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	4151-50-2	
NEtFOSE	ND	ng/L	15.0	1	05/10/25 09:02	05/12/25 17:30	1691-99-2	
NFDHA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:30	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	31506-32-8	
NMeFOSE	ND	ng/L	15.0	1	05/10/25 09:02	05/12/25 17:30	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	375-73-5	
PFDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	307-24-4	
PFBA	ND	ng/L	6.0	1	05/10/25 09:02	05/12/25 17:30	375-22-4	
PFDS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:30	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:30	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1850348 WG2496826
Pace Project No.: 10731874

Sample: DWS-79 **Lab ID: 10731874006** Collected: 04/21/25 13:38 Received: 04/23/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 534.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:30	377-73-1	
PFNS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/10/25 09:02	05/12/25 17:30	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	355-46-4	
PFNA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	375-95-1	
PFOS	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/10/25 09:02	05/12/25 17:30	2058-94-8	
Surrogates								
13C2-PFDoA (S)	61	%.	10-130	1	05/10/25 09:02	05/12/25 17:30		
13C3HFPO-DA (S)	58	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
13C3-PFBS (S)	59	%.	40-135	1	05/10/25 09:02	05/12/25 17:30		
13C3-PFHxS (S)	58	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
13C4-PFBA (S)	74	%.	5-130	1	05/10/25 09:02	05/12/25 17:30		
13C4-PFHpA (S)	57	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
13C5-PFHxA (S)	58	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
13C5-PFPeA (S)	61	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
13C6-PFDA (S)	59	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
13C8-PFOA (S)	56	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
13C8-PFOS (S)	55	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
13C8-PFOSA (S)	57	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
13C9-PFNA (S)	55	%.	40-130	1	05/10/25 09:02	05/12/25 17:30		
d3-MeFOSAA (S)	67	%.	40-170	1	05/10/25 09:02	05/12/25 17:30		
d3-NMeFOSA (S)	40	%.	10-130	1	05/10/25 09:02	05/12/25 17:30		
d5-EtFOSAA (S)	66	%.	25-135	1	05/10/25 09:02	05/12/25 17:30		
d5-NEtFOSA (S)	40	%.	10-130	1	05/10/25 09:02	05/12/25 17:30		
d7-NMeFOSE (S)	53	%.	10-130	1	05/10/25 09:02	05/12/25 17:30		
d9-NEtFOSE (S)	53	%.	10-130	1	05/10/25 09:02	05/12/25 17:30		
13C2-PFTA (S)	67	%.	10-130	1	05/10/25 09:02	05/12/25 17:30		
13C7-PFUdA (S)	61	%.	30-130	1	05/10/25 09:02	05/12/25 17:30		
13C24:2FTS (S)	82	%.	40-200	1	05/10/25 09:02	05/12/25 17:30		
13C26:2FTS (S)	71	%.	40-200	1	05/10/25 09:02	05/12/25 17:30		
13C28:2FTS (S)	72	%.	40-300	1	05/10/25 09:02	05/12/25 17:30		
13C3-PFPrA (S)	19	%.	5-130	1	05/10/25 09:02	05/12/25 17:30		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1850348 WG2496826
Pace Project No.: 10731874

QC Batch: 1005453
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10731874001, 10731874002, 10731874003, 10731874004, 10731874005, 10731874006

METHOD BLANK: 5241907 Matrix: Water
Associated Lab Samples: 10731874001, 10731874002, 10731874003, 10731874004, 10731874005, 10731874006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	05/12/25 16:17	
3:3 FTCA	ng/L	ND	8.0	05/12/25 16:17	
4:2 FTS	ng/L	ND	6.4	05/12/25 16:17	
5:3 FTCA	ng/L	ND	40.0	05/12/25 16:17	
6:2 FTS	ng/L	ND	6.4	05/12/25 16:17	
7:3 FTCA	ng/L	ND	40.0	05/12/25 16:17	
8:2 FTS	ng/L	ND	6.4	05/12/25 16:17	
9Cl-PF3ONS	ng/L	ND	6.4	05/12/25 16:17	
ADONA	ng/L	ND	6.4	05/12/25 16:17	
HFPO-DA	ng/L	ND	6.4	05/12/25 16:17	
NEtFOSA	ng/L	ND	1.6	05/12/25 16:17	
NEtFOSAA	ng/L	ND	1.6	05/12/25 16:17	
NEtFOSE	ng/L	ND	16.0	05/12/25 16:17	
NFDHA	ng/L	ND	3.2	05/12/25 16:17	
NMeFOSA	ng/L	ND	1.6	05/12/25 16:17	
NMeFOSAA	ng/L	ND	1.6	05/12/25 16:17	
NMeFOSE	ng/L	ND	16.0	05/12/25 16:17	
PFBA	ng/L	ND	6.4	05/12/25 16:17	
PFBS	ng/L	ND	1.6	05/12/25 16:17	
PFDA	ng/L	ND	1.6	05/12/25 16:17	
PFDoA	ng/L	ND	1.6	05/12/25 16:17	
PFDoS	ng/L	ND	1.6	05/12/25 16:17	
PFDS	ng/L	ND	1.6	05/12/25 16:17	
PFEESA	ng/L	ND	3.2	05/12/25 16:17	
PFHpA	ng/L	ND	1.6	05/12/25 16:17	
PFHpS	ng/L	ND	1.6	05/12/25 16:17	
PFHxA	ng/L	ND	1.6	05/12/25 16:17	
PFHxS	ng/L	ND	1.6	05/12/25 16:17	
PFMBA	ng/L	ND	3.2	05/12/25 16:17	
PFMPA	ng/L	ND	3.2	05/12/25 16:17	
PFNA	ng/L	ND	1.6	05/12/25 16:17	
PFNS	ng/L	ND	1.6	05/12/25 16:17	
PFOA	ng/L	ND	1.6	05/12/25 16:17	
PFOS	ng/L	ND	1.6	05/12/25 16:17	
PFOSA	ng/L	ND	1.6	05/12/25 16:17	
PFPeA	ng/L	ND	3.2	05/12/25 16:17	
PFPeS	ng/L	ND	1.6	05/12/25 16:17	
PFTeDA	ng/L	ND	1.6	05/12/25 16:17	
PFTrDA	ng/L	ND	1.6	05/12/25 16:17	
PFUnA	ng/L	ND	1.6	05/12/25 16:17	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1850348 WG2496826
Pace Project No.: 10731874

METHOD BLANK: 5241907 Matrix: Water
Associated Lab Samples: 10731874001, 10731874002, 10731874003, 10731874004, 10731874005, 10731874006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	40	10-130	05/12/25 16:17	
13C2-PFTA (S)	%.	49	10-130	05/12/25 16:17	
13C24:2FTS (S)	%.	65	40-200	05/12/25 16:17	
13C26:2FTS (S)	%.	53	40-200	05/12/25 16:17	
13C28:2FTS (S)	%.	55	40-300	05/12/25 16:17	
13C3-PFBS (S)	%.	44	40-135	05/12/25 16:17	
13C3-PFHxS (S)	%.	42	40-130	05/12/25 16:17	
13C3-PFPrA (S)	%.	57	5-130	05/12/25 16:17	
13C3HFPO-DA (S)	%.	43	40-130	05/12/25 16:17	
13C4-PFBA (S)	%.	51	5-130	05/12/25 16:17	
13C4-PFHpA (S)	%.	42	40-130	05/12/25 16:17	
13C5-PFHxA (S)	%.	43	40-130	05/12/25 16:17	
13C5-PFPeA (S)	%.	45	40-130	05/12/25 16:17	
13C6-PFDA (S)	%.	41	40-130	05/12/25 16:17	
13C7-PFUdA (S)	%.	43	30-130	05/12/25 16:17	
13C8-PFOA (S)	%.	43	40-130	05/12/25 16:17	
13C8-PFOS (S)	%.	41	40-130	05/12/25 16:17	
13C8-PFOSA (S)	%.	41	40-130	05/12/25 16:17	
13C9-PFNA (S)	%.	41	40-130	05/12/25 16:17	
d3-MeFOSAA (S)	%.	44	40-170	05/12/25 16:17	
d3-NMeFOSA (S)	%.	30	10-130	05/12/25 16:17	
d5-EtFOSAA (S)	%.	41	25-135	05/12/25 16:17	
d5-NEtFOSA (S)	%.	32	10-130	05/12/25 16:17	
d7-NMeFOSE (S)	%.	39	10-130	05/12/25 16:17	
d9-NEtFOSE (S)	%.	38	10-130	05/12/25 16:17	

LABORATORY CONTROL SAMPLE: 5241908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	80.4	107	55-160	
3:3 FTCA	ng/L	99.2	90.1	91	65-130	
4:2 FTS	ng/L	75.2	68.4	91	70-145	
5:3 FTCA	ng/L	496	449	90	70-135	
6:2 FTS	ng/L	76.8	73.1	95	65-155	
7:3 FTCA	ng/L	496	429	87	50-145	
8:2 FTS	ng/L	76.8	69.6	91	60-150	
9Cl-PF3ONS	ng/L	75.2	76.1	101	70-155	
ADONA	ng/L	75.2	71.8	96	65-145	
HFPO-DA	ng/L	80	72.5	91	70-140	
NEtFOSA	ng/L	19.2	19.2	100	65-145	
NEtFOSAA	ng/L	19.2	16.8	88	70-145	
NEtFOSE	ng/L	192	177	92	70-135	
NFDHA	ng/L	40	37.8	95	50-150	
NMeFOSA	ng/L	19.2	18.8	98	60-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1850348 WG2496826
Pace Project No.: 10731874

LABORATORY CONTROL SAMPLE: 5241908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ng/L	19.2	17.5	91	50-140	
NMeFOSE	ng/L	192	179	93	70-145	
PFBA	ng/L	80	71.9	90	70-140	
PFBS	ng/L	17.6	15.8	90	60-145	
PFDA	ng/L	19.2	16.7	87	70-140	
PFDoA	ng/L	19.2	17.5	91	70-140	
PFDoS	ng/L	19.2	23.1	120	50-145	
PFDS	ng/L	19.2	17.7	92	60-145	
PFEESA	ng/L	35.2	32.9	93	70-140	
PFHpA	ng/L	19.2	18.0	94	70-150	
PFHpS	ng/L	19.2	17.6	92	70-150	
PFHxA	ng/L	19.2	20.5	107	70-145	
PFHxS	ng/L	17.6	16.4	93	65-145	
PFMBA	ng/L	40	36.4	91	60-150	
PFMPA	ng/L	40	34.7	87	55-140	
PFNA	ng/L	19.2	17.6	92	70-150	
PFNS	ng/L	19.2	16.6	87	65-145	
PFOA	ng/L	19.2	17.2	90	70-150	
PFOS	ng/L	19.2	16.3	85	55-150	
PFOSA	ng/L	19.2	18.1	94	70-145	
PFPeA	ng/L	40	35.2	88	65-135	
PFPeS	ng/L	19.2	16.7	87	65-140	
PFTeDA	ng/L	19.2	18.0	94	60-140	
PFTrDA	ng/L	19.2	21.0	109	65-140	
PFUnA	ng/L	19.2	18.0	94	70-145	
13C2-PFDoA (S)	%.			44	10-130	
13C2-PFTA (S)	%.			52	10-130	
13C24:2FTS (S)	%.			61	40-200	
13C26:2FTS (S)	%.			53	40-200	
13C28:2FTS (S)	%.			56	40-300	
13C3-PFBS (S)	%.			44	40-135	
13C3-PFHxS (S)	%.			41	40-130	
13C3-PFPrA (S)	%.			52	5-130	
13C3HFPO-DA (S)	%.			45	40-130	
13C4-PFBA (S)	%.			48	5-130	
13C4-PFHpA (S)	%.			42	40-130	
13C5-PFHxA (S)	%.			42	40-130	
13C5-PFPeA (S)	%.			45	40-130	
13C6-PFDA (S)	%.			43	40-130	
13C7-PFUdA (S)	%.			42	30-130	
13C8-PFOA (S)	%.			45	40-130	
13C8-PFOS (S)	%.			38	40-130	S0
13C8-PFOSA (S)	%.			44	40-130	
13C9-PFNA (S)	%.			40	40-130	
d3-MeFOSAA (S)	%.			48	40-170	
d3-NMeFOSA (S)	%.			33	10-130	
d5-EtFOSAA (S)	%.			48	25-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1850348 WG2496826
Pace Project No.: 10731874

LABORATORY CONTROL SAMPLE: 5241908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			34	10-130	
d7-NMeFOSE (S)	%.			44	10-130	
d9-NEtFOSE (S)	%.			43	10-130	

LABORATORY CONTROL SAMPLE: 5241909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	11.4	94	55-160	
3:3 FTCA	ng/L	15.9	14.7	93	65-130	
4:2 FTS	ng/L	12	10.9	91	70-145	
5:3 FTCA	ng/L	79.4	66.6	84	70-135	
6:2 FTS	ng/L	12.3	11.5	94	65-155	
7:3 FTCA	ng/L	79.4	72.0	91	50-145	
8:2 FTS	ng/L	12.3	10.9	88	60-150	
9Cl-PF3ONS	ng/L	12	11.9	99	70-155	
ADONA	ng/L	12	11.6	96	65-145	
HFPO-DA	ng/L	12.8	11.4	89	70-140	
NEtFOSA	ng/L	3.1	3.1	100	65-145	
NEtFOSAA	ng/L	3.1	2.9	93	70-145	
NEtFOSE	ng/L	30.7	29.0	95	70-135	
NFDHA	ng/L	6.4	6.1	95	50-150	
NMeFOSA	ng/L	3.1	3.0	98	60-150	
NMeFOSAA	ng/L	3.1	2.8	92	50-140	
NMeFOSE	ng/L	30.7	29.2	95	70-145	
PFBA	ng/L	12.8	11.6	90	70-140	
PFBS	ng/L	2.8	2.6	91	60-145	
PFDA	ng/L	3.1	3.1	100	70-140	
PFDoA	ng/L	3.1	2.8	90	70-140	
PFDoS	ng/L	3.1	2.8	90	50-145	
PFDS	ng/L	3.1	2.8	90	60-145	
PFEESA	ng/L	5.6	5.1	90	70-140	
PFHpA	ng/L	3.1	2.8	91	70-150	
PFHpS	ng/L	3.1	2.7	86	70-150	
PFHxA	ng/L	3.1	2.9	96	70-145	
PFHxS	ng/L	2.8	2.7	97	65-145	
PFMBA	ng/L	6.4	5.9	92	60-150	
PFMPA	ng/L	6.4	5.5	86	55-140	
PFNA	ng/L	3.1	2.8	92	70-150	
PFNS	ng/L	3.1	2.7	87	65-145	
PFOA	ng/L	3.1	2.8	91	70-150	
PFOS	ng/L	3.1	2.9	93	55-150	
PFOSA	ng/L	3.1	3.0	97	70-145	
PFPeA	ng/L	6.4	5.9	93	65-135	
PFPeS	ng/L	3.1	2.9	94	65-140	
PFTeDA	ng/L	3.1	2.9	95	60-140	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1850348 WG2496826
Pace Project No.: 10731874

LABORATORY CONTROL SAMPLE: 5241909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ng/L	3.1	3.1	101	65-140	
PFUnA	ng/L	3.1	2.7	87	70-145	
13C2-PFDoA (S)	%.			49	10-130	
13C2-PFTA (S)	%.			50	10-130	
13C24:2FTS (S)	%.			79	40-200	
13C26:2FTS (S)	%.			71	40-200	
13C28:2FTS (S)	%.			68	40-300	
13C3-PFBS (S)	%.			55	40-135	
13C3-PFHxS (S)	%.			53	40-130	
13C3-PFPrA (S)	%.			60	5-130	
13C3HFPO-DA (S)	%.			57	40-130	
13C4-PFBA (S)	%.			58	5-130	
13C4-PFHpA (S)	%.			54	40-130	
13C5-PFHxA (S)	%.			55	40-130	
13C5-PFPeA (S)	%.			54	40-130	
13C6-PFDA (S)	%.			51	40-130	
13C7-PFUdA (S)	%.			55	30-130	
13C8-PFOA (S)	%.			55	40-130	
13C8-PFOS (S)	%.			51	40-130	
13C8-PFOSA (S)	%.			52	40-130	
13C9-PFNA (S)	%.			52	40-130	
d3-MeFOSAA (S)	%.			61	40-170	
d3-NMeFOSA (S)	%.			39	10-130	
d5-EtFOSAA (S)	%.			58	25-135	
d5-NEtFOSA (S)	%.			39	10-130	
d7-NMeFOSE (S)	%.			50	10-130	
d9-NEtFOSE (S)	%.			49	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: L1850348 WG2496826
Pace Project No.: 10731874

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1850348 WG2496826
Pace Project No.: 10731874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10731874001	**DWS-74**	EPA 1633	1005453	EPA 1633	1006539
10731874002	**DWS-75**	EPA 1633	1005453	EPA 1633	1006539
10731874003	**DWS-76**	EPA 1633	1005453	EPA 1633	1006539
10731874004	**DWS-77**	EPA 1633	1005453	EPA 1633	1006539
10731874005	**DWS-78**	EPA 1633	1005453	EPA 1633	1006539
10731874006	**DWS-79**	EPA 1633	1005453	EPA 1633	1006539

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sub-Contract Chain of Custody

Batch Date/Time: 04/22/25 10:37
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2496826
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 05/13/25
ESC Purchase Order #: L1850348
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
DWS-74						
PFAS-500HDPE-NoPres - S51303094	GW	NM	04/21/25 09:15	PFAS1633	1. L1850348-01	Level 4 001
PFAS-500HDPE-NoPres - S51303096						
DWS-75						
PFAS-500HDPE-NoPres - S51303097	GW	NM	04/21/25 09:56	PFAS1633	2. L1850348-02	Level 4 002
PFAS-500HDPE-NoPres - S51303098						
DWS-76						
PFAS-500HDPE-NoPres - S51303100	GW	NM	04/21/25 10:46	PFAS1633	3. L1850348-03	Level 4 003
PFAS-500HDPE-NoPres - S51303101						
DWS-77						
PFAS-500HDPE-NoPres - S51303104	GW	NM	04/21/25 12:06	PFAS1633	4. L1850348-04	Level 4 004
PFAS-500HDPE-NoPres - S51303105						
DWS-78						
PFAS-500HDPE-NoPres - S51303108	GW	NM	04/21/25 12:48	PFAS1633	5. L1850348-05	Level 4 005
PFAS-500HDPE-NoPres - S51303109						
DWS-79						
PFAS-500HDPE-NoPres - 51614006	GW	NM	04/21/25 13:38	PFAS1633	6. L1850348-06	Level 4 006
PFAS-500HDPE-NoPres - 51614007						

*= Container used for multiple Samples and/or Analyses

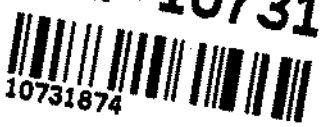
Relinquished by: _____ **Date** 4.22.25

Received by: _____ **Date** 4.22.25 850 1.7

Relinquished by: _____ **Date** _____

Received by: _____ **Date** _____

WO# : 10731874



ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: DGS 4/23/25 PROJECT #: **WO#: 10731874**

PM: TKL Due Date: 05/13/25

CLIENT: PASI-TN

Client Name: Pace National

Custody Seal Present: ☑ YES ☐ NO Seals Intact: ☑ YES ☐ NO

Tracking Number: 4434 2454 6089 ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☐ Bubble Bags ☑ Bubble Wrap ☐ None ☐ Other: _____ Biological Tissue Frozen: ☐ YES ☐ NO

Thermometer: ☐ T1 (0461) ☑ T2 (0431) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0187) ☐ T6 (0396) ☐ T7 (0377) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Temp Blank: ☑ YES ☐ NO

NOTE: Temp should be ≤ 6°C, but above freezing.

Read Temp w/Temp Blank: 1.6 °C

Correction Factor: +0.1

Corrected Temp w/Temp Blank: 1.7 °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): _____

☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☑ N/A – Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☐ NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☐	☑	3.
Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr	☑	☐		4.
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other:
Rush Turn Around Time Requested?	☑	☐		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date: 5/13/25
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? (If NO, fill out section 11.) Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.

Sample #:

☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____

pH Paper Lot #:

☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip _____

Positive for Residual Chlorine (NaOH containers only): ☐ YES ☐ NO

Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0142
EXCECTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐	☐	☑	
Extra labels present on soil VOA or WIDRO containers? (soil only)	☐	☐	☑	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION: Labeled By: DGS Line: 2

Person Contacted & Date/Time: _____ PM Review & Date: [redacted] 4/23/25

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be [illegible] DEQ Certification Office.

ANALYTICAL REPORT

Ma 21, 2025

Re ised Re ort

INTERA - Albuquerque, NM

a le eli er rou :	L1851734
a les Recei ed:	04/25/2025
Project Nu ber:	P 001 P A
escri tion:	a ling

Re ort To:

L nda Price
2440 Louisiana l d
uite 700
Albuquerque, NM 87110

Entire Re ort Re ie ed :

Jordan N Zito
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



TA LE NTENT

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Gl: Glossary of Terms 5

Al: Accreditations & Locations 6

Sc: Sample Chain of Custody 7

TRIP LAN L1851734-01

Collected by: Rocio Mancillas | Collected date/time: 04/23/25 09:00 | Received date/time: 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2500012	1	05/19/25 00:00	05/19/25 00:00	-	Minneapolis, MN 55414

-80 L1851734-02

Collected by: Rocio Mancillas | Collected date/time: 04/23/25 14:40 | Received date/time: 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2500012	1	05/19/25 00:00	05/19/25 00:00	-	Minneapolis, MN 55414

-81 L1851734-03

Collected by: Rocio Mancillas | Collected date/time: 04/23/25 15:25 | Received date/time: 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2500012	1	05/19/25 00:00	05/19/25 00:00	-	Minneapolis, MN 55414

-82 L1851734-04

Collected by: Rocio Mancillas | Collected date/time: 04/23/25 16:00 | Received date/time: 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2500012	1	05/19/25 00:00	05/19/25 00:00	-	Minneapolis, MN 55414

P-03 L1851734-05

Collected by: Rocio Mancillas | Collected date/time: 04/23/25 16:50 | Received date/time: 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2500012	1	05/19/25 00:00	05/19/25 00:00	-	Minneapolis, MN 55414

-83 L1851734-06

Collected by: Rocio Mancillas | Collected date/time: 04/23/25 17:25 | Received date/time: 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2500012	1	05/19/25 00:00	05/19/25 00:00	-	Minneapolis, MN 55414

-84 L1851734-07

Collected by: Rocio Mancillas | Collected date/time: 04/23/25 18:10 | Received date/time: 04/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2500012	1	05/19/25 00:00	05/19/25 00:00	-	Minneapolis, MN 55414

All sa le aliquots ere recei ed at t e correct te erature, in t e ro er containers, it t e a ro riate reser ati es, and it in et od s ecified olding ti es, unless qualified or notated it in t e re ort ere a licable, all M L L and R L L alues re orted for en iron ental sa les a e been corrected for t e dilution factor used in t e anal sis All Met od and atc ualit ontrol are it in establis ed criteria e ce t ere addressed in t is case narrati e, a non-confor ance for or ro erl qualified it in t e sa le results digital signature belo , l affir to t e best of no ledge, all roble s/ano alies obser ed b t e laborator as a ing t e otential to affect t e qualit of t e data a e been identified b t e laborator , and no infor ation or data a e been no ingl it eld t at ould affect t e qualit of t e data

Jordan N Zito
Project Manager

Re ort Re ision istor

Le el II Re ort - ersion 1: 05/21/25 14:52

Project Narrati e

L1851734 -01, -02, -03, -04, -05, -06, -07 contains subout data t at is included after t e c ain of custod

uide to Reading and nderstanding our Laborator Re ort

T e infor ation belo is designed to better e lain t e arious ter s used in our re ort of anal tical results fro t e Laborator T is is not intended as a co re ensi e e lanation, and if ou a e additional questions lease contact our roject re resentati e

Results isclai er - Infor ation t at a be ro ided b t e custo er, and contained it in t is re ort, include Per it Li its, Project Na e, a le I , a le Matri , a le Preser ation, ield lan s, ield i es, ield u licates, n- ite ata, a ling ollection ates/Ti es, and a ling Location Results relate to t e accurac of t is infor ation ro ided, and as t e sa les are recei ed

Abbre iations and efinitions

	a le eli er rou
ncertaint Radioc e istr	onfidence le el of 2 sig a
ase Narrati e n	A brief discussion about t e included sa le results, including a discussion of an non-confor ances to rotocol obser ed eit er at sa le recei t b t e laborator fro t e field or during t e anal tical rocess If resent, t ere ill be a section in t e ase Narrati e to discuss t e eaning of an data qualifiers used in t e re ort
ualit ontrol u ar c	T is section of t e re ort includes t e results of t e laborator qualit control anal ses required b rocedure or anal tical et ods to assist in e aluating t e alidit of t e results re orted for our sa les T ese anal ses are not being erfor ed on our sa les t icall , but on laborator generated aterial
a le ain of ustod c	T is is t e docu ent created in t e field en our sa les ere initiall collected T is is used to erif t e ti e and date of collection, t e erson collecting t e sa les, and t e anal ses t at t e laborator is requested to erfor T is c ain of custod also docu ents all ersons e cluding co ercial s i ers t at a e ad control or ossession of t e sa les fro t e ti e of collection until deli er to t e laborator for anal sis
a le Results r	T is section of our re ort ill ro ide t e results of all testing erfor ed on our sa les T ese results are ro ided b sa le I and are se arated b t e anal ses erfor ed on eac sa le T e eader line of eac anal sis section for eac sa le ill ro ide t e na e and et od nu ber for t e anal sis re orted
a le u ar s	T is section of t e Anal tical Re ort defines t e s ecific anal ses erfor ed for eac sa le I , including t e dates and ti es of re aration and/or anal sis

ualifier escri tion

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Anal tical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
INTERA - Albuquerque, NM

2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Billing Information:
Lynda Price
2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Pres Chk

Report to: Lynda Price

Email To: lprice@intera.com

Project Description: GW Sampling

City/State Collected: New Mexico

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc): DW

Client Project # SFCPW.C001.PFAS

Lab Project # INTERAANM-PFAS

Collected by (print): Rocio Mancillas

Site/Facility ID #

P.O. #

Collected by (signature):

Quote #

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day X STD TAT

Date Results Needed

Immediately Packed on Ice N ___ Y X

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

L851734

E082

Acctnum: INTERAANM
Template: T271065
Prelogin: P1145876
PM: 942 - Jordan N Zito
PB: 4/18/25 MV
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SUBPFAS1633 PFAS-500HDPE-NoPres									Remarks	Sample # (lab only)
TRIP Blank	—	~~GW~~ OT	—	4/23/25	0900	1	X										-01
DWS-90	Grab	GW	—	4/23/25	1440	2	X										-02
DWS-91	Grab	GW	—	4/23/25	1525	2	X										-03
DWS-92	Grab	GW	—	4/23/25	1600	2	X										-04
DUPE-03	Grab	GW	—	4/23/25	1650	2	X										-05
DWS-93	Grab	GW	—	4/23/25	1725	2	X										-06
DWS-94	Grab	GW	—	4/23/25	1910	2	X										-07
		GW															
		GW															
		GW															

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other Trip Blank

Remarks: Requesting Level 4 Data Package

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 4493 5929 1149

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

	Date:	Time:			
Relinquished by : (Signature) Lynda Price	4/23/25	1530	Received by: (Signature)	Trip Blank Received: Yes No HCL MeoH TBR 1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.3+0.4=2.7 °C Bottles Received: 13	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Ei Khaing	Date: 4-25-25 Time: 0900	Hold: Condition: NCF / OK

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

May 20, 2025

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1851734 WG2500012
Pace Project No.: 10732390

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for Testing & Innovation

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: L1851734 WG2500012
Pace Project No.: 10732390

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10732390001	**TRIP BLANK**	Water	04/23/25 09:00	04/26/25 09:40
10732390002	**DWS-80**	Water	04/23/25 14:40	04/26/25 09:40
10732390003	**DWS-81**	Water	04/23/25 15:25	04/26/25 09:40
10732390004	**DWS-82**	Water	04/23/25 16:00	04/26/25 09:40
10732390005	**DUP-03**	Water	04/23/25 16:50	04/26/25 09:40
10732390006	**DWS-83**	Water	04/23/25 17:25	04/26/25 09:40
10732390007	**DWS-84**	Water	04/23/25 18:10	04/26/25 09:40

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: L1851734 WG2500012
Pace Project No.: 10732390

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10732390001	**TRIP BLANK**	EPA 1633	MJL	65	PASI-M
10732390002	**DWS-80**	EPA 1633	MJL	65	PASI-M
10732390003	**DWS-81**	EPA 1633	MJL	65	PASI-M
10732390004	**DWS-82**	EPA 1633	MJL	65	PASI-M
10732390005	**DUP-03**	EPA 1633	MJL	65	PASI-M
10732390006	**DWS-83**	EPA 1633	MJL	65	PASI-M
10732390007	**DWS-84**	EPA 1633	MJL	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: TRIP BLANK **Lab ID: 10732390001** Collected: 04/23/25 09:00 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 517.5 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:02	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	1	05/18/25 09:15	05/20/25 01:02	356-02-5	
4:2 FTS	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:02	757124-72-4	
5:3 FTCA	ND	ng/L	38.6	1	05/18/25 09:15	05/20/25 01:02	914637-49-3	
6:2 FTS	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:02	27619-97-2	
7:3 FTCA	ND	ng/L	38.6	1	05/18/25 09:15	05/20/25 01:02	812-70-4	
8:2 FTS	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:02	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:02	756426-58-1	
ADONA	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:02	919005-14-4	
HFPO-DA	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:02	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	4151-50-2	
NEtFOSE	ND	ng/L	15.5	1	05/18/25 09:15	05/20/25 01:02	1691-99-2	
NFDHA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:02	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	31506-32-8	
NMeFOSE	ND	ng/L	15.5	1	05/18/25 09:15	05/20/25 01:02	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	375-73-5	
PFDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	307-24-4	
PFBA	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:02	375-22-4	
PFDS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:02	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:02	863090-89-5	
PFMPA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:02	377-73-1	
PFNS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:02	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	355-46-4	
PFNA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	375-95-1	
PFOS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:02	2058-94-8	
Surrogates								
13C2-PFDoA (S)	61	%.	10-130	1	05/18/25 09:15	05/20/25 01:02		
13C3HFPO-DA (S)	89	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		
13C3-PFBS (S)	89	%.	40-135	1	05/18/25 09:15	05/20/25 01:02		
13C3-PFHxS (S)	84	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: TRIP BLANK **Lab ID: 10732390001** Collected: 04/23/25 09:00 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 517.5 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	84	%.	5-130	1	05/18/25 09:15	05/20/25 01:02		
13C4-PFHpA (S)	86	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		
13C5-PFHxA (S)	82	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		
13C5-PFPeA (S)	85	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		
13C6-PFDA (S)	75	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		
13C8-PFOA (S)	77	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		
13C8-PFOS (S)	75	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		
13C8-PFOSA (S)	66	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		
13C9-PFNA (S)	80	%.	40-130	1	05/18/25 09:15	05/20/25 01:02		
d3-MeFOSAA (S)	82	%.	40-170	1	05/18/25 09:15	05/20/25 01:02		
d3-NMeFOSA (S)	47	%.	10-130	1	05/18/25 09:15	05/20/25 01:02		
d5-EtFOSAA (S)	71	%.	25-135	1	05/18/25 09:15	05/20/25 01:02		
d5-NEtFOSA (S)	46	%.	10-130	1	05/18/25 09:15	05/20/25 01:02		
d7-NMeFOSE (S)	55	%.	10-130	1	05/18/25 09:15	05/20/25 01:02		
d9-NEtFOSE (S)	52	%.	10-130	1	05/18/25 09:15	05/20/25 01:02		
13C2-PFTA (S)	52	%.	10-130	1	05/18/25 09:15	05/20/25 01:02		
13C7-PFUdA (S)	72	%.	30-130	1	05/18/25 09:15	05/20/25 01:02		
13C24:2FTS (S)	129	%.	40-200	1	05/18/25 09:15	05/20/25 01:02		
13C26:2FTS (S)	115	%.	40-200	1	05/18/25 09:15	05/20/25 01:02		
13C28:2FTS (S)	105	%.	40-300	1	05/18/25 09:15	05/20/25 01:02		
13C3-PFPrA (S)	84	%.	5-130	1	05/18/25 09:15	05/20/25 01:02		

Sample: DWS-80 **Lab ID: 10732390002** Collected: 04/23/25 14:40 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 252.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	12.7	1	05/18/25 09:15	05/20/25 01:11	763051-92-9	
3:3 FTCA	ND	ng/L	15.8	1	05/18/25 09:15	05/20/25 01:11	356-02-5	
4:2 FTS	ND	ng/L	12.7	1	05/18/25 09:15	05/20/25 01:11	757124-72-4	
5:3 FTCA	ND	ng/L	79.1	1	05/18/25 09:15	05/20/25 01:11	914637-49-3	
6:2 FTS	ND	ng/L	12.7	1	05/18/25 09:15	05/20/25 01:11	27619-97-2	
7:3 FTCA	ND	ng/L	79.1	1	05/18/25 09:15	05/20/25 01:11	812-70-4	
8:2 FTS	ND	ng/L	12.7	1	05/18/25 09:15	05/20/25 01:11	39108-34-4	
9Cl-PF3ONS	ND	ng/L	12.7	1	05/18/25 09:15	05/20/25 01:11	756426-58-1	
ADONA	ND	ng/L	12.7	1	05/18/25 09:15	05/20/25 01:11	919005-14-4	
HFPO-DA	ND	ng/L	12.7	1	05/18/25 09:15	05/20/25 01:11	13252-13-6	
NEtFOSAA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	2991-50-6	
NEtFOSA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	4151-50-2	
NEtFOSE	ND	ng/L	31.6	1	05/18/25 09:15	05/20/25 01:11	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DWS-80 **Lab ID: 10732390002** Collected: 04/23/25 14:40 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 252.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	6.3	1	05/18/25 09:15	05/20/25 01:11	151772-58-6	
NMeFOSAA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	2355-31-9	
NMeFOSA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	31506-32-8	
NMeFOSE	ND	ng/L	31.6	1	05/18/25 09:15	05/20/25 01:11	24448-09-7	
PFBS	**14.9**	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	375-73-5	
PFDA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	335-76-2	
PFHxA	**20.4**	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	307-24-4	
PFBA	ND	ng/L	12.7	1	05/18/25 09:15	05/20/25 01:11	375-22-4	
PFDS	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	335-77-3	
PFDoS	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	79780-39-5	
PFEESA	ND	ng/L	6.3	1	05/18/25 09:15	05/20/25 01:11	113507-82-7	
PFHpS	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	375-92-8	
PFMBA	ND	ng/L	6.3	1	05/18/25 09:15	05/20/25 01:11	863090-89-5	
PFMPA	ND	ng/L	6.3	1	05/18/25 09:15	05/20/25 01:11	377-73-1	
PFNS	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	68259-12-1	
PFOSA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	754-91-6	
PFPeA	**24.6**	ng/L	6.3	1	05/18/25 09:15	05/20/25 01:11	2706-90-3	
PFPeS	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	2706-91-4	
PFDoA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	307-55-1	
PFHpA	**4.4**	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	375-85-9	
PFHxS	**7.2**	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	355-46-4	
PFNA	**6.8**	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	375-95-1	
PFOS	**27.5**	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	1763-23-1	
PFOA	**27.3**	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	335-67-1	
PFTeDA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	376-06-7	
PFTrDA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	72629-94-8	
PFUnA	ND	ng/L	3.2	1	05/18/25 09:15	05/20/25 01:11	2058-94-8	
Surrogates								
13C2-PFDoA (S)	76	%.	10-130	1	05/18/25 09:15	05/20/25 01:11		
13C3HFPO-DA (S)	97	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
13C3-PFBS (S)	95	%.	40-135	1	05/18/25 09:15	05/20/25 01:11		
13C3-PFHxS (S)	90	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
13C4-PFBA (S)	88	%.	5-130	1	05/18/25 09:15	05/20/25 01:11		
13C4-PFHpA (S)	90	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
13C5-PFHxA (S)	91	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
13C5-PFPeA (S)	95	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
13C6-PFDA (S)	83	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
13C8-PFOA (S)	85	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
13C8-PFOS (S)	84	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
13C8-PFOSA (S)	77	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
13C9-PFNA (S)	89	%.	40-130	1	05/18/25 09:15	05/20/25 01:11		
d3-MeFOSAA (S)	82	%.	40-170	1	05/18/25 09:15	05/20/25 01:11		
d3-NMeFOSA (S)	58	%.	10-130	1	05/18/25 09:15	05/20/25 01:11		
d5-EtFOSAA (S)	73	%.	25-135	1	05/18/25 09:15	05/20/25 01:11		
d5-NEtFOSA (S)	58	%.	10-130	1	05/18/25 09:15	05/20/25 01:11		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DWS-80 **Lab ID: 10732390002** Collected: 04/23/25 14:40 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 252.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	63	%.	10-130	1	05/18/25 09:15	05/20/25 01:11		
d9-NEtFOSE (S)	63	%.	10-130	1	05/18/25 09:15	05/20/25 01:11		
13C2-PFTA (S)	66	%.	10-130	1	05/18/25 09:15	05/20/25 01:11		
13C7-PFUdA (S)	86	%.	30-130	1	05/18/25 09:15	05/20/25 01:11		
13C24:2FTS (S)	144	%.	40-200	1	05/18/25 09:15	05/20/25 01:11		
13C26:2FTS (S)	108	%.	40-200	1	05/18/25 09:15	05/20/25 01:11		
13C28:2FTS (S)	119	%.	40-300	1	05/18/25 09:15	05/20/25 01:11		
13C3-PFPrA (S)	47	%.	5-130	1	05/18/25 09:15	05/20/25 01:11		

Sample: DWS-81 **Lab ID: 10732390003** Collected: 04/23/25 15:25 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 523.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:20	763051-92-9	
3:3 FTCA	ND	ng/L	7.6	1	05/18/25 09:15	05/20/25 01:20	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:20	757124-72-4	
5:3 FTCA	ND	ng/L	38.2	1	05/18/25 09:15	05/20/25 01:20	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:20	27619-97-2	
7:3 FTCA	ND	ng/L	38.2	1	05/18/25 09:15	05/20/25 01:20	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:20	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:20	756426-58-1	
ADONA	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:20	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:20	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	4151-50-2	
NEtFOSE	ND	ng/L	15.3	1	05/18/25 09:15	05/20/25 01:20	1691-99-2	
NFDHA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:20	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	31506-32-8	
NMeFOSE	ND	ng/L	15.3	1	05/18/25 09:15	05/20/25 01:20	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	375-73-5	
PFDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	307-24-4	
PFBA	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:20	375-22-4	
PFDS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:20	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:20	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DWS-81 **Lab ID: 10732390003** Collected: 04/23/25 15:25 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 523.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:20	377-73-1	
PFNS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:20	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	355-46-4	
PFNA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	375-95-1	
PFOS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:20	2058-94-8	
Surrogates								
13C2-PFDoA (S)	74	%.	10-130	1	05/18/25 09:15	05/20/25 01:20		
13C3HFPO-DA (S)	93	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
13C3-PFBS (S)	89	%.	40-135	1	05/18/25 09:15	05/20/25 01:20		
13C3-PFHxS (S)	89	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
13C4-PFBA (S)	87	%.	5-130	1	05/18/25 09:15	05/20/25 01:20		
13C4-PFHpA (S)	88	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
13C5-PFHxA (S)	86	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
13C5-PFPeA (S)	91	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
13C6-PFDA (S)	85	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
13C8-PFOA (S)	83	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
13C8-PFOS (S)	86	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
13C8-PFOSA (S)	81	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
13C9-PFNA (S)	89	%.	40-130	1	05/18/25 09:15	05/20/25 01:20		
d3-MeFOSAA (S)	93	%.	40-170	1	05/18/25 09:15	05/20/25 01:20		
d3-NMeFOSA (S)	54	%.	10-130	1	05/18/25 09:15	05/20/25 01:20		
d5-EtFOSAA (S)	80	%.	25-135	1	05/18/25 09:15	05/20/25 01:20		
d5-NEtFOSA (S)	54	%.	10-130	1	05/18/25 09:15	05/20/25 01:20		
d7-NMeFOSE (S)	62	%.	10-130	1	05/18/25 09:15	05/20/25 01:20		
d9-NEtFOSE (S)	61	%.	10-130	1	05/18/25 09:15	05/20/25 01:20		
13C2-PFTA (S)	68	%.	10-130	1	05/18/25 09:15	05/20/25 01:20		
13C7-PFUdA (S)	85	%.	30-130	1	05/18/25 09:15	05/20/25 01:20		
13C24:2FTS (S)	122	%.	40-200	1	05/18/25 09:15	05/20/25 01:20		
13C26:2FTS (S)	111	%.	40-200	1	05/18/25 09:15	05/20/25 01:20		
13C28:2FTS (S)	119	%.	40-300	1	05/18/25 09:15	05/20/25 01:20		
13C3-PFPrA (S)	29	%.	5-130	1	05/18/25 09:15	05/20/25 01:20		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DWS-82 **Lab ID: 10732390004** Collected: 04/23/25 16:00 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:29	763051-92-9	
3:3 FTCA	ND	ng/L	7.5	1	05/18/25 09:15	05/20/25 01:29	356-02-5	
4:2 FTS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:29	757124-72-4	
5:3 FTCA	ND	ng/L	37.7	1	05/18/25 09:15	05/20/25 01:29	914637-49-3	
6:2 FTS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:29	27619-97-2	
7:3 FTCA	ND	ng/L	37.7	1	05/18/25 09:15	05/20/25 01:29	812-70-4	
8:2 FTS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:29	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:29	756426-58-1	
ADONA	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:29	919005-14-4	
HFPO-DA	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:29	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	4151-50-2	
NEtFOSE	ND	ng/L	15.1	1	05/18/25 09:15	05/20/25 01:29	1691-99-2	
NFDHA	ND	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:29	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	31506-32-8	
NMeFOSE	ND	ng/L	15.1	1	05/18/25 09:15	05/20/25 01:29	24448-09-7	
PFBS	**5.7**	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	375-73-5	
PFDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	335-76-2	
PFHxA	**11.8**	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	307-24-4	
PFBA	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:29	375-22-4	
PFDS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:29	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:29	863090-89-5	
PFMPA	ND	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:29	377-73-1	
PFNS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	754-91-6	
PFPeA	**13.3**	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:29	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	307-55-1	
PFHpA	**2.4**	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	375-85-9	
PFHxS	**5.9**	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	355-46-4	
PFNA	**1.6**	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	375-95-1	
PFOS	**8.4**	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	1763-23-1	
PFOA	**13.1**	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:29	2058-94-8	
Surrogates								
13C2-PFDoA (S)	71	%.	10-130	1	05/18/25 09:15	05/20/25 01:29		
13C3HFPO-DA (S)	95	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		
13C3-PFBS (S)	94	%.	40-135	1	05/18/25 09:15	05/20/25 01:29		
13C3-PFHxS (S)	90	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DWS-82 **Lab ID: 10732390004** Collected: 04/23/25 16:00 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	88	%.	5-130	1	05/18/25 09:15	05/20/25 01:29		
13C4-PFHpA (S)	92	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		
13C5-PFHxA (S)	90	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		
13C5-PFPeA (S)	92	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		
13C6-PFDA (S)	84	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		
13C8-PFOA (S)	81	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		
13C8-PFOS (S)	84	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		
13C8-PFOSA (S)	79	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		
13C9-PFNA (S)	87	%.	40-130	1	05/18/25 09:15	05/20/25 01:29		
d3-MeFOSAA (S)	85	%.	40-170	1	05/18/25 09:15	05/20/25 01:29		
d3-NMeFOSA (S)	51	%.	10-130	1	05/18/25 09:15	05/20/25 01:29		
d5-EtFOSAA (S)	73	%.	25-135	1	05/18/25 09:15	05/20/25 01:29		
d5-NEtFOSA (S)	48	%.	10-130	1	05/18/25 09:15	05/20/25 01:29		
d7-NMeFOSE (S)	55	%.	10-130	1	05/18/25 09:15	05/20/25 01:29		
d9-NEtFOSE (S)	54	%.	10-130	1	05/18/25 09:15	05/20/25 01:29		
13C2-PFTA (S)	61	%.	10-130	1	05/18/25 09:15	05/20/25 01:29		
13C7-PFUdA (S)	83	%.	30-130	1	05/18/25 09:15	05/20/25 01:29		
13C24:2FTS (S)	130	%.	40-200	1	05/18/25 09:15	05/20/25 01:29		
13C26:2FTS (S)	120	%.	40-200	1	05/18/25 09:15	05/20/25 01:29		
13C28:2FTS (S)	117	%.	40-300	1	05/18/25 09:15	05/20/25 01:29		
13C3-PFPrA (S)	13	%.	5-130	1	05/18/25 09:15	05/20/25 01:29		

Sample: DUP-03 **Lab ID: 10732390005** Collected: 04/23/25 16:50 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 258.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	12.4	1	05/18/25 09:15	05/20/25 01:38	763051-92-9	
3:3 FTCA	ND	ng/L	15.5	1	05/18/25 09:15	05/20/25 01:38	356-02-5	
4:2 FTS	ND	ng/L	12.4	1	05/18/25 09:15	05/20/25 01:38	757124-72-4	
5:3 FTCA	ND	ng/L	77.3	1	05/18/25 09:15	05/20/25 01:38	914637-49-3	
6:2 FTS	ND	ng/L	12.4	1	05/18/25 09:15	05/20/25 01:38	27619-97-2	
7:3 FTCA	ND	ng/L	77.3	1	05/18/25 09:15	05/20/25 01:38	812-70-4	
8:2 FTS	ND	ng/L	12.4	1	05/18/25 09:15	05/20/25 01:38	39108-34-4	
9Cl-PF3ONS	ND	ng/L	12.4	1	05/18/25 09:15	05/20/25 01:38	756426-58-1	
ADONA	ND	ng/L	12.4	1	05/18/25 09:15	05/20/25 01:38	919005-14-4	
HFPO-DA	ND	ng/L	12.4	1	05/18/25 09:15	05/20/25 01:38	13252-13-6	
NEtFOSAA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	2991-50-6	
NEtFOSA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	4151-50-2	
NEtFOSE	ND	ng/L	30.9	1	05/18/25 09:15	05/20/25 01:38	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DUP-03 **Lab ID: 10732390005** Collected: 04/23/25 16:50 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 258.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:38	151772-58-6	
NMeFOSAA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	2355-31-9	
NMeFOSA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	31506-32-8	
NMeFOSE	ND	ng/L	30.9	1	05/18/25 09:15	05/20/25 01:38	24448-09-7	
PFBS	**16.1**	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	375-73-5	
PFDA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	335-76-2	
PFHxA	**22.1**	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	307-24-4	
PFBA	ND	ng/L	12.4	1	05/18/25 09:15	05/20/25 01:38	375-22-4	
PFDS	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	335-77-3	
PFDoS	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	79780-39-5	
PFEESA	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:38	113507-82-7	
PFHpS	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	375-92-8	
PFMBA	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:38	863090-89-5	
PFMPA	ND	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:38	377-73-1	
PFNS	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	68259-12-1	
PFOSA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	754-91-6	
PFPeA	**25.9**	ng/L	6.2	1	05/18/25 09:15	05/20/25 01:38	2706-90-3	
PFPeS	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	2706-91-4	
PFDoA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	307-55-1	
PFHpA	**4.7**	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	375-85-9	
PFHxS	**7.4**	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	355-46-4	
PFNA	**7.5**	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	375-95-1	
PFOS	**26.8**	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	1763-23-1	
PFOA	**28.9**	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	335-67-1	
PFTeDA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	376-06-7	
PFTrDA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	72629-94-8	
PFUnA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:38	2058-94-8	
Surrogates								
13C2-PFDoA (S)	68	%.	10-130	1	05/18/25 09:15	05/20/25 01:38		
13C3HFPO-DA (S)	81	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
13C3-PFBS (S)	81	%.	40-135	1	05/18/25 09:15	05/20/25 01:38		
13C3-PFHxS (S)	77	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
13C4-PFBA (S)	80	%.	5-130	1	05/18/25 09:15	05/20/25 01:38		
13C4-PFHpA (S)	77	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
13C5-PFHxA (S)	77	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
13C5-PFPeA (S)	85	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
13C6-PFDA (S)	73	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
13C8-PFOA (S)	76	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
13C8-PFOS (S)	73	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
13C8-PFOSA (S)	66	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
13C9-PFNA (S)	74	%.	40-130	1	05/18/25 09:15	05/20/25 01:38		
d3-MeFOSAA (S)	58	%.	40-170	1	05/18/25 09:15	05/20/25 01:38		
d3-NMeFOSA (S)	48	%.	10-130	1	05/18/25 09:15	05/20/25 01:38		
d5-EtFOSAA (S)	50	%.	25-135	1	05/18/25 09:15	05/20/25 01:38		
d5-NEtFOSA (S)	47	%.	10-130	1	05/18/25 09:15	05/20/25 01:38		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DUP-03 **Lab ID: 10732390005** Collected: 04/23/25 16:50 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 258.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	55	%.	10-130	1	05/18/25 09:15	05/20/25 01:38		
d9-NEtFOSE (S)	54	%.	10-130	1	05/18/25 09:15	05/20/25 01:38		
13C2-PFTA (S)	58	%.	10-130	1	05/18/25 09:15	05/20/25 01:38		
13C7-PFUdA (S)	74	%.	30-130	1	05/18/25 09:15	05/20/25 01:38		
13C24:2FTS (S)	118	%.	40-200	1	05/18/25 09:15	05/20/25 01:38		
13C26:2FTS (S)	89	%.	40-200	1	05/18/25 09:15	05/20/25 01:38		
13C28:2FTS (S)	94	%.	40-300	1	05/18/25 09:15	05/20/25 01:38		
13C3-PFPrA (S)	47	%.	5-130	1	05/18/25 09:15	05/20/25 01:38		

Sample: DWS-83 **Lab ID: 10732390006** Collected: 04/23/25 17:25 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 521.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:48	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	1	05/18/25 09:15	05/20/25 01:48	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:48	757124-72-4	
5:3 FTCA	ND	ng/L	38.3	1	05/18/25 09:15	05/20/25 01:48	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:48	27619-97-2	
7:3 FTCA	ND	ng/L	38.3	1	05/18/25 09:15	05/20/25 01:48	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:48	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:48	756426-58-1	
ADONA	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:48	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:48	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	4151-50-2	
NEtFOSE	ND	ng/L	15.3	1	05/18/25 09:15	05/20/25 01:48	1691-99-2	
NFDHA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:48	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	31506-32-8	
NMeFOSE	ND	ng/L	15.3	1	05/18/25 09:15	05/20/25 01:48	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	375-73-5	
PFDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	307-24-4	
PFBA	ND	ng/L	6.1	1	05/18/25 09:15	05/20/25 01:48	375-22-4	
PFDS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:48	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:48	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DWS-83 **Lab ID: 10732390006** Collected: 04/23/25 17:25 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 521.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:48	377-73-1	
PFNS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/18/25 09:15	05/20/25 01:48	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	355-46-4	
PFNA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	375-95-1	
PFOS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:48	2058-94-8	
Surrogates								
13C2-PFDoA (S)	75	%.	10-130	1	05/18/25 09:15	05/20/25 01:48		
13C3HFPO-DA (S)	90	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
13C3-PFBS (S)	86	%.	40-135	1	05/18/25 09:15	05/20/25 01:48		
13C3-PFHxS (S)	85	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
13C4-PFBA (S)	84	%.	5-130	1	05/18/25 09:15	05/20/25 01:48		
13C4-PFHpA (S)	85	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
13C5-PFHxA (S)	84	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
13C5-PFPeA (S)	88	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
13C6-PFDA (S)	82	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
13C8-PFOA (S)	79	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
13C8-PFOS (S)	75	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
13C8-PFOSA (S)	74	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
13C9-PFNA (S)	83	%.	40-130	1	05/18/25 09:15	05/20/25 01:48		
d3-MeFOSAA (S)	79	%.	40-170	1	05/18/25 09:15	05/20/25 01:48		
d3-NMeFOSA (S)	58	%.	10-130	1	05/18/25 09:15	05/20/25 01:48		
d5-EtFOSAA (S)	69	%.	25-135	1	05/18/25 09:15	05/20/25 01:48		
d5-NEtFOSA (S)	57	%.	10-130	1	05/18/25 09:15	05/20/25 01:48		
d7-NMeFOSE (S)	62	%.	10-130	1	05/18/25 09:15	05/20/25 01:48		
d9-NEtFOSE (S)	61	%.	10-130	1	05/18/25 09:15	05/20/25 01:48		
13C2-PFTA (S)	66	%.	10-130	1	05/18/25 09:15	05/20/25 01:48		
13C7-PFUdA (S)	81	%.	30-130	1	05/18/25 09:15	05/20/25 01:48		
13C24:2FTS (S)	106	%.	40-200	1	05/18/25 09:15	05/20/25 01:48		
13C26:2FTS (S)	103	%.	40-200	1	05/18/25 09:15	05/20/25 01:48		
13C28:2FTS (S)	108	%.	40-300	1	05/18/25 09:15	05/20/25 01:48		
13C3-PFPrA (S)	28	%.	5-130	1	05/18/25 09:15	05/20/25 01:48		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DWS-84 **Lab ID: 10732390007** Collected: 04/23/25 18:10 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.5 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:57	763051-92-9	
3:3 FTCA	ND	ng/L	7.5	1	05/18/25 09:15	05/20/25 01:57	356-02-5	
4:2 FTS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:57	757124-72-4	
5:3 FTCA	ND	ng/L	37.7	1	05/18/25 09:15	05/20/25 01:57	914637-49-3	
6:2 FTS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:57	27619-97-2	
7:3 FTCA	ND	ng/L	37.7	1	05/18/25 09:15	05/20/25 01:57	812-70-4	
8:2 FTS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:57	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:57	756426-58-1	
ADONA	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:57	919005-14-4	
HFPO-DA	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:57	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	4151-50-2	
NEtFOSE	ND	ng/L	15.1	1	05/18/25 09:15	05/20/25 01:57	1691-99-2	
NFDHA	ND	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:57	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	31506-32-8	
NMeFOSE	ND	ng/L	15.1	1	05/18/25 09:15	05/20/25 01:57	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	375-73-5	
PFDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	307-24-4	
PFBA	ND	ng/L	6.0	1	05/18/25 09:15	05/20/25 01:57	375-22-4	
PFDS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:57	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:57	863090-89-5	
PFMPA	ND	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:57	377-73-1	
PFNS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/18/25 09:15	05/20/25 01:57	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	355-46-4	
PFNA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	375-95-1	
PFOS	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/18/25 09:15	05/20/25 01:57	2058-94-8	
Surrogates								
13C2-PFDoA (S)	70	%.	10-130	1	05/18/25 09:15	05/20/25 01:57		
13C3HFPO-DA (S)	84	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		
13C3-PFBS (S)	78	%.	40-135	1	05/18/25 09:15	05/20/25 01:57		
13C3-PFHxS (S)	77	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1851734 WG2500012
Pace Project No.: 10732390

Sample: DWS-84 **Lab ID: 10732390007** Collected: 04/23/25 18:10 Received: 04/26/25 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.5 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	78	%.	5-130	1	05/18/25 09:15	05/20/25 01:57		
13C4-PFHpA (S)	78	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		
13C5-PFHxA (S)	78	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		
13C5-PFPeA (S)	82	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		
13C6-PFDA (S)	74	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		
13C8-PFOA (S)	77	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		
13C8-PFOS (S)	77	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		
13C8-PFOSA (S)	71	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		
13C9-PFNA (S)	76	%.	40-130	1	05/18/25 09:15	05/20/25 01:57		
d3-MeFOSAA (S)	81	%.	40-170	1	05/18/25 09:15	05/20/25 01:57		
d3-NMeFOSA (S)	53	%.	10-130	1	05/18/25 09:15	05/20/25 01:57		
d5-EtFOSAA (S)	75	%.	25-135	1	05/18/25 09:15	05/20/25 01:57		
d5-NEtFOSA (S)	48	%.	10-130	1	05/18/25 09:15	05/20/25 01:57		
d7-NMeFOSE (S)	55	%.	10-130	1	05/18/25 09:15	05/20/25 01:57		
d9-NEtFOSE (S)	54	%.	10-130	1	05/18/25 09:15	05/20/25 01:57		
13C2-PFTA (S)	61	%.	10-130	1	05/18/25 09:15	05/20/25 01:57		
13C7-PFUdA (S)	74	%.	30-130	1	05/18/25 09:15	05/20/25 01:57		
13C24:2FTS (S)	108	%.	40-200	1	05/18/25 09:15	05/20/25 01:57		
13C26:2FTS (S)	101	%.	40-200	1	05/18/25 09:15	05/20/25 01:57		
13C28:2FTS (S)	100	%.	40-300	1	05/18/25 09:15	05/20/25 01:57		
13C3-PFPrA (S)	30	%.	5-130	1	05/18/25 09:15	05/20/25 01:57		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1851734 WG2500012
Pace Project No.: 10732390

QC Batch: 1006873
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10732390001, 10732390002, 10732390003, 10732390004, 10732390005, 10732390006, 10732390007

METHOD BLANK: 5249169
Matrix: Water
Associated Lab Samples: 10732390001, 10732390002, 10732390003, 10732390004, 10732390005, 10732390006, 10732390007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	05/19/25 22:45	
3:3 FTCA	ng/L	ND	8.0	05/19/25 22:45	
4:2 FTS	ng/L	ND	6.4	05/19/25 22:45	
5:3 FTCA	ng/L	ND	40.0	05/19/25 22:45	
6:2 FTS	ng/L	ND	6.4	05/19/25 22:45	
7:3 FTCA	ng/L	ND	40.0	05/19/25 22:45	
8:2 FTS	ng/L	ND	6.4	05/19/25 22:45	
9Cl-PF3ONS	ng/L	ND	6.4	05/19/25 22:45	
ADONA	ng/L	ND	6.4	05/19/25 22:45	
HFPO-DA	ng/L	ND	6.4	05/19/25 22:45	
NEtFOSA	ng/L	ND	1.6	05/19/25 22:45	
NEtFOSAA	ng/L	ND	1.6	05/19/25 22:45	
NEtFOSE	ng/L	ND	16.0	05/19/25 22:45	
NFDHA	ng/L	ND	3.2	05/19/25 22:45	
NMeFOSA	ng/L	ND	1.6	05/19/25 22:45	
NMeFOSAA	ng/L	ND	1.6	05/19/25 22:45	
NMeFOSE	ng/L	ND	16.0	05/19/25 22:45	
PFBA	ng/L	ND	6.4	05/19/25 22:45	
PFBS	ng/L	ND	1.6	05/19/25 22:45	
PFDA	ng/L	ND	1.6	05/19/25 22:45	
PFDoA	ng/L	ND	1.6	05/19/25 22:45	
PFDoS	ng/L	ND	1.6	05/19/25 22:45	
PFDS	ng/L	ND	1.6	05/19/25 22:45	
PFEESA	ng/L	ND	3.2	05/19/25 22:45	
PFHpA	ng/L	ND	1.6	05/19/25 22:45	
PFHpS	ng/L	ND	1.6	05/19/25 22:45	
PFHxA	ng/L	ND	1.6	05/19/25 22:45	
PFHxS	ng/L	ND	1.6	05/19/25 22:45	
PFMBA	ng/L	ND	3.2	05/19/25 22:45	
PFMPA	ng/L	ND	3.2	05/19/25 22:45	
PFNA	ng/L	ND	1.6	05/19/25 22:45	
PFNS	ng/L	ND	1.6	05/19/25 22:45	
PFOA	ng/L	ND	1.6	05/19/25 22:45	
PFOS	ng/L	ND	1.6	05/19/25 22:45	
PFOSA	ng/L	ND	1.6	05/19/25 22:45	
PFPeA	ng/L	ND	3.2	05/19/25 22:45	
PFPeS	ng/L	ND	1.6	05/19/25 22:45	
PFTeDA	ng/L	ND	1.6	05/19/25 22:45	
PFTrDA	ng/L	ND	1.6	05/19/25 22:45	
PFUnA	ng/L	ND	1.6	05/19/25 22:45	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1851734 WG2500012
Pace Project No.: 10732390

METHOD BLANK: 5249169 Matrix: Water
Associated Lab Samples: 10732390001, 10732390002, 10732390003, 10732390004, 10732390005, 10732390006, 10732390007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	59	10-130	05/19/25 22:45	
13C2-PFTA (S)	%.	51	10-130	05/19/25 22:45	
13C24:2FTS (S)	%.	124	40-200	05/19/25 22:45	
13C26:2FTS (S)	%.	113	40-200	05/19/25 22:45	
13C28:2FTS (S)	%.	104	40-300	05/19/25 22:45	
13C3-PFBS (S)	%.	82	40-135	05/19/25 22:45	
13C3-PFHxS (S)	%.	80	40-130	05/19/25 22:45	
13C3-PFPrA (S)	%.	87	5-130	05/19/25 22:45	
13C3HFPO-DA (S)	%.	84	40-130	05/19/25 22:45	
13C4-PFBA (S)	%.	80	5-130	05/19/25 22:45	
13C4-PFHpA (S)	%.	81	40-130	05/19/25 22:45	
13C5-PFHxA (S)	%.	77	40-130	05/19/25 22:45	
13C5-PFPeA (S)	%.	84	40-130	05/19/25 22:45	
13C6-PFDA (S)	%.	74	40-130	05/19/25 22:45	
13C7-PFUdA (S)	%.	68	30-130	05/19/25 22:45	
13C8-PFOA (S)	%.	74	40-130	05/19/25 22:45	
13C8-PFOS (S)	%.	74	40-130	05/19/25 22:45	
13C8-PFOSA (S)	%.	64	40-130	05/19/25 22:45	
13C9-PFNA (S)	%.	77	40-130	05/19/25 22:45	
d3-MeFOSAA (S)	%.	81	40-170	05/19/25 22:45	
d3-NMeFOSA (S)	%.	53	10-130	05/19/25 22:45	
d5-EtFOSAA (S)	%.	71	25-135	05/19/25 22:45	
d5-NEtFOSA (S)	%.	53	10-130	05/19/25 22:45	
d7-NMeFOSE (S)	%.	58	10-130	05/19/25 22:45	
d9-NEtFOSE (S)	%.	56	10-130	05/19/25 22:45	

LABORATORY CONTROL SAMPLE: 5249170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	70.6	94	55-160	
3:3 FTCA	ng/L	99.2	87.0	88	65-130	
4:2 FTS	ng/L	75.2	75.2	100	70-145	
5:3 FTCA	ng/L	496	473	95	70-135	
6:2 FTS	ng/L	76.8	79.7	104	65-155	
7:3 FTCA	ng/L	496	465	94	50-145	
8:2 FTS	ng/L	76.8	77.7	101	60-150	
9Cl-PF3ONS	ng/L	75.2	80.2	107	70-155	
ADONA	ng/L	75.2	73.5	98	65-145	
HFPO-DA	ng/L	80	79.6	100	70-140	
NEtFOSA	ng/L	19.2	19.5	102	65-145	
NEtFOSAA	ng/L	19.2	19.4	101	70-145	
NEtFOSE	ng/L	192	200	104	70-135	
NFDHA	ng/L	40	42.8	107	50-150	
NMeFOSA	ng/L	19.2	19.5	101	60-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1851734 WG2500012
Pace Project No.: 10732390

LABORATORY CONTROL SAMPLE: 5249170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ng/L	19.2	19.3	101	50-140	
NMeFOSE	ng/L	192	199	104	70-145	
PFBA	ng/L	80	78.6	98	70-140	
PFBS	ng/L	17.6	16.8	95	60-145	
PFDA	ng/L	19.2	18.4	96	70-140	
PFDoA	ng/L	19.2	19.5	101	70-140	
PFDoS	ng/L	19.2	15.5	81	50-145	
PFDS	ng/L	19.2	16.7	87	60-145	
PFEESA	ng/L	35.2	34.8	99	70-140	
PFHpA	ng/L	19.2	18.9	99	70-150	
PFHpS	ng/L	19.2	19.0	99	70-150	
PFHxA	ng/L	19.2	19.2	100	70-145	
PFHxS	ng/L	17.6	18.4	105	65-145	
PFMBA	ng/L	40	38.7	97	60-150	
PFMPA	ng/L	40	37.7	94	55-140	
PFNA	ng/L	19.2	19.6	102	70-150	
PFNS	ng/L	19.2	17.9	93	65-145	
PFOA	ng/L	19.2	19.8	103	70-150	
PFOS	ng/L	19.2	17.8	93	55-150	
PFOSA	ng/L	19.2	19.7	103	70-145	
PFPeA	ng/L	40	39.0	97	65-135	
PFPeS	ng/L	19.2	19.1	100	65-140	
PFTeDA	ng/L	19.2	20.9	109	60-140	
PFTrDA	ng/L	19.2	18.8	98	65-140	
PFUnA	ng/L	19.2	19.0	99	70-145	
13C2-PFDoA (S)	%.			69	10-130	
13C2-PFTA (S)	%.			58	10-130	
13C24:2FTS (S)	%.			122	40-200	
13C26:2FTS (S)	%.			113	40-200	
13C28:2FTS (S)	%.			112	40-300	
13C3-PFBS (S)	%.			89	40-135	
13C3-PFHxS (S)	%.			83	40-130	
13C3-PFPrA (S)	%.			91	5-130	
13C3HFPO-DA (S)	%.			85	40-130	
13C4-PFBA (S)	%.			83	5-130	
13C4-PFHpA (S)	%.			86	40-130	
13C5-PFHxA (S)	%.			82	40-130	
13C5-PFPeA (S)	%.			84	40-130	
13C6-PFDA (S)	%.			84	40-130	
13C7-PFUdA (S)	%.			79	30-130	
13C8-PFOA (S)	%.			80	40-130	
13C8-PFOS (S)	%.			78	40-130	
13C8-PFOSA (S)	%.			71	40-130	
13C9-PFNA (S)	%.			83	40-130	
d3-MeFOSAA (S)	%.			90	40-170	
d3-NMeFOSA (S)	%.			52	10-130	
d5-EtFOSAA (S)	%.			80	25-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1851734 WG2500012
Pace Project No.: 10732390

LABORATORY CONTROL SAMPLE: 5249170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			51	10-130	
d7-NMeFOSE (S)	%.			59	10-130	
d9-NEtFOSE (S)	%.			58	10-130	

LABORATORY CONTROL SAMPLE: 5249171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	11.5	96	55-160	
3:3 FTCA	ng/L	15.9	13.1	82	65-130	
4:2 FTS	ng/L	12	11.8	98	70-145	
5:3 FTCA	ng/L	79.4	73.4	92	70-135	
6:2 FTS	ng/L	12.3	12.8	104	65-155	
7:3 FTCA	ng/L	79.4	71.2	90	50-145	
8:2 FTS	ng/L	12.3	13.2	107	60-150	
9Cl-PF3ONS	ng/L	12	12.7	106	70-155	
ADONA	ng/L	12	11.6	96	65-145	
HFPO-DA	ng/L	12.8	11.9	93	70-140	
NEtFOSA	ng/L	3.1	3.0	99	65-145	
NEtFOSAA	ng/L	3.1	3.1	100	70-145	
NEtFOSE	ng/L	30.7	30.5	99	70-135	
NFDHA	ng/L	6.4	6.7	105	50-150	
NMeFOSA	ng/L	3.1	3.2	103	60-150	
NMeFOSAA	ng/L	3.1	3.0	97	50-140	
NMeFOSE	ng/L	30.7	30.7	100	70-145	
PFBA	ng/L	12.8	12.4	97	70-140	
PFBS	ng/L	2.8	2.8	101	60-145	
PFDA	ng/L	3.1	3.0	98	70-140	
PFDoA	ng/L	3.1	3.1	100	70-140	
PFDoS	ng/L	3.1	2.5	81	50-145	
PFDS	ng/L	3.1	2.9	94	60-145	
PFEESA	ng/L	5.6	5.3	94	70-140	
PFHpA	ng/L	3.1	2.8	92	70-150	
PFHpS	ng/L	3.1	3.2	105	70-150	
PFHxA	ng/L	3.1	3.0	98	70-145	
PFHxS	ng/L	2.8	3.0	107	65-145	
PFMBA	ng/L	6.4	5.9	93	60-150	
PFMPA	ng/L	6.4	5.8	91	55-140	
PFNA	ng/L	3.1	2.9	96	70-150	
PFNS	ng/L	3.1	3.0	99	65-145	
PFOA	ng/L	3.1	3.2	103	70-150	
PFOS	ng/L	3.1	3.0	98	55-150	
PFOSA	ng/L	3.1	3.2	106	70-145	
PFPeA	ng/L	6.4	5.9	93	65-135	
PFPeS	ng/L	3.1	2.8	90	65-140	
PFTeDA	ng/L	3.1	3.1	102	60-140	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1851734 WG2500012
Pace Project No.: 10732390

LABORATORY CONTROL SAMPLE: 5249171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ng/L	3.1	3.0	99	65-140	
PFUnA	ng/L	3.1	2.9	96	70-145	
13C2-PFDoA (S)	%.			76	10-130	
13C2-PFTA (S)	%.			62	10-130	
13C24:2FTS (S)	%.			130	40-200	
13C26:2FTS (S)	%.			120	40-200	
13C28:2FTS (S)	%.			110	40-300	
13C3-PFBS (S)	%.			87	40-135	
13C3-PFHxS (S)	%.			85	40-130	
13C3-PFPrA (S)	%.			83	5-130	
13C3HFPO-DA (S)	%.			92	40-130	
13C4-PFBA (S)	%.			85	5-130	
13C4-PFHpA (S)	%.			88	40-130	
13C5-PFHxA (S)	%.			86	40-130	
13C5-PFPeA (S)	%.			88	40-130	
13C6-PFDA (S)	%.			87	40-130	
13C7-PFUdA (S)	%.			82	30-130	
13C8-PFOA (S)	%.			78	40-130	
13C8-PFOS (S)	%.			77	40-130	
13C8-PFOSA (S)	%.			72	40-130	
13C9-PFNA (S)	%.			86	40-130	
d3-MeFOSAA (S)	%.			97	40-170	
d3-NMeFOSA (S)	%.			58	10-130	
d5-EtFOSAA (S)	%.			87	25-135	
d5-NEtFOSA (S)	%.			56	10-130	
d7-NMeFOSE (S)	%.			67	10-130	
d9-NEtFOSE (S)	%.			65	10-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5249172 5249173

Parameter	Units	10732389003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
11Cl-PF3OUdS	ng/L	ND	148	150	136	139	92	93	55-160	2	30	
3:3 FTCA	ng/L	ND	196	197	193	202	99	103	65-130	5	30	
4:2 FTS	ng/L	ND	148	150	151	159	102	106	70-145	5	30	
5:3 FTCA	ng/L	ND	979	986	1030	1100	105	111	70-135	7	30	
6:2 FTS	ng/L	ND	152	153	152	166	100	109	65-155	9	30	
7:3 FTCA	ng/L	ND	979	986	974	1060	99	108	50-145	9	30	
8:2 FTS	ng/L	ND	152	153	152	164	100	107	60-150	8	30	
9Cl-PF3ONS	ng/L	ND	148	150	152	157	102	105	70-155	4	30	
ADONA	ng/L	ND	148	150	154	157	104	105	65-145	1	30	
HFPO-DA	ng/L	ND	158	159	156	160	99	101	70-140	2	30	
NEtFOSA	ng/L	ND	37.9	38.2	38.4	41.1	101	108	65-145	7	30	
NEtFOSAA	ng/L	ND	37.9	38.2	41.4	44.2	109	116	70-145	7	30	
NEtFOSE	ng/L	ND	379	382	393	418	104	109	70-135	6	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1851734 WG2500012
Pace Project No.: 10732390

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5249172 5249173

Parameter	Units	10732389003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
NFDHA	ng/L	ND	79	79.5	73.9	78.1	94	98	50-150	6	30	
NMeFOSA	ng/L	ND	37.9	38.2	39.9	42.5	105	111	60-150	6	30	
NMeFOSAA	ng/L	ND	37.9	38.2	37.5	39.4	99	103	50-140	5	30	
NMeFOSE	ng/L	ND	379	382	390	417	103	109	70-145	7	30	
PFBA	ng/L	ND	158	159	172	175	101	102	70-140	2	30	
PFBS	ng/L	ND	34.7	35	35.6	37.8	97	103	60-145	6	30	
PFDA	ng/L	ND	37.9	38.2	37.6	40.2	99	105	70-140	7	30	
PFDoA	ng/L	ND	37.9	38.2	38.9	40.8	103	107	70-140	5	30	
PFDoS	ng/L	ND	37.9	38.2	32.7	33.3	86	87	50-145	2	30	
PFDS	ng/L	ND	37.9	38.2	32.8	34.0	86	89	60-145	4	30	
PFEESA	ng/L	ND	69.5	70	77.1	81.5	111	116	70-140	6	30	
PFHpA	ng/L	ND	37.9	38.2	39.2	40.8	101	104	70-150	4	30	
PFHpS	ng/L	ND	37.9	38.2	38.1	40.2	101	105	70-150	5	30	
PFHxA	ng/L	ND	37.9	38.2	39.6	42.5	97	104	70-145	7	30	
PFHxS	ng/L	ND	34.7	35	35.3	36.9	99	103	65-145	4	30	
PFMBA	ng/L	ND	79	79.5	75.8	80.6	96	101	60-150	6	30	
PFMPA	ng/L	ND	79	79.5	103	101	130	127	55-140	2	30	
PFNA	ng/L	ND	37.9	38.2	39.2	40.9	101	105	70-150	4	30	
PFNS	ng/L	ND	37.9	38.2	34.2	34.5	90	90	65-145	1	30	
PFOA	ng/L	3.1	37.9	38.2	42.0	43.2	102	105	70-150	3	30	
PFOS	ng/L	3.6	37.9	38.2	37.8	39.6	90	94	55-150	5	30	
PFOSA	ng/L	ND	37.9	38.2	39.5	41.9	104	110	70-145	6	30	
PFPeA	ng/L	ND	79	79.5	73.4	80.2	88	96	65-135	9	30	
PFPeS	ng/L	ND	37.9	38.2	36.3	37.5	96	98	65-140	3	30	
PFTeDA	ng/L	ND	37.9	38.2	39.8	42.2	105	110	60-140	6	30	
PFTrDA	ng/L	ND	37.9	38.2	38.1	40.2	100	105	65-140	5	30	
PFUnA	ng/L	ND	37.9	38.2	39.9	40.3	105	106	70-145	1	30	
13C2-PFDoA (S)	%.						57	64	10-130			
13C2-PFTA (S)	%.						55	58	10-130			
13C24:2FTS (S)	%.						80	84	40-200			
13C26:2FTS (S)	%.						80	86	40-200			
13C28:2FTS (S)	%.						84	93	40-300			
13C3-PFBS (S)	%.						70	81	40-135			
13C3-PFHxS (S)	%.						70	83	40-130			
13C3-PFPrA (S)	%.						10	11	5-130			
13C3HFPO-DA (S)	%.						81	96	40-130			
13C4-PFBA (S)	%.						76	84	5-130			
13C4-PFHpA (S)	%.						79	94	40-130			
13C5-PFHxA (S)	%.						73	84	40-130			
13C5-PFPeA (S)	%.						89	102	40-130			
13C6-PFDA (S)	%.						69	76	40-130			
13C7-PFUdA (S)	%.						61	72	30-130			
13C8-PFOA (S)	%.						71	78	40-130			
13C8-PFOS (S)	%.						70	79	40-130			
13C8-PFOSA (S)	%.						65	73	40-130			
13C9-PFNA (S)	%.						72	81	40-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1851734 WG2500012
Pace Project No.: 10732390

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5249172 5249173

Parameter	Units	10732389003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
d3-MeFOSAA (S)	%.						48	53	40-170			
d3-NMeFOSA (S)	%.						49	54	10-130			
d5-EtFOSAA (S)	%.						43	44	25-135			
d5-NEtFOSA (S)	%.						48	54	10-130			
d7-NMeFOSE (S)	%.						50	54	10-130			
d9-NEtFOSE (S)	%.						50	54	10-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: L1851734 WG2500012
Pace Project No.: 10732390

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1851734 WG2500012
Pace Project No.: 10732390

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10732390001	**TRIP BLANK**	EPA 1633	1006873	EPA 1633	1007854
10732390002	**DWS-80**	EPA 1633	1006873	EPA 1633	1007854
10732390003	**DWS-81**	EPA 1633	1006873	EPA 1633	1007854
10732390004	**DWS-82**	EPA 1633	1006873	EPA 1633	1007854
10732390005	**DUP-03**	EPA 1633	1006873	EPA 1633	1007854
10732390006	**DWS-83**	EPA 1633	1006873	EPA 1633	1007854
10732390007	**DWS-84**	EPA 1633	1006873	EPA 1633	1007854

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sub-Contract Chain of Custody

Batch Date/Time: 04/25/25 13:57
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2500012
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 05/09/25
ESC Purchase Order #: L1851734
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
TRIP BLANK						
PFAS-500HDPE-NoPres - S51561688	GW	NM	04/23/25 09:00	PFAS1633	1. L1851734-01	Level 4
DWS-80						
PFAS-500HDPE-NoPres - 51676273	GW	NM	04/23/25 14:40	PFAS1633	2. L1851734-02	Level 4
PFAS-500HDPE-NoPres - 51676274						
DWS-81						
PFAS-500HDPE-NoPres - 51676275	GW	NM	04/23/25 15:25	PFAS1633	3. L1851734-03	Level 4
PFAS-500HDPE-NoPres - 51676276						
DWS-82						
PFAS-500HDPE-NoPres - 51676277	GW	NM	04/23/25 16:00	PFAS1633	4. L1851734-04	Level 4
PFAS-500HDPE-NoPres - 51676278						
DUP-03						
PFAS-500HDPE-NoPres - 51676279	GW	NM	04/23/25 16:50	PFAS1633	5. L1851734-05	Level 4
PFAS-500HDPE-NoPres - 51676280						
DWS-83						
PFAS-500HDPE-NoPres - 51676281	GW	NM	04/23/25 17:25	PFAS1633	6. L1851734-06	Level 4
PFAS-500HDPE-NoPres - 51676282						
DWS-84						
PFAS-500HDPE-NoPres - 51676283	GW	NM	04/23/25 18:10	PFAS1633	7. L1851734-07	Level 4
PFAS-500HDPE-NoPres - 51676284						

*= Container used for multiple Samples and/or Analyses

Relinquished by: _____ Date 4-25-25
Received by: _____ Date 4/25/25 9:40 0.1°C

Relinquished by: _____ Date _____
Received by: _____ Date _____

WO# : 10732390

10732390

ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: JMC 4/26/25 PROJECT #: **WO#: 10732390**

PM: TKL Due Date: 05/19/25

CLIENT: PASI-TN

Client Name: Pace MJ

Custody Seal Present: ☑ YES ☐ NO Seals Intact: ☑ YES ☐ NO

Tracking Number: 4439 2th 55 5646 ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☐ Bubble Bags ☐ Bubble Wrap ☑ None ☐ Other: _____ Biological Tissue Frozen: ☐ YES ☐ NO

Thermometer: ☑ T1 (0461) ☐ T2 (0431) ☐ T3 (0459) ☐ T4 (0402) Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None
☐ T5 (0187) ☐ T6 (0396) ☐ T7 (0377) ☐ T8 (0775)
☐ T9 (0428) ☐ 01339252 (0710) Temp Blank: ☑ YES ☐ NO

NOTE: Temp should be ≤ 6°C, but above freezing.

Read Temp w/Temp Blank: 0.0 °C

Correction Factor: True

Corrected Temp w/Temp Blank: 0.1 °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): _____

☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☑ N/A, Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☐ NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☑	☐	3.
Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr	☑	☐		4.
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other:
Rush Turn Around Time Requested?	☐	☑		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date:
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	☑	☐		7. 1: 1 NT2th, 2 - 7: 2 NT2th
Correct Containers Used?	☑	☐	☐	8.
-- Pace Containers Used?	☐	☐		
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? (If NO, fill out section 11.) Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.
Sample #: ☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____ **pH Paper Lot #:** ☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip _____ **Positive for Residual Chlorine (NaOH containers only):** ☐ YES ☐ NO				
Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) **EXCECTIONS (water only):** VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐ ☐	☐ ☐	☑ ☑	☐ See Exceptions form ENV-FRM-MIN4-0142
Extra labels present on soil VOA or WIDRO containers? (soil only)	☐	☐	☑	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☐	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION / RESOLUTION:

Labeled By: SME Line: 3

Person Contacted & Date/Time: _____ PM Review & Date: [redacted] 4/28/25

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will b[illegible] DEQ Certification Office.

ANALYTICAL REPORT

June 11, 2025

Re ised Re ort

INTERA - Albuquerque, NM

a le eli er rou :	L1856433
a les Recei ed:	05/08/2025
Project Nu ber:	P L P A
escri tion:	/ a line

Re ort To:

L nda Price
2440 Louisiana l d
uite 700
Albuquerque, NM 87110

Entire Re ort Re ie ed :

Jordan N Zito
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TA LE NTENT

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Gl: Glossary of Terms 6

Al: Accreditations & Locations 7

Sc: Sample Chain of Custody 8

-05 L1856433-01

Collected by: Rocio Mancillas | Collected date/time: 05/06/25 09:55 | Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

-85 L1856433-02

Collected by: Rocio Mancillas | Collected date/time: 05/06/25 10:15 | Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

-56 L1856433-03

Collected by: Rocio Mancillas | Collected date/time: 05/06/25 11:10 | Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

-86 L1856433-04

Collected by: Rocio Mancillas | Collected date/time: 05/06/25 11:38 | Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

-87 L1856433-05

Collected by: Rocio Mancillas | Collected date/time: 05/06/25 12:08 | Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

-88 L1856433-06

Collected by: Rocio Mancillas | Collected date/time: 05/06/25 12:33 | Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

PE-04 L1856433-07

Collected by: Rocio Mancillas | Collected date/time: 05/06/25 12:30 | Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

-89 L1856433-08

Collected by: Rocio Mancillas | Collected date/time: 05/06/25 14:19 | Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

-90 L1856433-09

Collected by: Rocio Mancillas
Collected date/time: 05/06/25 14:59
Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

-91 L1856433-10

Collected by: Rocio Mancillas
Collected date/time: 05/06/25 15:40
Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

TRIP LAN L1856433-11

Collected by: Rocio Mancillas
Collected date/time: 05/06/25 08:00
Received date/time: 05/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2510324	1	06/02/25 00:00	06/02/25 00:00	-	Minneapolis, MN 55414

All sa le aliquots ere recei ed at t e correct te erature, in t e ro er containers, it t e a ro riate reser ati es, and it in et od s ecified olding ti es, unless qualified or notated it in t e re ort ere a licable, all M L L and R L L alues re orted for en iron ental sa les a e been corrected for t e dilution factor used in t e anal sis All Met od and atc ualit ontrol are it in establis ed criteria e ce t ere addressed in t is case narrati e, a non-confor ance for or ro erl qualified it in t e sa le results digital signature belo , l affir to t e best of no ledge, all roble s/ano alies obser ed b t e laborator as a ing t e otential to affect t e qualit of t e data a e been identified b t e laborator , and no infor ation or data a e been no ingl it eld t at ould affect t e qualit of t e data

Jordan N Zito
Project Manager

Re ort Re ision istor

Le el II Re ort - ersion 1: 06/02/25 16:37
Le el II Re ort - ersion 2: 06/02/25 16:42
Le el II Re ort - ersion 3: 06/11/25 08:34

Project Narrati e

enerate le el 4 P
L1856433 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11 contains subout data t at is included after t e c ain of custod

uide to Reading and nderstanding our Laborator Re ort

T e infor ation belo is designed to better e lain t e arious ter s used in our re ort of anal tical results fro t e Laborator T is is not intended as a co re ensi e e lanation, and if ou a e additional questions lease contact our roject re resentati e

Results isclai er - Infor ation t at a be ro ided b t e custo er, and contained it in t is re ort, include Per it Li its, Project Na e, a le I , a le Matri , a le Preser ation, ield lan s, ield i es, ield u licates, n- ite ata, a ling ollection ates/Ti es, and a ling Location Results relate to t e accurac of t is infor ation ro ided, and as t e sa les are recei ed

Abbre iations and efinitions

	a le eli er rou
ncertaint Radioc e istr	onfidence le el of 2 sig a
ase Narrati e n	A brief discussion about t e included sa le results, including a discussion of an non-confor ances to rotocol obser ed eit er at sa le recei t b t e laborator fro t e field or during t e anal tical rocess If resent, t ere ill be a section in t e ase Narrati e to discuss t e eaning of an data qualifiers used in t e re ort
ualit ontrol u ar c	T is section of t e re ort includes t e results of t e laborator qualit control anal ses required b rocedure or anal tical et ods to assist in e aluating t e alidit of t e results re orted for our sa les T ese anal ses are not being erfor ed on our sa les t icall , but on laborator generated aterial
a le ain of ustod c	T is is t e docu ent created in t e field en our sa les ere initiall collected T is is used to erif t e ti e and date of collection, t e erson collecting t e sa les, and t e anal ses t at t e laborator is requested to erfor T is c ain of custod also docu ents all ersons e cluding co ercial s i ers t at a e ad control or ossession of t e sa les fro t e ti e of collection until deli er to t e laborator for anal sis
a le Results r	T is section of our re ort ill ro ide t e results of all testing erfor ed on our sa les T ese results are ro ided b sa le I and are se arated b t e anal ses erfor ed on eac sa le T e eader line of eac anal sis section for eac sa le ill ro ide t e na e and et od nu ber for t e anal sis re orted
a le u ar s	T is section of t e Anal tical Re ort defines t e s ecific anal ses erfor ed for eac sa le I , including t e dates and ti es of re aration and/or anal sis

ualifier escri tion

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Anal tical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
INTERA - Albuquerque, NM

2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Billing Information:
Lynda Price
2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Pres Chk

Report to: Lynda Price

Email To: lprice@intera.com

Project Description: GW/SW Sampling

City/State Collected: New Mexico

Please Circle: PT MT CT ET

Regulatory Program (DOD, RCRA, DW, etc): DW

Client Project #: SFCPW.C001.PFAS

Lab Project #: INTERAANM-PFAS

Collected by (print): Rocio Mancillas

Site/Facility ID #:

P.O. #:

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #:

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SUBPFAS1633 PFAS-500HDPE-NoPres									Remarks	Sample # (lab only)
SWS-05	Grab	~~SW~~ GW	—	5/6/25	0955	2	X										01
DWS-85	Grab	GW	—	5/6/25	1015	2	X										02
DWS-56	Grab	GW	—	5/6/25	1110	2	X										03
DWS-86	Grab	GW	—	5/6/25	1138	2	X										04
DWS-87	Grab	GW	—	5/6/25	1208	2	X										05
DWS-88	Grab	GW	—	5/6/25	1233	2	X										06
DUPE-04	Grab	GW	—	5/7/25	1230	2	X										07
DWS-89	Grab	GW	—	5/7/25	1419	2	X										08
DWS-90	Grab	GW	—	5/7/25	1459	2	X										09
DWS-91	Grab	GW	—	5/7/25	1540	2	X										10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: *Requesting Level 4 Data Package

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 4493 5929 1150

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
[signature]	5/7/25	1700	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			[signature]

Trip Blank Received: Yes No
1
HCL / MeoH
TBR

Temp: °C Bottles Received:
3.8 10.4 = 4.2 20

Date: 05/08/25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / C

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

13065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # C180

Acctnum: INTERAANM
Template: T271065
Prelogin: P1145876
PM: 942 - Jordan N Zito
PB: 4/18/25 mV
Shipped Via: FedEX Ground

Company Name/Address:
INTERA - Albuquerque, NM

2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Billing Information:
Lynda Price
2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Pres Chk

Report to:
Lynda Price

Email To: **lprice@intera.com**

Project Description: GW/SW Sampling

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #

Lab Project #
INTERAANM-PFAS

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N____ Y____

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day ____ STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

SUBPFAS1633 PFAS-500HDPE-NoPres

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SUBPFAS1633 PFAS-500HDPE-NoPres
TRIP BLANK	—	~~OT~~ GW	—	5/6/25	0800	1	X

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1856173

Table #

Acctnum: **INTERAANM**
Template: **T271065**
Prelogin: **P1145876**
PM: **942 - Jordan N Zito**
PB: 4/18/25 mV

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other 1 x pBlank

Remarks:
Level 4 Data Package

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Lynda Price	5/7/25	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TB 9 3 4 1 0.4=4.2 20	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 05/08/25 Time: 0900	Hold: / Condition: NCF / OK

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

June 02, 2025

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1856433 WG2510324
Pace Project No.: 10733872

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for Testing & Innovation

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification via A2LA #: R-036
North Dakota Certification via MN #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: L1856433 WG2510324
Pace Project No.: 10733872

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10733872001	**SWS-05**	Water	05/06/25 09:55	05/09/25 08:50
10733872002	**DWS-85**	Water	05/06/25 10:15	05/09/25 08:50
10733872003	**DWS-56**	Water	05/06/25 11:10	05/09/25 08:50
10733872004	**DWS-86**	Water	05/06/25 11:38	05/09/25 08:50
10733872005	**DWS-87**	Water	05/06/25 12:08	05/09/25 08:50
10733872006	**DWS-88**	Water	05/06/25 12:33	05/09/25 08:50
10733872007	**DUPE-04**	Water	05/06/25 12:30	05/09/25 08:50
10733872008	**DWS-89**	Water	05/06/25 14:19	05/09/25 08:50
10733872009	**DWS-90**	Water	05/06/25 14:59	05/09/25 08:50
10733872010	**DWS-91**	Water	05/06/25 15:40	05/09/25 08:50
10733872011	**TRIP BLANK**	Water	05/06/25 08:00	05/09/25 08:50

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: L1856433 WG2510324
Pace Project No.: 10733872

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10733872001	**SWS-05**	EPA 1633	MJL	65	PASI-M
10733872002	**DWS-85**	EPA 1633	MJL	65	PASI-M
10733872003	**DWS-56**	EPA 1633	MJL	65	PASI-M
10733872004	**DWS-86**	EPA 1633	MJL	65	PASI-M
10733872005	**DWS-87**	EPA 1633	MJL	65	PASI-M
10733872006	**DWS-88**	EPA 1633	MJL	65	PASI-M
10733872007	**DUPE-04**	EPA 1633	MJL	65	PASI-M
10733872008	**DWS-89**	EPA 1633	MJL	65	PASI-M
10733872009	**DWS-90**	EPA 1633	MJL	65	PASI-M
10733872010	**DWS-91**	EPA 1633	MJL	65	PASI-M
10733872011	**TRIP BLANK**	EPA 1633	NBH	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: SWS-05 **Lab ID: 10733872001** Collected: 05/06/25 09:55 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 125.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	763051-92-9	
3:3 FTCA	ND	ng/L	31.8	1	05/27/25 13:59	05/29/25 20:17	356-02-5	
4:2 FTS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	757124-72-4	
5:3 FTCA	ND	ng/L	159	1	05/27/25 13:59	05/29/25 20:17	914637-49-3	
6:2 FTS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	27619-97-2	
7:3 FTCA	ND	ng/L	159	1	05/27/25 13:59	05/29/25 20:17	812-70-4	
8:2 FTS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	39108-34-4	
9Cl-PF3ONS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	756426-58-1	
ADONA	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	919005-14-4	
HFPO-DA	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	13252-13-6	
NEtFOSAA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	2991-50-6	
NEtFOSA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	4151-50-2	
NEtFOSE	ND	ng/L	63.6	1	05/27/25 13:59	05/29/25 20:17	1691-99-2	
NFDHA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	151772-58-6	
NMeFOSAA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	2355-31-9	
NMeFOSA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	31506-32-8	
NMeFOSE	ND	ng/L	63.6	1	05/27/25 13:59	05/29/25 20:17	24448-09-7	
PFBS	**6.7**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	375-73-5	
PFDA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	335-76-2	
PFHxA	**6.6**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	307-24-4	
PFBA	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	375-22-4	
PFDS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	335-77-3	
PFDoS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	79780-39-5	
PFEESA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	113507-82-7	
PFHpS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	375-92-8	
PFMBA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	863090-89-5	
PFMPA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	377-73-1	
PFNS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	68259-12-1	
PFOSA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	754-91-6	
PFPeA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	2706-90-3	
PFPeS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	2706-91-4	
PFDoA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	307-55-1	
PFHpA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	375-85-9	
PFHxS	**11.3**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	355-46-4	
PFNA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	375-95-1	
PFOS	**10.0**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	1763-23-1	
PFOA	**22.0**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	335-67-1	
PFTeDA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	376-06-7	
PFTrDA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	72629-94-8	
PFUnA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	2058-94-8	
Surrogates								
13C2-PFDoA (S)	58	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
13C3HFPO-DA (S)	70	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C3-PFBS (S)	64	%.	40-135	1	05/27/25 13:59	05/29/25 20:17		
13C3-PFHxS (S)	68	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: SWS-05 **Lab ID: 10733872001** Collected: 05/06/25 09:55 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 125.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	72	%.	5-130	1	05/27/25 13:59	05/29/25 20:17		
13C4-PFHpA (S)	71	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C5-PFHxA (S)	68	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C5-PFPeA (S)	70	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C6-PFDA (S)	65	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C8-PFOA (S)	64	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C8-PFOS (S)	66	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C8-PFOSA (S)	62	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C9-PFNA (S)	62	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
d3-MeFOSAA (S)	65	%.	40-170	1	05/27/25 13:59	05/29/25 20:17		
d3-NMeFOSA (S)	43	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
d5-EtFOSAA (S)	63	%.	25-135	1	05/27/25 13:59	05/29/25 20:17		
d5-NEtFOSA (S)	44	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
d7-NMeFOSE (S)	51	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
d9-NEtFOSE (S)	55	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
13C2-PFTA (S)	55	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
13C7-PFUdA (S)	60	%.	30-130	1	05/27/25 13:59	05/29/25 20:17		
13C24:2FTS (S)	91	%.	40-200	1	05/27/25 13:59	05/29/25 20:17		
13C26:2FTS (S)	83	%.	40-200	1	05/27/25 13:59	05/29/25 20:17		
13C28:2FTS (S)	78	%.	40-300	1	05/27/25 13:59	05/29/25 20:17		
13C3-PFPrA (S)	71	%.	5-130	1	05/27/25 13:59	05/29/25 20:17		

Sample: DWS-85 **Lab ID: 10733872002** Collected: 05/06/25 10:15 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 522.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	1	05/27/25 13:59	05/29/25 20:31	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	757124-72-4	
5:3 FTCA	ND	ng/L	38.3	1	05/27/25 13:59	05/29/25 20:31	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	27619-97-2	
7:3 FTCA	ND	ng/L	38.3	1	05/27/25 13:59	05/29/25 20:31	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	756426-58-1	
ADONA	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	4151-50-2	
NEtFOSE	ND	ng/L	15.3	1	05/27/25 13:59	05/29/25 20:31	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-85 **Lab ID: 10733872002** Collected: 05/06/25 10:15 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 522.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	31506-32-8	
NMeFOSE	ND	ng/L	15.3	1	05/27/25 13:59	05/29/25 20:31	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	307-24-4	
PFBA	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	863090-89-5	
PFMPA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	375-85-9	
PFHxS	**3.5**	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	375-95-1	
PFOS	**2.4**	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	1763-23-1	
PFOA	**2.3**	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	2058-94-8	
Surrogates								
13C2-PFDoA (S)	76	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
13C3HFPO-DA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C3-PFBS (S)	97	%.	40-135	1	05/27/25 13:59	05/29/25 20:31		
13C3-PFHxS (S)	98	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C4-PFBA (S)	95	%.	5-130	1	05/27/25 13:59	05/29/25 20:31		
13C4-PFHpA (S)	99	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C5-PFHxA (S)	98	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C5-PFPeA (S)	95	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C6-PFDA (S)	88	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C8-PFOA (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C8-PFOS (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C8-PFOSA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C9-PFNA (S)	95	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
d3-MeFOSAA (S)	93	%.	40-170	1	05/27/25 13:59	05/29/25 20:31		
d3-NMeFOSA (S)	62	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
d5-EtFOSAA (S)	91	%.	25-135	1	05/27/25 13:59	05/29/25 20:31		
d5-NEtFOSA (S)	65	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-85 **Lab ID: 10733872002** Collected: 05/06/25 10:15 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 522.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
d9-NEtFOSE (S)	74	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
13C2-PFTA (S)	70	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
13C7-PFUdA (S)	81	%.	30-130	1	05/27/25 13:59	05/29/25 20:31		
13C24:2FTS (S)	121	%.	40-200	1	05/27/25 13:59	05/29/25 20:31		
13C26:2FTS (S)	124	%.	40-200	1	05/27/25 13:59	05/29/25 20:31		
13C28:2FTS (S)	105	%.	40-300	1	05/27/25 13:59	05/29/25 20:31		
13C3-PFPrA (S)	41	%.	5-130	1	05/27/25 13:59	05/29/25 20:31		

Sample: DWS-56 **Lab ID: 10733872003** Collected: 05/06/25 11:10 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 542.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	763051-92-9	
3:3 FTCA	ND	ng/L	7.4	1	05/27/25 13:59	05/29/25 20:46	356-02-5	
4:2 FTS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	757124-72-4	
5:3 FTCA	ND	ng/L	36.9	1	05/27/25 13:59	05/29/25 20:46	914637-49-3	
6:2 FTS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	27619-97-2	
7:3 FTCA	ND	ng/L	36.9	1	05/27/25 13:59	05/29/25 20:46	812-70-4	
8:2 FTS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	39108-34-4	
9Cl-PF3ONS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	756426-58-1	
ADONA	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	919005-14-4	
HFPO-DA	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	4151-50-2	
NEtFOSE	ND	ng/L	14.7	1	05/27/25 13:59	05/29/25 20:46	1691-99-2	
NFDHA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	31506-32-8	
NMeFOSE	ND	ng/L	14.7	1	05/27/25 13:59	05/29/25 20:46	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	307-24-4	
PFBA	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	79780-39-5	
PFEESA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	375-92-8	
PFMBA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-56 **Lab ID: 10733872003** Collected: 05/06/25 11:10 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 542.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	754-91-6	
PFPeA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	2058-94-8	
Surrogates								
13C2-PFDoA (S)	82	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
13C3HFPO-DA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C3-PFBS (S)	93	%.	40-135	1	05/27/25 13:59	05/29/25 20:46		
13C3-PFHxS (S)	92	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C4-PFBA (S)	93	%.	5-130	1	05/27/25 13:59	05/29/25 20:46		
13C4-PFHpA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C5-PFHxA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C5-PFPeA (S)	92	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C6-PFDA (S)	86	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C8-PFOA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C8-PFOS (S)	88	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C8-PFOSA (S)	83	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C9-PFNA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
d3-MeFOSAA (S)	90	%.	40-170	1	05/27/25 13:59	05/29/25 20:46		
d3-NMeFOSA (S)	64	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
d5-EtFOSAA (S)	90	%.	25-135	1	05/27/25 13:59	05/29/25 20:46		
d5-NEtFOSA (S)	66	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
d7-NMeFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
d9-NEtFOSE (S)	75	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
13C2-PFTA (S)	77	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
13C7-PFUdA (S)	84	%.	30-130	1	05/27/25 13:59	05/29/25 20:46		
13C24:2FTS (S)	118	%.	40-200	1	05/27/25 13:59	05/29/25 20:46		
13C26:2FTS (S)	116	%.	40-200	1	05/27/25 13:59	05/29/25 20:46		
13C28:2FTS (S)	103	%.	40-300	1	05/27/25 13:59	05/29/25 20:46		
13C3-PFPrA (S)	33	%.	5-130	1	05/27/25 13:59	05/29/25 20:46		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-86 **Lab ID: 10733872004** Collected: 05/06/25 11:38 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 547.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	763051-92-9	
3:3 FTCA	ND	ng/L	7.3	1	05/27/25 13:59	05/29/25 21:00	356-02-5	
4:2 FTS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	757124-72-4	
5:3 FTCA	ND	ng/L	36.6	1	05/27/25 13:59	05/29/25 21:00	914637-49-3	
6:2 FTS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	27619-97-2	
7:3 FTCA	ND	ng/L	36.6	1	05/27/25 13:59	05/29/25 21:00	812-70-4	
8:2 FTS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	39108-34-4	
9Cl-PF3ONS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	756426-58-1	
ADONA	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	919005-14-4	
HFPO-DA	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	4151-50-2	
NEtFOSE	ND	ng/L	14.6	1	05/27/25 13:59	05/29/25 21:00	1691-99-2	
NFDHA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	31506-32-8	
NMeFOSE	ND	ng/L	14.6	1	05/27/25 13:59	05/29/25 21:00	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	307-24-4	
PFBA	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	79780-39-5	
PFEESA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	375-92-8	
PFMBA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	863090-89-5	
PFMPA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	754-91-6	
PFPeA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	2058-94-8	
Surrogates								
13C2-PFDoA (S)	83	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
13C3HFPO-DA (S)	99	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C3-PFBS (S)	96	%.	40-135	1	05/27/25 13:59	05/29/25 21:00		
13C3-PFHxS (S)	102	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-86 **Lab ID: 10733872004** Collected: 05/06/25 11:38 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 547.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	96	%.	5-130	1	05/27/25 13:59	05/29/25 21:00		
13C4-PFHpA (S)	100	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C5-PFHxA (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C5-PFPeA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C6-PFDA (S)	93	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C8-PFOA (S)	95	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C8-PFOS (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C8-PFOSA (S)	93	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C9-PFNA (S)	95	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
d3-MeFOSAA (S)	100	%.	40-170	1	05/27/25 13:59	05/29/25 21:00		
d3-NMeFOSA (S)	71	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
d5-EtFOSAA (S)	100	%.	25-135	1	05/27/25 13:59	05/29/25 21:00		
d5-NEtFOSA (S)	68	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
d7-NMeFOSE (S)	78	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
d9-NEtFOSE (S)	80	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
13C2-PFTA (S)	78	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
13C7-PFUdA (S)	91	%.	30-130	1	05/27/25 13:59	05/29/25 21:00		
13C24:2FTS (S)	134	%.	40-200	1	05/27/25 13:59	05/29/25 21:00		
13C26:2FTS (S)	121	%.	40-200	1	05/27/25 13:59	05/29/25 21:00		
13C28:2FTS (S)	114	%.	40-300	1	05/27/25 13:59	05/29/25 21:00		
13C3-PFPrA (S)	19	%.	5-130	1	05/27/25 13:59	05/29/25 21:00		

Sample: DWS-87 **Lab ID: 10733872005** Collected: 05/06/25 12:08 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	763051-92-9	
3:3 FTCA	ND	ng/L	7.5	1	05/27/25 13:59	05/29/25 21:14	356-02-5	
4:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	757124-72-4	
5:3 FTCA	ND	ng/L	37.7	1	05/27/25 13:59	05/29/25 21:14	914637-49-3	
6:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	27619-97-2	
7:3 FTCA	ND	ng/L	37.7	1	05/27/25 13:59	05/29/25 21:14	812-70-4	
8:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	756426-58-1	
ADONA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	919005-14-4	
HFPO-DA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	4151-50-2	
NEtFOSE	ND	ng/L	15.1	1	05/27/25 13:59	05/29/25 21:14	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-87 **Lab ID: 10733872005** Collected: 05/06/25 12:08 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	31506-32-8	
NMeFOSE	ND	ng/L	15.1	1	05/27/25 13:59	05/29/25 21:14	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	307-24-4	
PFBA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	863090-89-5	
PFMPA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	2058-94-8	
Surrogates								
13C2-PFDoA (S)	67	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
13C3HFPO-DA (S)	75	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C3-PFBS (S)	75	%.	40-135	1	05/27/25 13:59	05/29/25 21:14		
13C3-PFHxS (S)	78	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C4-PFBA (S)	82	%.	5-130	1	05/27/25 13:59	05/29/25 21:14		
13C4-PFHpA (S)	83	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C5-PFHxA (S)	80	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C5-PFPeA (S)	79	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C6-PFDA (S)	75	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C8-PFOA (S)	76	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C8-PFOS (S)	72	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C8-PFOSA (S)	68	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C9-PFNA (S)	76	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
d3-MeFOSAA (S)	80	%.	40-170	1	05/27/25 13:59	05/29/25 21:14		
d3-NMeFOSA (S)	54	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
d5-EtFOSAA (S)	78	%.	25-135	1	05/27/25 13:59	05/29/25 21:14		
d5-NEtFOSA (S)	51	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-87 **Lab ID: 10733872005** Collected: 05/06/25 12:08 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	61	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
d9-NEtFOSE (S)	62	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
13C2-PFTA (S)	65	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
13C7-PFUdA (S)	73	%.	30-130	1	05/27/25 13:59	05/29/25 21:14		
13C24:2FTS (S)	102	%.	40-200	1	05/27/25 13:59	05/29/25 21:14		
13C26:2FTS (S)	99	%.	40-200	1	05/27/25 13:59	05/29/25 21:14		
13C28:2FTS (S)	89	%.	40-300	1	05/27/25 13:59	05/29/25 21:14		
13C3-PFPrA (S)	17	%.	5-130	1	05/27/25 13:59	05/29/25 21:14		

Sample: DWS-88 **Lab ID: 10733872006** Collected: 05/06/25 12:33 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 533.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	763051-92-9	
3:3 FTCA	ND	ng/L	7.5	1	05/27/25 13:59	05/29/25 21:28	356-02-5	
4:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	757124-72-4	
5:3 FTCA	ND	ng/L	37.5	1	05/27/25 13:59	05/29/25 21:28	914637-49-3	
6:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	27619-97-2	
7:3 FTCA	ND	ng/L	37.5	1	05/27/25 13:59	05/29/25 21:28	812-70-4	
8:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	756426-58-1	
ADONA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	919005-14-4	
HFPO-DA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	4151-50-2	
NEtFOSE	ND	ng/L	15.0	1	05/27/25 13:59	05/29/25 21:28	1691-99-2	
NFDHA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	31506-32-8	
NMeFOSE	ND	ng/L	15.0	1	05/27/25 13:59	05/29/25 21:28	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	307-24-4	
PFBA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-88 **Lab ID: 10733872006** Collected: 05/06/25 12:33 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 533.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	2058-94-8	
Surrogates								
13C2-PFDoA (S)	70	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
13C3HFPO-DA (S)	73	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C3-PFBS (S)	74	%.	40-135	1	05/27/25 13:59	05/29/25 21:28		
13C3-PFHxS (S)	72	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C4-PFBA (S)	82	%.	5-130	1	05/27/25 13:59	05/29/25 21:28		
13C4-PFHpA (S)	77	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C5-PFHxA (S)	75	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C5-PFPeA (S)	77	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C6-PFDA (S)	69	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C8-PFOA (S)	72	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C8-PFOS (S)	72	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C8-PFOSA (S)	70	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C9-PFNA (S)	69	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
d3-MeFOSAA (S)	74	%.	40-170	1	05/27/25 13:59	05/29/25 21:28		
d3-NMeFOSA (S)	49	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
d5-EtFOSAA (S)	76	%.	25-135	1	05/27/25 13:59	05/29/25 21:28		
d5-NEtFOSA (S)	50	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
d7-NMeFOSE (S)	57	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
d9-NEtFOSE (S)	60	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
13C2-PFTA (S)	70	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
13C7-PFUdA (S)	69	%.	30-130	1	05/27/25 13:59	05/29/25 21:28		
13C24:2FTS (S)	99	%.	40-200	1	05/27/25 13:59	05/29/25 21:28		
13C26:2FTS (S)	95	%.	40-200	1	05/27/25 13:59	05/29/25 21:28		
13C28:2FTS (S)	90	%.	40-300	1	05/27/25 13:59	05/29/25 21:28		
13C3-PFPrA (S)	8	%.	5-130	1	05/27/25 13:59	05/29/25 21:28		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DUPE-04 **Lab ID: 10733872007** Collected: 05/06/25 12:30 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 259.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	763051-92-9	
3:3 FTCA	ND	ng/L	15.4	1	05/27/25 13:59	05/29/25 22:10	356-02-5	
4:2 FTS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	757124-72-4	
5:3 FTCA	ND	ng/L	77.0	1	05/27/25 13:59	05/29/25 22:10	914637-49-3	
6:2 FTS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	27619-97-2	
7:3 FTCA	ND	ng/L	77.0	1	05/27/25 13:59	05/29/25 22:10	812-70-4	
8:2 FTS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	39108-34-4	
9Cl-PF3ONS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	756426-58-1	
ADONA	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	919005-14-4	
HFPO-DA	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	13252-13-6	
NEtFOSAA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	2991-50-6	
NEtFOSA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	4151-50-2	
NEtFOSE	ND	ng/L	30.8	1	05/27/25 13:59	05/29/25 22:10	1691-99-2	
NFDHA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	151772-58-6	
NMeFOSAA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	2355-31-9	
NMeFOSA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	31506-32-8	
NMeFOSE	ND	ng/L	30.8	1	05/27/25 13:59	05/29/25 22:10	24448-09-7	
PFBS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	375-73-5	
PFDA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	335-76-2	
PFHxA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	307-24-4	
PFBA	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	375-22-4	
PFDS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	335-77-3	
PFDoS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	79780-39-5	
PFEESA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	113507-82-7	
PFHpS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	375-92-8	
PFMBA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	863090-89-5	
PFMPA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	377-73-1	
PFNS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	68259-12-1	
PFOSA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	754-91-6	
PFPeA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	2706-90-3	
PFPeS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	2706-91-4	
PFDoA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	307-55-1	
PFHpA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	375-85-9	
PFHxS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	355-46-4	
PFNA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	375-95-1	
PFOS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	1763-23-1	
PFOA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	335-67-1	
PFTeDA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	376-06-7	
PFTrDA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	72629-94-8	
PFUnA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	2058-94-8	
Surrogates								
13C2-PFDoA (S)	93	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
13C3HFPO-DA (S)	101	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C3-PFBS (S)	97	%.	40-135	1	05/27/25 13:59	05/29/25 22:10		
13C3-PFHxS (S)	101	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DUPE-04 **Lab ID: 10733872007** Collected: 05/06/25 12:30 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 259.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	99	%.	5-130	1	05/27/25 13:59	05/29/25 22:10		
13C4-PFHpA (S)	107	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C5-PFHxA (S)	102	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C5-PFPeA (S)	103	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C6-PFDA (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C8-PFOA (S)	99	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C8-PFOS (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C8-PFOSA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C9-PFNA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
d3-MeFOSAA (S)	104	%.	40-170	1	05/27/25 13:59	05/29/25 22:10		
d3-NMeFOSA (S)	77	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
d5-EtFOSAA (S)	101	%.	25-135	1	05/27/25 13:59	05/29/25 22:10		
d5-NEtFOSA (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
d7-NMeFOSE (S)	87	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
d9-NEtFOSE (S)	87	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
13C2-PFTA (S)	90	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
13C7-PFUdA (S)	99	%.	30-130	1	05/27/25 13:59	05/29/25 22:10		
13C24:2FTS (S)	140	%.	40-200	1	05/27/25 13:59	05/29/25 22:10		
13C26:2FTS (S)	127	%.	40-200	1	05/27/25 13:59	05/29/25 22:10		
13C28:2FTS (S)	120	%.	40-300	1	05/27/25 13:59	05/29/25 22:10		
13C3-PFPrA (S)	10	%.	5-130	1	05/27/25 13:59	05/29/25 22:10		

Sample: DWS-89 **Lab ID: 10733872008** Collected: 05/06/25 14:19 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 536.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	763051-92-9	
3:3 FTCA	ND	ng/L	7.5	1	05/27/25 13:59	05/29/25 22:24	356-02-5	
4:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	757124-72-4	
5:3 FTCA	ND	ng/L	37.3	1	05/27/25 13:59	05/29/25 22:24	914637-49-3	
6:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	27619-97-2	
7:3 FTCA	ND	ng/L	37.3	1	05/27/25 13:59	05/29/25 22:24	812-70-4	
8:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	756426-58-1	
ADONA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	919005-14-4	
HFPO-DA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	4151-50-2	
NEtFOSE	ND	ng/L	14.9	1	05/27/25 13:59	05/29/25 22:24	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-89 **Lab ID: 10733872008** Collected: 05/06/25 14:19 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 536.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	31506-32-8	
NMeFOSE	ND	ng/L	14.9	1	05/27/25 13:59	05/29/25 22:24	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	307-24-4	
PFBA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	863090-89-5	
PFMPA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	2058-94-8	
Surrogates								
13C2-PFDoA (S)	78	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
13C3HFPO-DA (S)	90	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C3-PFBS (S)	88	%.	40-135	1	05/27/25 13:59	05/29/25 22:24		
13C3-PFHxS (S)	92	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C4-PFBA (S)	87	%.	5-130	1	05/27/25 13:59	05/29/25 22:24		
13C4-PFHpA (S)	94	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C5-PFHxA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C5-PFPeA (S)	90	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C6-PFDA (S)	84	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C8-PFOA (S)	85	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C8-PFOS (S)	82	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C8-PFOSA (S)	83	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C9-PFNA (S)	88	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
d3-MeFOSAA (S)	88	%.	40-170	1	05/27/25 13:59	05/29/25 22:24		
d3-NMeFOSA (S)	55	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
d5-EtFOSAA (S)	87	%.	25-135	1	05/27/25 13:59	05/29/25 22:24		
d5-NEtFOSA (S)	55	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-89 **Lab ID: 10733872008** Collected: 05/06/25 14:19 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 536.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
d9-NEtFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
13C2-PFTA (S)	74	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
13C7-PFUdA (S)	83	%.	30-130	1	05/27/25 13:59	05/29/25 22:24		
13C24:2FTS (S)	111	%.	40-200	1	05/27/25 13:59	05/29/25 22:24		
13C26:2FTS (S)	116	%.	40-200	1	05/27/25 13:59	05/29/25 22:24		
13C28:2FTS (S)	105	%.	40-300	1	05/27/25 13:59	05/29/25 22:24		
13C3-PFPrA (S)	16	%.	5-130	1	05/27/25 13:59	05/29/25 22:24		

Sample: DWS-90 **Lab ID: 10733872009** Collected: 05/06/25 14:59 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 133.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	763051-92-9	
3:3 FTCA	ND	ng/L	30.0	1	05/27/25 13:59	05/29/25 22:39	356-02-5	
4:2 FTS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	757124-72-4	
5:3 FTCA	ND	ng/L	150	1	05/27/25 13:59	05/29/25 22:39	914637-49-3	
6:2 FTS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	27619-97-2	
7:3 FTCA	ND	ng/L	150	1	05/27/25 13:59	05/29/25 22:39	812-70-4	
8:2 FTS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	39108-34-4	
9Cl-PF3ONS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	756426-58-1	
ADONA	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	919005-14-4	
HFPO-DA	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	13252-13-6	
NEtFOSAA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	2991-50-6	
NEtFOSA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	4151-50-2	
NEtFOSE	ND	ng/L	60.0	1	05/27/25 13:59	05/29/25 22:39	1691-99-2	
NFDHA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	151772-58-6	
NMeFOSAA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	2355-31-9	
NMeFOSA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	31506-32-8	
NMeFOSE	ND	ng/L	60.0	1	05/27/25 13:59	05/29/25 22:39	24448-09-7	
PFBS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	375-73-5	
PFDA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	335-76-2	
PFHxA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	307-24-4	
PFBA	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	375-22-4	
PFDS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	335-77-3	
PFDoS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	79780-39-5	
PFEESA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	113507-82-7	
PFHpS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	375-92-8	
PFMBA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-90 **Lab ID: 10733872009** Collected: 05/06/25 14:59 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 133.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	377-73-1	
PFNS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	68259-12-1	
PFOSA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	754-91-6	
PFPeA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	2706-90-3	
PFPeS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	2706-91-4	
PFDoA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	307-55-1	
PFHpA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	375-85-9	
PFHxS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	355-46-4	
PFNA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	375-95-1	
PFOS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	1763-23-1	
PFOA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	335-67-1	
PFTeDA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	376-06-7	
PFTrDA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	72629-94-8	
PFUnA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	2058-94-8	
Surrogates								
13C2-PFDoA (S)	78	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
13C3HFPO-DA (S)	84	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C3-PFBS (S)	85	%.	40-135	1	05/27/25 13:59	05/29/25 22:39		
13C3-PFHxS (S)	85	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C4-PFBA (S)	83	%.	5-130	1	05/27/25 13:59	05/29/25 22:39		
13C4-PFHpA (S)	87	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C5-PFHxA (S)	86	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C5-PFPeA (S)	85	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C6-PFDA (S)	82	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C8-PFOA (S)	87	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C8-PFOS (S)	81	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C8-PFOSA (S)	79	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C9-PFNA (S)	85	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
d3-MeFOSAA (S)	86	%.	40-170	1	05/27/25 13:59	05/29/25 22:39		
d3-NMeFOSA (S)	61	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
d5-EtFOSAA (S)	84	%.	25-135	1	05/27/25 13:59	05/29/25 22:39		
d5-NEtFOSA (S)	57	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
d7-NMeFOSE (S)	67	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
d9-NEtFOSE (S)	67	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
13C2-PFTA (S)	76	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
13C7-PFUdA (S)	80	%.	30-130	1	05/27/25 13:59	05/29/25 22:39		
13C24:2FTS (S)	113	%.	40-200	1	05/27/25 13:59	05/29/25 22:39		
13C26:2FTS (S)	111	%.	40-200	1	05/27/25 13:59	05/29/25 22:39		
13C28:2FTS (S)	99	%.	40-300	1	05/27/25 13:59	05/29/25 22:39		
13C3-PFPrA (S)	15	%.	5-130	1	05/27/25 13:59	05/29/25 22:39		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-91 **Lab ID: 10733872010** Collected: 05/06/25 15:40 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 515.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	763051-92-9	
3:3 FTCA	ND	ng/L	7.8	1	05/27/25 13:59	05/29/25 22:53	356-02-5	
4:2 FTS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	757124-72-4	
5:3 FTCA	ND	ng/L	38.8	1	05/27/25 13:59	05/29/25 22:53	914637-49-3	
6:2 FTS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	27619-97-2	
7:3 FTCA	ND	ng/L	38.8	1	05/27/25 13:59	05/29/25 22:53	812-70-4	
8:2 FTS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	756426-58-1	
ADONA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	919005-14-4	
HFPO-DA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	4151-50-2	
NEtFOSE	ND	ng/L	15.5	1	05/27/25 13:59	05/29/25 22:53	1691-99-2	
NFDHA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	31506-32-8	
NMeFOSE	ND	ng/L	15.5	1	05/27/25 13:59	05/29/25 22:53	24448-09-7	
PFBS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	375-73-5	
PFDA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	335-76-2	
PFHxA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	307-24-4	
PFBA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	375-22-4	
PFDS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	335-77-3	
PFDoS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	113507-82-7	
PFHpS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	863090-89-5	
PFMPA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	377-73-1	
PFNS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	68259-12-1	
PFOSA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	2706-90-3	
PFPeS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	2706-91-4	
PFDoA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	307-55-1	
PFHpA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	375-85-9	
PFHxS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	355-46-4	
PFNA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	375-95-1	
PFOS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	1763-23-1	
PFOA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	335-67-1	
PFTeDA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	376-06-7	
PFTrDA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	72629-94-8	
PFUnA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	2058-94-8	
Surrogates								
13C2-PFDoA (S)	84	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
13C3HFPO-DA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C3-PFBS (S)	90	%.	40-135	1	05/27/25 13:59	05/29/25 22:53		
13C3-PFHxS (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-91 **Lab ID: 10733872010** Collected: 05/06/25 15:40 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 515.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	92	%.	5-130	1	05/27/25 13:59	05/29/25 22:53		
13C4-PFHpA (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C5-PFHxA (S)	93	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C5-PFPeA (S)	92	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C6-PFDA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C8-PFOA (S)	90	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C8-PFOS (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C8-PFOSA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C9-PFNA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
d3-MeFOSAA (S)	96	%.	40-170	1	05/27/25 13:59	05/29/25 22:53		
d3-NMeFOSA (S)	57	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
d5-EtFOSAA (S)	96	%.	25-135	1	05/27/25 13:59	05/29/25 22:53		
d5-NEtFOSA (S)	57	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
d7-NMeFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
d9-NEtFOSE (S)	76	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
13C2-PFTA (S)	80	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
13C7-PFUdA (S)	87	%.	30-130	1	05/27/25 13:59	05/29/25 22:53		
13C24:2FTS (S)	123	%.	40-200	1	05/27/25 13:59	05/29/25 22:53		
13C26:2FTS (S)	116	%.	40-200	1	05/27/25 13:59	05/29/25 22:53		
13C28:2FTS (S)	109	%.	40-300	1	05/27/25 13:59	05/29/25 22:53		
13C3-PFPrA (S)	20	%.	5-130	1	05/27/25 13:59	05/29/25 22:53		

Sample: TRIP BLANK **Lab ID: 10733872011** Collected: 05/06/25 08:00 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 507.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	763051-92-9	
3:3 FTCA	ND	ng/L	7.9	1	05/28/25 06:49	05/29/25 15:49	356-02-5	
4:2 FTS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	757124-72-4	
5:3 FTCA	ND	ng/L	39.4	1	05/28/25 06:49	05/29/25 15:49	914637-49-3	
6:2 FTS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	27619-97-2	
7:3 FTCA	ND	ng/L	39.4	1	05/28/25 06:49	05/29/25 15:49	812-70-4	
8:2 FTS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	756426-58-1	
ADONA	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	919005-14-4	
HFPO-DA	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	4151-50-2	
NEtFOSE	ND	ng/L	15.8	1	05/28/25 06:49	05/29/25 15:49	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: TRIP BLANK **Lab ID: 10733872011** Collected: 05/06/25 08:00 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 507.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	31506-32-8	
NMeFOSE	ND	ng/L	15.8	1	05/28/25 06:49	05/29/25 15:49	24448-09-7	
PFBS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	375-73-5	
PFDA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	335-76-2	
PFHxA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	307-24-4	
PFBA	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	375-22-4	
PFDS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	335-77-3	
PFDoS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	79780-39-5	
PFEESA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	113507-82-7	
PFHpS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	375-92-8	
PFMBA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	863090-89-5	
PFMPA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	377-73-1	
PFNS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	68259-12-1	
PFOSA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	754-91-6	
PFPeA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	2706-90-3	
PFPeS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	2706-91-4	
PFDoA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	307-55-1	
PFHpA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	375-85-9	
PFHxS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	355-46-4	
PFNA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	375-95-1	
PFOS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	1763-23-1	
PFOA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	335-67-1	
PFTeDA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	376-06-7	
PFTrDA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	72629-94-8	
PFUnA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	2058-94-8	
Surrogates								
13C2-PFDoA (S)	84	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
13C3HFPO-DA (S)	93	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C3-PFBS (S)	95	%.	40-135	1	05/28/25 06:49	05/29/25 15:49		
13C3-PFHxS (S)	98	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C4-PFBA (S)	94	%.	5-130	1	05/28/25 06:49	05/29/25 15:49		
13C4-PFHpA (S)	98	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C5-PFHxA (S)	95	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C5-PFPeA (S)	95	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C6-PFDA (S)	91	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C8-PFOA (S)	102	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C8-PFOS (S)	93	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C8-PFOSA (S)	84	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C9-PFNA (S)	91	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
d3-MeFOSAA (S)	98	%.	40-170	1	05/28/25 06:49	05/29/25 15:49		
d3-NMeFOSA (S)	59	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
d5-EtFOSAA (S)	95	%.	25-135	1	05/28/25 06:49	05/29/25 15:49		
d5-NEtFOSA (S)	61	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: TRIP BLANK **Lab ID: 10733872011** Collected: 05/06/25 08:00 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 507.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	79	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
d9-NEtFOSE (S)	80	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
13C2-PFTA (S)	82	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
13C7-PFUdA (S)	89	%.	30-130	1	05/28/25 06:49	05/29/25 15:49		
13C24:2FTS (S)	134	%.	40-200	1	05/28/25 06:49	05/29/25 15:49		
13C26:2FTS (S)	126	%.	40-200	1	05/28/25 06:49	05/29/25 15:49		
13C28:2FTS (S)	116	%.	40-300	1	05/28/25 06:49	05/29/25 15:49		
13C3-PFPrA (S)	89	%.	5-130	1	05/28/25 06:49	05/29/25 15:49		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

QC Batch: 1007578
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10733872001, 10733872002, 10733872003, 10733872004, 10733872005, 10733872006, 10733872007, 10733872008, 10733872009, 10733872010

METHOD BLANK: 5253128
Matrix: Water
Associated Lab Samples: 10733872001, 10733872002, 10733872003, 10733872004, 10733872005, 10733872006, 10733872007, 10733872008, 10733872009, 10733872010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	05/29/25 19:21	
3:3 FTCA	ng/L	ND	8.0	05/29/25 19:21	
4:2 FTS	ng/L	ND	6.4	05/29/25 19:21	
5:3 FTCA	ng/L	ND	40.0	05/29/25 19:21	
6:2 FTS	ng/L	ND	6.4	05/29/25 19:21	
7:3 FTCA	ng/L	ND	40.0	05/29/25 19:21	
8:2 FTS	ng/L	ND	6.4	05/29/25 19:21	
9Cl-PF3ONS	ng/L	ND	6.4	05/29/25 19:21	
ADONA	ng/L	ND	6.4	05/29/25 19:21	
HFPO-DA	ng/L	ND	6.4	05/29/25 19:21	
NEtFOSA	ng/L	ND	1.6	05/29/25 19:21	
NEtFOSAA	ng/L	ND	1.6	05/29/25 19:21	
NEtFOSE	ng/L	ND	16.0	05/29/25 19:21	
NFDHA	ng/L	ND	3.2	05/29/25 19:21	
NMeFOSA	ng/L	ND	1.6	05/29/25 19:21	
NMeFOSAA	ng/L	ND	1.6	05/29/25 19:21	
NMeFOSE	ng/L	ND	16.0	05/29/25 19:21	
PFBA	ng/L	ND	6.4	05/29/25 19:21	
PFBS	ng/L	ND	1.6	05/29/25 19:21	
PFDA	ng/L	ND	1.6	05/29/25 19:21	
PFDoA	ng/L	ND	1.6	05/29/25 19:21	
PFDoS	ng/L	ND	1.6	05/29/25 19:21	
PFDS	ng/L	ND	1.6	05/29/25 19:21	
PFEESA	ng/L	ND	3.2	05/29/25 19:21	
PFHpA	ng/L	ND	1.6	05/29/25 19:21	
PFHpS	ng/L	ND	1.6	05/29/25 19:21	
PFHxA	ng/L	ND	1.6	05/29/25 19:21	
PFHxS	ng/L	ND	1.6	05/29/25 19:21	
PFMBA	ng/L	ND	3.2	05/29/25 19:21	
PFMPA	ng/L	ND	3.2	05/29/25 19:21	
PFNA	ng/L	ND	1.6	05/29/25 19:21	
PFNS	ng/L	ND	1.6	05/29/25 19:21	
PFOA	ng/L	ND	1.6	05/29/25 19:21	
PFOS	ng/L	ND	1.6	05/29/25 19:21	
PFOSA	ng/L	ND	1.6	05/29/25 19:21	
PFPeA	ng/L	ND	3.2	05/29/25 19:21	
PFPeS	ng/L	ND	1.6	05/29/25 19:21	
PFTeDA	ng/L	ND	1.6	05/29/25 19:21	
PFTrDA	ng/L	ND	1.6	05/29/25 19:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

METHOD BLANK: 5253128 Matrix: Water

Associated Lab Samples: 10733872001, 10733872002, 10733872003, 10733872004, 10733872005, 10733872006, 10733872007, 10733872008, 10733872009, 10733872010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PFUnA	ng/L	ND	1.6	05/29/25 19:21	
13C2-PFDoA (S)	%.	90	10-130	05/29/25 19:21	
13C2-PFTA (S)	%.	83	10-130	05/29/25 19:21	
13C24:2FTS (S)	%.	120	40-200	05/29/25 19:21	
13C26:2FTS (S)	%.	122	40-200	05/29/25 19:21	
13C28:2FTS (S)	%.	108	40-300	05/29/25 19:21	
13C3-PFBS (S)	%.	89	40-135	05/29/25 19:21	
13C3-PFHxS (S)	%.	91	40-130	05/29/25 19:21	
13C3-PFPrA (S)	%.	88	5-130	05/29/25 19:21	
13C3HFPO-DA (S)	%.	94	40-130	05/29/25 19:21	
13C4-PFBA (S)	%.	91	5-130	05/29/25 19:21	
13C4-PFHpA (S)	%.	98	40-130	05/29/25 19:21	
13C5-PFHxA (S)	%.	92	40-130	05/29/25 19:21	
13C5-PFPeA (S)	%.	93	40-130	05/29/25 19:21	
13C6-PFDA (S)	%.	91	40-130	05/29/25 19:21	
13C7-PFUdA (S)	%.	91	30-130	05/29/25 19:21	
13C8-PFOA (S)	%.	95	40-130	05/29/25 19:21	
13C8-PFOS (S)	%.	94	40-130	05/29/25 19:21	
13C8-PFOSA (S)	%.	88	40-130	05/29/25 19:21	
13C9-PFNA (S)	%.	93	40-130	05/29/25 19:21	
d3-MeFOSAA (S)	%.	102	40-170	05/29/25 19:21	
d3-NMeFOSA (S)	%.	69	10-130	05/29/25 19:21	
d5-EtFOSAA (S)	%.	103	25-135	05/29/25 19:21	
d5-NEtFOSA (S)	%.	73	10-130	05/29/25 19:21	
d7-NMeFOSE (S)	%.	88	10-130	05/29/25 19:21	
d9-NEtFOSE (S)	%.	89	10-130	05/29/25 19:21	

LABORATORY CONTROL SAMPLE: 5253129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	65.3	87	55-160	
3:3 FTCA	ng/L	99.2	78.6	79	65-130	
4:2 FTS	ng/L	75.2	72.0	96	70-145	
5:3 FTCA	ng/L	496	395	80	70-135	
6:2 FTS	ng/L	76.8	69.7	91	65-155	
7:3 FTCA	ng/L	496	408	82	50-145	
8:2 FTS	ng/L	76.8	70.3	92	60-150	
9Cl-PF3ONS	ng/L	75.2	69.7	93	70-155	
ADONA	ng/L	75.2	65.2	87	65-145	
HFPO-DA	ng/L	80	72.0	90	70-140	
NEtFOSA	ng/L	19.2	17.5	91	65-145	
NEtFOSAA	ng/L	19.2	16.7	87	70-145	
NEtFOSE	ng/L	192	168	87	70-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5253129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NFDHA	ng/L	40	34.7	87	50-150	
NMeFOSA	ng/L	19.2	17.6	92	60-150	
NMeFOSAA	ng/L	19.2	16.4	85	50-140	
NMeFOSE	ng/L	192	172	89	70-145	
PFBA	ng/L	80	71.0	89	70-140	
PFBS	ng/L	17.6	16.0	91	60-145	
PFDA	ng/L	19.2	18.5	96	70-140	
PFDoA	ng/L	19.2	18.6	97	70-140	
PFDoS	ng/L	19.2	16.8	87	50-145	
PFDS	ng/L	19.2	16.1	84	60-145	
PFEESA	ng/L	35.2	31.4	89	70-140	
PFHpA	ng/L	19.2	17.5	91	70-150	
PFHpS	ng/L	19.2	17.1	89	70-150	
PFHxA	ng/L	19.2	17.1	89	70-145	
PFHxS	ng/L	17.6	15.7	89	65-145	
PFMBA	ng/L	40	35.7	89	60-150	
PFMPA	ng/L	40	34.3	86	55-140	
PFNA	ng/L	19.2	17.4	91	70-150	
PFNS	ng/L	19.2	16.3	85	65-145	
PFOA	ng/L	19.2	17.3	90	70-150	
PFOS	ng/L	19.2	15.4	80	55-150	
PFOSA	ng/L	19.2	17.1	89	70-145	
PFPeA	ng/L	40	35.1	88	65-135	
PFPeS	ng/L	19.2	15.9	83	65-140	
PFTeDA	ng/L	19.2	18.4	96	60-140	
PFTrDA	ng/L	19.2	17.2	89	65-140	
PFUnA	ng/L	19.2	16.6	87	70-145	
13C2-PFDoA (S)	%.			77	10-130	
13C2-PFTA (S)	%.			74	10-130	
13C24:2FTS (S)	%.			99	40-200	
13C26:2FTS (S)	%.			98	40-200	
13C28:2FTS (S)	%.			94	40-300	
13C3-PFBS (S)	%.			82	40-135	
13C3-PFHxS (S)	%.			86	40-130	
13C3-PFPrA (S)	%.			82	5-130	
13C3HFPO-DA (S)	%.			86	40-130	
13C4-PFBA (S)	%.			84	5-130	
13C4-PFHpA (S)	%.			90	40-130	
13C5-PFHxA (S)	%.			88	40-130	
13C5-PFPeA (S)	%.			85	40-130	
13C6-PFDA (S)	%.			82	40-130	
13C7-PFUdA (S)	%.			84	30-130	
13C8-PFOA (S)	%.			84	40-130	
13C8-PFOS (S)	%.			86	40-130	
13C8-PFOSA (S)	%.			82	40-130	
13C9-PFNA (S)	%.			81	40-130	
d3-MeFOSAA (S)	%.			92	40-170	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5253129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d3-NMeFOSA (S)	%.			64	10-130	
d5-EtFOSAA (S)	%.			92	25-135	
d5-NEtFOSA (S)	%.			66	10-130	
d7-NMeFOSE (S)	%.			80	10-130	
d9-NEtFOSE (S)	%.			83	10-130	

LABORATORY CONTROL SAMPLE: 5253130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	10.0	83	55-160	
3:3 FTCA	ng/L	15.9	12.8	80	65-130	
4:2 FTS	ng/L	12	10.1	84	70-145	
5:3 FTCA	ng/L	79.4	57.0	72	70-135	
6:2 FTS	ng/L	12.3	9.7	79	65-155	
7:3 FTCA	ng/L	79.4	61.3	77	50-145	
8:2 FTS	ng/L	12.3	10.4	85	60-150	
9Cl-PF3ONS	ng/L	12	10.3	85	70-155	
ADONA	ng/L	12	10.1	84	65-145	
HFPO-DA	ng/L	12.8	11.5	90	70-140	
NEtFOSA	ng/L	3.1	2.7	88	65-145	
NEtFOSAA	ng/L	3.1	2.6	84	70-145	
NEtFOSE	ng/L	30.7	25.1	82	70-135	
NFDHA	ng/L	6.4	5.6	87	50-150	
NMeFOSA	ng/L	3.1	2.6	84	60-150	
NMeFOSAA	ng/L	3.1	2.5	80	50-140	
NMeFOSE	ng/L	30.7	26.0	85	70-145	
PFBA	ng/L	12.8	10.4	81	70-140	
PFBS	ng/L	2.8	2.2	80	60-145	
PFDA	ng/L	3.1	2.9	95	70-140	
PFDoA	ng/L	3.1	2.7	87	70-140	
PFDoS	ng/L	3.1	2.6	85	50-145	
PFDS	ng/L	3.1	2.5	81	60-145	
PFEESA	ng/L	5.6	4.7	84	70-140	
PFHpA	ng/L	3.1	2.6	85	70-150	
PFHpS	ng/L	3.1	2.3	74	70-150	
PFHxA	ng/L	3.1	2.5	81	70-145	
PFHxS	ng/L	2.8	2.6	92	65-145	
PFMBA	ng/L	6.4	5.0	78	60-150	
PFMPA	ng/L	6.4	5.1	80	55-140	
PFNA	ng/L	3.1	2.5	83	70-150	
PFNS	ng/L	3.1	2.4	78	65-145	
PFOA	ng/L	3.1	2.7	87	70-150	
PFOS	ng/L	3.1	2.6	83	55-150	
PFOSA	ng/L	3.1	2.7	87	70-145	
PFPeA	ng/L	6.4	5.2	82	65-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5253130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFPeS	ng/L	3.1	2.4	79	65-140	
PFTeDA	ng/L	3.1	2.6	86	60-140	
PFTrDA	ng/L	3.1	2.4	78	65-140	
PFUnA	ng/L	3.1	2.4	77	70-145	
13C2-PFDoA (S)	%.			58	10-130	
13C2-PFTA (S)	%.			56	10-130	
13C24:2FTS (S)	%.			85	40-200	
13C26:2FTS (S)	%.			81	40-200	
13C28:2FTS (S)	%.			76	40-300	
13C3-PFBS (S)	%.			63	40-135	
13C3-PFHxS (S)	%.			66	40-130	
13C3-PFPrA (S)	%.			64	5-130	
13C3HFPO-DA (S)	%.			63	40-130	
13C4-PFBA (S)	%.			65	5-130	
13C4-PFHpA (S)	%.			67	40-130	
13C5-PFHxA (S)	%.			64	40-130	
13C5-PFPeA (S)	%.			65	40-130	
13C6-PFDA (S)	%.			60	40-130	
13C7-PFUdA (S)	%.			60	30-130	
13C8-PFOA (S)	%.			62	40-130	
13C8-PFOS (S)	%.			62	40-130	
13C8-PFOSA (S)	%.			59	40-130	
13C9-PFNA (S)	%.			62	40-130	
d3-MeFOSAA (S)	%.			68	40-170	
d3-NMeFOSA (S)	%.			45	10-130	
d5-EtFOSAA (S)	%.			68	25-135	
d5-NEtFOSA (S)	%.			47	10-130	
d7-NMeFOSE (S)	%.			55	10-130	
d9-NEtFOSE (S)	%.			57	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

QC Batch: 1008996
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10733872011

METHOD BLANK: 5261023 Matrix: Water
Associated Lab Samples: 10733872011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	05/29/25 12:59	
3:3 FTCA	ng/L	ND	8.0	05/29/25 12:59	
4:2 FTS	ng/L	ND	6.4	05/29/25 12:59	
5:3 FTCA	ng/L	ND	40.0	05/29/25 12:59	
6:2 FTS	ng/L	ND	6.4	05/29/25 12:59	
7:3 FTCA	ng/L	ND	40.0	05/29/25 12:59	
8:2 FTS	ng/L	ND	6.4	05/29/25 12:59	
9Cl-PF3ONS	ng/L	ND	6.4	05/29/25 12:59	
ADONA	ng/L	ND	6.4	05/29/25 12:59	
HFPO-DA	ng/L	ND	6.4	05/29/25 12:59	
NEtFOSA	ng/L	ND	1.6	05/29/25 12:59	
NEtFOSAA	ng/L	ND	1.6	05/29/25 12:59	
NEtFOSE	ng/L	ND	16.0	05/29/25 12:59	
NFDHA	ng/L	ND	3.2	05/29/25 12:59	
NMeFOSA	ng/L	ND	1.6	05/29/25 12:59	
NMeFOSAA	ng/L	ND	1.6	05/29/25 12:59	
NMeFOSE	ng/L	ND	16.0	05/29/25 12:59	
PFBA	ng/L	ND	6.4	05/29/25 12:59	
PFBS	ng/L	ND	1.6	05/29/25 12:59	
PFDA	ng/L	ND	1.6	05/29/25 12:59	
PFDoA	ng/L	ND	1.6	05/29/25 12:59	
PFDoS	ng/L	ND	1.6	05/29/25 12:59	
PFDS	ng/L	ND	1.6	05/29/25 12:59	
PFEESA	ng/L	ND	3.2	05/29/25 12:59	
PFHpA	ng/L	ND	1.6	05/29/25 12:59	
PFHpS	ng/L	ND	1.6	05/29/25 12:59	
PFHxA	ng/L	ND	1.6	05/29/25 12:59	
PFHxS	ng/L	ND	1.6	05/29/25 12:59	
PFMBA	ng/L	ND	3.2	05/29/25 12:59	
PFMPA	ng/L	ND	3.2	05/29/25 12:59	
PFNA	ng/L	ND	1.6	05/29/25 12:59	
PFNS	ng/L	ND	1.6	05/29/25 12:59	
PFOA	ng/L	ND	1.6	05/29/25 12:59	
PFOS	ng/L	ND	1.6	05/29/25 12:59	
PFOSA	ng/L	ND	1.6	05/29/25 12:59	
PFPeA	ng/L	ND	3.2	05/29/25 12:59	
PFPeS	ng/L	ND	1.6	05/29/25 12:59	
PFTeDA	ng/L	ND	1.6	05/29/25 12:59	
PFTrDA	ng/L	ND	1.6	05/29/25 12:59	
PFUnA	ng/L	ND	1.6	05/29/25 12:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

METHOD BLANK: 5261023 Matrix: Water
Associated Lab Samples: 10733872011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	89	10-130	05/29/25 12:59	
13C2-PFTA (S)	%.	84	10-130	05/29/25 12:59	
13C24:2FTS (S)	%.	134	40-200	05/29/25 12:59	
13C26:2FTS (S)	%.	123	40-200	05/29/25 12:59	
13C28:2FTS (S)	%.	116	40-300	05/29/25 12:59	
13C3-PFBS (S)	%.	95	40-135	05/29/25 12:59	
13C3-PFHxS (S)	%.	96	40-130	05/29/25 12:59	
13C3-PFPrA (S)	%.	88	5-130	05/29/25 12:59	
13C3HFPO-DA (S)	%.	97	40-130	05/29/25 12:59	
13C4-PFBA (S)	%.	96	5-130	05/29/25 12:59	
13C4-PFHpA (S)	%.	101	40-130	05/29/25 12:59	
13C5-PFHxA (S)	%.	101	40-130	05/29/25 12:59	
13C5-PFPeA (S)	%.	98	40-130	05/29/25 12:59	
13C6-PFDA (S)	%.	94	40-130	05/29/25 12:59	
13C7-PFUdA (S)	%.	95	30-130	05/29/25 12:59	
13C8-PFOA (S)	%.	102	40-130	05/29/25 12:59	
13C8-PFOS (S)	%.	96	40-130	05/29/25 12:59	
13C8-PFOSA (S)	%.	90	40-130	05/29/25 12:59	
13C9-PFNA (S)	%.	93	40-130	05/29/25 12:59	
d3-MeFOSAA (S)	%.	101	40-170	05/29/25 12:59	
d3-NMeFOSA (S)	%.	64	10-130	05/29/25 12:59	
d5-EtFOSAA (S)	%.	104	25-135	05/29/25 12:59	
d5-NEtFOSA (S)	%.	67	10-130	05/29/25 12:59	
d7-NMeFOSE (S)	%.	82	10-130	05/29/25 12:59	
d9-NEtFOSE (S)	%.	85	10-130	05/29/25 12:59	

LABORATORY CONTROL SAMPLE: 5261024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	68.0	90	55-160	
3:3 FTCA	ng/L	99.2	79.1	80	65-130	
4:2 FTS	ng/L	75.2	72.3	96	70-145	
5:3 FTCA	ng/L	496	404	81	70-135	
6:2 FTS	ng/L	76.8	73.0	95	65-155	
7:3 FTCA	ng/L	496	401	81	50-145	
8:2 FTS	ng/L	76.8	73.8	96	60-150	
9Cl-PF3ONS	ng/L	75.2	71.0	94	70-155	
ADONA	ng/L	75.2	71.7	95	65-145	
HFPO-DA	ng/L	80	71.9	90	70-140	
NEtFOSA	ng/L	19.2	16.5	86	65-145	
NEtFOSAA	ng/L	19.2	16.9	88	70-145	
NEtFOSE	ng/L	192	177	92	70-135	
NFDHA	ng/L	40	36.3	91	50-150	
NMeFOSA	ng/L	19.2	18.1	94	60-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5261024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ng/L	19.2	16.6	87	50-140	
NMeFOSE	ng/L	192	180	94	70-145	
PFBA	ng/L	80	73.0	91	70-140	
PFBS	ng/L	17.6	16.3	93	60-145	
PFDA	ng/L	19.2	17.6	92	70-140	
PFDoA	ng/L	19.2	18.6	97	70-140	
PFDoS	ng/L	19.2	16.5	86	50-145	
PFDS	ng/L	19.2	16.0	83	60-145	
PFEESA	ng/L	35.2	32.3	92	70-140	
PFHpA	ng/L	19.2	18.3	96	70-150	
PFHpS	ng/L	19.2	17.1	89	70-150	
PFHxA	ng/L	19.2	17.5	91	70-145	
PFHxS	ng/L	17.6	16.1	92	65-145	
PFMBA	ng/L	40	36.6	92	60-150	
PFMPA	ng/L	40	35.2	88	55-140	
PFNA	ng/L	19.2	17.4	91	70-150	
PFNS	ng/L	19.2	16.5	86	65-145	
PFOA	ng/L	19.2	17.8	93	70-150	
PFOS	ng/L	19.2	15.5	81	55-150	
PFOSA	ng/L	19.2	17.5	91	70-145	
PFPeA	ng/L	40	36.6	91	65-135	
PFPeS	ng/L	19.2	16.3	85	65-140	
PFTeDA	ng/L	19.2	18.3	95	60-140	
PFTrDA	ng/L	19.2	16.6	87	65-140	
PFUnA	ng/L	19.2	16.9	88	70-145	
13C2-PFDoA (S)	%.			86	10-130	
13C2-PFTA (S)	%.			78	10-130	
13C24:2FTS (S)	%.			111	40-200	
13C26:2FTS (S)	%.			107	40-200	
13C28:2FTS (S)	%.			104	40-300	
13C3-PFBS (S)	%.			91	40-135	
13C3-PFHxS (S)	%.			95	40-130	
13C3-PFPrA (S)	%.			92	5-130	
13C3HFPO-DA (S)	%.			95	40-130	
13C4-PFBA (S)	%.			93	5-130	
13C4-PFHpA (S)	%.			94	40-130	
13C5-PFHxA (S)	%.			95	40-130	
13C5-PFPeA (S)	%.			93	40-130	
13C6-PFDA (S)	%.			95	40-130	
13C7-PFUdA (S)	%.			91	30-130	
13C8-PFOA (S)	%.			92	40-130	
13C8-PFOS (S)	%.			92	40-130	
13C8-PFOSA (S)	%.			85	40-130	
13C9-PFNA (S)	%.			94	40-130	
d3-MeFOSAA (S)	%.			98	40-170	
d3-NMeFOSA (S)	%.			61	10-130	
d5-EtFOSAA (S)	%.			97	25-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5261024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			66	10-130	
d7-NMeFOSE (S)	%.			80	10-130	
d9-NEtFOSE (S)	%.			81	10-130	

LABORATORY CONTROL SAMPLE: 5261025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	11.2	93	55-160	
3:3 FTCA	ng/L	15.9	12.0	75	65-130	
4:2 FTS	ng/L	12	10.8	90	70-145	
5:3 FTCA	ng/L	79.4	63.7	80	70-135	
6:2 FTS	ng/L	12.3	11.3	92	65-155	
7:3 FTCA	ng/L	79.4	62.3	78	50-145	
8:2 FTS	ng/L	12.3	10.7	87	60-150	
9Cl-PF3ONS	ng/L	12	11.8	98	70-155	
ADONA	ng/L	12	10.8	90	65-145	
HFPO-DA	ng/L	12.8	11.6	90	70-140	
NEtFOSA	ng/L	3.1	2.9	94	65-145	
NEtFOSAA	ng/L	3.1	2.5	81	70-145	
NEtFOSE	ng/L	30.7	27.0	88	70-135	
NFDHA	ng/L	6.4	5.8	91	50-150	
NMeFOSA	ng/L	3.1	2.9	95	60-150	
NMeFOSAA	ng/L	3.1	2.9	94	50-140	
NMeFOSE	ng/L	30.7	27.0	88	70-145	
PFBA	ng/L	12.8	11.1	87	70-140	
PFBS	ng/L	2.8	2.6	92	60-145	
PFDA	ng/L	3.1	2.8	91	70-140	
PFDoA	ng/L	3.1	3.0	97	70-140	
PFDoS	ng/L	3.1	2.8	91	50-145	
PFDS	ng/L	3.1	2.6	86	60-145	
PFEESA	ng/L	5.6	5.2	92	70-140	
PFHpA	ng/L	3.1	2.9	93	70-150	
PFHpS	ng/L	3.1	2.6	84	70-150	
PFHxA	ng/L	3.1	2.9	95	70-145	
PFHxS	ng/L	2.8	2.7	95	65-145	
PFMBA	ng/L	6.4	5.5	86	60-150	
PFMPA	ng/L	6.4	5.6	87	55-140	
PFNA	ng/L	3.1	2.7	89	70-150	
PFNS	ng/L	3.1	2.6	86	65-145	
PFOA	ng/L	3.1	2.7	89	70-150	
PFOS	ng/L	3.1	2.7	88	55-150	
PFOSA	ng/L	3.1	2.8	91	70-145	
PFPeA	ng/L	6.4	5.6	88	65-135	
PFPeS	ng/L	3.1	2.5	81	65-140	
PFTeDA	ng/L	3.1	2.9	93	60-140	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5261025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ng/L	3.1	2.7	88	65-140	
PFUnA	ng/L	3.1	2.6	84	70-145	
13C2-PFDoA (S)	%.			78	10-130	
13C2-PFTA (S)	%.			76	10-130	
13C24:2FTS (S)	%.			118	40-200	
13C26:2FTS (S)	%.			109	40-200	
13C28:2FTS (S)	%.			107	40-300	
13C3-PFBS (S)	%.			85	40-135	
13C3-PFHxS (S)	%.			87	40-130	
13C3-PFPrA (S)	%.			85	5-130	
13C3HFPO-DA (S)	%.			85	40-130	
13C4-PFBA (S)	%.			85	5-130	
13C4-PFHpA (S)	%.			86	40-130	
13C5-PFHxA (S)	%.			85	40-130	
13C5-PFPeA (S)	%.			85	40-130	
13C6-PFDA (S)	%.			86	40-130	
13C7-PFUdA (S)	%.			84	30-130	
13C8-PFOA (S)	%.			86	40-130	
13C8-PFOS (S)	%.			80	40-130	
13C8-PFOSA (S)	%.			76	40-130	
13C9-PFNA (S)	%.			81	40-130	
d3-MeFOSAA (S)	%.			88	40-170	
d3-NMeFOSA (S)	%.			58	10-130	
d5-EtFOSAA (S)	%.			87	25-135	
d5-NEtFOSA (S)	%.			61	10-130	
d7-NMeFOSE (S)	%.			74	10-130	
d9-NEtFOSE (S)	%.			73	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: L1856433 WG2510324
Pace Project No.: 10733872

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1856433 WG2510324
Pace Project No.: 10733872

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10733872011	**TRIP BLANK**	EPA 1633	1008996	EPA 1633	1009956
10733872001	**SWS-05**	EPA 1633	1007578	EPA 1633	1009827
10733872002	**DWS-85**	EPA 1633	1007578	EPA 1633	1009827
10733872003	**DWS-56**	EPA 1633	1007578	EPA 1633	1009827
10733872004	**DWS-86**	EPA 1633	1007578	EPA 1633	1009827
10733872005	**DWS-87**	EPA 1633	1007578	EPA 1633	1009827
10733872007	**DUPE-04**	EPA 1633	1007578	EPA 1633	1009827
10733872006	**DWS-88**	EPA 1633	1007578	EPA 1633	1009827
10733872008	**DWS-89**	EPA 1633	1007578	EPA 1633	1009827
10733872009	**DWS-90**	EPA 1633	1007578	EPA 1633	1009827
10733872010	**DWS-91**	EPA 1633	1007578	EPA 1633	1009827

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sub-Contract Chain of Custody

Batch Date/Time: 05/08/25 13:12
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2510324
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 05/30/25
ESC Purchase Order #: L1856433
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
SWS-05 PFAS-500HDPE-NoPres - S51561690 PFAS-500HDPE-NoPres - S51561691	GW	NM	05/06/25 09:55	PFAS1633	1. L1856433-01	Level 4
DWS-85 PFAS-500HDPE-NoPres - 51875122 PFAS-500HDPE-NoPres - 51875123	GW	NM	05/06/25 10:15	PFAS1633	2. L1856433-02	Level 4
DWS-56 PFAS-500HDPE-NoPres - 51875124 PFAS-500HDPE-NoPres - 51875125	GW	NM	05/06/25 11:10	PFAS1633	3. L1856433-03	Level 4
DWS-86 PFAS-500HDPE-NoPres - 51875126 PFAS-500HDPE-NoPres - 51875127	GW	NM	05/06/25 11:38	PFAS1633	4. L1856433-04	Level 4
DWS-87 PFAS-500HDPE-NoPres - 51875128 PFAS-500HDPE-NoPres - 51875129	GW	NM	05/06/25 12:08	PFAS1633	5. L1856433-05	Level 4
DWS-88 PFAS-500HDPE-NoPres - 51875130 PFAS-500HDPE-NoPres - 51875131	GW	NM	05/06/25 12:33	PFAS1633	6. L1856433-06	Level 4
DUPE-04 PFAS-500HDPE-NoPres - 51875132 PFAS-500HDPE-NoPres - 51875133	GW	NM	05/06/25 12:30	PFAS1633	7. L1856433-07	Level 4
DWS-89 PFAS-500HDPE-NoPres - 51875134 PFAS-500HDPE-NoPres - 51875135	GW	NM	05/06/25 14:19	PFAS1633	8. L1856433-08	Level 4
DWS-90 PFAS-500HDPE-NoPres - 51875136 PFAS-500HDPE-NoPres - 51875137	GW	NM	05/06/25 14:59	PFAS1633	9. L1856433-09	Level 4
DWS-91 PFAS-500HDPE-NoPres - 51875138 PFAS-500HDPE-NoPres - 51875139	GW	NM	05/06/25 15:40	PFAS1633	10. L1856433-10	Level 4
TRIP BLANK PFAS-500HDPE-NoPres - 51875140	GW	NM	05/06/25 08:00	PFAS1633	11. L1856433-11	Level 4

*= Container used for multiple Samples and/or Analyses

Relinquished by: _____ **Date** 5-8-25

Received by: Pace **Date** 5-9-25 850

Relinquished by: _____ **Date** _____

Received by: _____ **Date** _____

WO#: 10733872

10733872

ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: EC 5-9-25 PROJECT #: WO#: 10733872

PM: TKL Due Date: 06/23/25

CLIENT: PASI-TN

Client Name: Pace MTJL

Custody Seal Present: ☑ YES ☐ NO Seals Intact: ☑ YES ☐ NO

Tracking Number: 4439 2458 5660 ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☐ Bubble Bags ☐ Bubble Wrap ☑ None ☐ Other: _____ Biological Tissue Frozen: ☐ YES ☑ NO

Thermometer: ☑ T1 (0461) ☐ T2 (0431) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0187) ☐ T6 (0396) ☐ T7 (0377) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Temp Blank: ☑ YES ☐ NO

NOTE: Temp should be ≤ 6°C, but above freezing.

Read Temp w/Temp Blank: 1.3 °C

Correction Factor: 0.0

Corrected Temp w/Temp Blank: 1.3 °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): _____

☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☑ N/A - Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☐ NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (International, including Hawaii and Puerto Rico): ☐ YES ☐ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA

	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☑	☐	3.
Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr	☑	☐		4.
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other:
Rush Turn Around Time Requested?	☑	☐		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date: 5-30-25
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? (If NO, fill out section 11.) Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.

Sample #:

☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____

pH Paper Lot #:

☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip _____

Positive for Residual Chlorine (NaOH containers only): ☐ YES ☐ NO

Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0142
EXCECTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐	☐	☑	
Extra labels present on soil VOA or WIDRO containers? (soil only)	☐	☐	☑	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION:

Labeled By: EC Line: 3

Person Contacted & Date/Time: _____ PM Review & Date: 5/9/25

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 10733872

Table Of Contents

Project Overview

Final Report with COC/SCUR . . . 1

Certifications . . . 2

Sample Summary . . . 3

Sample Analyte Count . . . 4

Analytical Results . . . 5

Quality Control Data . . . 24

Qualifiers . . . 34

Quality Control Data Cross Reference Table . . . 35

Chain of Custody . . . 36

Specialty

PFAS

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) . . . 38

Method Blank Association Summary (Form 4) . . . 42

Injected Internal Standard Summary (Form 8) . . . 44

Extracted Internal Standard Summary (Form 8) . . . 46

Analytical Results with Raw Data (Form 1) . . . 51

Calibration Summary . . . 73

Continuing Calibration Summary (Form 7) . . . 181

PFAS Raw Data (Multiple Schedules/Sample) . . . 188

QC Raw Data . . . 1358

Sample Preparations Log Raw Data . . . 1370

Instrument Run Logs . . . 1376

Mass Calibration . . . 1379

Ion Ratio Failure Summary . . . 1380

Standard Traceability . . . 1383

Certificate of Analysis . . . 1426

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

June 02, 2025

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1856433 WG2510324
Pace Project No.: 10733872

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for Testing & Innovation

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification via A2LA #: R-036
North Dakota Certification via MN #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: L1856433 WG2510324
Pace Project No.: 10733872

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10733872001	**SWS-05**	Water	05/06/25 09:55	05/09/25 08:50
10733872002	**DWS-85**	Water	05/06/25 10:15	05/09/25 08:50
10733872003	**DWS-56**	Water	05/06/25 11:10	05/09/25 08:50
10733872004	**DWS-86**	Water	05/06/25 11:38	05/09/25 08:50
10733872005	**DWS-87**	Water	05/06/25 12:08	05/09/25 08:50
10733872006	**DWS-88**	Water	05/06/25 12:33	05/09/25 08:50
10733872007	**DUPE-04**	Water	05/06/25 12:30	05/09/25 08:50
10733872008	**DWS-89**	Water	05/06/25 14:19	05/09/25 08:50
10733872009	**DWS-90**	Water	05/06/25 14:59	05/09/25 08:50
10733872010	**DWS-91**	Water	05/06/25 15:40	05/09/25 08:50
10733872011	**TRIP BLANK**	Water	05/06/25 08:00	05/09/25 08:50

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: L1856433 WG2510324
Pace Project No.: 10733872

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10733872001	**SWS-05**	EPA 1633	MJL	65	PASI-M
10733872002	**DWS-85**	EPA 1633	MJL	65	PASI-M
10733872003	**DWS-56**	EPA 1633	MJL	65	PASI-M
10733872004	**DWS-86**	EPA 1633	MJL	65	PASI-M
10733872005	**DWS-87**	EPA 1633	MJL	65	PASI-M
10733872006	**DWS-88**	EPA 1633	MJL	65	PASI-M
10733872007	**DUPE-04**	EPA 1633	MJL	65	PASI-M
10733872008	**DWS-89**	EPA 1633	MJL	65	PASI-M
10733872009	**DWS-90**	EPA 1633	MJL	65	PASI-M
10733872010	**DWS-91**	EPA 1633	MJL	65	PASI-M
10733872011	**TRIP BLANK**	EPA 1633	NBH	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: SWS-05 **Lab ID: 10733872001** Collected: 05/06/25 09:55 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 125.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	763051-92-9	
3:3 FTCA	ND	ng/L	31.8	1	05/27/25 13:59	05/29/25 20:17	356-02-5	
4:2 FTS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	757124-72-4	
5:3 FTCA	ND	ng/L	159	1	05/27/25 13:59	05/29/25 20:17	914637-49-3	
6:2 FTS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	27619-97-2	
7:3 FTCA	ND	ng/L	159	1	05/27/25 13:59	05/29/25 20:17	812-70-4	
8:2 FTS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	39108-34-4	
9Cl-PF3ONS	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	756426-58-1	
ADONA	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	919005-14-4	
HFPO-DA	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	13252-13-6	
NEtFOSAA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	2991-50-6	
NEtFOSA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	4151-50-2	
NEtFOSE	ND	ng/L	63.6	1	05/27/25 13:59	05/29/25 20:17	1691-99-2	
NFDHA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	151772-58-6	
NMeFOSAA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	2355-31-9	
NMeFOSA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	31506-32-8	
NMeFOSE	ND	ng/L	63.6	1	05/27/25 13:59	05/29/25 20:17	24448-09-7	
PFBS	**6.7**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	375-73-5	
PFDA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	335-76-2	
PFHxA	**6.6**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	307-24-4	
PFBA	ND	ng/L	25.5	1	05/27/25 13:59	05/29/25 20:17	375-22-4	
PFDS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	335-77-3	
PFDoS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	79780-39-5	
PFEESA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	113507-82-7	
PFHpS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	375-92-8	
PFMBA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	863090-89-5	
PFMPA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	377-73-1	
PFNS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	68259-12-1	
PFOSA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	754-91-6	
PFPeA	ND	ng/L	12.7	1	05/27/25 13:59	05/29/25 20:17	2706-90-3	
PFPeS	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	2706-91-4	
PFDoA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	307-55-1	
PFHpA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	375-85-9	
PFHxS	**11.3**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	355-46-4	
PFNA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	375-95-1	
PFOS	**10.0**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	1763-23-1	
PFOA	**22.0**	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	335-67-1	
PFTeDA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	376-06-7	
PFTrDA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	72629-94-8	
PFUnA	ND	ng/L	6.4	1	05/27/25 13:59	05/29/25 20:17	2058-94-8	
Surrogates								
13C2-PFDoA (S)	58	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
13C3HFPO-DA (S)	70	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C3-PFBS (S)	64	%.	40-135	1	05/27/25 13:59	05/29/25 20:17		
13C3-PFHxS (S)	68	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: SWS-05 **Lab ID: 10733872001** Collected: 05/06/25 09:55 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 125.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	72	%.	5-130	1	05/27/25 13:59	05/29/25 20:17		
13C4-PFHpA (S)	71	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C5-PFHxA (S)	68	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C5-PFPeA (S)	70	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C6-PFDA (S)	65	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C8-PFOA (S)	64	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C8-PFOS (S)	66	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C8-PFOSA (S)	62	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
13C9-PFNA (S)	62	%.	40-130	1	05/27/25 13:59	05/29/25 20:17		
d3-MeFOSAA (S)	65	%.	40-170	1	05/27/25 13:59	05/29/25 20:17		
d3-NMeFOSA (S)	43	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
d5-EtFOSAA (S)	63	%.	25-135	1	05/27/25 13:59	05/29/25 20:17		
d5-NEtFOSA (S)	44	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
d7-NMeFOSE (S)	51	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
d9-NEtFOSE (S)	55	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
13C2-PFTA (S)	55	%.	10-130	1	05/27/25 13:59	05/29/25 20:17		
13C7-PFUdA (S)	60	%.	30-130	1	05/27/25 13:59	05/29/25 20:17		
13C24:2FTS (S)	91	%.	40-200	1	05/27/25 13:59	05/29/25 20:17		
13C26:2FTS (S)	83	%.	40-200	1	05/27/25 13:59	05/29/25 20:17		
13C28:2FTS (S)	78	%.	40-300	1	05/27/25 13:59	05/29/25 20:17		
13C3-PFPrA (S)	71	%.	5-130	1	05/27/25 13:59	05/29/25 20:17		

Sample: DWS-85 **Lab ID: 10733872002** Collected: 05/06/25 10:15 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 522.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	1	05/27/25 13:59	05/29/25 20:31	356-02-5	
4:2 FTS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	757124-72-4	
5:3 FTCA	ND	ng/L	38.3	1	05/27/25 13:59	05/29/25 20:31	914637-49-3	
6:2 FTS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	27619-97-2	
7:3 FTCA	ND	ng/L	38.3	1	05/27/25 13:59	05/29/25 20:31	812-70-4	
8:2 FTS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	756426-58-1	
ADONA	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	919005-14-4	
HFPO-DA	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	4151-50-2	
NEtFOSE	ND	ng/L	15.3	1	05/27/25 13:59	05/29/25 20:31	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-85 **Lab ID: 10733872002** Collected: 05/06/25 10:15 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 522.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	31506-32-8	
NMeFOSE	ND	ng/L	15.3	1	05/27/25 13:59	05/29/25 20:31	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	307-24-4	
PFBA	ND	ng/L	6.1	1	05/27/25 13:59	05/29/25 20:31	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	863090-89-5	
PFMPA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 20:31	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	375-85-9	
PFHxS	**3.5**	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	375-95-1	
PFOS	**2.4**	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	1763-23-1	
PFOA	**2.3**	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:31	2058-94-8	
Surrogates								
13C2-PFDoA (S)	76	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
13C3HFPO-DA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C3-PFBS (S)	97	%.	40-135	1	05/27/25 13:59	05/29/25 20:31		
13C3-PFHxS (S)	98	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C4-PFBA (S)	95	%.	5-130	1	05/27/25 13:59	05/29/25 20:31		
13C4-PFHpA (S)	99	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C5-PFHxA (S)	98	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C5-PFPeA (S)	95	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C6-PFDA (S)	88	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C8-PFOA (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C8-PFOS (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C8-PFOSA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
13C9-PFNA (S)	95	%.	40-130	1	05/27/25 13:59	05/29/25 20:31		
d3-MeFOSAA (S)	93	%.	40-170	1	05/27/25 13:59	05/29/25 20:31		
d3-NMeFOSA (S)	62	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
d5-EtFOSAA (S)	91	%.	25-135	1	05/27/25 13:59	05/29/25 20:31		
d5-NEtFOSA (S)	65	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-85 **Lab ID: 10733872002** Collected: 05/06/25 10:15 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 522.8 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
d9-NEtFOSE (S)	74	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
13C2-PFTA (S)	70	%.	10-130	1	05/27/25 13:59	05/29/25 20:31		
13C7-PFUdA (S)	81	%.	30-130	1	05/27/25 13:59	05/29/25 20:31		
13C24:2FTS (S)	121	%.	40-200	1	05/27/25 13:59	05/29/25 20:31		
13C26:2FTS (S)	124	%.	40-200	1	05/27/25 13:59	05/29/25 20:31		
13C28:2FTS (S)	105	%.	40-300	1	05/27/25 13:59	05/29/25 20:31		
13C3-PFPrA (S)	41	%.	5-130	1	05/27/25 13:59	05/29/25 20:31		

Sample: DWS-56 **Lab ID: 10733872003** Collected: 05/06/25 11:10 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 542.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	763051-92-9	
3:3 FTCA	ND	ng/L	7.4	1	05/27/25 13:59	05/29/25 20:46	356-02-5	
4:2 FTS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	757124-72-4	
5:3 FTCA	ND	ng/L	36.9	1	05/27/25 13:59	05/29/25 20:46	914637-49-3	
6:2 FTS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	27619-97-2	
7:3 FTCA	ND	ng/L	36.9	1	05/27/25 13:59	05/29/25 20:46	812-70-4	
8:2 FTS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	39108-34-4	
9Cl-PF3ONS	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	756426-58-1	
ADONA	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	919005-14-4	
HFPO-DA	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	4151-50-2	
NEtFOSE	ND	ng/L	14.7	1	05/27/25 13:59	05/29/25 20:46	1691-99-2	
NFDHA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	31506-32-8	
NMeFOSE	ND	ng/L	14.7	1	05/27/25 13:59	05/29/25 20:46	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	307-24-4	
PFBA	ND	ng/L	5.9	1	05/27/25 13:59	05/29/25 20:46	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	79780-39-5	
PFEESA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	375-92-8	
PFMBA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-56 **Lab ID: 10733872003** Collected: 05/06/25 11:10 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 542.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	754-91-6	
PFPeA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 20:46	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 20:46	2058-94-8	
Surrogates								
13C2-PFDoA (S)	82	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
13C3HFPO-DA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C3-PFBS (S)	93	%.	40-135	1	05/27/25 13:59	05/29/25 20:46		
13C3-PFHxS (S)	92	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C4-PFBA (S)	93	%.	5-130	1	05/27/25 13:59	05/29/25 20:46		
13C4-PFHpA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C5-PFHxA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C5-PFPeA (S)	92	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C6-PFDA (S)	86	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C8-PFOA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C8-PFOS (S)	88	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C8-PFOSA (S)	83	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
13C9-PFNA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 20:46		
d3-MeFOSAA (S)	90	%.	40-170	1	05/27/25 13:59	05/29/25 20:46		
d3-NMeFOSA (S)	64	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
d5-EtFOSAA (S)	90	%.	25-135	1	05/27/25 13:59	05/29/25 20:46		
d5-NEtFOSA (S)	66	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
d7-NMeFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
d9-NEtFOSE (S)	75	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
13C2-PFTA (S)	77	%.	10-130	1	05/27/25 13:59	05/29/25 20:46		
13C7-PFUdA (S)	84	%.	30-130	1	05/27/25 13:59	05/29/25 20:46		
13C24:2FTS (S)	118	%.	40-200	1	05/27/25 13:59	05/29/25 20:46		
13C26:2FTS (S)	116	%.	40-200	1	05/27/25 13:59	05/29/25 20:46		
13C28:2FTS (S)	103	%.	40-300	1	05/27/25 13:59	05/29/25 20:46		
13C3-PFPrA (S)	33	%.	5-130	1	05/27/25 13:59	05/29/25 20:46		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-86 **Lab ID: 10733872004** Collected: 05/06/25 11:38 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 547.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	763051-92-9	
3:3 FTCA	ND	ng/L	7.3	1	05/27/25 13:59	05/29/25 21:00	356-02-5	
4:2 FTS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	757124-72-4	
5:3 FTCA	ND	ng/L	36.6	1	05/27/25 13:59	05/29/25 21:00	914637-49-3	
6:2 FTS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	27619-97-2	
7:3 FTCA	ND	ng/L	36.6	1	05/27/25 13:59	05/29/25 21:00	812-70-4	
8:2 FTS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	39108-34-4	
9Cl-PF3ONS	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	756426-58-1	
ADONA	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	919005-14-4	
HFPO-DA	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	4151-50-2	
NEtFOSE	ND	ng/L	14.6	1	05/27/25 13:59	05/29/25 21:00	1691-99-2	
NFDHA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	31506-32-8	
NMeFOSE	ND	ng/L	14.6	1	05/27/25 13:59	05/29/25 21:00	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	307-24-4	
PFBA	ND	ng/L	5.8	1	05/27/25 13:59	05/29/25 21:00	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	79780-39-5	
PFEESA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	375-92-8	
PFMBA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	863090-89-5	
PFMPA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	754-91-6	
PFPeA	ND	ng/L	2.9	1	05/27/25 13:59	05/29/25 21:00	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:00	2058-94-8	
Surrogates								
13C2-PFDoA (S)	83	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
13C3HFPO-DA (S)	99	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C3-PFBS (S)	96	%.	40-135	1	05/27/25 13:59	05/29/25 21:00		
13C3-PFHxS (S)	102	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-86 **Lab ID: 10733872004** Collected: 05/06/25 11:38 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 547.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	96	%.	5-130	1	05/27/25 13:59	05/29/25 21:00		
13C4-PFHpA (S)	100	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C5-PFHxA (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C5-PFPeA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C6-PFDA (S)	93	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C8-PFOA (S)	95	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C8-PFOS (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C8-PFOSA (S)	93	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
13C9-PFNA (S)	95	%.	40-130	1	05/27/25 13:59	05/29/25 21:00		
d3-MeFOSAA (S)	100	%.	40-170	1	05/27/25 13:59	05/29/25 21:00		
d3-NMeFOSA (S)	71	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
d5-EtFOSAA (S)	100	%.	25-135	1	05/27/25 13:59	05/29/25 21:00		
d5-NEtFOSA (S)	68	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
d7-NMeFOSE (S)	78	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
d9-NEtFOSE (S)	80	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
13C2-PFTA (S)	78	%.	10-130	1	05/27/25 13:59	05/29/25 21:00		
13C7-PFUdA (S)	91	%.	30-130	1	05/27/25 13:59	05/29/25 21:00		
13C24:2FTS (S)	134	%.	40-200	1	05/27/25 13:59	05/29/25 21:00		
13C26:2FTS (S)	121	%.	40-200	1	05/27/25 13:59	05/29/25 21:00		
13C28:2FTS (S)	114	%.	40-300	1	05/27/25 13:59	05/29/25 21:00		
13C3-PFPrA (S)	19	%.	5-130	1	05/27/25 13:59	05/29/25 21:00		

Sample: DWS-87 **Lab ID: 10733872005** Collected: 05/06/25 12:08 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	763051-92-9	
3:3 FTCA	ND	ng/L	7.5	1	05/27/25 13:59	05/29/25 21:14	356-02-5	
4:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	757124-72-4	
5:3 FTCA	ND	ng/L	37.7	1	05/27/25 13:59	05/29/25 21:14	914637-49-3	
6:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	27619-97-2	
7:3 FTCA	ND	ng/L	37.7	1	05/27/25 13:59	05/29/25 21:14	812-70-4	
8:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	756426-58-1	
ADONA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	919005-14-4	
HFPO-DA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	4151-50-2	
NEtFOSE	ND	ng/L	15.1	1	05/27/25 13:59	05/29/25 21:14	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-87 **Lab ID: 10733872005** Collected: 05/06/25 12:08 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	31506-32-8	
NMeFOSE	ND	ng/L	15.1	1	05/27/25 13:59	05/29/25 21:14	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	307-24-4	
PFBA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:14	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	863090-89-5	
PFMPA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:14	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:14	2058-94-8	
Surrogates								
13C2-PFDoA (S)	67	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
13C3HFPO-DA (S)	75	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C3-PFBS (S)	75	%.	40-135	1	05/27/25 13:59	05/29/25 21:14		
13C3-PFHxS (S)	78	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C4-PFBA (S)	82	%.	5-130	1	05/27/25 13:59	05/29/25 21:14		
13C4-PFHpA (S)	83	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C5-PFHxA (S)	80	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C5-PFPeA (S)	79	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C6-PFDA (S)	75	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C8-PFOA (S)	76	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C8-PFOS (S)	72	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C8-PFOSA (S)	68	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
13C9-PFNA (S)	76	%.	40-130	1	05/27/25 13:59	05/29/25 21:14		
d3-MeFOSAA (S)	80	%.	40-170	1	05/27/25 13:59	05/29/25 21:14		
d3-NMeFOSA (S)	54	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
d5-EtFOSAA (S)	78	%.	25-135	1	05/27/25 13:59	05/29/25 21:14		
d5-NEtFOSA (S)	51	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-87 **Lab ID: 10733872005** Collected: 05/06/25 12:08 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 530.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	61	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
d9-NEtFOSE (S)	62	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
13C2-PFTA (S)	65	%.	10-130	1	05/27/25 13:59	05/29/25 21:14		
13C7-PFUdA (S)	73	%.	30-130	1	05/27/25 13:59	05/29/25 21:14		
13C24:2FTS (S)	102	%.	40-200	1	05/27/25 13:59	05/29/25 21:14		
13C26:2FTS (S)	99	%.	40-200	1	05/27/25 13:59	05/29/25 21:14		
13C28:2FTS (S)	89	%.	40-300	1	05/27/25 13:59	05/29/25 21:14		
13C3-PFPrA (S)	17	%.	5-130	1	05/27/25 13:59	05/29/25 21:14		

Sample: DWS-88 **Lab ID: 10733872006** Collected: 05/06/25 12:33 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 533.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	763051-92-9	
3:3 FTCA	ND	ng/L	7.5	1	05/27/25 13:59	05/29/25 21:28	356-02-5	
4:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	757124-72-4	
5:3 FTCA	ND	ng/L	37.5	1	05/27/25 13:59	05/29/25 21:28	914637-49-3	
6:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	27619-97-2	
7:3 FTCA	ND	ng/L	37.5	1	05/27/25 13:59	05/29/25 21:28	812-70-4	
8:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	756426-58-1	
ADONA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	919005-14-4	
HFPO-DA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	4151-50-2	
NEtFOSE	ND	ng/L	15.0	1	05/27/25 13:59	05/29/25 21:28	1691-99-2	
NFDHA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	31506-32-8	
NMeFOSE	ND	ng/L	15.0	1	05/27/25 13:59	05/29/25 21:28	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	307-24-4	
PFBA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 21:28	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-88 **Lab ID: 10733872006** Collected: 05/06/25 12:33 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 533.1 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 21:28	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 21:28	2058-94-8	
Surrogates								
13C2-PFDoA (S)	70	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
13C3HFPO-DA (S)	73	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C3-PFBS (S)	74	%.	40-135	1	05/27/25 13:59	05/29/25 21:28		
13C3-PFHxS (S)	72	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C4-PFBA (S)	82	%.	5-130	1	05/27/25 13:59	05/29/25 21:28		
13C4-PFHpA (S)	77	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C5-PFHxA (S)	75	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C5-PFPeA (S)	77	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C6-PFDA (S)	69	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C8-PFOA (S)	72	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C8-PFOS (S)	72	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C8-PFOSA (S)	70	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
13C9-PFNA (S)	69	%.	40-130	1	05/27/25 13:59	05/29/25 21:28		
d3-MeFOSAA (S)	74	%.	40-170	1	05/27/25 13:59	05/29/25 21:28		
d3-NMeFOSA (S)	49	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
d5-EtFOSAA (S)	76	%.	25-135	1	05/27/25 13:59	05/29/25 21:28		
d5-NEtFOSA (S)	50	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
d7-NMeFOSE (S)	57	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
d9-NEtFOSE (S)	60	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
13C2-PFTA (S)	70	%.	10-130	1	05/27/25 13:59	05/29/25 21:28		
13C7-PFUdA (S)	69	%.	30-130	1	05/27/25 13:59	05/29/25 21:28		
13C24:2FTS (S)	99	%.	40-200	1	05/27/25 13:59	05/29/25 21:28		
13C26:2FTS (S)	95	%.	40-200	1	05/27/25 13:59	05/29/25 21:28		
13C28:2FTS (S)	90	%.	40-300	1	05/27/25 13:59	05/29/25 21:28		
13C3-PFPrA (S)	8	%.	5-130	1	05/27/25 13:59	05/29/25 21:28		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DUPE-04 **Lab ID: 10733872007** Collected: 05/06/25 12:30 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 259.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	763051-92-9	
3:3 FTCA	ND	ng/L	15.4	1	05/27/25 13:59	05/29/25 22:10	356-02-5	
4:2 FTS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	757124-72-4	
5:3 FTCA	ND	ng/L	77.0	1	05/27/25 13:59	05/29/25 22:10	914637-49-3	
6:2 FTS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	27619-97-2	
7:3 FTCA	ND	ng/L	77.0	1	05/27/25 13:59	05/29/25 22:10	812-70-4	
8:2 FTS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	39108-34-4	
9Cl-PF3ONS	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	756426-58-1	
ADONA	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	919005-14-4	
HFPO-DA	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	13252-13-6	
NEtFOSAA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	2991-50-6	
NEtFOSA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	4151-50-2	
NEtFOSE	ND	ng/L	30.8	1	05/27/25 13:59	05/29/25 22:10	1691-99-2	
NFDHA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	151772-58-6	
NMeFOSAA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	2355-31-9	
NMeFOSA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	31506-32-8	
NMeFOSE	ND	ng/L	30.8	1	05/27/25 13:59	05/29/25 22:10	24448-09-7	
PFBS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	375-73-5	
PFDA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	335-76-2	
PFHxA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	307-24-4	
PFBA	ND	ng/L	12.3	1	05/27/25 13:59	05/29/25 22:10	375-22-4	
PFDS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	335-77-3	
PFDoS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	79780-39-5	
PFEESA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	113507-82-7	
PFHpS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	375-92-8	
PFMBA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	863090-89-5	
PFMPA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	377-73-1	
PFNS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	68259-12-1	
PFOSA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	754-91-6	
PFPeA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:10	2706-90-3	
PFPeS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	2706-91-4	
PFDoA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	307-55-1	
PFHpA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	375-85-9	
PFHxS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	355-46-4	
PFNA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	375-95-1	
PFOS	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	1763-23-1	
PFOA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	335-67-1	
PFTeDA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	376-06-7	
PFTrDA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	72629-94-8	
PFUnA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:10	2058-94-8	
Surrogates								
13C2-PFDoA (S)	93	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
13C3HFPO-DA (S)	101	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C3-PFBS (S)	97	%.	40-135	1	05/27/25 13:59	05/29/25 22:10		
13C3-PFHxS (S)	101	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DUPE-04 **Lab ID: 10733872007** Collected: 05/06/25 12:30 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 259.6 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	99	%.	5-130	1	05/27/25 13:59	05/29/25 22:10		
13C4-PFHpA (S)	107	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C5-PFHxA (S)	102	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C5-PFPeA (S)	103	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C6-PFDA (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C8-PFOA (S)	99	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C8-PFOS (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C8-PFOSA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
13C9-PFNA (S)	96	%.	40-130	1	05/27/25 13:59	05/29/25 22:10		
d3-MeFOSAA (S)	104	%.	40-170	1	05/27/25 13:59	05/29/25 22:10		
d3-NMeFOSA (S)	77	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
d5-EtFOSAA (S)	101	%.	25-135	1	05/27/25 13:59	05/29/25 22:10		
d5-NEtFOSA (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
d7-NMeFOSE (S)	87	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
d9-NEtFOSE (S)	87	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
13C2-PFTA (S)	90	%.	10-130	1	05/27/25 13:59	05/29/25 22:10		
13C7-PFUdA (S)	99	%.	30-130	1	05/27/25 13:59	05/29/25 22:10		
13C24:2FTS (S)	140	%.	40-200	1	05/27/25 13:59	05/29/25 22:10		
13C26:2FTS (S)	127	%.	40-200	1	05/27/25 13:59	05/29/25 22:10		
13C28:2FTS (S)	120	%.	40-300	1	05/27/25 13:59	05/29/25 22:10		
13C3-PFPrA (S)	10	%.	5-130	1	05/27/25 13:59	05/29/25 22:10		

Sample: DWS-89 **Lab ID: 10733872008** Collected: 05/06/25 14:19 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 536.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	763051-92-9	
3:3 FTCA	ND	ng/L	7.5	1	05/27/25 13:59	05/29/25 22:24	356-02-5	
4:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	757124-72-4	
5:3 FTCA	ND	ng/L	37.3	1	05/27/25 13:59	05/29/25 22:24	914637-49-3	
6:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	27619-97-2	
7:3 FTCA	ND	ng/L	37.3	1	05/27/25 13:59	05/29/25 22:24	812-70-4	
8:2 FTS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	756426-58-1	
ADONA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	919005-14-4	
HFPO-DA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	4151-50-2	
NEtFOSE	ND	ng/L	14.9	1	05/27/25 13:59	05/29/25 22:24	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-89 **Lab ID: 10733872008** Collected: 05/06/25 14:19 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 536.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	31506-32-8	
NMeFOSE	ND	ng/L	14.9	1	05/27/25 13:59	05/29/25 22:24	24448-09-7	
PFBS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	375-73-5	
PFDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	335-76-2	
PFHxA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	307-24-4	
PFBA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:24	375-22-4	
PFDS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	335-77-3	
PFDoS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	79780-39-5	
PFEESA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	113507-82-7	
PFHpS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	375-92-8	
PFMBA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	863090-89-5	
PFMPA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	377-73-1	
PFNS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	68259-12-1	
PFOSA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	754-91-6	
PFPeA	ND	ng/L	3.0	1	05/27/25 13:59	05/29/25 22:24	2706-90-3	
PFPeS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	2706-91-4	
PFDoA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	307-55-1	
PFHpA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	375-85-9	
PFHxS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	355-46-4	
PFNA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	375-95-1	
PFOS	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	1763-23-1	
PFOA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	335-67-1	
PFTeDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	376-06-7	
PFTrDA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	72629-94-8	
PFUnA	ND	ng/L	1.5	1	05/27/25 13:59	05/29/25 22:24	2058-94-8	
Surrogates								
13C2-PFDoA (S)	78	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
13C3HFPO-DA (S)	90	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C3-PFBS (S)	88	%.	40-135	1	05/27/25 13:59	05/29/25 22:24		
13C3-PFHxS (S)	92	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C4-PFBA (S)	87	%.	5-130	1	05/27/25 13:59	05/29/25 22:24		
13C4-PFHpA (S)	94	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C5-PFHxA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C5-PFPeA (S)	90	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C6-PFDA (S)	84	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C8-PFOA (S)	85	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C8-PFOS (S)	82	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C8-PFOSA (S)	83	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
13C9-PFNA (S)	88	%.	40-130	1	05/27/25 13:59	05/29/25 22:24		
d3-MeFOSAA (S)	88	%.	40-170	1	05/27/25 13:59	05/29/25 22:24		
d3-NMeFOSA (S)	55	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
d5-EtFOSAA (S)	87	%.	25-135	1	05/27/25 13:59	05/29/25 22:24		
d5-NEtFOSA (S)	55	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-89 **Lab ID: 10733872008** Collected: 05/06/25 14:19 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 536.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
d9-NEtFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
13C2-PFTA (S)	74	%.	10-130	1	05/27/25 13:59	05/29/25 22:24		
13C7-PFUdA (S)	83	%.	30-130	1	05/27/25 13:59	05/29/25 22:24		
13C24:2FTS (S)	111	%.	40-200	1	05/27/25 13:59	05/29/25 22:24		
13C26:2FTS (S)	116	%.	40-200	1	05/27/25 13:59	05/29/25 22:24		
13C28:2FTS (S)	105	%.	40-300	1	05/27/25 13:59	05/29/25 22:24		
13C3-PFPrA (S)	16	%.	5-130	1	05/27/25 13:59	05/29/25 22:24		

Sample: DWS-90 **Lab ID: 10733872009** Collected: 05/06/25 14:59 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 133.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	763051-92-9	
3:3 FTCA	ND	ng/L	30.0	1	05/27/25 13:59	05/29/25 22:39	356-02-5	
4:2 FTS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	757124-72-4	
5:3 FTCA	ND	ng/L	150	1	05/27/25 13:59	05/29/25 22:39	914637-49-3	
6:2 FTS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	27619-97-2	
7:3 FTCA	ND	ng/L	150	1	05/27/25 13:59	05/29/25 22:39	812-70-4	
8:2 FTS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	39108-34-4	
9Cl-PF3ONS	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	756426-58-1	
ADONA	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	919005-14-4	
HFPO-DA	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	13252-13-6	
NEtFOSAA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	2991-50-6	
NEtFOSA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	4151-50-2	
NEtFOSE	ND	ng/L	60.0	1	05/27/25 13:59	05/29/25 22:39	1691-99-2	
NFDHA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	151772-58-6	
NMeFOSAA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	2355-31-9	
NMeFOSA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	31506-32-8	
NMeFOSE	ND	ng/L	60.0	1	05/27/25 13:59	05/29/25 22:39	24448-09-7	
PFBS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	375-73-5	
PFDA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	335-76-2	
PFHxA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	307-24-4	
PFBA	ND	ng/L	24.0	1	05/27/25 13:59	05/29/25 22:39	375-22-4	
PFDS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	335-77-3	
PFDoS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	79780-39-5	
PFEESA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	113507-82-7	
PFHpS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	375-92-8	
PFMBA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-90 **Lab ID: 10733872009** Collected: 05/06/25 14:59 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 133.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	377-73-1	
PFNS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	68259-12-1	
PFOSA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	754-91-6	
PFPeA	ND	ng/L	12.0	1	05/27/25 13:59	05/29/25 22:39	2706-90-3	
PFPeS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	2706-91-4	
PFDoA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	307-55-1	
PFHpA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	375-85-9	
PFHxS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	355-46-4	
PFNA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	375-95-1	
PFOS	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	1763-23-1	
PFOA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	335-67-1	
PFTeDA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	376-06-7	
PFTrDA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	72629-94-8	
PFUnA	ND	ng/L	6.0	1	05/27/25 13:59	05/29/25 22:39	2058-94-8	
Surrogates								
13C2-PFDoA (S)	78	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
13C3HFPO-DA (S)	84	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C3-PFBS (S)	85	%.	40-135	1	05/27/25 13:59	05/29/25 22:39		
13C3-PFHxS (S)	85	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C4-PFBA (S)	83	%.	5-130	1	05/27/25 13:59	05/29/25 22:39		
13C4-PFHpA (S)	87	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C5-PFHxA (S)	86	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C5-PFPeA (S)	85	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C6-PFDA (S)	82	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C8-PFOA (S)	87	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C8-PFOS (S)	81	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C8-PFOSA (S)	79	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
13C9-PFNA (S)	85	%.	40-130	1	05/27/25 13:59	05/29/25 22:39		
d3-MeFOSAA (S)	86	%.	40-170	1	05/27/25 13:59	05/29/25 22:39		
d3-NMeFOSA (S)	61	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
d5-EtFOSAA (S)	84	%.	25-135	1	05/27/25 13:59	05/29/25 22:39		
d5-NEtFOSA (S)	57	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
d7-NMeFOSE (S)	67	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
d9-NEtFOSE (S)	67	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
13C2-PFTA (S)	76	%.	10-130	1	05/27/25 13:59	05/29/25 22:39		
13C7-PFUdA (S)	80	%.	30-130	1	05/27/25 13:59	05/29/25 22:39		
13C24:2FTS (S)	113	%.	40-200	1	05/27/25 13:59	05/29/25 22:39		
13C26:2FTS (S)	111	%.	40-200	1	05/27/25 13:59	05/29/25 22:39		
13C28:2FTS (S)	99	%.	40-300	1	05/27/25 13:59	05/29/25 22:39		
13C3-PFPrA (S)	15	%.	5-130	1	05/27/25 13:59	05/29/25 22:39		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-91 **Lab ID: 10733872010** Collected: 05/06/25 15:40 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 515.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	763051-92-9	
3:3 FTCA	ND	ng/L	7.8	1	05/27/25 13:59	05/29/25 22:53	356-02-5	
4:2 FTS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	757124-72-4	
5:3 FTCA	ND	ng/L	38.8	1	05/27/25 13:59	05/29/25 22:53	914637-49-3	
6:2 FTS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	27619-97-2	
7:3 FTCA	ND	ng/L	38.8	1	05/27/25 13:59	05/29/25 22:53	812-70-4	
8:2 FTS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	756426-58-1	
ADONA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	919005-14-4	
HFPO-DA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	4151-50-2	
NEtFOSE	ND	ng/L	15.5	1	05/27/25 13:59	05/29/25 22:53	1691-99-2	
NFDHA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	31506-32-8	
NMeFOSE	ND	ng/L	15.5	1	05/27/25 13:59	05/29/25 22:53	24448-09-7	
PFBS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	375-73-5	
PFDA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	335-76-2	
PFHxA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	307-24-4	
PFBA	ND	ng/L	6.2	1	05/27/25 13:59	05/29/25 22:53	375-22-4	
PFDS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	335-77-3	
PFDoS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	79780-39-5	
PFEESA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	113507-82-7	
PFHpS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	375-92-8	
PFMBA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	863090-89-5	
PFMPA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	377-73-1	
PFNS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	68259-12-1	
PFOSA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	754-91-6	
PFPeA	ND	ng/L	3.1	1	05/27/25 13:59	05/29/25 22:53	2706-90-3	
PFPeS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	2706-91-4	
PFDoA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	307-55-1	
PFHpA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	375-85-9	
PFHxS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	355-46-4	
PFNA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	375-95-1	
PFOS	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	1763-23-1	
PFOA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	335-67-1	
PFTeDA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	376-06-7	
PFTrDA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	72629-94-8	
PFUnA	ND	ng/L	1.6	1	05/27/25 13:59	05/29/25 22:53	2058-94-8	
Surrogates								
13C2-PFDoA (S)	84	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
13C3HFPO-DA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C3-PFBS (S)	90	%.	40-135	1	05/27/25 13:59	05/29/25 22:53		
13C3-PFHxS (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: DWS-91 **Lab ID: 10733872010** Collected: 05/06/25 15:40 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 515.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	92	%.	5-130	1	05/27/25 13:59	05/29/25 22:53		
13C4-PFHpA (S)	97	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C5-PFHxA (S)	93	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C5-PFPeA (S)	92	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C6-PFDA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C8-PFOA (S)	90	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C8-PFOS (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C8-PFOSA (S)	91	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
13C9-PFNA (S)	89	%.	40-130	1	05/27/25 13:59	05/29/25 22:53		
d3-MeFOSAA (S)	96	%.	40-170	1	05/27/25 13:59	05/29/25 22:53		
d3-NMeFOSA (S)	57	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
d5-EtFOSAA (S)	96	%.	25-135	1	05/27/25 13:59	05/29/25 22:53		
d5-NEtFOSA (S)	57	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
d7-NMeFOSE (S)	73	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
d9-NEtFOSE (S)	76	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
13C2-PFTA (S)	80	%.	10-130	1	05/27/25 13:59	05/29/25 22:53		
13C7-PFUdA (S)	87	%.	30-130	1	05/27/25 13:59	05/29/25 22:53		
13C24:2FTS (S)	123	%.	40-200	1	05/27/25 13:59	05/29/25 22:53		
13C26:2FTS (S)	116	%.	40-200	1	05/27/25 13:59	05/29/25 22:53		
13C28:2FTS (S)	109	%.	40-300	1	05/27/25 13:59	05/29/25 22:53		
13C3-PFPrA (S)	20	%.	5-130	1	05/27/25 13:59	05/29/25 22:53		

Sample: TRIP BLANK **Lab ID: 10733872011** Collected: 05/06/25 08:00 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 507.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	763051-92-9	
3:3 FTCA	ND	ng/L	7.9	1	05/28/25 06:49	05/29/25 15:49	356-02-5	
4:2 FTS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	757124-72-4	
5:3 FTCA	ND	ng/L	39.4	1	05/28/25 06:49	05/29/25 15:49	914637-49-3	
6:2 FTS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	27619-97-2	
7:3 FTCA	ND	ng/L	39.4	1	05/28/25 06:49	05/29/25 15:49	812-70-4	
8:2 FTS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	756426-58-1	
ADONA	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	919005-14-4	
HFPO-DA	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	4151-50-2	
NEtFOSE	ND	ng/L	15.8	1	05/28/25 06:49	05/29/25 15:49	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: TRIP BLANK **Lab ID: 10733872011** Collected: 05/06/25 08:00 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 507.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	31506-32-8	
NMeFOSE	ND	ng/L	15.8	1	05/28/25 06:49	05/29/25 15:49	24448-09-7	
PFBS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	375-73-5	
PFDA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	335-76-2	
PFHxA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	307-24-4	
PFBA	ND	ng/L	6.3	1	05/28/25 06:49	05/29/25 15:49	375-22-4	
PFDS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	335-77-3	
PFDoS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	79780-39-5	
PFEESA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	113507-82-7	
PFHpS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	375-92-8	
PFMBA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	863090-89-5	
PFMPA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	377-73-1	
PFNS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	68259-12-1	
PFOSA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	754-91-6	
PFPeA	ND	ng/L	3.2	1	05/28/25 06:49	05/29/25 15:49	2706-90-3	
PFPeS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	2706-91-4	
PFDoA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	307-55-1	
PFHpA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	375-85-9	
PFHxS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	355-46-4	
PFNA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	375-95-1	
PFOS	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	1763-23-1	
PFOA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	335-67-1	
PFTeDA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	376-06-7	
PFTrDA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	72629-94-8	
PFUnA	ND	ng/L	1.6	1	05/28/25 06:49	05/29/25 15:49	2058-94-8	
Surrogates								
13C2-PFDoA (S)	84	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
13C3HFPO-DA (S)	93	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C3-PFBS (S)	95	%.	40-135	1	05/28/25 06:49	05/29/25 15:49		
13C3-PFHxS (S)	98	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C4-PFBA (S)	94	%.	5-130	1	05/28/25 06:49	05/29/25 15:49		
13C4-PFHpA (S)	98	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C5-PFHxA (S)	95	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C5-PFPeA (S)	95	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C6-PFDA (S)	91	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C8-PFOA (S)	102	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C8-PFOS (S)	93	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C8-PFOSA (S)	84	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
13C9-PFNA (S)	91	%.	40-130	1	05/28/25 06:49	05/29/25 15:49		
d3-MeFOSAA (S)	98	%.	40-170	1	05/28/25 06:49	05/29/25 15:49		
d3-NMeFOSA (S)	59	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
d5-EtFOSAA (S)	95	%.	25-135	1	05/28/25 06:49	05/29/25 15:49		
d5-NEtFOSA (S)	61	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1856433 WG2510324
Pace Project No.: 10733872

Sample: TRIP BLANK **Lab ID: 10733872011** Collected: 05/06/25 08:00 Received: 05/09/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 507.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	79	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
d9-NEtFOSE (S)	80	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
13C2-PFTA (S)	82	%.	10-130	1	05/28/25 06:49	05/29/25 15:49		
13C7-PFUdA (S)	89	%.	30-130	1	05/28/25 06:49	05/29/25 15:49		
13C24:2FTS (S)	134	%.	40-200	1	05/28/25 06:49	05/29/25 15:49		
13C26:2FTS (S)	126	%.	40-200	1	05/28/25 06:49	05/29/25 15:49		
13C28:2FTS (S)	116	%.	40-300	1	05/28/25 06:49	05/29/25 15:49		
13C3-PFPrA (S)	89	%.	5-130	1	05/28/25 06:49	05/29/25 15:49		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

QC Batch: 1007578
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10733872001, 10733872002, 10733872003, 10733872004, 10733872005, 10733872006, 10733872007, 10733872008, 10733872009, 10733872010

METHOD BLANK: 5253128
Matrix: Water
Associated Lab Samples: 10733872001, 10733872002, 10733872003, 10733872004, 10733872005, 10733872006, 10733872007, 10733872008, 10733872009, 10733872010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	05/29/25 19:21	
3:3 FTCA	ng/L	ND	8.0	05/29/25 19:21	
4:2 FTS	ng/L	ND	6.4	05/29/25 19:21	
5:3 FTCA	ng/L	ND	40.0	05/29/25 19:21	
6:2 FTS	ng/L	ND	6.4	05/29/25 19:21	
7:3 FTCA	ng/L	ND	40.0	05/29/25 19:21	
8:2 FTS	ng/L	ND	6.4	05/29/25 19:21	
9Cl-PF3ONS	ng/L	ND	6.4	05/29/25 19:21	
ADONA	ng/L	ND	6.4	05/29/25 19:21	
HFPO-DA	ng/L	ND	6.4	05/29/25 19:21	
NEtFOSA	ng/L	ND	1.6	05/29/25 19:21	
NEtFOSAA	ng/L	ND	1.6	05/29/25 19:21	
NEtFOSE	ng/L	ND	16.0	05/29/25 19:21	
NFDHA	ng/L	ND	3.2	05/29/25 19:21	
NMeFOSA	ng/L	ND	1.6	05/29/25 19:21	
NMeFOSAA	ng/L	ND	1.6	05/29/25 19:21	
NMeFOSE	ng/L	ND	16.0	05/29/25 19:21	
PFBA	ng/L	ND	6.4	05/29/25 19:21	
PFBS	ng/L	ND	1.6	05/29/25 19:21	
PFDA	ng/L	ND	1.6	05/29/25 19:21	
PFDoA	ng/L	ND	1.6	05/29/25 19:21	
PFDoS	ng/L	ND	1.6	05/29/25 19:21	
PFDS	ng/L	ND	1.6	05/29/25 19:21	
PFEESA	ng/L	ND	3.2	05/29/25 19:21	
PFHpA	ng/L	ND	1.6	05/29/25 19:21	
PFHpS	ng/L	ND	1.6	05/29/25 19:21	
PFHxA	ng/L	ND	1.6	05/29/25 19:21	
PFHxS	ng/L	ND	1.6	05/29/25 19:21	
PFMBA	ng/L	ND	3.2	05/29/25 19:21	
PFMPA	ng/L	ND	3.2	05/29/25 19:21	
PFNA	ng/L	ND	1.6	05/29/25 19:21	
PFNS	ng/L	ND	1.6	05/29/25 19:21	
PFOA	ng/L	ND	1.6	05/29/25 19:21	
PFOS	ng/L	ND	1.6	05/29/25 19:21	
PFOSA	ng/L	ND	1.6	05/29/25 19:21	
PFPeA	ng/L	ND	3.2	05/29/25 19:21	
PFPeS	ng/L	ND	1.6	05/29/25 19:21	
PFTeDA	ng/L	ND	1.6	05/29/25 19:21	
PFTrDA	ng/L	ND	1.6	05/29/25 19:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

METHOD BLANK: 5253128 Matrix: Water

Associated Lab Samples: 10733872001, 10733872002, 10733872003, 10733872004, 10733872005, 10733872006, 10733872007, 10733872008, 10733872009, 10733872010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PFUnA	ng/L	ND	1.6	05/29/25 19:21	
13C2-PFDoA (S)	%.	90	10-130	05/29/25 19:21	
13C2-PFTA (S)	%.	83	10-130	05/29/25 19:21	
13C24:2FTS (S)	%.	120	40-200	05/29/25 19:21	
13C26:2FTS (S)	%.	122	40-200	05/29/25 19:21	
13C28:2FTS (S)	%.	108	40-300	05/29/25 19:21	
13C3-PFBS (S)	%.	89	40-135	05/29/25 19:21	
13C3-PFHxS (S)	%.	91	40-130	05/29/25 19:21	
13C3-PFPrA (S)	%.	88	5-130	05/29/25 19:21	
13C3HFPO-DA (S)	%.	94	40-130	05/29/25 19:21	
13C4-PFBA (S)	%.	91	5-130	05/29/25 19:21	
13C4-PFHpA (S)	%.	98	40-130	05/29/25 19:21	
13C5-PFHxA (S)	%.	92	40-130	05/29/25 19:21	
13C5-PFPeA (S)	%.	93	40-130	05/29/25 19:21	
13C6-PFDA (S)	%.	91	40-130	05/29/25 19:21	
13C7-PFUdA (S)	%.	91	30-130	05/29/25 19:21	
13C8-PFOA (S)	%.	95	40-130	05/29/25 19:21	
13C8-PFOS (S)	%.	94	40-130	05/29/25 19:21	
13C8-PFOSA (S)	%.	88	40-130	05/29/25 19:21	
13C9-PFNA (S)	%.	93	40-130	05/29/25 19:21	
d3-MeFOSAA (S)	%.	102	40-170	05/29/25 19:21	
d3-NMeFOSA (S)	%.	69	10-130	05/29/25 19:21	
d5-EtFOSAA (S)	%.	103	25-135	05/29/25 19:21	
d5-NEtFOSA (S)	%.	73	10-130	05/29/25 19:21	
d7-NMeFOSE (S)	%.	88	10-130	05/29/25 19:21	
d9-NEtFOSE (S)	%.	89	10-130	05/29/25 19:21	

LABORATORY CONTROL SAMPLE: 5253129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	65.3	87	55-160	
3:3 FTCA	ng/L	99.2	78.6	79	65-130	
4:2 FTS	ng/L	75.2	72.0	96	70-145	
5:3 FTCA	ng/L	496	395	80	70-135	
6:2 FTS	ng/L	76.8	69.7	91	65-155	
7:3 FTCA	ng/L	496	408	82	50-145	
8:2 FTS	ng/L	76.8	70.3	92	60-150	
9Cl-PF3ONS	ng/L	75.2	69.7	93	70-155	
ADONA	ng/L	75.2	65.2	87	65-145	
HFPO-DA	ng/L	80	72.0	90	70-140	
NEtFOSA	ng/L	19.2	17.5	91	65-145	
NEtFOSAA	ng/L	19.2	16.7	87	70-145	
NEtFOSE	ng/L	192	168	87	70-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5253129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NFDHA	ng/L	40	34.7	87	50-150	
NMeFOSA	ng/L	19.2	17.6	92	60-150	
NMeFOSAA	ng/L	19.2	16.4	85	50-140	
NMeFOSE	ng/L	192	172	89	70-145	
PFBA	ng/L	80	71.0	89	70-140	
PFBS	ng/L	17.6	16.0	91	60-145	
PFDA	ng/L	19.2	18.5	96	70-140	
PFDoA	ng/L	19.2	18.6	97	70-140	
PFDoS	ng/L	19.2	16.8	87	50-145	
PFDS	ng/L	19.2	16.1	84	60-145	
PFEESA	ng/L	35.2	31.4	89	70-140	
PFHpA	ng/L	19.2	17.5	91	70-150	
PFHpS	ng/L	19.2	17.1	89	70-150	
PFHxA	ng/L	19.2	17.1	89	70-145	
PFHxS	ng/L	17.6	15.7	89	65-145	
PFMBA	ng/L	40	35.7	89	60-150	
PFMPA	ng/L	40	34.3	86	55-140	
PFNA	ng/L	19.2	17.4	91	70-150	
PFNS	ng/L	19.2	16.3	85	65-145	
PFOA	ng/L	19.2	17.3	90	70-150	
PFOS	ng/L	19.2	15.4	80	55-150	
PFOSA	ng/L	19.2	17.1	89	70-145	
PFPeA	ng/L	40	35.1	88	65-135	
PFPeS	ng/L	19.2	15.9	83	65-140	
PFTeDA	ng/L	19.2	18.4	96	60-140	
PFTrDA	ng/L	19.2	17.2	89	65-140	
PFUnA	ng/L	19.2	16.6	87	70-145	
13C2-PFDoA (S)	%.			77	10-130	
13C2-PFTA (S)	%.			74	10-130	
13C24:2FTS (S)	%.			99	40-200	
13C26:2FTS (S)	%.			98	40-200	
13C28:2FTS (S)	%.			94	40-300	
13C3-PFBS (S)	%.			82	40-135	
13C3-PFHxS (S)	%.			86	40-130	
13C3-PFPrA (S)	%.			82	5-130	
13C3HFPO-DA (S)	%.			86	40-130	
13C4-PFBA (S)	%.			84	5-130	
13C4-PFHpA (S)	%.			90	40-130	
13C5-PFHxA (S)	%.			88	40-130	
13C5-PFPeA (S)	%.			85	40-130	
13C6-PFDA (S)	%.			82	40-130	
13C7-PFUdA (S)	%.			84	30-130	
13C8-PFOA (S)	%.			84	40-130	
13C8-PFOS (S)	%.			86	40-130	
13C8-PFOSA (S)	%.			82	40-130	
13C9-PFNA (S)	%.			81	40-130	
d3-MeFOSAA (S)	%.			92	40-170	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5253129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d3-NMeFOSA (S)	%.			64	10-130	
d5-EtFOSAA (S)	%.			92	25-135	
d5-NEtFOSA (S)	%.			66	10-130	
d7-NMeFOSE (S)	%.			80	10-130	
d9-NEtFOSE (S)	%.			83	10-130	

LABORATORY CONTROL SAMPLE: 5253130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	10.0	83	55-160	
3:3 FTCA	ng/L	15.9	12.8	80	65-130	
4:2 FTS	ng/L	12	10.1	84	70-145	
5:3 FTCA	ng/L	79.4	57.0	72	70-135	
6:2 FTS	ng/L	12.3	9.7	79	65-155	
7:3 FTCA	ng/L	79.4	61.3	77	50-145	
8:2 FTS	ng/L	12.3	10.4	85	60-150	
9Cl-PF3ONS	ng/L	12	10.3	85	70-155	
ADONA	ng/L	12	10.1	84	65-145	
HFPO-DA	ng/L	12.8	11.5	90	70-140	
NEtFOSA	ng/L	3.1	2.7	88	65-145	
NEtFOSAA	ng/L	3.1	2.6	84	70-145	
NEtFOSE	ng/L	30.7	25.1	82	70-135	
NFDHA	ng/L	6.4	5.6	87	50-150	
NMeFOSA	ng/L	3.1	2.6	84	60-150	
NMeFOSAA	ng/L	3.1	2.5	80	50-140	
NMeFOSE	ng/L	30.7	26.0	85	70-145	
PFBA	ng/L	12.8	10.4	81	70-140	
PFBS	ng/L	2.8	2.2	80	60-145	
PFDA	ng/L	3.1	2.9	95	70-140	
PFDoA	ng/L	3.1	2.7	87	70-140	
PFDoS	ng/L	3.1	2.6	85	50-145	
PFDS	ng/L	3.1	2.5	81	60-145	
PFEESA	ng/L	5.6	4.7	84	70-140	
PFHpA	ng/L	3.1	2.6	85	70-150	
PFHpS	ng/L	3.1	2.3	74	70-150	
PFHxA	ng/L	3.1	2.5	81	70-145	
PFHxS	ng/L	2.8	2.6	92	65-145	
PFMBA	ng/L	6.4	5.0	78	60-150	
PFMPA	ng/L	6.4	5.1	80	55-140	
PFNA	ng/L	3.1	2.5	83	70-150	
PFNS	ng/L	3.1	2.4	78	65-145	
PFOA	ng/L	3.1	2.7	87	70-150	
PFOS	ng/L	3.1	2.6	83	55-150	
PFOSA	ng/L	3.1	2.7	87	70-145	
PFPeA	ng/L	6.4	5.2	82	65-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5253130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFPeS	ng/L	3.1	2.4	79	65-140	
PFTeDA	ng/L	3.1	2.6	86	60-140	
PFTrDA	ng/L	3.1	2.4	78	65-140	
PFUnA	ng/L	3.1	2.4	77	70-145	
13C2-PFDoA (S)	%.			58	10-130	
13C2-PFTA (S)	%.			56	10-130	
13C24:2FTS (S)	%.			85	40-200	
13C26:2FTS (S)	%.			81	40-200	
13C28:2FTS (S)	%.			76	40-300	
13C3-PFBS (S)	%.			63	40-135	
13C3-PFHxS (S)	%.			66	40-130	
13C3-PFPrA (S)	%.			64	5-130	
13C3HFPO-DA (S)	%.			63	40-130	
13C4-PFBA (S)	%.			65	5-130	
13C4-PFHpA (S)	%.			67	40-130	
13C5-PFHxA (S)	%.			64	40-130	
13C5-PFPeA (S)	%.			65	40-130	
13C6-PFDA (S)	%.			60	40-130	
13C7-PFUdA (S)	%.			60	30-130	
13C8-PFOA (S)	%.			62	40-130	
13C8-PFOS (S)	%.			62	40-130	
13C8-PFOSA (S)	%.			59	40-130	
13C9-PFNA (S)	%.			62	40-130	
d3-MeFOSAA (S)	%.			68	40-170	
d3-NMeFOSA (S)	%.			45	10-130	
d5-EtFOSAA (S)	%.			68	25-135	
d5-NEtFOSA (S)	%.			47	10-130	
d7-NMeFOSE (S)	%.			55	10-130	
d9-NEtFOSE (S)	%.			57	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

QC Batch: 1008996
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10733872011

METHOD BLANK: 5261023 Matrix: Water
Associated Lab Samples: 10733872011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	05/29/25 12:59	
3:3 FTCA	ng/L	ND	8.0	05/29/25 12:59	
4:2 FTS	ng/L	ND	6.4	05/29/25 12:59	
5:3 FTCA	ng/L	ND	40.0	05/29/25 12:59	
6:2 FTS	ng/L	ND	6.4	05/29/25 12:59	
7:3 FTCA	ng/L	ND	40.0	05/29/25 12:59	
8:2 FTS	ng/L	ND	6.4	05/29/25 12:59	
9Cl-PF3ONS	ng/L	ND	6.4	05/29/25 12:59	
ADONA	ng/L	ND	6.4	05/29/25 12:59	
HFPO-DA	ng/L	ND	6.4	05/29/25 12:59	
NEtFOSA	ng/L	ND	1.6	05/29/25 12:59	
NEtFOSAA	ng/L	ND	1.6	05/29/25 12:59	
NEtFOSE	ng/L	ND	16.0	05/29/25 12:59	
NFDHA	ng/L	ND	3.2	05/29/25 12:59	
NMeFOSA	ng/L	ND	1.6	05/29/25 12:59	
NMeFOSAA	ng/L	ND	1.6	05/29/25 12:59	
NMeFOSE	ng/L	ND	16.0	05/29/25 12:59	
PFBA	ng/L	ND	6.4	05/29/25 12:59	
PFBS	ng/L	ND	1.6	05/29/25 12:59	
PFDA	ng/L	ND	1.6	05/29/25 12:59	
PFDoA	ng/L	ND	1.6	05/29/25 12:59	
PFDoS	ng/L	ND	1.6	05/29/25 12:59	
PFDS	ng/L	ND	1.6	05/29/25 12:59	
PFEESA	ng/L	ND	3.2	05/29/25 12:59	
PFHpA	ng/L	ND	1.6	05/29/25 12:59	
PFHpS	ng/L	ND	1.6	05/29/25 12:59	
PFHxA	ng/L	ND	1.6	05/29/25 12:59	
PFHxS	ng/L	ND	1.6	05/29/25 12:59	
PFMBA	ng/L	ND	3.2	05/29/25 12:59	
PFMPA	ng/L	ND	3.2	05/29/25 12:59	
PFNA	ng/L	ND	1.6	05/29/25 12:59	
PFNS	ng/L	ND	1.6	05/29/25 12:59	
PFOA	ng/L	ND	1.6	05/29/25 12:59	
PFOS	ng/L	ND	1.6	05/29/25 12:59	
PFOSA	ng/L	ND	1.6	05/29/25 12:59	
PFPeA	ng/L	ND	3.2	05/29/25 12:59	
PFPeS	ng/L	ND	1.6	05/29/25 12:59	
PFTeDA	ng/L	ND	1.6	05/29/25 12:59	
PFTrDA	ng/L	ND	1.6	05/29/25 12:59	
PFUnA	ng/L	ND	1.6	05/29/25 12:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

METHOD BLANK: 5261023 Matrix: Water
Associated Lab Samples: 10733872011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	89	10-130	05/29/25 12:59	
13C2-PFTA (S)	%.	84	10-130	05/29/25 12:59	
13C24:2FTS (S)	%.	134	40-200	05/29/25 12:59	
13C26:2FTS (S)	%.	123	40-200	05/29/25 12:59	
13C28:2FTS (S)	%.	116	40-300	05/29/25 12:59	
13C3-PFBS (S)	%.	95	40-135	05/29/25 12:59	
13C3-PFHxS (S)	%.	96	40-130	05/29/25 12:59	
13C3-PFPrA (S)	%.	88	5-130	05/29/25 12:59	
13C3HFPO-DA (S)	%.	97	40-130	05/29/25 12:59	
13C4-PFBA (S)	%.	96	5-130	05/29/25 12:59	
13C4-PFHpA (S)	%.	101	40-130	05/29/25 12:59	
13C5-PFHxA (S)	%.	101	40-130	05/29/25 12:59	
13C5-PFPeA (S)	%.	98	40-130	05/29/25 12:59	
13C6-PFDA (S)	%.	94	40-130	05/29/25 12:59	
13C7-PFUdA (S)	%.	95	30-130	05/29/25 12:59	
13C8-PFOA (S)	%.	102	40-130	05/29/25 12:59	
13C8-PFOS (S)	%.	96	40-130	05/29/25 12:59	
13C8-PFOSA (S)	%.	90	40-130	05/29/25 12:59	
13C9-PFNA (S)	%.	93	40-130	05/29/25 12:59	
d3-MeFOSAA (S)	%.	101	40-170	05/29/25 12:59	
d3-NMeFOSA (S)	%.	64	10-130	05/29/25 12:59	
d5-EtFOSAA (S)	%.	104	25-135	05/29/25 12:59	
d5-NEtFOSA (S)	%.	67	10-130	05/29/25 12:59	
d7-NMeFOSE (S)	%.	82	10-130	05/29/25 12:59	
d9-NEtFOSE (S)	%.	85	10-130	05/29/25 12:59	

LABORATORY CONTROL SAMPLE: 5261024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	68.0	90	55-160	
3:3 FTCA	ng/L	99.2	79.1	80	65-130	
4:2 FTS	ng/L	75.2	72.3	96	70-145	
5:3 FTCA	ng/L	496	404	81	70-135	
6:2 FTS	ng/L	76.8	73.0	95	65-155	
7:3 FTCA	ng/L	496	401	81	50-145	
8:2 FTS	ng/L	76.8	73.8	96	60-150	
9Cl-PF3ONS	ng/L	75.2	71.0	94	70-155	
ADONA	ng/L	75.2	71.7	95	65-145	
HFPO-DA	ng/L	80	71.9	90	70-140	
NEtFOSA	ng/L	19.2	16.5	86	65-145	
NEtFOSAA	ng/L	19.2	16.9	88	70-145	
NEtFOSE	ng/L	192	177	92	70-135	
NFDHA	ng/L	40	36.3	91	50-150	
NMeFOSA	ng/L	19.2	18.1	94	60-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5261024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ng/L	19.2	16.6	87	50-140	
NMeFOSE	ng/L	192	180	94	70-145	
PFBA	ng/L	80	73.0	91	70-140	
PFBS	ng/L	17.6	16.3	93	60-145	
PFDA	ng/L	19.2	17.6	92	70-140	
PFDoA	ng/L	19.2	18.6	97	70-140	
PFDoS	ng/L	19.2	16.5	86	50-145	
PFDS	ng/L	19.2	16.0	83	60-145	
PFEESA	ng/L	35.2	32.3	92	70-140	
PFHpA	ng/L	19.2	18.3	96	70-150	
PFHpS	ng/L	19.2	17.1	89	70-150	
PFHxA	ng/L	19.2	17.5	91	70-145	
PFHxS	ng/L	17.6	16.1	92	65-145	
PFMBA	ng/L	40	36.6	92	60-150	
PFMPA	ng/L	40	35.2	88	55-140	
PFNA	ng/L	19.2	17.4	91	70-150	
PFNS	ng/L	19.2	16.5	86	65-145	
PFOA	ng/L	19.2	17.8	93	70-150	
PFOS	ng/L	19.2	15.5	81	55-150	
PFOSA	ng/L	19.2	17.5	91	70-145	
PFPeA	ng/L	40	36.6	91	65-135	
PFPeS	ng/L	19.2	16.3	85	65-140	
PFTeDA	ng/L	19.2	18.3	95	60-140	
PFTrDA	ng/L	19.2	16.6	87	65-140	
PFUnA	ng/L	19.2	16.9	88	70-145	
13C2-PFDoA (S)	%.			86	10-130	
13C2-PFTA (S)	%.			78	10-130	
13C24:2FTS (S)	%.			111	40-200	
13C26:2FTS (S)	%.			107	40-200	
13C28:2FTS (S)	%.			104	40-300	
13C3-PFBS (S)	%.			91	40-135	
13C3-PFHxS (S)	%.			95	40-130	
13C3-PFPrA (S)	%.			92	5-130	
13C3HFPO-DA (S)	%.			95	40-130	
13C4-PFBA (S)	%.			93	5-130	
13C4-PFHpA (S)	%.			94	40-130	
13C5-PFHxA (S)	%.			95	40-130	
13C5-PFPeA (S)	%.			93	40-130	
13C6-PFDA (S)	%.			95	40-130	
13C7-PFUdA (S)	%.			91	30-130	
13C8-PFOA (S)	%.			92	40-130	
13C8-PFOS (S)	%.			92	40-130	
13C8-PFOSA (S)	%.			85	40-130	
13C9-PFNA (S)	%.			94	40-130	
d3-MeFOSAA (S)	%.			98	40-170	
d3-NMeFOSA (S)	%.			61	10-130	
d5-EtFOSAA (S)	%.			97	25-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5261024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			66	10-130	
d7-NMeFOSE (S)	%.			80	10-130	
d9-NEtFOSE (S)	%.			81	10-130	

LABORATORY CONTROL SAMPLE: 5261025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	11.2	93	55-160	
3:3 FTCA	ng/L	15.9	12.0	75	65-130	
4:2 FTS	ng/L	12	10.8	90	70-145	
5:3 FTCA	ng/L	79.4	63.7	80	70-135	
6:2 FTS	ng/L	12.3	11.3	92	65-155	
7:3 FTCA	ng/L	79.4	62.3	78	50-145	
8:2 FTS	ng/L	12.3	10.7	87	60-150	
9Cl-PF3ONS	ng/L	12	11.8	98	70-155	
ADONA	ng/L	12	10.8	90	65-145	
HFPO-DA	ng/L	12.8	11.6	90	70-140	
NEtFOSA	ng/L	3.1	2.9	94	65-145	
NEtFOSAA	ng/L	3.1	2.5	81	70-145	
NEtFOSE	ng/L	30.7	27.0	88	70-135	
NFDHA	ng/L	6.4	5.8	91	50-150	
NMeFOSA	ng/L	3.1	2.9	95	60-150	
NMeFOSAA	ng/L	3.1	2.9	94	50-140	
NMeFOSE	ng/L	30.7	27.0	88	70-145	
PFBA	ng/L	12.8	11.1	87	70-140	
PFBS	ng/L	2.8	2.6	92	60-145	
PFDA	ng/L	3.1	2.8	91	70-140	
PFDoA	ng/L	3.1	3.0	97	70-140	
PFDoS	ng/L	3.1	2.8	91	50-145	
PFDS	ng/L	3.1	2.6	86	60-145	
PFEESA	ng/L	5.6	5.2	92	70-140	
PFHpA	ng/L	3.1	2.9	93	70-150	
PFHpS	ng/L	3.1	2.6	84	70-150	
PFHxA	ng/L	3.1	2.9	95	70-145	
PFHxS	ng/L	2.8	2.7	95	65-145	
PFMBA	ng/L	6.4	5.5	86	60-150	
PFMPA	ng/L	6.4	5.6	87	55-140	
PFNA	ng/L	3.1	2.7	89	70-150	
PFNS	ng/L	3.1	2.6	86	65-145	
PFOA	ng/L	3.1	2.7	89	70-150	
PFOS	ng/L	3.1	2.7	88	55-150	
PFOSA	ng/L	3.1	2.8	91	70-145	
PFPeA	ng/L	6.4	5.6	88	65-135	
PFPeS	ng/L	3.1	2.5	81	65-140	
PFTeDA	ng/L	3.1	2.9	93	60-140	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1856433 WG2510324
Pace Project No.: 10733872

LABORATORY CONTROL SAMPLE: 5261025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ng/L	3.1	2.7	88	65-140	
PFUnA	ng/L	3.1	2.6	84	70-145	
13C2-PFDoA (S)	%.			78	10-130	
13C2-PFTA (S)	%.			76	10-130	
13C24:2FTS (S)	%.			118	40-200	
13C26:2FTS (S)	%.			109	40-200	
13C28:2FTS (S)	%.			107	40-300	
13C3-PFBS (S)	%.			85	40-135	
13C3-PFHxS (S)	%.			87	40-130	
13C3-PFPrA (S)	%.			85	5-130	
13C3HFPO-DA (S)	%.			85	40-130	
13C4-PFBA (S)	%.			85	5-130	
13C4-PFHpA (S)	%.			86	40-130	
13C5-PFHxA (S)	%.			85	40-130	
13C5-PFPeA (S)	%.			85	40-130	
13C6-PFDA (S)	%.			86	40-130	
13C7-PFUdA (S)	%.			84	30-130	
13C8-PFOA (S)	%.			86	40-130	
13C8-PFOS (S)	%.			80	40-130	
13C8-PFOSA (S)	%.			76	40-130	
13C9-PFNA (S)	%.			81	40-130	
d3-MeFOSAA (S)	%.			88	40-170	
d3-NMeFOSA (S)	%.			58	10-130	
d5-EtFOSAA (S)	%.			87	25-135	
d5-NEtFOSA (S)	%.			61	10-130	
d7-NMeFOSE (S)	%.			74	10-130	
d9-NEtFOSE (S)	%.			73	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: L1856433 WG2510324
Pace Project No.: 10733872

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1856433 WG2510324
Pace Project No.: 10733872

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10733872011	**TRIP BLANK**	EPA 1633	1008996	EPA 1633	1009956
10733872001	**SWS-05**	EPA 1633	1007578	EPA 1633	1009827
10733872002	**DWS-85**	EPA 1633	1007578	EPA 1633	1009827
10733872003	**DWS-56**	EPA 1633	1007578	EPA 1633	1009827
10733872004	**DWS-86**	EPA 1633	1007578	EPA 1633	1009827
10733872005	**DWS-87**	EPA 1633	1007578	EPA 1633	1009827
10733872007	**DUPE-04**	EPA 1633	1007578	EPA 1633	1009827
10733872006	**DWS-88**	EPA 1633	1007578	EPA 1633	1009827
10733872008	**DWS-89**	EPA 1633	1007578	EPA 1633	1009827
10733872009	**DWS-90**	EPA 1633	1007578	EPA 1633	1009827
10733872010	**DWS-91**	EPA 1633	1007578	EPA 1633	1009827

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sub-Contract Chain of Custody

Batch Date/Time: 05/08/25 13:12
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2510324
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 05/30/25
ESC Purchase Order #: L1856433
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
SWS-05 PFAS-500HDPE-NoPres - S51561690 PFAS-500HDPE-NoPres - S51561691	GW	NM	05/06/25 09:55	PFAS1633	1. L1856433-01	Level 4
DWS-85 PFAS-500HDPE-NoPres - 51875122 PFAS-500HDPE-NoPres - 51875123	GW	NM	05/06/25 10:15	PFAS1633	2. L1856433-02	Level 4
DWS-56 PFAS-500HDPE-NoPres - 51875124 PFAS-500HDPE-NoPres - 51875125	GW	NM	05/06/25 11:10	PFAS1633	3. L1856433-03	Level 4
DWS-86 PFAS-500HDPE-NoPres - 51875126 PFAS-500HDPE-NoPres - 51875127	GW	NM	05/06/25 11:38	PFAS1633	4. L1856433-04	Level 4
DWS-87 PFAS-500HDPE-NoPres - 51875128 PFAS-500HDPE-NoPres - 51875129	GW	NM	05/06/25 12:08	PFAS1633	5. L1856433-05	Level 4
DWS-88 PFAS-500HDPE-NoPres - 51875130 PFAS-500HDPE-NoPres - 51875131	GW	NM	05/06/25 12:33	PFAS1633	6. L1856433-06	Level 4
DUPE-04 PFAS-500HDPE-NoPres - 51875132 PFAS-500HDPE-NoPres - 51875133	GW	NM	05/06/25 12:30	PFAS1633	7. L1856433-07	Level 4
DWS-89 PFAS-500HDPE-NoPres - 51875134 PFAS-500HDPE-NoPres - 51875135	GW	NM	05/06/25 14:19	PFAS1633	8. L1856433-08	Level 4
DWS-90 PFAS-500HDPE-NoPres - 51875136 PFAS-500HDPE-NoPres - 51875137	GW	NM	05/06/25 14:59	PFAS1633	9. L1856433-09	Level 4
DWS-91 PFAS-500HDPE-NoPres - 51875138 PFAS-500HDPE-NoPres - 51875139	GW	NM	05/06/25 15:40	PFAS1633	10. L1856433-10	Level 4
TRIP BLANK PFAS-500HDPE-NoPres - 51875140	GW	NM	05/06/25 08:00	PFAS1633	11. L1856433-11	Level 4

*= Container used for multiple Samples and/or Analyses

Relinquished by: _____ **Date** 5-8-25

Received by: Pace **Date** 5-9-25 850

Relinquished by: _____ **Date** _____

Received by: _____ **Date** _____

WO#: 10733872

10733872

ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: EC 5-9-25 PROJECT #: WO#: 10733872

PM: TKL Due Date: 06/23/25

CLIENT: PASI-TN

Client Name: Pace MTJL

Custody Seal Present: ☑ YES ☐ NO Seals Intact: ☑ YES ☐ NO

Tracking Number: 4439 2458 5660 ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☐ Bubble Bags ☐ Bubble Wrap ☑ None ☐ Other: _____ Biological Tissue Frozen: ☐ YES ☑ NO

Thermometer: ☑ T1 (0461) ☐ T2 (0431) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0187) ☐ T6 (0396) ☐ T7 (0377) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Temp Blank: ☑ YES ☐ NO

NOTE: Temp should be ≤ 6°C, but above freezing.

Read Temp w/Temp Blank: 1.3 °C

Correction Factor: 0.0

Corrected Temp w/Temp Blank: 1.3 °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): _____

☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☑ N/A - Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☐ NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (International, including Hawaii and Puerto Rico): ☐ YES ☐ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA

	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☑	☐	3.
Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr	☑	☐		4.
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other:
Rush Turn Around Time Requested?	☑	☐		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date: 5-30-25
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? (If NO, fill out section 11.) Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.

Sample #:

☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____

pH Paper Lot #:

☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip _____

Positive for Residual Chlorine (NaOH containers only): ☐ YES ☐ NO

Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0142
EXCECTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐	☐	☑	
Extra labels present on soil VOA or WIDRO containers? (soil only)	☐	☐	☑	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION:

Labeled By: EC Line: 3

Person Contacted & Date/Time: _____ PM Review & Date: 5/9/25

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.

FORM III PFAS-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 5261024LCS
Date Extracted: 05/28/2025
Date Analyzed (1): 05/29/2025 13:13:00
Instrument: 10PFA2
LCS Standard: 509107
Lab File ID:
SDG No.: 10733872

COMPOUND	AMOUNT ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS %REC	QC LIMITS REC.
11Cl-PF3OUdS	75.2	68.0	90	55-160
3:3 FTCA	99.2	79.1	80	65-130
5:3 FTCA	496	404	81	70-135
7:3 FTCA	496	401	81	50-145
9Cl-PF3ONS	75.2	71.0	94	70-155
ADONA	75.2	71.7	95	65-145
HFPO-DA	80.0	71.9	90	70-140
NEtFOSAA	19.2	16.9	88	70-145
NFDHA	40.0	36.3	91	50-150
NMeFOSAA	19.2	16.6	87	50-140
PFBS	17.6	16.3	93	60-145
PFDA	19.2	17.6	92	70-140
PFHxA	19.2	17.5	91	70-145
PFEESA	35.2	32.3	92	70-140
PFMBA	40.0	36.6	92	60-150
PFMPA	40.0	35.2	88	55-140
PFDoA	19.2	18.6	97	70-140
PFHpA	19.2	18.3	96	70-150
PFHxS	17.6	16.1	92	65-145
PFNA	19.2	17.4	91	70-150
PFOS	19.2	15.5	81	55-150
PFOA	19.2	17.8	93	70-150
PFTeDA	19.2	18.3	95	60-140
PFTrDA	19.2	16.6	87	65-140
PFUnA	19.2	16.9	88	70-145
4:2 FTS	75.2	72.3	96	70-145
PFDoS	19.2	16.5	86	50-145
PFPeS	19.2	16.3	85	65-140
PFPeA	40.0	36.6	91	65-135
6:2 FTS	76.8	73.0	95	65-155
PFOSA	19.2	17.5	91	70-145
NEtFOSA	19.2	16.5	86	65-145
NEtFOSE	192	177	92	70-135
PFHpS	19.2	17.1	89	70-150
NMeFOSE	192	180	94	70-145
NMeFOSA	19.2	18.1	94	60-150
PFNS	19.2	16.5	86	65-145
8:2 FTS	76.8	73.8	96	60-150
PFDS	19.2	16.0	83	60-145
PFBA	80.0	73.0	91	70-140

Spike Recovery: 0 out of 40 outside limits.

FORM III PFAS-2

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 5261025SRM
Date Extracted: 05/28/2025
Date Analyzed (1): 05/29/2025 13:27:00
Instrument: 10PFA2
LCS Standard: 509108
Lab File ID:
SDG No.: 10733872

COMPOUND	AMOUNT ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS %REC	QC LIMITS REC.
11Cl-PF3OUdS	12.0	11.2	93	55-160
3:3 FTCA	15.9	12.0	75	65-130
5:3 FTCA	79.4	63.7	80	70-135
7:3 FTCA	79.4	62.3	78	50-145
9Cl-PF3ONS	12.0	11.8	98	70-155
ADONA	12.0	10.8	90	65-145
HFPO-DA	12.8	11.6	90	70-140
NEtFOSAA	3.1	2.5	81	70-145
NFDHA	6.4	5.8	91	50-150
NMeFOSAA	3.1	2.9	94	50-140
PFBS	2.8	2.6	92	60-145
PFDA	3.1	2.8	91	70-140
PFHxA	3.1	2.9	95	70-145
PFEESA	5.6	5.2	92	70-140
PFMBA	6.4	5.5	86	60-150
PFMPA	6.4	5.6	87	55-140
PFDoA	3.1	3.0	97	70-140
PFHpA	3.1	2.9	93	70-150
PFHxS	2.8	2.7	95	65-145
PFNA	3.1	2.7	89	70-150
PFOS	3.1	2.7	88	55-150
PFOA	3.1	2.7	89	70-150
PFTeDA	3.1	2.9	93	60-140
PFTrDA	3.1	2.7	88	65-140
PFUnA	3.1	2.6	84	70-145
PFDS	3.1	2.6	86	60-145
8:2 FTS	12.3	10.7	87	60-150
PFPeA	6.4	5.6	88	65-135
NEtFOSE	30.7	27.0	88	70-135
PFOSA	3.1	2.8	91	70-145
6:2 FTS	12.3	11.3	92	65-155
4:2 FTS	12.0	10.8	90	70-145
PFHpS	3.1	2.6	84	70-150
PFBA	12.8	11.1	87	70-140
PFNS	3.1	2.6	86	65-145
PFPeS	3.1	2.5	81	65-140
NMeFOSA	3.1	2.9	95	60-150
PFDoS	3.1	2.8	91	50-145
NEtFOSA	3.1	2.9	94	65-145
NMeFOSE	30.7	27.0	88	70-145

Spike Recovery: 0 out of 40 outside limits.

06/10/2025 12:04

FORM III PFAS-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 5253129LCS
Date Extracted: 05/27/2025
Date Analyzed (1): 05/29/2025 19:35:00
Instrument: 10PFA2
LCS Standard: 509107
Lab File ID:
SDG No.: 10733872

COMPOUND	AMOUNT ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS %REC	QC LIMITS REC.
11Cl-PF3OUdS	75.2	65.3	87	55-160
3:3 FTCA	99.2	78.6	79	65-130
5:3 FTCA	496	395	80	70-135
7:3 FTCA	496	408	82	50-145
9Cl-PF3ONS	75.2	69.7	93	70-155
ADONA	75.2	65.2	87	65-145
HFPO-DA	80.0	72.0	90	70-140
NEtFOSAA	19.2	16.7	87	70-145
NFDHA	40.0	34.7	87	50-150
NMeFOSAA	19.2	16.4	85	50-140
PFBS	17.6	16.0	91	60-145
PFDA	19.2	18.5	96	70-140
PFHxA	19.2	17.1	89	70-145
PFEESA	35.2	31.4	89	70-140
PFMBA	40.0	35.7	89	60-150
PFMPA	40.0	34.3	86	55-140
PFDoA	19.2	18.6	97	70-140
PFHpA	19.2	17.5	91	70-150
PFHxS	17.6	15.7	89	65-145
PFNA	19.2	17.4	91	70-150
PFOS	19.2	15.4	80	55-150
PFOA	19.2	17.3	90	70-150
PFTeDA	19.2	18.4	96	60-140
PFTrDA	19.2	17.2	89	65-140
PFUnA	19.2	16.6	87	70-145
PFBA	80.0	71.0	89	70-140
PFPeA	40.0	35.1	88	65-135
PFHpS	19.2	17.1	89	70-150
4:2 FTS	75.2	72.0	96	70-145
NMeFOSE	192	172	89	70-145
NEtFOSE	192	168	87	70-135
PFNS	19.2	16.3	85	65-145
PFDS	19.2	16.1	84	60-145
PFPeS	19.2	15.9	83	65-140
NEtFOSA	19.2	17.5	91	65-145
PFOSA	19.2	17.1	89	70-145
NMeFOSA	19.2	17.6	92	60-150
6:2 FTS	76.8	69.7	91	65-155
8:2 FTS	76.8	70.3	92	60-150
PFDoS	19.2	16.8	87	50-145

Spike Recovery: 0 out of 40 outside limits.

FORM III PFAS-2

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 5253130SRM
Date Extracted: 05/27/2025
Date Analyzed (1): 05/29/2025 19:49:00
Instrument: 10PFA2
LCS Standard: 509108
Lab File ID:
SDG No.: 10733872

COMPOUND	AMOUNT ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS %REC	QC LIMITS REC.
11Cl-PF3OUdS	12.0	10.0	83	55-160
3:3 FTCA	15.9	12.8	80	65-130
5:3 FTCA	79.4	57.0	72	70-135
7:3 FTCA	79.4	61.3	77	50-145
9Cl-PF3ONS	12.0	10.3	85	70-155
ADONA	12.0	10.1	84	65-145
HFPO-DA	12.8	11.5	90	70-140
NEtFOSAA	3.1	2.6	84	70-145
NFDHA	6.4	5.6	87	50-150
NMeFOSAA	3.1	2.5	80	50-140
PFBS	2.8	2.2	80	60-145
PFDA	3.1	2.9	95	70-140
PFHxA	3.1	2.5	81	70-145
PFEESA	5.6	4.7	84	70-140
PFMBA	6.4	5.0	78	60-150
PFMPA	6.4	5.1	80	55-140
PFDoA	3.1	2.7	87	70-140
PFHpA	3.1	2.6	85	70-150
PFHxS	2.8	2.6	92	65-145
PFNA	3.1	2.5	83	70-150
PFOS	3.1	2.6	83	55-150
PFOA	3.1	2.7	87	70-150
PFTeDA	3.1	2.6	86	60-140
PFTrDA	3.1	2.4	78	65-140
PFUnA	3.1	2.4	77	70-145
NEtFOSE	30.7	25.1	82	70-135
8:2 FTS	12.3	10.4	85	60-150
PFOSA	3.1	2.7	87	70-145
PFPeS	3.1	2.4	79	65-140
PFBA	12.8	10.4	81	70-140
6:2 FTS	12.3	9.7	79	65-155
PFDS	3.1	2.5	81	60-145
4:2 FTS	12.0	10.1	84	70-145
PFNS	3.1	2.4	78	65-145
NMeFOSA	3.1	2.6	84	60-150
NMeFOSE	30.7	26.0	85	70-145
PFDoS	3.1	2.6	85	50-145
PFHpS	3.1	2.3	74	70-150
NEtFOSA	3.1	2.7	88	65-145
PFPeA	6.4	5.2	82	65-135

Spike Recovery: 0 out of 40 outside limits.

SAMPLE NO.

5253128BLANK

FORM IV PFAS-1
PFAS METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Minnesota SDG No.: 10733872 Contract: L1856433 WG2510324

Instrument ID: 10PFA2 Matrix: Water Lab Sample ID: 5253128

Lab File ID: Date Analyzed: 05/29/2025 Time: 19:21

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
5253129LCS	5253129		05/29/2025 19:35
5253130SRM	5253130		05/29/2025 19:49
SWS-05	10733872001		05/29/2025 20:17
DWS-85	10733872002		05/29/2025 20:31
DWS-56	10733872003		05/29/2025 20:46
DWS-86	10733872004		05/29/2025 21:00
DWS-87	10733872005		05/29/2025 21:14
DWS-88	10733872006		05/29/2025 21:28
DUPE-04	10733872007		05/29/2025 22:10
DWS-89	10733872008		05/29/2025 22:24
DWS-90	10733872009		05/29/2025 22:39
DWS-91	10733872010		05/29/2025 22:53

SAMPLE NO.

5261023BLANK

FORM IV PFAS-1
PFAS METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Minnesota SDG No.: 10733872 Contract: L1856433 WG2510324

Instrument ID: 10PFA2 Matrix: Water Lab Sample ID: 5261023

Lab File ID: Date Analyzed: 05/29/2025 Time: 12:59

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
5261024LCS	5261024		05/29/2025 13:13
5261025SRM	5261025		05/29/2025 13:27
TRIP BLANK	10733872011		05/29/2025 15:49

PFAS - FORM 8I PFAS-1
PFAS INTERNAL STANDARD AREA SUMMARY

Lab Name: Pace Analytical - Minnesota SDG No.: 10733872 Contract: L1856433 WG2510324

Standard ID: ICAL Average Date Analyzed: 05/23/2025

Instrument ID: 10PFA2 Analytical Batch: 1009827

			AREA 13C2-PFDA	AREA 13C2-PFHxA	AREA 13C3-PFBA	AREA 13C4PFOA	AREA 13C4PFOS	AREA 13C5-PFNA
ICAL Average		DF	60773	77056	75932	20671	27558	59115
5253128	5253128BLANK	1	70146	90217	92557	23605	31723	68876
5253129	5253129LCS	1	83976	106127	108530	28888	38143	84786
5253130	5253130SRM	1	77861	97114	98108	26339	35477	75562
10733872001	SWS-05	1	71735	88982	88084	24475	33652	71578
10733872002	DWS-85	1	83794	102722	101956	27608	37918	81213
10733872003	DWS-56	1	76634	95053	96583	25417	35763	72940
10733872004	DWS-86	1	77730	98531	98618	26065	36162	74603
10733872005	DWS-87	1	85206	106968	106030	29440	39873	83063
10733872006	DWS-88	1	78339	98034	98904	26935	36396	79758
10733872007	DUPE-04	1	70070	90228	91312	24634	33682	72911
10733872008	DWS-89	1	88836	107241	109786	30724	41704	86582
10733872009	DWS-90	1	79220	98072	99268	25539	37647	76604
10733872010	DWS-91	1	85000	107659	109181	29269	39158	84024

			AREA 18O2-PFHxS
ICAL Average		DF	28398
5253128	5253128BLANK	1	34870
5253129	5253129LCS	1	40320
5253130	5253130SRM	1	36845
10733872001	SWS-05	1	34898
10733872002	DWS-85	1	37318
10733872003	DWS-56	1	34915
10733872004	DWS-86	1	36286
10733872005	DWS-87	1	41220
10733872006	DWS-88	1	37537
10733872007	DUPE-04	1	33880
10733872008	DWS-89	1	40537
10733872009	DWS-90	1	37189
10733872010	DWS-91	1	40920

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

* Values outside of QC Limits

PFAS - FORM 8I PFAS-1
PFAS INTERNAL STANDARD AREA SUMMARY

Lab Name: Pace Analytical - Minnesota SDG No.: 10733872 Contract: L1856433 WG2510324

Standard ID: ICAL Average Date Analyzed: 05/23/2025

Instrument ID: 10PFA2 Analytical Batch: 1009956

			AREA 13C2-PFDA	AREA 13C2-PFHxA	AREA 13C3-PFBA	AREA 13C4PFOA	AREA 13C4PFOS	AREA 13C5-PFNA
ICAL Average		DF	60773	77056	75932	20671	27558	59115
5261023	5261023BLANK	1	86731	107567	109703	28385	40549	85176
5261024	5261024LCS	1	85633	107011	107058	29199	40380	82003
5261025	5261025SRM	1	77521	100630	102897	26644	37705	79542
10733872011	TRIP BLANK	1	82964	105675	107493	27024	39831	82396

			AREA 18O2-PFHxS
ICAL Average		DF	28398
5261023	5261023BLANK	1	41356
5261024	5261024LCS	1	40194
5261025	5261025SRM	1	37258
10733872011	TRIP BLANK	1	39000

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

* Values outside of QC Limits

FORM 8E PFAS-1
EXTRACTED INTERNAL STANDARD RECOVERY

Lab Name: Pace Analytical - Minnesota SDG No.: 10733872 Contract: L1856433 WG2510324

Instrument ID: 10PFA2

LAB SAMPLE ID	SAMPLE NAME	13C2-PFDoA	13C2-PFTA	13C24:2FTS	13C26:2FTS	13C28:2FTS	13C3-PFBS
5253128	5253128BLANK	90	83	120	122	108	89
5253129	5253129LCS	77	74	99	98	94	82
5253130	5253130SRM	58	56	85	81	76	63
10733872001	SWS-05	58	55	91	83	78	64
10733872002	DWS-85	76	70	121	124	105	97
10733872003	DWS-56	82	77	118	116	103	93
10733872004	DWS-86	83	78	134	121	114	96
10733872005	DWS-87	67	65	102	99	89	75
10733872006	DWS-88	70	70	99	95	90	74
10733872007	DUPE-04	93	90	140	127	120	97
10733872008	DWS-89	78	74	111	116	105	88
10733872009	DWS-90	78	76	113	111	99	85
10733872010	DWS-91	84	80	123	116	109	90

LAB SAMPLE ID	SAMPLE NAME	13C3-PFHxS	13C3-PFPrA	13C3HFPO-DA	13C4-PFBA	13C4-PFHpA	13C5-PFHxA
5253128	5253128BLANK	91	88	94	91	98	92
5253129	5253129LCS	86	82	86	84	90	88
5253130	5253130SRM	66	64	63	65	67	64
10733872001	SWS-05	68	71	70	72	71	68
10733872002	DWS-85	98	41	96	95	99	98
10733872003	DWS-56	92	33	91	93	96	91
10733872004	DWS-86	102	19	99	96	100	97
10733872005	DWS-87	78	17	75	82	83	80
10733872006	DWS-88	72	8	73	82	77	75
10733872007	DUPE-04	101	10	101	99	107	102
10733872008	DWS-89	92	16	90	87	94	89
10733872009	DWS-90	85	15	84	83	87	86
10733872010	DWS-91	89	20	89	92	97	93

LAB SAMPLE ID	SAMPLE NAME	13C5-PFPeA	13C6-PFDA	13C7-PFUdA	13C8-PFOA	13C8-PFOS	13C8-PFOSA
5253128	5253128BLANK	93	91	91	95	94	88
5253129	5253129LCS	85	82	84	84	86	82
5253130	5253130SRM	65	60	60	62	62	59
10733872001	SWS-05	70	65	60	64	66	62
10733872002	DWS-85	95	88	81	97	91	91
10733872003	DWS-56	92	86	84	89	88	83
10733872004	DWS-86	96	93	91	95	97	93
10733872005	DWS-87	79	75	73	76	72	68
10733872006	DWS-88	77	69	69	72	72	70

FORM 8E PFAS-2
EXTRACTED INTERNAL STANDARD RECOVERY

Lab Name: Pace Analytical - Minnesota SDG No.: 10733872 Contract: L1856433 WG2510324

Instrument ID: 10PFA2

LAB SAMPLE ID	SAMPLE NAME	13C5-PFPeA	13C6-PFDA	13C7-PFUdA	13C8-PFOA	13C8-PFOS	13C8-PFOSA
10733872007	DUPE-04	103	97	99	99	97	96
10733872008	DWS-89	90	84	83	85	82	83
10733872009	DWS-90	85	82	80	87	81	79
10733872010	DWS-91	92	89	87	90	91	91

LAB SAMPLE ID	SAMPLE NAME	13C9-PFNA	d3-MeFOSAA	d3-NMeFOSA	d5-EtFOSAA	d5-NEtFOSA	d7-NMeFOSE
5253128	5253128BLANK	93	102	69	103	73	88
5253129	5253129LCS	81	92	64	92	66	80
5253130	5253130SRM	62	68	45	68	47	55
10733872001	SWS-05	62	65	43	63	44	51
10733872002	DWS-85	95	93	62	91	65	73
10733872003	DWS-56	91	90	64	90	66	73
10733872004	DWS-86	95	100	71	100	68	78
10733872005	DWS-87	76	80	54	78	51	61
10733872006	DWS-88	69	74	49	76	50	57
10733872007	DUPE-04	96	104	77	101	73	87
10733872008	DWS-89	88	88	55	87	55	73
10733872009	DWS-90	85	86	61	84	57	67
10733872010	DWS-91	89	96	57	96	57	73

LAB SAMPLE ID	SAMPLE NAME	d9-NEtFOSE
5253128	5253128BLANK	89
5253129	5253129LCS	83
5253130	5253130SRM	57
10733872001	SWS-05	55
10733872002	DWS-85	74
10733872003	DWS-56	75
10733872004	DWS-86	80
10733872005	DWS-87	62
10733872006	DWS-88	60
10733872007	DUPE-04	87
10733872008	DWS-89	73
10733872009	DWS-90	67
10733872010	DWS-91	76

	QC LIMITS
(13C2-PFDoA) = 13C2-PFDoA (S)	(10-130)
(13C2-PFTA) = 13C2-PFTA (S)	(10-130)
(13C24:2FTS) = 13C24:2FTS (S)	(40-200)
(13C26:2FTS) = 13C26:2FTS (S)	(40-200)

FORM 8E PFAS-3
EXTRACTED INTERNAL STANDARD RECOVERY

Lab Name: Pace Analytical - Minnesota SDG No.: 10733872 Contract: L1856433 WG2510324

Instrument ID: 10PFA2

	QC LIMITS
(13C28:2FTS) = 13C28:2FTS (S)	(40-300)
(13C3-PFBS) = 13C3-PFBS (S)	(40-135)
(13C3-PFHxS) = 13C3-PFHxS (S)	(40-130)
(13C3-PFPrA) = 13C3-PFPrA (S)	(5-130)
(13C3HFPO-DA) = 13C3HFPO-DA (S)	(40-130)
(13C4-PFBA) = 13C4-PFBA (S)	(5-130)
(13C4-PFHpA) = 13C4-PFHpA (S)	(40-130)
(13C5-PFHxA) = 13C5-PFHxA (S)	(40-130)
(13C5-PFPeA) = 13C5-PFPeA (S)	(40-130)
(13C6-PFDA) = 13C6-PFDA (S)	(40-130)
(13C7-PFUdA) = 13C7-PFUdA (S)	(30-130)
(13C8-PFOA) = 13C8-PFOA (S)	(40-130)
(13C8-PFOS) = 13C8-PFOS (S)	(40-130)
(13C8-PFOSA) = 13C8-PFOSA (S)	(40-130)
(13C9-PFNA) = 13C9-PFNA (S)	(40-130)
(d3-MeFOSAA) = d3-MeFOSAA (S)	(40-170)
(d3-NMeFOSA) = d3-NMeFOSA (S)	(10-130)
(d5-EtFOSAA) = d5-EtFOSAA (S)	(25-135)
(d5-NEtFOSA) = d5-NEtFOSA (S)	(10-130)
(d7-NMeFOSE) = d7-NMeFOSE (S)	(10-130)
(d9-NEtFOSE) = d9-NEtFOSE (S)	(10-130)

* Values outside of QC Limits

FORM 8E PFAS-1
EXTRACTED INTERNAL STANDARD RECOVERY

Lab Name: Pace Analytical - Minnesota SDG No.: 10733872 Contract: L1856433 WG2510324

Instrument ID: 10PFA2

LAB SAMPLE ID	SAMPLE NAME	13C2-PFDoA	13C2-PFTA	13C24:2FTS	13C26:2FTS	13C28:2FTS	13C3-PFBS
5261023	5261023BLANK	89	84	134	123	116	95
5261024	5261024LCS	86	78	111	107	104	91
5261025	5261025SRM	78	76	118	109	107	85
10733872011	TRIP BLANK	84	82	134	126	116	95

LAB SAMPLE ID	SAMPLE NAME	13C3-PFHxS	13C3-PFPrA	13C3HFPO-DA	13C4-PFBA	13C4-PFHpA	13C5-PFHxA
5261023	5261023BLANK	96	88	97	96	101	101
5261024	5261024LCS	95	92	95	93	94	95
5261025	5261025SRM	87	85	85	85	86	85
10733872011	TRIP BLANK	98	89	93	94	98	95

LAB SAMPLE ID	SAMPLE NAME	13C5-PFPeA	13C6-PFDA	13C7-PFUdA	13C8-PFOA	13C8-PFOS	13C8-PFOSA
5261023	5261023BLANK	98	94	95	102	96	90
5261024	5261024LCS	93	95	91	92	92	85
5261025	5261025SRM	85	86	84	86	80	76
10733872011	TRIP BLANK	95	91	89	102	93	84

LAB SAMPLE ID	SAMPLE NAME	13C9-PFNA	d3-MeFOSAA	d3-NMeFOSA	d5-EtFOSAA	d5-NEtFOSA	d7-NMeFOSE
5261023	5261023BLANK	93	101	64	104	67	82
5261024	5261024LCS	94	98	61	97	66	80
5261025	5261025SRM	81	88	58	87	61	74
10733872011	TRIP BLANK	91	98	59	95	61	79

LAB SAMPLE ID	SAMPLE NAME	d9-NEtFOSE
5261023	5261023BLANK	85
5261024	5261024LCS	81
5261025	5261025SRM	73
10733872011	TRIP BLANK	80

	QC LIMITS
(13C2-PFDoA) = 13C2-PFDoA (S)	(10-130)
(13C2-PFTA) = 13C2-PFTA (S)	(10-130)
(13C24:2FTS) = 13C24:2FTS (S)	(40-200)
(13C26:2FTS) = 13C26:2FTS (S)	(40-200)
(13C28:2FTS) = 13C28:2FTS (S)	(40-300)
(13C3-PFBS) = 13C3-PFBS (S)	(40-135)
(13C3-PFHxS) = 13C3-PFHxS (S)	(40-130)
(13C3-PFPrA) = 13C3-PFPrA (S)	(5-130)
(13C3HFPO-DA) = 13C3HFPO-DA (S)	(40-130)

FORM 8E PFAS-2
EXTRACTED INTERNAL STANDARD RECOVERY

Lab Name: Pace Analytical - Minnesota SDG No.: 10733872 Contract: L1856433 WG2510324

Instrument ID: 10PFA2

	QC LIMITS
(13C4-PFBA) = 13C4-PFBA (S)	(5-130)
(13C4-PFHpA) = 13C4-PFHpA (S)	(40-130)
(13C5-PFHxA) = 13C5-PFHxA (S)	(40-130)
(13C5-PFPeA) = 13C5-PFPeA (S)	(40-130)
(13C6-PFDA) = 13C6-PFDA (S)	(40-130)
(13C7-PFUdA) = 13C7-PFUdA (S)	(30-130)
(13C8-PFOA) = 13C8-PFOA (S)	(40-130)
(13C8-PFOS) = 13C8-PFOS (S)	(40-130)
(13C8-PFOSA) = 13C8-PFOSA (S)	(40-130)
(13C9-PFNA) = 13C9-PFNA (S)	(40-130)
(d3-MeFOSAA) = d3-MeFOSAA (S)	(40-170)
(d3-NMeFOSA) = d3-NMeFOSA (S)	(10-130)
(d5-EtFOSAA) = d5-EtFOSAA (S)	(25-135)
(d5-NEtFOSA) = d5-NEtFOSA (S)	(10-130)
(d7-NMeFOSE) = d7-NMeFOSE (S)	(10-130)
(d9-NEtFOSE) = d9-NEtFOSE (S)	(10-130)

* Values outside of QC Limits

SAMPLE NO.

SWS-05

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota Contract: L1856433 WG2510324

Date Received: 05/09/2025 08:50 Matrix: Water SDG No.: 10733872

Date Extracted: 05/27/2025 13:59 Lab Sample ID: 10733872001

Date Analyzed: 05/29/2025 20:17 Lab File ID:

Initial wt/vol: 125.7 Final wt/vol: 4 mL Dilution: 1 Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	6.7	
335-76-2	PFDA	ND	U
307-24-4	PFHxA	6.6	
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	11.3	
375-95-1	PFNA	ND	U
1763-23-1	PFOS	10.0	
335-67-1	PFOA	22.0	
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
375-22-4	PFBA	ND	U
2706-90-3	PFPeA	ND	U
27619-97-2	6:2 FTS	ND	U
1691-99-2	NEtFOSE	ND	U
4151-50-2	NEtFOSA	ND	U
757124-72-4	4:2 FTS	ND	U
335-77-3	PFDS	ND	U
2706-91-4	PFPeS	ND	U
754-91-6	PFOSA	ND	U
24448-09-7	NMeFOSE	ND	U
375-92-8	PFHpS	ND	U
31506-32-8	NMeFOSA	ND	U

SAMPLE NO.

SWS-05

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water
SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872001
Date Analyzed: 05/29/2025 20:17
Lab File ID:
Initial wt/vol: 125.7
Final wt/vol: 4 mL
Dilution: 1
Instrument: 10PFA2
Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
39108-34-4	8:2 FTS	ND	U
68259-12-1	PFNS	ND	U
79780-39-5	PFDoS	ND	U

SAMPLE NO.

DWS-85

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872002
Date Analyzed: 05/29/2025 20:31
Lab File ID:
Initial wt/vol: 522.8 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	3.5	
375-95-1	PFNA	ND	U
1763-23-1	PFOS	2.4	
335-67-1	PFOA	2.3	
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
27619-97-2	6:2 FTS	ND	U
39108-34-4	8:2 FTS	ND	U
4151-50-2	NEtFOSA	ND	U
375-22-4	PFBA	ND	U
79780-39-5	PFDoS	ND	U
375-92-8	PFHpS	ND	U
24448-09-7	NMeFOSE	ND	U
754-91-6	PFOSA	ND	U
757124-72-4	4:2 FTS	ND	U
2706-91-4	PFPeS	ND	U
1691-99-2	NEtFOSE	ND	U
31506-32-8	NMeFOSA	ND	U

SAMPLE NO.

DWS-85

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872002
Date Analyzed: 05/29/2025 20:31
Lab File ID:
Initial wt/vol: 522.8 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
335-77-3	PFDS	ND	U
68259-12-1	PFNS	ND	U
2706-90-3	PFPeA	ND	U

SAMPLE NO.

DWS-56

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872003
Date Analyzed: 05/29/2025 20:46
Lab File ID:
Initial wt/vol: 542.7 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
31506-32-8	NMeFOSA	ND	U
68259-12-1	PFNS	ND	U
2706-91-4	PFPeS	ND	U
79780-39-5	PFDoS	ND	U
39108-34-4	8:2 FTS	ND	U
24448-09-7	NMeFOSE	ND	U
2706-90-3	PFPeA	ND	U
335-77-3	PFDS	ND	U
757124-72-4	4:2 FTS	ND	U
375-22-4	PFBA	ND	U
4151-50-2	NEtFOSA	ND	U
1691-99-2	NEtFOSE	ND	U

SAMPLE NO.

DWS-56

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota Contract: L1856433 WG2510324

Date Received: 05/09/2025 08:50 Matrix: Water SDG No.: 10733872

Date Extracted: 05/27/2025 13:59 Lab Sample ID: 10733872003

Date Analyzed: 05/29/2025 20:46 Lab File ID:

Initial wt/vol: 542.7 Final wt/vol: 4 mL Dilution: 1 Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
375-92-8	PFHpS	ND	U
27619-97-2	6:2 FTS	ND	U
754-91-6	PFOSA	ND	U

SAMPLE NO.

DWS-86

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872004
Date Analyzed: 05/29/2025 21:00
Lab File ID:
Initial wt/vol: 547.1 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
39108-34-4	8:2 FTS	ND	U
4151-50-2	NEtFOSA	ND	U
2706-91-4	PFPeS	ND	U
1691-99-2	NEtFOSE	ND	U
31506-32-8	NMeFOSA	ND	U
24448-09-7	NMeFOSE	ND	U
27619-97-2	6:2 FTS	ND	U
68259-12-1	PFNS	ND	U
754-91-6	PFOSA	ND	U
335-77-3	PFDS	ND	U
375-22-4	PFBA	ND	U
2706-90-3	PFPeA	ND	U

SAMPLE NO.

DWS-86

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota Contract: L1856433 WG2510324

Date Received: 05/09/2025 08:50 Matrix: Water SDG No.: 10733872

Date Extracted: 05/27/2025 13:59 Lab Sample ID: 10733872004

Date Analyzed: 05/29/2025 21:00 Lab File ID:

Initial wt/vol: 547.1 Final wt/vol: 4 mL Dilution: 1 Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
79780-39-5	PFDoS	ND	U
757124-72-4	4:2 FTS	ND	U
375-92-8	PFHpS	ND	U

SAMPLE NO.

DWS-87

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872005
Date Analyzed: 05/29/2025 21:14
Lab File ID:
Initial wt/vol: 530.6 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
31506-32-8	NMeFOSA	ND	U
375-22-4	PFBA	ND	U
754-91-6	PFOSA	ND	U
39108-34-4	8:2 FTS	ND	U
79780-39-5	PFDoS	ND	U
375-92-8	PFHpS	ND	U
335-77-3	PFDS	ND	U
1691-99-2	NEtFOSE	ND	U
2706-91-4	PFPeS	ND	U
68259-12-1	PFNS	ND	U
757124-72-4	4:2 FTS	ND	U
27619-97-2	6:2 FTS	ND	U

SAMPLE NO.

DWS-87

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872005
Date Analyzed: 05/29/2025 21:14
Lab File ID:
Initial wt/vol: 530.6 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
24448-09-7	NMeFOSE	ND	U
2706-90-3	PFPeA	ND	U
4151-50-2	NEtFOSA	ND	U

SAMPLE NO.

DWS-88

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872006
Date Analyzed: 05/29/2025 21:28
Lab File ID:
Initial wt/vol: 533.1 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
375-22-4	PFBA	ND	U
1691-99-2	NEtFOSE	ND	U
68259-12-1	PFNS	ND	U
2706-90-3	PFPeA	ND	U
2706-91-4	PFPeS	ND	U
754-91-6	PFOSA	ND	U
31506-32-8	NMeFOSA	ND	U
24448-09-7	NMeFOSE	ND	U
79780-39-5	PFDoS	ND	U
757124-72-4	4:2 FTS	ND	U
39108-34-4	8:2 FTS	ND	U
4151-50-2	NEtFOSA	ND	U

SAMPLE NO.

DWS-88

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872006
Date Analyzed: 05/29/2025 21:28
Lab File ID:
Initial wt/vol: 533.1 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
27619-97-2	6:2 FTS	ND	U
335-77-3	PFDS	ND	U
375-92-8	PFHpS	ND	U

SAMPLE NO.

DUPE-04

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872007
Date Analyzed: 05/29/2025 22:10
Lab File ID:
Initial wt/vol: 259.6 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
757124-72-4	4:2 FTS	ND	U
31506-32-8	NMeFOSA	ND	U
39108-34-4	8:2 FTS	ND	U
375-22-4	PFBA	ND	U
2706-91-4	PFPeS	ND	U
754-91-6	PFOSA	ND	U
24448-09-7	NMeFOSE	ND	U
68259-12-1	PFNS	ND	U
2706-90-3	PFPeA	ND	U
4151-50-2	NEtFOSA	ND	U
375-92-8	PFHpS	ND	U
335-77-3	PFDS	ND	U

SAMPLE NO.

DUPE-04

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water
SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872007
Date Analyzed: 05/29/2025 22:10
Lab File ID:
Initial wt/vol: 259.6
Final wt/vol: 4 mL
Dilution: 1
Instrument: 10PFA2
Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
1691-99-2	NEtFOSE	ND	U
79780-39-5	PFDoS	ND	U
27619-97-2	6:2 FTS	ND	U

SAMPLE NO.

DWS-89

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872008
Date Analyzed: 05/29/2025 22:24
Lab File ID:
Initial wt/vol: 536.4 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
27619-97-2	6:2 FTS	ND	U
31506-32-8	NMeFOSA	ND	U
335-77-3	PFDS	ND	U
375-92-8	PFHpS	ND	U
757124-72-4	4:2 FTS	ND	U
68259-12-1	PFNS	ND	U
2706-90-3	PFPeA	ND	U
39108-34-4	8:2 FTS	ND	U
1691-99-2	NEtFOSE	ND	U
79780-39-5	PFDoS	ND	U
4151-50-2	NEtFOSA	ND	U
24448-09-7	NMeFOSE	ND	U

SAMPLE NO.

DWS-89

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota Contract: L1856433 WG2510324

Date Received: 05/09/2025 08:50 Matrix: Water SDG No.: 10733872

Date Extracted: 05/27/2025 13:59 Lab Sample ID: 10733872008

Date Analyzed: 05/29/2025 22:24 Lab File ID:

Initial wt/vol: 536.4 Final wt/vol: 4 mL Dilution: 1 Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
375-22-4	PFBA	ND	U
2706-91-4	PFPeS	ND	U
754-91-6	PFOSA	ND	U

SAMPLE NO.

DWS-90

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872009
Date Analyzed: 05/29/2025 22:39
Lab File ID:
Initial wt/vol: 133.4 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
68259-12-1	PFNS	ND	U
757124-72-4	4:2 FTS	ND	U
375-92-8	PFHpS	ND	U
754-91-6	PFOSA	ND	U
2706-90-3	PFPeA	ND	U
2706-91-4	PFPeS	ND	U
39108-34-4	8:2 FTS	ND	U
27619-97-2	6:2 FTS	ND	U
4151-50-2	NEtFOSA	ND	U
24448-09-7	NMeFOSE	ND	U
1691-99-2	NEtFOSE	ND	U
335-77-3	PFDS	ND	U

SAMPLE NO.

DWS-90

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872009
Date Analyzed: 05/29/2025 22:39
Lab File ID:
Initial wt/vol: 133.4 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
79780-39-5	PFDoS	ND	U
375-22-4	PFBA	ND	U
31506-32-8	NMeFOSA	ND	U

SAMPLE NO.

DWS-91

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 10733872010
Date Analyzed: 05/29/2025 22:53
Lab File ID:
Initial wt/vol: 515.3 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
79780-39-5	PFDoS	ND	U
68259-12-1	PFNS	ND	U
2706-90-3	PFPeA	ND	U
375-92-8	PFHpS	ND	U
39108-34-4	8:2 FTS	ND	U
31506-32-8	NMeFOSA	ND	U
24448-09-7	NMeFOSE	ND	U
27619-97-2	6:2 FTS	ND	U
4151-50-2	NEtFOSA	ND	U
757124-72-4	4:2 FTS	ND	U
1691-99-2	NEtFOSE	ND	U
375-22-4	PFBA	ND	U

SAMPLE NO.

DWS-91

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota Contract: L1856433 WG2510324

Date Received: 05/09/2025 08:50 Matrix: Water SDG No.: 10733872

Date Extracted: 05/27/2025 13:59 Lab Sample ID: 10733872010

Date Analyzed: 05/29/2025 22:53 Lab File ID:

Initial wt/vol: 515.3 Final wt/vol: 4 mL Dilution: 1 Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
335-77-3	PFDS	ND	U
2706-91-4	PFPeS	ND	U
754-91-6	PFOSA	ND	U

SAMPLE NO.

TRIP BLANK

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/09/2025 08:50
Matrix: Water SDG No.: 10733872
Date Extracted: 05/28/2025 06:49
Lab Sample ID: 10733872011
Date Analyzed: 05/29/2025 15:49
Lab File ID:
Initial wt/vol: 507.3 Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
375-22-4	PFBA	ND	U
79780-39-5	PFDoS	ND	U
4151-50-2	NEtFOSA	ND	U
39108-34-4	8:2 FTS	ND	U
68259-12-1	PFNS	ND	U
2706-90-3	PFPeA	ND	U
2706-91-4	PFPeS	ND	U
754-91-6	PFOSA	ND	U
24448-09-7	NMeFOSE	ND	U
757124-72-4	4:2 FTS	ND	U
1691-99-2	NEtFOSE	ND	U
31506-32-8	NMeFOSA	ND	U

SAMPLE NO.

TRIP BLANK

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota Contract: L1856433 WG2510324

Date Received: 05/09/2025 08:50 Matrix: Water SDG No.: 10733872

Date Extracted: 05/28/2025 06:49 Lab Sample ID: 10733872011

Date Analyzed: 05/29/2025 15:49 Lab File ID:

Initial wt/vol: 507.3 Final wt/vol: 4 mL Dilution: 1 Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
375-92-8	PFHpS	ND	U
335-77-3	PFDS	ND	U
27619-97-2	6:2 FTS	ND	U

Initial Calibration Report - 10PFA2

Method Path
Method File
Batch Name P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin
Last Calib Update 5/23/2025 1:20:07 PM

Level Name	Calibration Files	Acq. Date-Time	Level Last Update Time
1	P:\PFA2\052325A-1633F ICAL\052325A-0003.d	5/23/2025 10:26:16 AM	5/23/2025 1:20:07 PM
2	P:\PFA2\052325A-1633F ICAL\052325A-0004.d	5/23/2025 10:40:24 AM	5/23/2025 1:20:07 PM
3	P:\PFA2\052325A-1633F ICAL\052325A-0005.d	5/23/2025 10:54:33 AM	5/23/2025 1:20:07 PM
4	P:\PFA2\052325A-1633F ICAL\052325A-0006.d	5/23/2025 11:08:41 AM	5/23/2025 1:20:07 PM
5	P:\PFA2\052325A-1633F ICAL\052325A-0007.d	5/23/2025 11:22:49 AM	5/23/2025 1:20:07 PM
6	P:\PFA2\052325A-1633F ICAL\052325A-0008.d	5/23/2025 11:36:57 AM	5/23/2025 1:20:07 PM
7	P:\PFA2\052325A-1633F ICAL\052325A-0009.d	5/23/2025 11:51:05 AM	5/23/2025 1:20:07 PM
8	P:\PFA2\052325A-1633F ICAL\052325A-0010.d	5/23/2025 12:05:13 PM	5/23/2025 1:20:07 PM
9	P:\PFA2\052325A-1633F ICAL\052325A-0011.d	5/23/2025 12:19:21 PM	5/23/2025 1:20:07 PM

Compound	Curve Fit	1	2	3	4	5	6	7	8	9	Avg RF	%RSD
S 13C3-PFBA	Avg RF	17135	17487	14530	14872	16602	15294	14552	13392	12814	15186	10.640
S 13C2-PFHxA	Avg RF	33022	33816	28798	29253	33221	30067	30279	29869	29078	30822	6.380
S 13C4-PFOA	Avg RF	8744	9442	7555	8128	9018	8400	7824	7588	7717	8268	8.198
S 18O2-PFHxS	Avg RF	12048	12749	11048	11262	12173	11106	11641	10433	9774	11359	8.049
S 13C5-PFNA	Avg RF	48864	51692	42878	46854	48972	49253	47158	45122	44832	47292	5.740
S 13C2-PFDA	Avg RF	51799	53458	44474	46337	51762	48028	48472	46514	46719	48618	6.264
S 13C4-PFOS	Avg RF	12027	12296	10476	11259	11981	11046	10908	9847	9368	11023	9.092
I 13C3-HFPODA_ISTD					---------- ISTD ----------							
T HFPO-DA	Avg RF	0.8200	0.9143	0.9824	0.9249	0.9779	1.0460	1.0233	1.0831	1.0629	0.9816	8.574
T TFSI	Quadratic	6.6615	6.5247	7.8395	7.2803	7.8563	8.7492	8.4734	9.8830	10.38	8.1835	16.304
I D3-NMeFOSAA_ISTD					---------- ISTD ----------							
T NMeFOSAA	Avg RF	0.3704	0.3011	0.3895	0.3346	0.3398	0.3994	0.3741	0.4258	0.4101	0.3717	10.793
I D5-NEtFOSAA_ISTD					---------- ISTD ----------							
T NEtFOSAA	Avg RF	0.8053	0.8804	1.0923	0.8559	0.9140	0.9898	1.0211	1.0879	1.1140	0.9734	11.702
I 13C4-PFBA_ISTD					---------- ISTD ----------							
T PFBA	Avg RF	0.8359	0.8323	0.9852	0.9039	0.9962	1.0601	1.0700	1.1405	1.1446	0.9965	11.956
T PFMPA	Avg RF	0.1398	0.1489	0.1792	0.1524	0.1647	0.1790	0.1858	0.2010	0.2061	0.1730	13.400
I 13C2-4:2FTS_ISTD					---------- ISTD ----------							
T 4:2FTS	Avg RF		2.8463	3.3116	3.1288	3.2266	3.5908	3.4117	3.5092	3.3024	3.2909	7.088
I 13C2-6:2FTS_ISTD					---------- ISTD ----------							
T 6:2FTS	Avg RF	2.5206	2.3531	2.8540	2.4920	2.9090	2.8695	2.8047	2.7339	2.7012	2.6931	7.233
I 13C2-8:2FTS_ISTD					---------- ISTD ----------							
T 8:2FTS	Avg RF	2.4856	2.4339	2.9144	2.8467	2.7893	2.9897	3.0304	2.5528	2.6236	2.7407	8.138
I 13C2-PFTeDA_ISTD					---------- ISTD ----------							

Compound	Curve Fit	1	2	3	4	5	6	7	8	9	Avg RF	%RSD
T PFTeDA	Avg RF	0.9066	1.0533	1.1848	1.1009	1.1560	1.2257	1.2595	1.2287	1.2685	1.1538	10.166
I 13C3-PFBS_ISTD					---------- ISTD ----------							
T PFBS	Avg RF	1.1180	1.1042	1.3195	1.2150	1.3275	1.3705	1.4190	1.4956	1.4974	1.3185	11.156
I 13C3-PFHxS_ISTD					---------- ISTD ----------							
T PFPeS	Avg RF	1.3523	1.2359	1.6124	1.4153	1.5575	1.7069	1.7498	1.7272	1.7541	1.5679	12.238
T PFHxS	Avg RF	1.1544	1.0629	1.2691	1.1986	1.2036	1.3122	1.3598	1.4046	1.4030	1.2631	9.325
I 13C4-PFHpA_ISTD					---------- ISTD ----------							
T PFHpA	Avg RF	0.9216	0.9499	1.0832	1.0651	1.1090	1.1916	1.1923	1.2321	1.3489	1.1215	12.131
T ADONA	Avg RF	1.3728	1.3005	1.7891	1.5611	1.4409	1.7696	1.8460	1.8342	1.6749	1.6210	12.898
I 13C5-PFHxA_ISTD					---------- ISTD ----------							
T NFDHA	Avg RF	0.1306	0.1158	0.1447	0.1214	0.1344	0.1433	0.1423	0.1424	0.1422	0.1352	7.817
T PFHxA	Avg RF	0.9977	1.0219	1.1745	1.0730	1.1584	1.2228	1.2373	1.2873	1.3241	1.1663	9.866
T PFEESA	Avg RF	1.6941	1.8150	2.1606	1.9110	2.0276	2.0532	2.0978	2.1421	2.0846	1.9984	7.952
T 5:3FTCA	Avg RF	0.0727	0.0869	0.0959	0.0846	0.0942	0.0970	0.0976	0.1051	0.1058	0.0933	11.201
I 13C5-PFPeA_ISTD					---------- ISTD ----------							
T 3:3FTCA	Avg RF	0.0248	0.0237	0.0276	0.0243	0.0264	0.0291	0.0304	0.0335	0.0351	0.0283	14.306
T PFPeA	Avg RF	0.9553	0.9495	1.1074	1.0330	1.1155	1.1853	1.2088	1.2763	1.3001	1.1257	11.442
T PFMBA	Avg RF	0.6755	0.7294	0.8133	0.7502	0.8202	0.8861	0.8890	0.9334	0.9769	0.8304	12.014
I 13C6-PFDA_ISTD					---------- ISTD ----------							
T PFDA	Avg RF	0.7201	0.8441	1.0470	0.9347	1.0188	1.1119	1.1510	1.1699	1.2083	1.0228	15.929
I 13C8-PFOSA_ISTD					---------- ISTD ----------							
T PFOSA	Avg RF	0.9229	0.9706	1.1219	0.9860	1.0398	1.1656	1.1859	1.2636	1.2406	1.0997	11.297
I 13C8-PFOA_ISTD					---------- ISTD ----------							
T PFOA	Avg RF	1.0454	1.0247	1.2037	1.0319	1.1520	1.2389	1.2233	1.3506	1.3578	1.1809	10.860
I 13C8-PFOS_ISTD					---------- ISTD ----------							
T TDCA	Avg RF		0.3823			0.4203				0.3928	0.3985	4.925
T PFHpS	Avg RF	1.1985	1.1221	1.4255	1.2654	1.4489	1.4241	1.5270	1.5418	1.5335	1.3874	11.172
T PFOS	Avg RF	1.5780	1.3636	1.4281	1.3022	1.4130	1.4603	1.5487	1.6058	1.6017	1.4779	7.476
T 9Cl-PF3ONS	Avg RF	4.6430	5.3913	6.0349	5.5025	5.9247	5.9243	5.9857	5.9150	5.5543	5.6528	7.896
T PFNS	Avg RF	1.2267	1.1392	1.2506	1.1887	1.2647	1.3252	1.4051	1.4120	1.4195	1.2924	7.989
T PFDS	Avg RF	0.8844	0.9203	1.0235	0.9804	1.0745	1.0957	1.1611	1.1748	1.1469	1.0513	10.077
T 11Cl-PF3OUdS	Avg RF	3.2353	3.5884	4.2227	3.8108	4.2949	4.1718	4.2267	4.1505	3.9189	3.9578	9.025
T PFDoS	Avg RF	0.5447	0.6474	0.6874	0.6570	0.7354	0.7431	0.7818	0.7876	0.7763	0.7067	11.384
I 13C9-PFNA_ISTD					---------- ISTD ----------							
T 7:3FTCA	Avg RF	0.0558	0.0550	0.0666	0.0596	0.0635	0.0715	0.0735	0.0774	0.0789	0.0669	13.476
T PFNA	Avg RF	0.7937	0.7953	0.8283	0.7876	0.8586	0.9289	0.9330	0.9481	0.9990	0.8747	9.041
I 13C2-PFDoA_ISTD					---------- ISTD ----------							

Compound	Curve Fit	1	2	3	4	5	6	7	8	9	Avg RF	%RSD
T PFDoA	Avg RF	0.9399	0.9385	1.1424	1.0664	1.1481	1.2166	1.2185	1.2062	1.2562	1.1259	10.613
T PFTrDA	Avg RF	1.1255	1.1322	1.3426	1.2428	1.2970	1.4158	1.3826	1.4145	1.4795	1.3147	9.594
I D3-NMeFOSA_ISTD					---------- ISTD ----------							
T NMeFOSA	Avg RF	1.0155	1.1125	1.1695	1.0883	1.1600	1.2678	1.2752	1.3336	1.2873	1.1900	8.988
I D5-NEtFOSA_ISTD					---------- ISTD ----------							
T NEtFOSA	Avg RF	0.9375	1.1096	1.1987	1.1215	1.2274	1.2682	1.3212	1.3779	1.4454	1.2230	12.615
I D7-NMeFOSE_ISTD					---------- ISTD ----------							
T NMeFOSE	Avg RF	1.0322	1.0668	1.2444	1.1622	1.2124	1.2966	1.3326	1.3536	1.3750	1.2306	10.040
I D9-NEtFOSE_ISTD					---------- ISTD ----------							
T NEtFOSE	Avg RF	1.1158	1.1635	1.3884	1.2505	1.3841	1.4194	1.4809	1.4891	1.4989	1.3545	10.618
I 13C7-PFUnA_ISTD					---------- ISTD ----------							
T PFUnA	Avg RF	0.8796	0.8181	1.0465	0.9439	1.0633	1.0915	1.1369	1.1950	1.2201	1.0439	13.257
I 13C2-PFDA_ISTD					---------- ISTD ----------							
S 13C6-PFDA	Avg RF	1.1751	1.1594	1.3000	1.2674	1.1435	1.1849	1.1150	1.1539	1.0939	1.1770	5.706
S 13C7-PFUnA	Avg RF	1.2555	1.2918	1.4451	1.4069	1.2563	1.3451	1.2760	1.2853	1.2688	1.3145	5.268
S 13C2-PFDoA	Avg RF	1.4947	1.5032	1.6814	1.5992	1.5264	1.5506	1.5263	1.6090	1.5649	1.5617	3.823
S 13C2-PFTeDA	Avg RF	1.6941	1.5960	1.8630	1.8007	1.7214	1.7874	1.7097	1.8206	1.8009	1.7549	4.654
I 13C2-PFHxA_ISTD					---------- ISTD ----------							
S 13C5-PFPeA	Avg RF	0.8968	0.8890	0.9648	0.9463	0.8716	0.8952	0.8635	0.8295	0.8119	0.8854	5.569
S 13C5-PFHxA	Avg RF	1.0933	1.0620	1.1853	1.1800	1.0585	1.1495	1.0978	1.0793	1.0825	1.1098	4.415
S 13C3-HFPODA	Avg RF	0.2722	0.2701	0.2951	0.2847	0.2639	0.2655	0.2684	0.2446	0.2395	0.2671	6.495
S 13C4-PFHpA	Avg RF	1.7437	1.7488	1.8679	1.8706	1.7472	1.8133	1.7673	1.7660	1.6533	1.7754	3.811
I 13C4-PFOS_ISTD					---------- ISTD ----------							
S D3-NMeFOSAA	Avg RF	1.5006	1.4434	1.5721	1.5135	1.5448	1.5611	1.5839	1.5995	1.6757	1.5550	4.252
S D5-NEtFOSAA	Avg RF	1.1534	1.1077	1.1912	1.1618	1.1879	1.2114	1.1762	1.2023	1.2365	1.1809	3.160
S 13C8-PFOS	Avg RF	1.0066	0.9501	1.0691	0.9943	0.9211	0.9949	0.9120	0.9475	1.0040	0.9777	5.067
S 13C8-PFOSA	Avg RF	1.3470	1.3647	1.4769	1.4004	1.3693	1.3938	1.3508	1.4222	1.5281	1.4059	4.352
S D7-NMeFOSE	Avg RF	0.4150	0.4074	0.4426	0.4150	0.4114	0.4304	0.4160	0.4569	0.4755	0.4300	5.490
S D3-NMeFOSA	Avg RF	0.4283	0.4160	0.4599	0.4260	0.4288	0.4371	0.4367	0.4770	0.5216	0.4479	7.454
S D9-NEtFOSE	Avg RF	0.4554	0.4623	0.4989	0.4708	0.4439	0.4839	0.4525	0.5070	0.5229	0.4775	5.706
S D5-NEtFOSA	Avg RF	0.5349	0.5129	0.5688	0.5142	0.5010	0.5375	0.5244	0.5684	0.5842	0.5385	5.399
I 13C4-PFOA_ISTD					---------- ISTD ----------							
S 13C8-PFOA	Avg RF	4.5850	4.2795	5.2425	4.9484	4.3969	4.5457	4.8542	4.6936	4.6095	4.6839	6.277
I 13C3-PFBA_ISTD					---------- ISTD ----------							
S 13C3-PFPrA	Avg RF	0.5588	0.5421	0.5796	0.5787	0.5361	0.5416	0.5146	0.5045	0.5121	0.5409	5.115
S 13C4-PFBA	Avg RF	1.2015	1.1712	1.2926	1.2707	1.1736	1.1996	1.2039	1.2177	1.2216	1.2169	3.352
I 13C5-PFNA_ISTD					---------- ISTD ----------							

Compound	Curve Fit	1	2	3	4	5	6	7	8	9	Avg RF	%RSD
S 13C9-PFNA	Avg RF	1.0921	1.0694	1.2180	1.1293	1.1144	1.0417	1.0661	1.1164	1.0923	1.1044	4.604
I 18O2-PFHxS_ISTD					---------- ISTD ----------							
S 13C2-4:2FTS	Avg RF	0.4709	0.4770	0.5279	0.4900	0.4598	0.4031	0.3485	0.3381	0.3588	0.4305	16.181
S 13C3-PFBS	Avg RF	1.7069	1.6907	1.7706	1.7461	1.6952	1.7648	1.5991	1.6512	1.7369	1.7068	3.273
S 13C2-6:2FTS	Avg RF	0.3398	0.3528	0.4138	0.3817	0.3202	0.3151	0.2628	0.2645	0.2684	0.3243	16.514
S 13C3-PFHxS	Avg RF	1.1979	1.1282	1.2276	1.2174	1.1221	1.1590	1.0426	1.1278	1.1793	1.1557	5.006
S 13C2-8:2FTS	Avg RF	0.3302	0.3521	0.3990	0.3507	0.3404	0.3288	0.2573	0.2881	0.2835	0.3256	13.214
I 13C3-PFPrA_ISTD					---------- ISTD ----------							
T PFPrA	Avg RF	0.6873	0.7069	0.8839	0.7835	0.8599	0.9230	0.9887	1.0391	1.0359	0.8787	15.060

(RedFont and #) = Outlier Flag; (I) = Internal Standard; (T) = Target; (S) = Surrogate; (M) = Matrix Spike

Compounds with Curve fitting not using Avg Response Factor:

Compound	Curve Fit	Curve Fit Formula	Curve Fit R2
T TFSI	Quadratic	y = 0.215830 * x ^ 2 + 7.702807 * x - 0.027558	0.999562

(RedFont and #) = Outlier Flag; (I) = Internal Standard; (T) = Target; (S) = Surrogate; (M) = Matrix Spike

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:17 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

Data File	Sample Name	Sample Type	Position	Inj Vol	Level	Acq. Method
052325A-0002.d	PBLK	Blank	P2-B2	3		051625A 1633F 2.m
052325A-0003.d	CAL1	Cal	P2-A1	3	1	051625A 1633F 2.m
052325A-0004.d	CAL2	Cal	P2-A2	3	2	051625A 1633F 2.m
052325A-0005.d	CAL3	Cal	P2-A3	3	3	051625A 1633F 2.m
052325A-0006.d	CAL4	Cal	P2-A4	3	4	051625A 1633F 2.m
052325A-0007.d	CAL5	Cal	P2-A5	3	5	051625A 1633F 2.m
052325A-0008.d	CAL6	Cal	P2-A6	3	6	051625A 1633F 2.m
052325A-0009.d	CAL7	Cal	P2-A7	3	7	051625A 1633F 2.m
052325A-0010.d	CAL8	Cal	P2-A8	3	8	051625A 1633F 2.m
052325A-0011.d	CAL9	Cal	P2-A9	3	9	051625A 1633F 2.m
052325A-0012.d	PBLK	Blank	P2-B2	3		051625A 1633F 2.m
052325A-0013.d	ICV	QC	P2-B1	3	10	051625A 1633F 2.m

Quantitation Results

13C3-PFPrA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C3-PFPrA	13C3-PFBA_ISTD	Blank	0.916	132446	110157	1.2023	11.1142		
052325A-0003.d	13C3-PFPrA	13C3-PFBA_ISTD	Calibration	0.907	95757	85674	1.1177	10.3318	10.0000	103.3
052325A-0004.d	13C3-PFPrA	13C3-PFBA_ISTD	Calibration	0.907	94790	87435	1.0841	10.0214	10.0000	100.2
052325A-0005.d	13C3-PFPrA	13C3-PFBA_ISTD	Calibration	0.907	84221	72648	1.1593	10.7163	10.0000	107.2
052325A-0006.d	13C3-PFPrA	13C3-PFBA_ISTD	Calibration	0.907	86061	74359	1.1574	10.6985	10.0000	107.0
052325A-0007.d	13C3-PFPrA	13C3-PFBA_ISTD	Calibration	0.907	89006	83011	1.0722	9.9114	10.0000	99.1
052325A-0008.d	13C3-PFPrA	13C3-PFBA_ISTD	Calibration	0.907	82829	76472	1.0831	10.0123	10.0000	100.1
052325A-0009.d	13C3-PFPrA	13C3-PFBA_ISTD	Calibration	0.907	74894	72762	1.0293	9.5146	10.0000	95.1
052325A-0010.d	13C3-PFPrA	13C3-PFBA_ISTD	Calibration	0.907	67557	66958	1.0089	9.3265	10.0000	93.3
052325A-0011.d	13C3-PFPrA	13C3-PFBA_ISTD	Calibration	0.907	65616	64069	1.0241	9.4671	10.0000	94.7
052325A-0012.d	13C3-PFPrA	13C3-PFBA_ISTD	Blank	0.916	119295	99871	1.1945	11.0417		
052325A-0013.d	13C3-PFPrA	13C3-PFBA_ISTD	QC	0.907	85819	82659	1.0382	9.5973	10.0000	96.0

PFPrA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFPrA	13C3-PFPrA_ISTD	Blank			132446		ND		
052325A-0003.d	PFPrA	13C3-PFPrA_ISTD	Calibration	0.912	2632	95757	0.0275	0.3129	0.4000	78.2
052325A-0004.d	PFPrA	13C3-PFPrA_ISTD	Calibration	0.912	5361	94790	0.0566	0.6436	0.8000	80.5
052325A-0005.d	PFPrA	13C3-PFPrA_ISTD	Calibration	0.912	14888	84221	0.1768	2.0118	2.0000	100.6
052325A-0006.d	PFPrA	13C3-PFPrA_ISTD	Calibration	0.912	67432	86061	0.7835	8.9170	10.0000	89.2
052325A-0007.d	PFPrA	13C3-PFPrA_ISTD	Calibration	0.912	153075	89006	1.7198	19.5727	20.0000	97.9

PFPrA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0008.d	PFPrA	13C3-PFPrA_ISTD	Calibration	0.912	382242	82829	4.6148	52.5192	50.0000	105.0
052325A-0009.d	PFPrA	13C3-PFPrA_ISTD	Calibration	0.912	740450	74894	9.8866	112.5154	100.0000	112.5
052325A-0010.d	PFPrA	13C3-PFPrA_ISTD	Calibration	0.912	1403984	67557	20.7822	236.5132	200.0000	118.3
052325A-0011.d	PFPrA	13C3-PFPrA_ISTD	Calibration	0.912	1699349	65616	25.8984	294.7375	250.0000	117.9
052325A-0012.d	PFPrA	13C3-PFPrA_ISTD	Blank			119295		ND		
052325A-0013.d	PFPrA	13C3-PFPrA_ISTD	QC	0.912	93863	85819	1.0937	12.4472	13.2000	94.3

13C3-PFBA

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C3-PFBA	Blank	2.600	110157	7.2537		
052325A-0003.d	13C3-PFBA	Calibration	2.592	85674	5.6415	5.0000	112.8
052325A-0004.d	13C3-PFBA	Calibration	2.592	87435	5.7574	5.0000	115.1
052325A-0005.d	13C3-PFBA	Calibration	2.592	72648	4.7838	5.0000	95.7
052325A-0006.d	13C3-PFBA	Calibration	2.600	74359	4.8964	5.0000	97.9
052325A-0007.d	13C3-PFBA	Calibration	2.592	83011	5.4661	5.0000	109.3
052325A-0008.d	13C3-PFBA	Calibration	2.592	76472	5.0355	5.0000	100.7
052325A-0009.d	13C3-PFBA	Calibration	2.600	72762	4.7913	5.0000	95.8
052325A-0010.d	13C3-PFBA	Calibration	2.600	66958	4.4091	5.0000	88.2
052325A-0011.d	13C3-PFBA	Calibration	2.592	64069	4.2188	5.0000	84.4
052325A-0012.d	13C3-PFBA	Blank	2.600	99871	6.5763		
052325A-0013.d	13C3-PFBA	QC	2.592	82659	5.4430	5.0000	108.9

PFBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFBA	13C4-PFBA_ISTD	Blank			299024		ND		
052325A-0003.d	PFBA	13C4-PFBA_ISTD	Calibration	2.594	6884	205869	0.0334	0.3355	0.4000	83.9
052325A-0004.d	PFBA	13C4-PFBA_ISTD	Calibration	2.594	13637	204808	0.0666	0.6682	0.8000	83.5
052325A-0005.d	PFBA	13C4-PFBA_ISTD	Calibration	2.594	37005	187806	0.1970	1.9772	2.0000	98.9
052325A-0006.d	PFBA	13C4-PFBA_ISTD	Calibration	2.594	170811	188980	0.9039	9.0701	10.0000	90.7
052325A-0007.d	PFBA	13C4-PFBA_ISTD	Calibration	2.594	388213	194843	1.9924	19.9939	20.0000	100.0
052325A-0008.d	PFBA	13C4-PFBA_ISTD	Calibration	2.594	972549	183475	5.3007	53.1922	50.0000	106.4
052325A-0009.d	PFBA	13C4-PFBA_ISTD	Calibration	2.594	1874619	175201	10.6998	107.3715	100.0000	107.4
052325A-0010.d	PFBA	13C4-PFBA_ISTD	Calibration	2.603	3719694	163071	22.8102	228.8983	200.0000	114.4
052325A-0011.d	PFBA	13C4-PFBA_ISTD	Calibration	2.594	4479111	156535	28.6142	287.1403	250.0000	114.9
052325A-0012.d	PFBA	13C4-PFBA_ISTD	Blank			271681		ND		
052325A-0013.d	PFBA	13C4-PFBA_ISTD	QC	2.594	159699	185613	0.8604	8.6339	9.6000	89.9

13C4-PFBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C4-PFBA	13C3-PFBA_ISTD	Blank	2.597	299024	110157	2.7145	11.1531		
052325A-0003.d	13C4-PFBA	13C3-PFBA_ISTD	Calibration	2.597	205869	85674	2.4029	9.8729	10.0000	98.7
052325A-0004.d	13C4-PFBA	13C3-PFBA_ISTD	Calibration	2.597	204808	87435	2.3424	9.6242	10.0000	96.2

13C4-PFBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0005.d	13C4-PFBA	13C3-PFBA_ISTD	Calibration	2.597	187806	72648	2.5851	10.6215	10.0000	106.2
052325A-0006.d	13C4-PFBA	13C3-PFBA_ISTD	Calibration	2.597	188980	74359	2.5414	10.4419	10.0000	104.4
052325A-0007.d	13C4-PFBA	13C3-PFBA_ISTD	Calibration	2.597	194843	83011	2.3472	9.6439	10.0000	96.4
052325A-0008.d	13C4-PFBA	13C3-PFBA_ISTD	Calibration	2.597	183475	76472	2.3992	9.8577	10.0000	98.6
052325A-0009.d	13C4-PFBA	13C3-PFBA_ISTD	Calibration	2.597	175201	72762	2.4079	9.8931	10.0000	98.9
052325A-0010.d	13C4-PFBA	13C3-PFBA_ISTD	Calibration	2.597	163071	66958	2.4354	10.0064	10.0000	100.1
052325A-0011.d	13C4-PFBA	13C3-PFBA_ISTD	Calibration	2.597	156535	64069	2.4432	10.0384	10.0000	100.4
052325A-0012.d	13C4-PFBA	13C3-PFBA_ISTD	Blank	2.597	271681	99871	2.7203	11.1769		
052325A-0013.d	13C4-PFBA	13C3-PFBA_ISTD	QC	2.597	185613	82659	2.2455	9.2261	10.0000	92.3

PFMPA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFMPA	13C4-PFBA_ISTD	Blank			299024		ND		
052325A-0003.d	PFMPA	13C4-PFBA_ISTD	Calibration	3.368	576	205869	0.0028	0.1617	0.2000	80.8
052325A-0004.d	PFMPA	13C4-PFBA_ISTD	Calibration	3.377	1219	204808	0.0060	0.3442	0.4000	86.0
052325A-0005.d	PFMPA	13C4-PFBA_ISTD	Calibration	3.377	3365	187806	0.0179	1.0357	1.0000	103.6
052325A-0006.d	PFMPA	13C4-PFBA_ISTD	Calibration	3.377	14399	188980	0.0762	4.4046	5.0000	88.1
052325A-0007.d	PFMPA	13C4-PFBA_ISTD	Calibration	3.368	32084	194843	0.1647	9.5191	10.0000	95.2
052325A-0008.d	PFMPA	13C4-PFBA_ISTD	Calibration	3.377	82117	183475	0.4476	25.8730	25.0000	103.5
052325A-0009.d	PFMPA	13C4-PFBA_ISTD	Calibration	3.377	162779	175201	0.9291	53.7098	50.0000	107.4
052325A-0010.d	PFMPA	13C4-PFBA_ISTD	Calibration	3.377	327803	163071	2.0102	116.2060	100.0000	116.2
052325A-0011.d	PFMPA	13C4-PFBA_ISTD	Calibration	3.377	403297	156535	2.5764	148.9386	125.0000	119.2
052325A-0012.d	PFMPA	13C4-PFBA_ISTD	Blank			271681		ND		
052325A-0013.d	PFMPA	13C4-PFBA_ISTD	QC	3.368	45093	185613	0.2429	14.0440	15.0000	93.6

3:3FTCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	3:3FTCA	13C5-PFPeA_ISTD	Blank			212503		ND		
052325A-0003.d	3:3FTCA	13C5-PFPeA_ISTD	Calibration	3.679	367	148066	0.0025	0.4377	0.5000	87.5
052325A-0004.d	3:3FTCA	13C5-PFPeA_ISTD	Calibration	3.679	712	150316	0.0047	0.8370	1.0000	83.7
052325A-0005.d	3:3FTCA	13C5-PFPeA_ISTD	Calibration	3.679	1920	138920	0.0138	2.4407	2.5000	97.6
052325A-0006.d	3:3FTCA	13C5-PFPeA_ISTD	Calibration	3.679	8419	138412	0.0608	10.7417	12.5000	85.9
052325A-0007.d	3:3FTCA	13C5-PFPeA_ISTD	Calibration	3.679	19082	144769	0.1318	23.2773	25.0000	93.1
052325A-0008.d	3:3FTCA	13C5-PFPeA_ISTD	Calibration	3.679	48905	134582	0.3634	64.1714	62.5000	102.7
052325A-0009.d	3:3FTCA	13C5-PFPeA_ISTD	Calibration	3.679	99193	130729	0.7588	133.9944	125.0000	107.2
052325A-0010.d	3:3FTCA	13C5-PFPeA_ISTD	Calibration	3.679	207672	123885	1.6763	296.0311	250.0000	118.4
052325A-0011.d	3:3FTCA	13C5-PFPeA_ISTD	Calibration	3.679	258621	118038	2.1910	386.9185	312.5000	123.8
052325A-0012.d	3:3FTCA	13C5-PFPeA_ISTD	Blank			201173		ND		
052325A-0013.d	3:3FTCA	13C5-PFPeA_ISTD	QC	3.679	12754	137575	0.0927	16.3718	19.6000	83.5

13C5-PFPeA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C5-PFPeA	13C2-PFHxA_ISTD	Blank	4.229	212503	102157	2.0802	5.8735		
052325A-0003.d	13C5-PFPeA	13C2-PFHxA_ISTD	Calibration	4.229	148066	82555	1.7936	5.0643	5.0000	101.3
052325A-0004.d	13C5-PFPeA	13C2-PFHxA_ISTD	Calibration	4.237	150316	84540	1.7780	5.0205	5.0000	100.4
052325A-0005.d	13C5-PFPeA	13C2-PFHxA_ISTD	Calibration	4.237	138920	71995	1.9296	5.4483	5.0000	109.0
052325A-0006.d	13C5-PFPeA	13C2-PFHxA_ISTD	Calibration	4.237	138412	73132	1.8926	5.3441	5.0000	106.9
052325A-0007.d	13C5-PFPeA	13C2-PFHxA_ISTD	Calibration	4.237	144769	83052	1.7431	4.9218	5.0000	98.4
052325A-0008.d	13C5-PFPeA	13C2-PFHxA_ISTD	Calibration	4.229	134582	75168	1.7904	5.0554	5.0000	101.1
052325A-0009.d	13C5-PFPeA	13C2-PFHxA_ISTD	Calibration	4.237	130729	75697	1.7270	4.8764	5.0000	97.5
052325A-0010.d	13C5-PFPeA	13C2-PFHxA_ISTD	Calibration	4.237	123885	74672	1.6591	4.6845	5.0000	93.7
052325A-0011.d	13C5-PFPeA	13C2-PFHxA_ISTD	Calibration	4.229	118038	72695	1.6237	4.5848	5.0000	91.7
052325A-0012.d	13C5-PFPeA	13C2-PFHxA_ISTD	Blank	4.237	201173	98988	2.0323	5.7384		
052325A-0013.d	13C5-PFPeA	13C2-PFHxA_ISTD	QC	4.229	137575	82223	1.6732	4.7244	5.0000	94.5

PFPeA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFPeA	13C5-PFPeA_ISTD	Blank	4.231	0	212503	0.0000	ND		
052325A-0003.d	PFPeA	13C5-PFPeA_ISTD	Calibration	4.231	5658	148066	0.0382	0.1697	0.2000	84.9
052325A-0004.d	PFPeA	13C5-PFPeA_ISTD	Calibration	4.239	11418	150316	0.0760	0.3374	0.4000	84.3
052325A-0005.d	PFPeA	13C5-PFPeA_ISTD	Calibration	4.239	30767	138920	0.2215	0.9837	1.0000	98.4
052325A-0006.d	PFPeA	13C5-PFPeA_ISTD	Calibration	4.239	142977	138412	1.0330	4.5883	5.0000	91.8
052325A-0007.d	PFPeA	13C5-PFPeA_ISTD	Calibration	4.239	322966	144769	2.2309	9.9092	10.0000	99.1
052325A-0008.d	PFPeA	13C5-PFPeA_ISTD	Calibration	4.231	797602	134582	5.9265	26.3243	25.0000	105.3
052325A-0009.d	PFPeA	13C5-PFPeA_ISTD	Calibration	4.239	1580292	130729	12.0883	53.6935	50.0000	107.4
052325A-0010.d	PFPeA	13C5-PFPeA_ISTD	Calibration	4.239	3162346	123885	25.5265	113.3828	100.0000	113.4
052325A-0011.d	PFPeA	13C5-PFPeA_ISTD	Calibration	4.231	3836488	118038	32.5021	144.3672	125.0000	115.5
052325A-0012.d	PFPeA	13C5-PFPeA_ISTD	Blank			201173		ND		
052325A-0013.d	PFPeA	13C5-PFPeA_ISTD	QC	4.231	526226	137575	3.8250	16.9898	18.7500	90.6

PFMBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFMBA	13C5-PFPeA_ISTD	Blank			212503		ND		
052325A-0003.d	PFMBA	13C5-PFPeA_ISTD	Calibration	4.547	4001	148066	0.0270	0.1627	0.2000	81.3
052325A-0004.d	PFMBA	13C5-PFPeA_ISTD	Calibration	4.547	8771	150316	0.0584	0.3513	0.4000	87.8
052325A-0005.d	PFMBA	13C5-PFPeA_ISTD	Calibration	4.556	22596	138920	0.1627	0.9793	1.0000	97.9
052325A-0006.d	PFMBA	13C5-PFPeA_ISTD	Calibration	4.547	103841	138412	0.7502	4.5171	5.0000	90.3
052325A-0007.d	PFMBA	13C5-PFPeA_ISTD	Calibration	4.547	237486	144769	1.6405	9.8770	10.0000	98.8
052325A-0008.d	PFMBA	13C5-PFPeA_ISTD	Calibration	4.547	596264	134582	4.4305	26.6756	25.0000	106.7
052325A-0009.d	PFMBA	13C5-PFPeA_ISTD	Calibration	4.547	1162219	130729	8.8903	53.5275	50.0000	107.1
052325A-0010.d	PFMBA	13C5-PFPeA_ISTD	Calibration	4.547	2312629	123885	18.6675	112.3952	100.0000	112.4
052325A-0011.d	PFMBA	13C5-PFPeA_ISTD	Calibration	4.547	2882721	118038	24.4220	147.0420	125.0000	117.6
052325A-0012.d	PFMBA	13C5-PFPeA_ISTD	Blank			201173		ND		

PFMBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0013.d	PFMBA	13C5-PFPeA_ISTD	QC	4.547	350302	137575	2.5463	15.3308	16.2500	94.3

13C2-4:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Blank	4.938	42091	36403	1.1563	6.7151		
052325A-0003.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Calibration	4.938	28365	30120	0.9417	5.4690	5.0000	109.4
052325A-0004.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Calibration	4.946	30409	31872	0.9541	5.5409	5.0000	110.8
052325A-0005.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Calibration	4.946	29160	27619	1.0558	6.1314	5.0000	122.6
052325A-0006.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Calibration	4.946	27592	28155	0.9800	5.6915	5.0000	113.8
052325A-0007.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Calibration	4.946	27987	30432	0.9197	5.3409	5.0000	106.8
052325A-0008.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Calibration	4.946	22386	27764	0.8063	4.6826	5.0000	93.7
052325A-0009.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Calibration	4.946	20286	29101	0.6971	4.0484	5.0000	81.0
052325A-0010.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Calibration	4.946	17639	26084	0.6763	3.9274	5.0000	78.5
052325A-0011.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Calibration	4.946	17537	24435	0.7177	4.1679	5.0000	83.4
052325A-0012.d	13C2-4:2FTS	18O2-PFHxS_ISTD	Blank	4.946	48144	38665	1.2451	7.2312		
052325A-0013.d	13C2-4:2FTS	18O2-PFHxS_ISTD	QC	4.938	31255	29432	1.0619	6.1672	5.0000	123.3

4:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	4:2FTS	13C2-4:2FTS_ISTD	Blank			42091		ND		
052325A-0003.d	4:2FTS	13C2-4:2FTS_ISTD	Calibration	4.938	5748	28365	0.2027	0.3079	0.3750	82.1
052325A-0004.d	4:2FTS	13C2-4:2FTS_ISTD	Calibration	4.947	12983	30409	0.4269	0.6487	0.7500	86.5
052325A-0005.d	4:2FTS	13C2-4:2FTS_ISTD	Calibration	4.947	36116	29160	1.2386	1.8818	1.8700	100.6
052325A-0006.d	4:2FTS	13C2-4:2FTS_ISTD	Calibration	4.947	161785	27592	5.8634	8.9085	9.3700	95.1
052325A-0007.d	4:2FTS	13C2-4:2FTS_ISTD	Calibration	4.947	337735	27987	12.0675	18.3345	18.7000	98.0
052325A-0008.d	4:2FTS	13C2-4:2FTS_ISTD	Calibration	4.947	754013	22386	33.6820	51.1738	46.9000	109.1
052325A-0009.d	4:2FTS	13C2-4:2FTS_ISTD	Calibration	4.947	1297024	20286	63.9358	97.1393	93.7000	103.7
052325A-0010.d	4:2FTS	13C2-4:2FTS_ISTD	Calibration	4.947	2315091	17639	131.2449	199.4036	187.0000	106.6
052325A-0011.d	4:2FTS	13C2-4:2FTS_ISTD	Calibration	4.947	2710289	17537	154.5512	234.8133	234.0000	100.3
052325A-0012.d	4:2FTS	13C2-4:2FTS_ISTD	Blank			48144		ND		
052325A-0013.d	4:2FTS	13C2-4:2FTS_ISTD	QC	4.938	124850	31255	3.9946	6.0690	6.5500	92.7

NFDHA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	NFDHA	13C5-PFHxA_ISTD	Blank			129630		ND		
052325A-0003.d	NFDHA	13C5-PFHxA_ISTD	Calibration	5.058	943	90260	0.0105	0.1932	0.2000	96.6
052325A-0004.d	NFDHA	13C5-PFHxA_ISTD	Calibration	5.066	1663	89785	0.0185	0.3425	0.4000	85.6
052325A-0005.d	NFDHA	13C5-PFHxA_ISTD	Calibration	5.066	4939	85339	0.0579	1.0700	1.0000	107.0
052325A-0006.d	NFDHA	13C5-PFHxA_ISTD	Calibration	5.066	20957	86292	0.2429	4.4895	5.0000	89.8
052325A-0007.d	NFDHA	13C5-PFHxA_ISTD	Calibration	5.058	47266	87914	0.5376	9.9388	10.0000	99.4
052325A-0008.d	NFDHA	13C5-PFHxA_ISTD	Calibration	5.066	123830	86403	1.4332	26.4935	25.0000	106.0
052325A-0009.d	NFDHA	13C5-PFHxA_ISTD	Calibration	5.066	236439	83097	2.8454	52.5988	50.0000	105.2

NFDHA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0010.d	NFDHA	13C5-PFHxA_ISTD	Calibration	5.066	458951	80590	5.6949	105.2756	100.0000	105.3
052325A-0011.d	NFDHA	13C5-PFHxA_ISTD	Calibration	5.066	559560	78696	7.1104	131.4425	125.0000	105.2
052325A-0012.d	NFDHA	13C5-PFHxA_ISTD	Blank			123388		ND		
052325A-0013.d	NFDHA	13C5-PFHxA_ISTD	QC	5.058	59125	89032	0.6641	12.2762	14.6000	84.1

13C5-PFHxA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C5-PFHxA	13C2-PFHxA_ISTD	Blank	5.153	129630	102157	1.2689	2.8584		
052325A-0003.d	13C5-PFHxA	13C2-PFHxA_ISTD	Calibration	5.153	90260	82555	1.0933	2.4629	2.5000	98.5
052325A-0004.d	13C5-PFHxA	13C2-PFHxA_ISTD	Calibration	5.161	89785	84540	1.0620	2.3924	2.5000	95.7
052325A-0005.d	13C5-PFHxA	13C2-PFHxA_ISTD	Calibration	5.161	85339	71995	1.1853	2.6702	2.5000	106.8
052325A-0006.d	13C5-PFHxA	13C2-PFHxA_ISTD	Calibration	5.161	86292	73132	1.1800	2.6580	2.5000	106.3
052325A-0007.d	13C5-PFHxA	13C2-PFHxA_ISTD	Calibration	5.161	87914	83052	1.0585	2.3845	2.5000	95.4
052325A-0008.d	13C5-PFHxA	13C2-PFHxA_ISTD	Calibration	5.161	86403	75168	1.1495	2.5893	2.5000	103.6
052325A-0009.d	13C5-PFHxA	13C2-PFHxA_ISTD	Calibration	5.161	83097	75697	1.0978	2.4729	2.5000	98.9
052325A-0010.d	13C5-PFHxA	13C2-PFHxA_ISTD	Calibration	5.161	80590	74672	1.0793	2.4312	2.5000	97.2
052325A-0011.d	13C5-PFHxA	13C2-PFHxA_ISTD	Calibration	5.161	78696	72695	1.0825	2.4386	2.5000	97.5
052325A-0012.d	13C5-PFHxA	13C2-PFHxA_ISTD	Blank	5.161	123388	98988	1.2465	2.8079		
052325A-0013.d	13C5-PFHxA	13C2-PFHxA_ISTD	QC	5.153	89032	82223	1.0828	2.4392	2.5000	97.6

13C2-PFHxA

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C2-PFHxA	Blank	5.154	102157	3.3144		
052325A-0003.d	13C2-PFHxA	Calibration	5.154	82555	2.6784	2.5000	107.1
052325A-0004.d	13C2-PFHxA	Calibration	5.162	84540	2.7428	2.5000	109.7
052325A-0005.d	13C2-PFHxA	Calibration	5.162	71995	2.3358	2.5000	93.4
052325A-0006.d	13C2-PFHxA	Calibration	5.162	73132	2.3727	2.5000	94.9
052325A-0007.d	13C2-PFHxA	Calibration	5.162	83052	2.6945	2.5000	107.8
052325A-0008.d	13C2-PFHxA	Calibration	5.162	75168	2.4387	2.5000	97.5
052325A-0009.d	13C2-PFHxA	Calibration	5.162	75697	2.4559	2.5000	98.2
052325A-0010.d	13C2-PFHxA	Calibration	5.162	74672	2.4226	2.5000	96.9
052325A-0011.d	13C2-PFHxA	Calibration	5.162	72695	2.3585	2.5000	94.3
052325A-0012.d	13C2-PFHxA	Blank	5.162	98988	3.2115		
052325A-0013.d	13C2-PFHxA	QC	5.154	82223	2.6676	2.5000	106.7

PFHxA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFHxA	13C5-PFHxA_ISTD	Blank	5.155	0	129630	0.0000	ND		
052325A-0003.d	PFHxA	13C5-PFHxA_ISTD	Calibration	5.155	3602	90260	0.0399	0.0855	0.1000	85.5
052325A-0004.d	PFHxA	13C5-PFHxA_ISTD	Calibration	5.155	7340	89785	0.0817	0.1752	0.2000	87.6
052325A-0005.d	PFHxA	13C5-PFHxA_ISTD	Calibration	5.163	20047	85339	0.2349	0.5035	0.5000	100.7
052325A-0006.d	PFHxA	13C5-PFHxA_ISTD	Calibration	5.163	92593	86292	1.0730	2.3000	2.5000	92.0

PFHxA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0007.d	PFHxA	13C5-PFHxA_ISTD	Calibration	5.163	203675	87914	2.3168	4.9659	5.0000	99.3
052325A-0008.d	PFHxA	13C5-PFHxA_ISTD	Calibration	5.163	528277	86403	6.1141	13.1054	12.5000	104.8
052325A-0009.d	PFHxA	13C5-PFHxA_ISTD	Calibration	5.163	1028168	83097	12.3732	26.5215	25.0000	106.1
052325A-0010.d	PFHxA	13C5-PFHxA_ISTD	Calibration	5.163	2074914	80590	25.7467	55.1871	50.0000	110.4
052325A-0011.d	PFHxA	13C5-PFHxA_ISTD	Calibration	5.163	2605047	78696	33.1028	70.9547	62.5000	113.5
052325A-0012.d	PFHxA	13C5-PFHxA_ISTD	Blank	5.163	0	123388	0.0000	ND		
052325A-0013.d	PFHxA	13C5-PFHxA_ISTD	QC	5.155	203800	89032	2.2891	4.9066	5.6500	86.8

13C3-PFBS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C3-PFBS	18O2-PFHxS_ISTD	Blank	5.196	72991	36403	2.0051	2.9369		
052325A-0003.d	13C3-PFBS	18O2-PFHxS_ISTD	Calibration	5.196	51411	30120	1.7069	2.5000	2.5000	100.0
052325A-0004.d	13C3-PFBS	18O2-PFHxS_ISTD	Calibration	5.205	53885	31872	1.6907	2.4763	2.5000	99.1
052325A-0005.d	13C3-PFBS	18O2-PFHxS_ISTD	Calibration	5.213	48904	27619	1.7706	2.5934	2.5000	103.7
052325A-0006.d	13C3-PFBS	18O2-PFHxS_ISTD	Calibration	5.205	49161	28155	1.7461	2.5575	2.5000	102.3
052325A-0007.d	13C3-PFBS	18O2-PFHxS_ISTD	Calibration	5.205	51590	30432	1.6952	2.4830	2.5000	99.3
052325A-0008.d	13C3-PFBS	18O2-PFHxS_ISTD	Calibration	5.205	48998	27764	1.7648	2.5849	2.5000	103.4
052325A-0009.d	13C3-PFBS	18O2-PFHxS_ISTD	Calibration	5.205	46536	29101	1.5991	2.3422	2.5000	93.7
052325A-0010.d	13C3-PFBS	18O2-PFHxS_ISTD	Calibration	5.205	43070	26084	1.6512	2.4186	2.5000	96.7
052325A-0011.d	13C3-PFBS	18O2-PFHxS_ISTD	Calibration	5.205	42442	24435	1.7369	2.5441	2.5000	101.8
052325A-0012.d	13C3-PFBS	18O2-PFHxS_ISTD	Blank	5.205	70259	38665	1.8171	2.6615		
052325A-0013.d	13C3-PFBS	18O2-PFHxS_ISTD	QC	5.205	47134	29432	1.6014	2.3456	2.5000	93.8

PFBS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFBS	13C3-PFBS_ISTD	Blank			72991		ND		
052325A-0003.d	PFBS	13C3-PFBS_ISTD	Calibration	5.205	2046	51411	0.0398	0.0755	0.0890	84.8
052325A-0004.d	PFBS	13C3-PFBS_ISTD	Calibration	5.205	4236	53885	0.0786	0.1491	0.1780	83.7
052325A-0005.d	PFBS	13C3-PFBS_ISTD	Calibration	5.205	11460	48904	0.2343	0.4443	0.4440	100.1
052325A-0006.d	PFBS	13C3-PFBS_ISTD	Calibration	5.205	53043	49161	1.0790	2.0458	2.2200	92.2
052325A-0007.d	PFBS	13C3-PFBS_ISTD	Calibration	5.205	121632	51590	2.3577	4.4703	4.4400	100.7
052325A-0008.d	PFBS	13C3-PFBS_ISTD	Calibration	5.205	298143	48998	6.0848	11.5371	11.1000	103.9
052325A-0009.d	PFBS	13C3-PFBS_ISTD	Calibration	5.205	586407	46536	12.6012	23.8924	22.2000	107.6
052325A-0010.d	PFBS	13C3-PFBS_ISTD	Calibration	5.205	1144018	43070	26.5617	50.3621	44.4000	113.4
052325A-0011.d	PFBS	13C3-PFBS_ISTD	Calibration	5.205	1410907	42442	33.2432	63.0306	55.5000	113.6
052325A-0012.d	PFBS	13C3-PFBS_ISTD	Blank			70259		ND		
052325A-0013.d	PFBS	13C3-PFBS_ISTD	QC	5.205	164425	47134	3.4885	6.6143	6.9000	95.9

13C3-HFPODA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C3-HFPODA	13C2-PFHxA_ISTD	Blank	5.386	139190	102157	1.3625	12.7524		
052325A-0003.d	13C3-HFPODA	13C2-PFHxA_ISTD	Calibration	5.386	89881	82555	1.0887	10.1900	10.0000	101.9

13C3-HFPODA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0004.d	13C3-HFPODA	13C2-PFHxA_ISTD	Calibration	5.394	91326	84540	1.0803	10.1107	10.0000	101.1
052325A-0005.d	13C3-HFPODA	13C2-PFHxA_ISTD	Calibration	5.402	84971	71995	1.1802	11.0463	10.0000	110.5
052325A-0006.d	13C3-HFPODA	13C2-PFHxA_ISTD	Calibration	5.394	83285	73132	1.1388	10.6589	10.0000	106.6
052325A-0007.d	13C3-HFPODA	13C2-PFHxA_ISTD	Calibration	5.394	87686	83052	1.0558	9.8816	10.0000	98.8
052325A-0008.d	13C3-HFPODA	13C2-PFHxA_ISTD	Calibration	5.394	79836	75168	1.0621	9.9406	10.0000	99.4
052325A-0009.d	13C3-HFPODA	13C2-PFHxA_ISTD	Calibration	5.394	81262	75697	1.0735	10.0475	10.0000	100.5
052325A-0010.d	13C3-HFPODA	13C2-PFHxA_ISTD	Calibration	5.394	73061	74672	0.9784	9.1576	10.0000	91.6
052325A-0011.d	13C3-HFPODA	13C2-PFHxA_ISTD	Calibration	5.394	69644	72695	0.9580	8.9667	10.0000	89.7
052325A-0012.d	13C3-HFPODA	13C2-PFHxA_ISTD	Blank	5.394	122403	98988	1.2365	11.5734		
052325A-0013.d	13C3-HFPODA	13C2-PFHxA_ISTD	QC	5.394	79546	82223	0.9674	9.0547	10.0000	90.5

HFPO-DA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	HFPO-DA	13C3-HFPODA_ISTD	Blank			139190		ND		
052325A-0003.d	HFPO-DA	13C3-HFPODA_ISTD	Calibration	5.395	2948	89881	0.0328	0.3341	0.4000	83.5
052325A-0004.d	HFPO-DA	13C3-HFPODA_ISTD	Calibration	5.395	6680	91326	0.0731	0.7451	0.8000	93.1
052325A-0005.d	HFPO-DA	13C3-HFPODA_ISTD	Calibration	5.403	16695	84971	0.1965	2.0016	2.0000	100.1
052325A-0006.d	HFPO-DA	13C3-HFPODA_ISTD	Calibration	5.403	77034	83285	0.9249	9.4226	10.0000	94.2
052325A-0007.d	HFPO-DA	13C3-HFPODA_ISTD	Calibration	5.395	171491	87686	1.9557	19.9234	20.0000	99.6
052325A-0008.d	HFPO-DA	13C3-HFPODA_ISTD	Calibration	5.395	417531	79836	5.2299	53.2775	50.0000	106.6
052325A-0009.d	HFPO-DA	13C3-HFPODA_ISTD	Calibration	5.395	831528	81262	10.2327	104.2423	100.0000	104.2
052325A-0010.d	HFPO-DA	13C3-HFPODA_ISTD	Calibration	5.395	1582645	73061	21.6619	220.6727	200.0000	110.3
052325A-0011.d	HFPO-DA	13C3-HFPODA_ISTD	Calibration	5.395	1850574	69644	26.5718	270.6904	250.0000	108.3
052325A-0012.d	HFPO-DA	13C3-HFPODA_ISTD	Blank			122403		ND		
052325A-0013.d	HFPO-DA	13C3-HFPODA_ISTD	QC	5.395	143301	79546	1.8015	18.3520	18.3500	100.0

PFEESA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFEESA	13C5-PFHxA_ISTD	Blank			129630		ND		
052325A-0003.d	PFEESA	13C5-PFHxA_ISTD	Calibration	5.562	10887	90260	0.1206	0.1509	0.1780	84.8
052325A-0004.d	PFEESA	13C5-PFHxA_ISTD	Calibration	5.570	23271	89785	0.2592	0.3242	0.3570	90.8
052325A-0005.d	PFEESA	13C5-PFHxA_ISTD	Calibration	5.570	65787	85339	0.7709	0.9644	0.8920	108.1
052325A-0006.d	PFEESA	13C5-PFHxA_ISTD	Calibration	5.570	294183	86292	3.4091	4.2648	4.4600	95.6
052325A-0007.d	PFEESA	13C5-PFHxA_ISTD	Calibration	5.570	636017	87914	7.2345	9.0503	8.9200	101.5
052325A-0008.d	PFEESA	13C5-PFHxA_ISTD	Calibration	5.570	1582446	86403	18.3147	22.9114	22.3000	102.7
052325A-0009.d	PFEESA	13C5-PFHxA_ISTD	Calibration	5.570	3109812	83097	37.4241	46.8168	44.6000	105.0
052325A-0010.d	PFEESA	13C5-PFHxA_ISTD	Calibration	5.570	6159526	80590	76.4308	95.6135	89.2000	107.2
052325A-0011.d	PFEESA	13C5-PFHxA_ISTD	Calibration	5.570	7349426	78696	93.3904	116.8296	112.0000	104.3
052325A-0012.d	PFEESA	13C5-PFHxA_ISTD	Blank			123388		ND		
052325A-0013.d	PFEESA	13C5-PFHxA_ISTD	QC	5.562	359726	89032	4.0404	5.0545	5.8000	87.1

5:3FTCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	5:3FTCA	13C5-PFHxA_ISTD	Blank			129630		ND		
052325A-0003.d	5:3FTCA	13C5-PFHxA_ISTD	Calibration	5.577	6565	90260	0.0727	1.9487	2.5000	77.9
052325A-0004.d	5:3FTCA	13C5-PFHxA_ISTD	Calibration	5.577	15597	89785	0.1737	4.6545	5.0000	93.1
052325A-0005.d	5:3FTCA	13C5-PFHxA_ISTD	Calibration	5.585	40929	85339	0.4796	12.8504	12.5000	102.8
052325A-0006.d	5:3FTCA	13C5-PFHxA_ISTD	Calibration	5.577	182506	86292	2.1150	56.6681	62.5000	90.7
052325A-0007.d	5:3FTCA	13C5-PFHxA_ISTD	Calibration	5.577	414028	87914	4.7095	126.1838	125.0000	100.9
052325A-0008.d	5:3FTCA	13C5-PFHxA_ISTD	Calibration	5.577	1048161	86403	12.1311	325.0365	312.5000	104.0
052325A-0009.d	5:3FTCA	13C5-PFHxA_ISTD	Calibration	5.577	2027404	83097	24.3982	653.7174	625.0000	104.6
052325A-0010.d	5:3FTCA	13C5-PFHxA_ISTD	Calibration	5.577	4233371	80590	52.5300	1407.4742	1250.0000	112.6
052325A-0011.d	5:3FTCA	13C5-PFHxA_ISTD	Calibration	5.577	5193058	78696	65.9891	1768.0916	1560.0000	113.3
052325A-0012.d	5:3FTCA	13C5-PFHxA_ISTD	Blank			123388		ND		
052325A-0013.d	5:3FTCA	13C5-PFHxA_ISTD	QC	5.577	43383	89032	0.4873	13.0561	16.6500	78.4

13C4-PFHpA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C4-PFHpA	13C2-PFHxA_ISTD	Blank	5.831	198376	102157	1.9419	2.7345		
052325A-0003.d	13C4-PFHpA	13C2-PFHxA_ISTD	Calibration	5.831	143954	82555	1.7437	2.4555	2.5000	98.2
052325A-0004.d	13C4-PFHpA	13C2-PFHxA_ISTD	Calibration	5.839	147847	84540	1.7488	2.4627	2.5000	98.5
052325A-0005.d	13C4-PFHpA	13C2-PFHxA_ISTD	Calibration	5.839	134482	71995	1.8679	2.6304	2.5000	105.2
052325A-0006.d	13C4-PFHpA	13C2-PFHxA_ISTD	Calibration	5.839	136803	73132	1.8706	2.6342	2.5000	105.4
052325A-0007.d	13C4-PFHpA	13C2-PFHxA_ISTD	Calibration	5.839	145107	83052	1.7472	2.4603	2.5000	98.4
052325A-0008.d	13C4-PFHpA	13C2-PFHxA_ISTD	Calibration	5.839	136299	75168	1.8133	2.5534	2.5000	102.1
052325A-0009.d	13C4-PFHpA	13C2-PFHxA_ISTD	Calibration	5.839	133779	75697	1.7673	2.4887	2.5000	99.5
052325A-0010.d	13C4-PFHpA	13C2-PFHxA_ISTD	Calibration	5.839	131867	74672	1.7660	2.4868	2.5000	99.5
052325A-0011.d	13C4-PFHpA	13C2-PFHxA_ISTD	Calibration	5.839	120188	72695	1.6533	2.3282	2.5000	93.1
052325A-0012.d	13C4-PFHpA	13C2-PFHxA_ISTD	Blank	5.831	197859	98988	1.9988	2.8147		
052325A-0013.d	13C4-PFHpA	13C2-PFHxA_ISTD	QC	5.831	138003	82223	1.6784	2.3635	2.5000	94.5

PFHpA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFHpA	13C4-PFHpA_ISTD	Blank			198376		ND		
052325A-0003.d	PFHpA	13C4-PFHpA_ISTD	Calibration	5.831	5307	143954	0.0369	0.0822	0.1000	82.2
052325A-0004.d	PFHpA	13C4-PFHpA_ISTD	Calibration	5.839	11236	147847	0.0760	0.1694	0.2000	84.7
052325A-0005.d	PFHpA	13C4-PFHpA_ISTD	Calibration	5.839	29135	134482	0.2166	0.4829	0.5000	96.6
052325A-0006.d	PFHpA	13C4-PFHpA_ISTD	Calibration	5.839	145706	136803	1.0651	2.3742	2.5000	95.0
052325A-0007.d	PFHpA	13C4-PFHpA_ISTD	Calibration	5.839	321855	145107	2.2181	4.9443	5.0000	98.9
052325A-0008.d	PFHpA	13C4-PFHpA_ISTD	Calibration	5.839	812048	136299	5.9578	13.2807	12.5000	106.2
052325A-0009.d	PFHpA	13C4-PFHpA_ISTD	Calibration	5.839	1595022	133779	11.9228	26.5772	25.0000	106.3
052325A-0010.d	PFHpA	13C4-PFHpA_ISTD	Calibration	5.839	3249484	131867	24.6421	54.9299	50.0000	109.9
052325A-0011.d	PFHpA	13C4-PFHpA_ISTD	Calibration	5.839	4053074	120188	33.7227	75.1716	62.5000	120.3
052325A-0012.d	PFHpA	13C4-PFHpA_ISTD	Blank			197859		ND		

PFHpA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0013.d	PFHpA	13C4-PFHpA_ISTD	QC	5.831	320390	138003	2.3216	5.1751	5.8500	88.5

TFSI

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	TFSI	13C3-HFPODA_ISTD	Blank			139190		ND		
052325A-0003.d	TFSI	13C3-HFPODA_ISTD	Calibration	5.891	11897	89881	0.1324	0.2075	0.1987	104.4
052325A-0004.d	TFSI	13C3-HFPODA_ISTD	Calibration	5.900	23680	91326	0.2593	0.3720	0.3974	93.6
052325A-0005.d	TFSI	13C3-HFPODA_ISTD	Calibration	5.900	66180	84971	0.7789	1.0439	0.9935	105.1
052325A-0006.d	TFSI	13C3-HFPODA_ISTD	Calibration	5.900	301198	83285	3.6165	4.6697	4.9675	94.0
052325A-0007.d	TFSI	13C3-HFPODA_ISTD	Calibration	5.900	684409	87686	7.8053	9.8945	9.9350	99.6
052325A-0008.d	TFSI	13C3-HFPODA_ISTD	Calibration	5.900	1734895	79836	21.7308	26.3081	24.8375	105.9
052325A-0009.d	TFSI	13C3-HFPODA_ISTD	Calibration	5.900	3420417	81262	42.0915	48.1768	49.6750	97.0
052325A-0010.d	TFSI	13C3-HFPODA_ISTD	Calibration	5.900	7173674	73061	98.1871	99.6701	99.3500	100.3
052325A-0011.d	TFSI	13C3-HFPODA_ISTD	Calibration	5.900	8980764	69644	128.9519	124.2134	124.1875	100.0
052325A-0012.d	TFSI	13C3-HFPODA_ISTD	Blank	5.900	514	122403	0.0042	0.0412		
052325A-0013.d	TFSI	13C3-HFPODA_ISTD	QC	5.900	945036	79546	11.8804	14.8420	12.3500	120.2

PFPeS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFPeS	13C3-PFHxS_ISTD	Blank			50990		ND		
052325A-0003.d	PFPeS	13C3-PFHxS_ISTD	Calibration	5.971	1835	36080	0.0508	0.0811	0.0940	86.2
052325A-0004.d	PFPeS	13C3-PFHxS_ISTD	Calibration	5.971	3342	35957	0.0929	0.1482	0.1880	78.8
052325A-0005.d	PFPeS	13C3-PFHxS_ISTD	Calibration	5.980	10278	33906	0.3031	0.4833	0.4700	102.8
052325A-0006.d	PFPeS	13C3-PFHxS_ISTD	Calibration	5.971	45598	34274	1.3304	2.1213	2.3500	90.3
052325A-0007.d	PFPeS	13C3-PFHxS_ISTD	Calibration	5.971	99983	34147	2.9280	4.6686	4.7000	99.3
052325A-0008.d	PFPeS	13C3-PFHxS_ISTD	Calibration	5.971	259249	32179	8.0565	12.8458	11.8000	108.9
052325A-0009.d	PFPeS	13C3-PFHxS_ISTD	Calibration	5.980	499040	30341	16.4480	26.2258	23.5000	111.6
052325A-0010.d	PFPeS	13C3-PFHxS_ISTD	Calibration	5.980	955182	29417	32.4708	51.7737	47.0000	110.2
052325A-0011.d	PFPeS	13C3-PFHxS_ISTD	Calibration	5.980	1188867	28816	41.2571	65.7832	58.8000	111.9
052325A-0012.d	PFPeS	13C3-PFHxS_ISTD	Blank			47787		ND		
052325A-0013.d	PFPeS	13C3-PFHxS_ISTD	QC	5.971	119068	34044	3.4975	5.5766	6.4000	87.1

TDCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	TDCA	13C8-PFOS_ISTD	Blank			41360		ND		
052325A-0003.d	TDCA	13C8-PFOS_ISTD	Calibration			30267		ND	10.0000	
052325A-0004.d	TDCA	13C8-PFOS_ISTD	Calibration	6.023	44662	29205	1.5293	9.5949	10.0000	95.9
052325A-0005.d	TDCA	13C8-PFOS_ISTD	Calibration			27998		ND	10.0000	
052325A-0006.d	TDCA	13C8-PFOS_ISTD	Calibration			27987		ND	10.0000	
052325A-0007.d	TDCA	13C8-PFOS_ISTD	Calibration	6.023	46386	27591	1.6812	10.5481	10.0000	105.5
052325A-0008.d	TDCA	13C8-PFOS_ISTD	Calibration			27474		ND	10.0000	
052325A-0009.d	TDCA	13C8-PFOS_ISTD	Calibration			24871		ND	10.0000	

TDCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0010.d	TDCA	13C8-PFOS_ISTD	Calibration			23324		ND	10.0000	
052325A-0011.d	TDCA	13C8-PFOS_ISTD	Calibration	6.023	36943	23515	1.5710	9.8570	10.0000	98.6
052325A-0012.d	TDCA	13C8-PFOS_ISTD	Blank			41531		ND		
052325A-0013.d	TDCA	13C8-PFOS_ISTD	QC			27104		ND	10.0000	

ADONA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	ADONA	13C4-PFHpA_ISTD	Blank	6.044	313	198376	0.0016	0.0024		
052325A-0003.d	ADONA	13C4-PFHpA_ISTD	Calibration	6.044	29879	143954	0.2076	0.3201	0.3780	84.7
052325A-0004.d	ADONA	13C4-PFHpA_ISTD	Calibration	6.044	58142	147847	0.3933	0.6065	0.7560	80.2
052325A-0005.d	ADONA	13C4-PFHpA_ISTD	Calibration	6.052	181895	134482	1.3526	2.0860	1.8900	110.4
052325A-0006.d	ADONA	13C4-PFHpA_ISTD	Calibration	6.052	807291	136803	5.9011	9.1011	9.4500	96.3
052325A-0007.d	ADONA	13C4-PFHpA_ISTD	Calibration	6.044	1580653	145107	10.8930	16.7999	18.9000	88.9
052325A-0008.d	ADONA	13C4-PFHpA_ISTD	Calibration	6.044	4558646	136299	33.4459	51.5823	47.2500	109.2
052325A-0009.d	ADONA	13C4-PFHpA_ISTD	Calibration	6.044	9334926	133779	69.7786	107.6167	94.5000	113.9
052325A-0010.d	ADONA	13C4-PFHpA_ISTD	Calibration	6.044	18285239	131867	138.6639	213.8556	189.0000	113.2
052325A-0011.d	ADONA	13C4-PFHpA_ISTD	Calibration	6.044	19022742	120188	158.2744	244.1000	236.2500	103.3
052325A-0012.d	ADONA	13C4-PFHpA_ISTD	Blank	6.044	988	197859	0.0050	0.0077		
052325A-0013.d	ADONA	13C4-PFHpA_ISTD	QC	6.044	1174657	138003	8.5118	13.1275	14.1500	92.8

13C2-6:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Blank	6.172	29137	36403	0.8004	6.1696		
052325A-0003.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Calibration	6.180	20467	30120	0.6795	5.2377	5.0000	104.8
052325A-0004.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Calibration	6.180	22488	31872	0.7056	5.4386	5.0000	108.8
052325A-0005.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Calibration	6.188	22861	27619	0.8277	6.3798	5.0000	127.6
052325A-0006.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Calibration	6.180	21495	28155	0.7635	5.8847	5.0000	117.7
052325A-0007.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Calibration	6.180	19487	30432	0.6403	4.9356	5.0000	98.7
052325A-0008.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Calibration	6.180	17496	27764	0.6301	4.8571	5.0000	97.1
052325A-0009.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Calibration	6.180	15295	29101	0.5256	4.0511	5.0000	81.0
052325A-0010.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Calibration	6.180	13797	26084	0.5290	4.0771	5.0000	81.5
052325A-0011.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Calibration	6.180	13119	24435	0.5369	4.1383	5.0000	82.8
052325A-0012.d	13C2-6:2FTS	18O2-PFHxS_ISTD	Blank	6.180	34031	38665	0.8802	6.7841		
052325A-0013.d	13C2-6:2FTS	18O2-PFHxS_ISTD	QC	6.172	23262	29432	0.7904	6.0920	5.0000	121.8

6:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	6:2FTS	13C2-6:2FTS_ISTD	Blank	6.172	507	29137	0.0174	0.0323		
052325A-0003.d	6:2FTS	13C2-6:2FTS_ISTD	Calibration	6.172	3921	20467	0.1916	0.3557	0.3800	93.6
052325A-0004.d	6:2FTS	13C2-6:2FTS_ISTD	Calibration	6.180	8054	22488	0.3581	0.6649	0.7610	87.4
052325A-0005.d	6:2FTS	13C2-6:2FTS_ISTD	Calibration	6.180	24792	22861	1.0845	2.0135	1.9000	106.0
052325A-0006.d	6:2FTS	13C2-6:2FTS_ISTD	Calibration	6.180	101882	21495	4.7398	8.7999	9.5100	92.5

6:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0007.d	6:2FTS	13C2-6:2FTS_ISTD	Calibration	6.180	215407	19487	11.0541	20.5229	19.0000	108.0
052325A-0008.d	6:2FTS	13C2-6:2FTS_ISTD	Calibration	6.180	477934	17496	27.3173	50.7170	47.6000	106.5
052325A-0009.d	6:2FTS	13C2-6:2FTS_ISTD	Calibration	6.180	815932	15295	53.3457	99.0411	95.1000	104.1
052325A-0010.d	6:2FTS	13C2-6:2FTS_ISTD	Calibration	6.180	1433354	13797	103.8891	192.8794	190.0000	101.5
052325A-0011.d	6:2FTS	13C2-6:2FTS_ISTD	Calibration	6.180	1686795	13119	128.5758	238.7125	238.0000	100.3
052325A-0012.d	6:2FTS	13C2-6:2FTS_ISTD	Blank	6.180	485	34031	0.0142	0.0264		
052325A-0013.d	6:2FTS	13C2-6:2FTS_ISTD	QC	6.172	87238	23262	3.7503	6.9627	7.6000	91.6

PFOA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFOA	13C8-PFOA_ISTD	Blank	6.361	857	140882	0.0061	0.0129		
052325A-0003.d	PFOA	13C8-PFOA_ISTD	Calibration	6.300	4191	100225	0.0418	0.0885	0.1000	88.5
052325A-0004.d	PFOA	13C8-PFOA_ISTD	Calibration	6.300	8281	101013	0.0820	0.1735	0.2000	86.8
052325A-0005.d	PFOA	13C8-PFOA_ISTD	Calibration	6.300	23836	99015	0.2407	0.5096	0.5000	101.9
052325A-0006.d	PFOA	13C8-PFOA_ISTD	Calibration	6.300	103759	100554	1.0319	2.1845	2.5000	87.4
052325A-0007.d	PFOA	13C8-PFOA_ISTD	Calibration	6.300	228399	99134	2.3039	4.8775	5.0000	97.5
052325A-0008.d	PFOA	13C8-PFOA_ISTD	Calibration	6.300	591366	95464	6.1946	13.1140	12.5000	104.9
052325A-0009.d	PFOA	13C8-PFOA_ISTD	Calibration	6.300	1161475	94948	12.2327	25.8966	25.0000	103.6
052325A-0010.d	PFOA	13C8-PFOA_ISTD	Calibration	6.300	2405147	89038	27.0125	57.1855	50.0000	114.4
052325A-0011.d	PFOA	13C8-PFOA_ISTD	Calibration	6.300	3018492	88924	33.9445	71.8605	62.5000	115.0
052325A-0012.d	PFOA	13C8-PFOA_ISTD	Blank	6.369	844	137591	0.0061	0.0130		
052325A-0013.d	PFOA	13C8-PFOA_ISTD	QC	6.300	459174	96982	4.7346	10.0232	8.7500	114.6

13C8-PFOA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C8-PFOA	13C4-PFOA_ISTD	Blank	6.360	140882	28585	4.9285	2.6306		
052325A-0003.d	13C8-PFOA	13C4-PFOA_ISTD	Calibration	6.368	100225	21859	4.5850	2.4472	2.5000	97.9
052325A-0004.d	13C8-PFOA	13C4-PFOA_ISTD	Calibration	6.368	101013	23604	4.2795	2.2841	2.5000	91.4
052325A-0005.d	13C8-PFOA	13C4-PFOA_ISTD	Calibration	6.377	99015	18887	5.2425	2.7982	2.5000	111.9
052325A-0006.d	13C8-PFOA	13C4-PFOA_ISTD	Calibration	6.368	100554	20320	4.9484	2.6412	2.5000	105.6
052325A-0007.d	13C8-PFOA	13C4-PFOA_ISTD	Calibration	6.368	99134	22546	4.3969	2.3468	2.5000	93.9
052325A-0008.d	13C8-PFOA	13C4-PFOA_ISTD	Calibration	6.368	95464	21001	4.5457	2.4262	2.5000	97.0
052325A-0009.d	13C8-PFOA	13C4-PFOA_ISTD	Calibration	6.368	94948	19560	4.8542	2.5909	2.5000	103.6
052325A-0010.d	13C8-PFOA	13C4-PFOA_ISTD	Calibration	6.377	89038	18970	4.6936	2.5051	2.5000	100.2
052325A-0011.d	13C8-PFOA	13C4-PFOA_ISTD	Calibration	6.368	88924	19291	4.6095	2.4603	2.5000	98.4
052325A-0012.d	13C8-PFOA	13C4-PFOA_ISTD	Blank	6.368	137591	27200	5.0584	2.6999		
052325A-0013.d	13C8-PFOA	13C4-PFOA_ISTD	QC	6.368	96982	20846	4.6523	2.4831	2.5000	99.3

13C4-PFOA

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C4-PFOA	Blank	6.361	28585	3.4571		
052325A-0003.d	13C4-PFOA	Calibration	6.369	21859	2.6437	2.5000	105.7

13C4-PFOA

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
052325A-0004.d	13C4-PFOA	Calibration	6.369	23604	2.8547	2.5000	114.2
052325A-0005.d	13C4-PFOA	Calibration	6.377	18887	2.2842	2.5000	91.4
052325A-0006.d	13C4-PFOA	Calibration	6.369	20320	2.4576	2.5000	98.3
052325A-0007.d	13C4-PFOA	Calibration	6.369	22546	2.7268	2.5000	109.1
052325A-0008.d	13C4-PFOA	Calibration	6.369	21001	2.5399	2.5000	101.6
052325A-0009.d	13C4-PFOA	Calibration	6.369	19560	2.3657	2.5000	94.6
052325A-0010.d	13C4-PFOA	Calibration	6.377	18970	2.2943	2.5000	91.8
052325A-0011.d	13C4-PFOA	Calibration	6.369	19291	2.3331	2.5000	93.3
052325A-0012.d	13C4-PFOA	Blank	6.369	27200	3.2897		
052325A-0013.d	13C4-PFOA	QC	6.369	20846	2.5212	2.5000	100.8

13C3-PFHxS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C3-PFHxS	18O2-PFHxS_ISTD	Blank	6.551	50990	36403	1.4007	3.0299		
052325A-0003.d	13C3-PFHxS	18O2-PFHxS_ISTD	Calibration	6.551	36080	30120	1.1979	2.5911	2.5000	103.6
052325A-0004.d	13C3-PFHxS	18O2-PFHxS_ISTD	Calibration	6.551	35957	31872	1.1282	2.4404	2.5000	97.6
052325A-0005.d	13C3-PFHxS	18O2-PFHxS_ISTD	Calibration	6.560	33906	27619	1.2276	2.6555	2.5000	106.2
052325A-0006.d	13C3-PFHxS	18O2-PFHxS_ISTD	Calibration	6.560	34274	28155	1.2174	2.6333	2.5000	105.3
052325A-0007.d	13C3-PFHxS	18O2-PFHxS_ISTD	Calibration	6.551	34147	30432	1.1221	2.4272	2.5000	97.1
052325A-0008.d	13C3-PFHxS	18O2-PFHxS_ISTD	Calibration	6.551	32179	27764	1.1590	2.5070	2.5000	100.3
052325A-0009.d	13C3-PFHxS	18O2-PFHxS_ISTD	Calibration	6.560	30341	29101	1.0426	2.2552	2.5000	90.2
052325A-0010.d	13C3-PFHxS	18O2-PFHxS_ISTD	Calibration	6.560	29417	26084	1.1278	2.4395	2.5000	97.6
052325A-0011.d	13C3-PFHxS	18O2-PFHxS_ISTD	Calibration	6.560	28816	24435	1.1793	2.5509	2.5000	102.0
052325A-0012.d	13C3-PFHxS	18O2-PFHxS_ISTD	Blank	6.551	47787	38665	1.2359	2.6734		
052325A-0013.d	13C3-PFHxS	18O2-PFHxS_ISTD	QC	6.551	34044	29432	1.1567	2.5020	2.5000	100.1

PFHxS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFHxS	13C3-PFHxS_ISTD	Blank			50990		ND		
052325A-0003.d	PFHxS	13C3-PFHxS_ISTD	Calibration	6.498	1516	36080	0.0420	0.0832	0.0910	91.4
052325A-0004.d	PFHxS	13C3-PFHxS_ISTD	Calibration	6.498	2782	35957	0.0774	0.1532	0.1820	84.1
052325A-0005.d	PFHxS	13C3-PFHxS_ISTD	Calibration	6.498	7849	33906	0.2315	0.4582	0.4560	100.5
052325A-0006.d	PFHxS	13C3-PFHxS_ISTD	Calibration	6.498	37466	34274	1.0931	2.1635	2.2800	94.9
052325A-0007.d	PFHxS	13C3-PFHxS_ISTD	Calibration	6.498	74963	34147	2.1953	4.3449	4.5600	95.3
052325A-0008.d	PFHxS	13C3-PFHxS_ISTD	Calibration	6.498	192547	32179	5.9836	11.8429	11.4000	103.9
052325A-0009.d	PFHxS	13C3-PFHxS_ISTD	Calibration	6.498	376260	30341	12.4013	24.5447	22.8000	107.7
052325A-0010.d	PFHxS	13C3-PFHxS_ISTD	Calibration	6.498	753639	29417	25.6194	50.7062	45.6000	111.2
052325A-0011.d	PFHxS	13C3-PFHxS_ISTD	Calibration	6.498	921805	28816	31.9893	63.3134	57.0000	111.1
052325A-0012.d	PFHxS	13C3-PFHxS_ISTD	Blank	6.551	274	47787	0.0057	0.0113		
052325A-0013.d	PFHxS	13C3-PFHxS_ISTD	QC	6.498	70465	34044	2.0698	4.0966	4.7000	87.2

18O2-PFHxS

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	18O2-PFHxS	Blank	6.550	36403	3.2047		
052325A-0003.d	18O2-PFHxS	Calibration	6.550	30120	2.6516	2.5000	106.1
052325A-0004.d	18O2-PFHxS	Calibration	6.550	31872	2.8058	2.5000	112.2
052325A-0005.d	18O2-PFHxS	Calibration	6.559	27619	2.4315	2.5000	97.3
052325A-0006.d	18O2-PFHxS	Calibration	6.559	28155	2.4786	2.5000	99.1
052325A-0007.d	18O2-PFHxS	Calibration	6.559	30432	2.6791	2.5000	107.2
052325A-0008.d	18O2-PFHxS	Calibration	6.559	27764	2.4442	2.5000	97.8
052325A-0009.d	18O2-PFHxS	Calibration	6.559	29101	2.5619	2.5000	102.5
052325A-0010.d	18O2-PFHxS	Calibration	6.559	26084	2.2963	2.5000	91.9
052325A-0011.d	18O2-PFHxS	Calibration	6.559	24435	2.1511	2.5000	86.0
052325A-0012.d	18O2-PFHxS	Blank	6.550	38665	3.4039		
052325A-0013.d	18O2-PFHxS	QC	6.550	29432	2.5910	2.5000	103.6

7:3FTCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	7:3FTCA	13C9-PFNA_ISTD	Blank			96219		ND		
052325A-0003.d	7:3FTCA	13C9-PFNA_ISTD	Calibration	6.746	7442	66708	0.1116	2.0853	2.5000	83.4
052325A-0004.d	7:3FTCA	13C9-PFNA_ISTD	Calibration	6.754	15198	69101	0.2199	4.1111	5.0000	82.2
052325A-0005.d	7:3FTCA	13C9-PFNA_ISTD	Calibration	6.754	43485	65281	0.6661	12.4514	12.5000	99.6
052325A-0006.d	7:3FTCA	13C9-PFNA_ISTD	Calibration	6.754	197103	66139	2.9801	55.7052	62.5000	89.1
052325A-0007.d	7:3FTCA	13C9-PFNA_ISTD	Calibration	6.754	433522	68219	6.3549	118.7871	125.0000	95.0
052325A-0008.d	7:3FTCA	13C9-PFNA_ISTD	Calibration	6.746	1146308	64136	17.8731	334.0889	312.5000	106.9
052325A-0009.d	7:3FTCA	13C9-PFNA_ISTD	Calibration	6.746	2310508	62845	36.7652	687.2270	625.0000	110.0
052325A-0010.d	7:3FTCA	13C9-PFNA_ISTD	Calibration	6.746	4872646	62970	77.3805	1446.4205	1250.0000	115.7
052325A-0011.d	7:3FTCA	13C9-PFNA_ISTD	Calibration	6.746	6028902	61210	98.4955	1841.1091	1560.0000	118.0
052325A-0012.d	7:3FTCA	13C9-PFNA_ISTD	Blank	6.746	544	95921	0.0057	0.1060		
052325A-0013.d	7:3FTCA	13C9-PFNA_ISTD	QC	6.746	43276	64107	0.6751	12.6186	15.0000	84.1

PFNA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFNA	13C9-PFNA_ISTD	Blank			96219		ND		
052325A-0003.d	PFNA	13C9-PFNA_ISTD	Calibration	6.789	4236	66708	0.0635	0.0907	0.1000	90.7
052325A-0004.d	PFNA	13C9-PFNA_ISTD	Calibration	6.789	8794	69101	0.1273	0.1818	0.2000	90.9
052325A-0005.d	PFNA	13C9-PFNA_ISTD	Calibration	6.789	21630	65281	0.3313	0.4735	0.5000	94.7
052325A-0006.d	PFNA	13C9-PFNA_ISTD	Calibration	6.789	104178	66139	1.5751	2.2508	2.5000	90.0
052325A-0007.d	PFNA	13C9-PFNA_ISTD	Calibration	6.789	234294	68219	3.4344	4.9078	5.0000	98.2
052325A-0008.d	PFNA	13C9-PFNA_ISTD	Calibration	6.789	595783	64136	9.2894	13.2745	12.5000	106.2
052325A-0009.d	PFNA	13C9-PFNA_ISTD	Calibration	6.789	1172657	62845	18.6595	26.6644	25.0000	106.7
052325A-0010.d	PFNA	13C9-PFNA_ISTD	Calibration	6.789	2388048	62970	37.9236	54.1927	50.0000	108.4
052325A-0011.d	PFNA	13C9-PFNA_ISTD	Calibration	6.789	3057582	61210	49.9524	71.3818	62.5000	114.2
052325A-0012.d	PFNA	13C9-PFNA_ISTD	Blank			95921		ND		

PFNA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0013.d	PFNA	13C9-PFNA_ISTD	QC	6.789	118484	64107	1.8482	2.6411	2.4150	109.4

13C9-PFNA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C9-PFNA	13C5-PFNA_ISTD	Blank	6.834	96219	78907	1.2194	1.3801		
052325A-0003.d	13C9-PFNA	13C5-PFNA_ISTD	Calibration	6.842	66708	61080	1.0921	1.2361	1.2500	98.9
052325A-0004.d	13C9-PFNA	13C5-PFNA_ISTD	Calibration	6.842	69101	64615	1.0694	1.2104	1.2500	96.8
052325A-0005.d	13C9-PFNA	13C5-PFNA_ISTD	Calibration	6.850	65281	53597	1.2180	1.3785	1.2500	110.3
052325A-0006.d	13C9-PFNA	13C5-PFNA_ISTD	Calibration	6.842	66139	58567	1.1293	1.2781	1.2500	102.3
052325A-0007.d	13C9-PFNA	13C5-PFNA_ISTD	Calibration	6.842	68219	61215	1.1144	1.2613	1.2500	100.9
052325A-0008.d	13C9-PFNA	13C5-PFNA_ISTD	Calibration	6.842	64136	61567	1.0417	1.1790	1.2500	94.3
052325A-0009.d	13C9-PFNA	13C5-PFNA_ISTD	Calibration	6.842	62845	58947	1.0661	1.2066	1.2500	96.5
052325A-0010.d	13C9-PFNA	13C5-PFNA_ISTD	Calibration	6.842	62970	56403	1.1164	1.2636	1.2500	101.1
052325A-0011.d	13C9-PFNA	13C5-PFNA_ISTD	Calibration	6.842	61210	56040	1.0923	1.2362	1.2500	98.9
052325A-0012.d	13C9-PFNA	13C5-PFNA_ISTD	Blank	6.842	95921	79650	1.2043	1.3630		
052325A-0013.d	13C9-PFNA	13C5-PFNA_ISTD	QC	6.842	64107	63555	1.0087	1.1416	1.2500	91.3

13C5-PFNA

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C5-PFNA	Blank	6.834	78907	1.6685		
052325A-0003.d	13C5-PFNA	Calibration	6.842	61080	1.2916	1.2500	103.3
052325A-0004.d	13C5-PFNA	Calibration	6.842	64615	1.3663	1.2500	109.3
052325A-0005.d	13C5-PFNA	Calibration	6.850	53597	1.1333	1.2500	90.7
052325A-0006.d	13C5-PFNA	Calibration	6.850	58567	1.2384	1.2500	99.1
052325A-0007.d	13C5-PFNA	Calibration	6.842	61215	1.2944	1.2500	103.6
052325A-0008.d	13C5-PFNA	Calibration	6.842	61567	1.3019	1.2500	104.1
052325A-0009.d	13C5-PFNA	Calibration	6.842	58947	1.2465	1.2500	99.7
052325A-0010.d	13C5-PFNA	Calibration	6.842	56403	1.1927	1.2500	95.4
052325A-0011.d	13C5-PFNA	Calibration	6.842	56040	1.1850	1.2500	94.8
052325A-0012.d	13C5-PFNA	Blank	6.842	79650	1.6842		
052325A-0013.d	13C5-PFNA	QC	6.842	63555	1.3439	1.2500	107.5

PFHpS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFHpS	13C8-PFOS_ISTD	Blank			41360		ND		
052325A-0003.d	PFHpS	13C8-PFOS_ISTD	Calibration	7.055	1378	30267	0.0455	0.0821	0.0950	86.4
052325A-0004.d	PFHpS	13C8-PFOS_ISTD	Calibration	7.064	2491	29205	0.0853	0.1537	0.1900	80.9
052325A-0005.d	PFHpS	13C8-PFOS_ISTD	Calibration	7.064	7599	27998	0.2714	0.4891	0.4760	102.7
052325A-0006.d	PFHpS	13C8-PFOS_ISTD	Calibration	7.064	33714	27987	1.2046	2.1707	2.3800	91.2
052325A-0007.d	PFHpS	13C8-PFOS_ISTD	Calibration	7.064	76115	27591	2.7587	4.9709	4.7600	104.4
052325A-0008.d	PFHpS	13C8-PFOS_ISTD	Calibration	7.055	186237	27474	6.7786	12.2145	11.9000	102.6
052325A-0009.d	PFHpS	13C8-PFOS_ISTD	Calibration	7.055	361547	24871	14.5368	26.1942	23.8000	110.1

PFHpS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0010.d	PFHpS	13C8-PFOS_ISTD	Calibration	7.064	684687	23324	29.3549	52.8953	47.6000	111.1
052325A-0011.d	PFHpS	13C8-PFOS_ISTD	Calibration	7.055	858261	23515	36.4983	65.7670	59.5000	110.5
052325A-0012.d	PFHpS	13C8-PFOS_ISTD	Blank			41531		ND		
052325A-0013.d	PFHpS	13C8-PFOS_ISTD	QC	7.055	33104	27104	1.2214	2.2008	2.3800	92.5

13C2-8:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Blank	7.092	27853	36403	0.7651	5.8755		
052325A-0003.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Calibration	7.100	19889	30120	0.6603	5.0706	5.0000	101.4
052325A-0004.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Calibration	7.100	22444	31872	0.7042	5.4075	5.0000	108.2
052325A-0005.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Calibration	7.100	22039	27619	0.7979	6.1275	5.0000	122.5
052325A-0006.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Calibration	7.100	19745	28155	0.7013	5.3854	5.0000	107.7
052325A-0007.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Calibration	7.100	20721	30432	0.6809	5.2285	5.0000	104.6
052325A-0008.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Calibration	7.100	18258	27764	0.6576	5.0499	5.0000	101.0
052325A-0009.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Calibration	7.100	14978	29101	0.5147	3.9523	5.0000	79.0
052325A-0010.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Calibration	7.100	15030	26084	0.5762	4.4249	5.0000	88.5
052325A-0011.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Calibration	7.100	13853	24435	0.5669	4.3534	5.0000	87.1
052325A-0012.d	13C2-8:2FTS	18O2-PFHxS_ISTD	Blank	7.092	32616	38665	0.8435	6.4776		
052325A-0013.d	13C2-8:2FTS	18O2-PFHxS_ISTD	QC	7.092	21181	29432	0.7197	5.5263	5.0000	110.5

8:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	8:2FTS	13C2-8:2FTS_ISTD	Blank			27853		ND		
052325A-0003.d	8:2FTS	13C2-8:2FTS_ISTD	Calibration	7.092	3797	19889	0.1909	0.3483	0.3840	90.7
052325A-0004.d	8:2FTS	13C2-8:2FTS_ISTD	Calibration	7.100	8391	22444	0.3738	0.6820	0.7680	88.8
052325A-0005.d	8:2FTS	13C2-8:2FTS_ISTD	Calibration	7.100	24664	22039	1.1191	2.0417	1.9200	106.3
052325A-0006.d	8:2FTS	13C2-8:2FTS_ISTD	Calibration	7.100	107918	19745	5.4656	9.9711	9.6000	103.9
052325A-0007.d	8:2FTS	13C2-8:2FTS_ISTD	Calibration	7.100	221938	20721	10.7110	19.5404	19.2000	101.8
052325A-0008.d	8:2FTS	13C2-8:2FTS_ISTD	Calibration	7.100	524038	18258	28.7014	52.3610	48.0000	109.1
052325A-0009.d	8:2FTS	13C2-8:2FTS_ISTD	Calibration	7.100	871503	14978	58.1846	106.1483	96.0000	110.6
052325A-0010.d	8:2FTS	13C2-8:2FTS_ISTD	Calibration	7.100	1473380	15030	98.0285	178.8371	192.0000	93.1
052325A-0011.d	8:2FTS	13C2-8:2FTS_ISTD	Calibration	7.100	1744509	13853	125.9334	229.7451	240.0000	95.7
052325A-0012.d	8:2FTS	13C2-8:2FTS_ISTD	Blank	7.092	337	32616	0.0103	0.0189		
052325A-0013.d	8:2FTS	13C2-8:2FTS_ISTD	QC	7.092	126128	21181	5.9548	10.8635	11.2000	97.0

13C6-PFDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C6-PFDA	13C2-PFDA_ISTD	Blank	7.281	103019	79055	1.3031	1.3839		
052325A-0003.d	13C6-PFDA	13C2-PFDA_ISTD	Calibration	7.289	76087	64749	1.1751	1.2480	1.2500	99.8
052325A-0004.d	13C6-PFDA	13C2-PFDA_ISTD	Calibration	7.289	77472	66823	1.1594	1.2313	1.2500	98.5
052325A-0005.d	13C6-PFDA	13C2-PFDA_ISTD	Calibration	7.289	72272	55593	1.3000	1.3806	1.2500	110.5
052325A-0006.d	13C6-PFDA	13C2-PFDA_ISTD	Calibration	7.289	73409	57921	1.2674	1.3460	1.2500	107.7

13C6-PFDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0007.d	13C6-PFDA	13C2-PFDA_ISTD	Calibration	7.289	73987	64702	1.1435	1.2144	1.2500	97.2
052325A-0008.d	13C6-PFDA	13C2-PFDA_ISTD	Calibration	7.289	71134	60036	1.1849	1.2583	1.2500	100.7
052325A-0009.d	13C6-PFDA	13C2-PFDA_ISTD	Calibration	7.289	67561	60591	1.1150	1.1842	1.2500	94.7
052325A-0010.d	13C6-PFDA	13C2-PFDA_ISTD	Calibration	7.289	67089	58143	1.1539	1.2254	1.2500	98.0
052325A-0011.d	13C6-PFDA	13C2-PFDA_ISTD	Calibration	7.289	63883	58399	1.0939	1.1617	1.2500	92.9
052325A-0012.d	13C6-PFDA	13C2-PFDA_ISTD	Blank	7.289	106414	76745	1.3866	1.4726		
052325A-0013.d	13C6-PFDA	13C2-PFDA_ISTD	QC	7.289	72447	68857	1.0521	1.1174	1.2500	89.4

13C2-PFDA

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C2-PFDA	Blank	7.281	79055	1.6260		
052325A-0003.d	13C2-PFDA	Calibration	7.290	64749	1.3318	1.2500	106.5
052325A-0004.d	13C2-PFDA	Calibration	7.290	66823	1.3744	1.2500	110.0
052325A-0005.d	13C2-PFDA	Calibration	7.290	55593	1.1435	1.2500	91.5
052325A-0006.d	13C2-PFDA	Calibration	7.290	57921	1.1914	1.2500	95.3
052325A-0007.d	13C2-PFDA	Calibration	7.290	64702	1.3308	1.2500	106.5
052325A-0008.d	13C2-PFDA	Calibration	7.290	60036	1.2348	1.2500	98.8
052325A-0009.d	13C2-PFDA	Calibration	7.290	60591	1.2462	1.2500	99.7
052325A-0010.d	13C2-PFDA	Calibration	7.290	58143	1.1959	1.2500	95.7
052325A-0011.d	13C2-PFDA	Calibration	7.290	58399	1.2012	1.2500	96.1
052325A-0012.d	13C2-PFDA	Blank	7.290	76745	1.5785		
052325A-0013.d	13C2-PFDA	QC	7.290	68857	1.4163	1.2500	113.3

PFDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFDA	13C6-PFDA_ISTD	Blank			103019		ND		
052325A-0003.d	PFDA	13C6-PFDA_ISTD	Calibration	7.290	4383	76087	0.0576	0.0704	0.1000	70.4
052325A-0004.d	PFDA	13C6-PFDA_ISTD	Calibration	7.290	10463	77472	0.1351	0.1650	0.2000	82.5
052325A-0005.d	PFDA	13C6-PFDA_ISTD	Calibration	7.290	30266	72272	0.4188	0.5118	0.5000	102.4
052325A-0006.d	PFDA	13C6-PFDA_ISTD	Calibration	7.290	137227	73409	1.8694	2.2845	2.5000	91.4
052325A-0007.d	PFDA	13C6-PFDA_ISTD	Calibration	7.290	301498	73987	4.0750	4.9800	5.0000	99.6
052325A-0008.d	PFDA	13C6-PFDA_ISTD	Calibration	7.290	790941	71134	11.1190	13.5883	12.5000	108.7
052325A-0009.d	PFDA	13C6-PFDA_ISTD	Calibration	7.290	1555225	67561	23.0195	28.1318	25.0000	112.5
052325A-0010.d	PFDA	13C6-PFDA_ISTD	Calibration	7.290	3139418	67089	46.7949	57.1873	50.0000	114.4
052325A-0011.d	PFDA	13C6-PFDA_ISTD	Calibration	7.290	3859517	63883	60.4155	73.8328	62.5000	118.1
052325A-0012.d	PFDA	13C6-PFDA_ISTD	Blank	7.298	344	106414	0.0032	0.0040		
052325A-0013.d	PFDA	13C6-PFDA_ISTD	QC	7.290	298154	72447	4.1155	5.0295	5.1500	97.7

NMeFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Blank			122211		ND		
052325A-0003.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Calibration	7.247	669	90240	0.0074	0.0997	0.1000	99.7

NMeFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0004.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Calibration	7.247	1069	88736	0.0120	0.1620	0.2000	81.0
052325A-0005.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Calibration	7.247	3207	82345	0.0389	0.5240	0.5000	104.8
052325A-0006.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Calibration	7.247	14255	85204	0.1673	2.2509	2.5000	90.0
052325A-0007.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Calibration	7.247	31449	92542	0.3398	4.5719	5.0000	91.4
052325A-0008.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Calibration	7.247	86094	86221	0.9985	13.4335	12.5000	107.5
052325A-0009.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Calibration	7.247	161590	86386	1.8705	25.1652	25.0000	100.7
052325A-0010.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Calibration	7.247	335363	78753	4.2584	57.2899	50.0000	114.6
052325A-0011.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Calibration	7.247	402364	78493	5.1261	68.9635	62.5000	110.3
052325A-0012.d	NMeFOSAA	D3-NMeFOSAA_ISTD	Blank			128579		ND		
052325A-0013.d	NMeFOSAA	D3-NMeFOSAA_ISTD	QC	7.247	22586	92812	0.2434	3.2739	3.7500	87.3

D3-NMeFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Blank	7.319	122211	37883	3.2261	5.1867		
052325A-0003.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Calibration	7.327	90240	30068	3.0012	4.8252	5.0000	96.5
052325A-0004.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Calibration	7.319	88736	30739	2.8868	4.6412	5.0000	92.8
052325A-0005.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Calibration	7.327	82345	26189	3.1443	5.0552	5.0000	101.1
052325A-0006.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Calibration	7.327	85204	28147	3.0271	4.8668	5.0000	97.3
052325A-0007.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Calibration	7.327	92542	29954	3.0895	4.9672	5.0000	99.3
052325A-0008.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Calibration	7.319	86221	27615	3.1222	5.0197	5.0000	100.4
052325A-0009.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Calibration	7.319	86386	27270	3.1679	5.0931	5.0000	101.9
052325A-0010.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Calibration	7.319	78753	24618	3.1991	5.1433	5.0000	102.9
052325A-0011.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Calibration	7.327	78493	23421	3.3515	5.3883	5.0000	107.8
052325A-0012.d	D3-NMeFOSAA	13C4-PFOS_ISTD	Blank	7.319	128579	36878	3.4866	5.6056		
052325A-0013.d	D3-NMeFOSAA	13C4-PFOS_ISTD	QC	7.319	92812	30517	3.0414	4.8897	5.0000	97.8

D5-NEtFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Blank	7.498	97685	37883	2.5786	5.4589		
052325A-0003.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Calibration	7.498	69360	30068	2.3068	4.8834	5.0000	97.7
052325A-0004.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Calibration	7.498	68097	30739	2.2153	4.6898	5.0000	93.8
052325A-0005.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Calibration	7.498	62393	26189	2.3824	5.0435	5.0000	100.9
052325A-0006.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Calibration	7.498	65404	28147	2.3236	4.9191	5.0000	98.4
052325A-0007.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Calibration	7.498	71162	29954	2.3758	5.0294	5.0000	100.6
052325A-0008.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Calibration	7.498	66905	27615	2.4227	5.1289	5.0000	102.6
052325A-0009.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Calibration	7.498	64148	27270	2.3524	4.9799	5.0000	99.6
052325A-0010.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Calibration	7.498	59198	24618	2.4047	5.0907	5.0000	101.8
052325A-0011.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Calibration	7.498	57918	23421	2.4730	5.2352	5.0000	104.7
052325A-0012.d	D5-NEtFOSAA	13C4-PFOS_ISTD	Blank	7.498	106077	36878	2.8764	6.0893		
052325A-0013.d	D5-NEtFOSAA	13C4-PFOS_ISTD	QC	7.498	70036	30517	2.2950	4.8585	5.0000	97.2

NEtFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Blank			97685		ND		
052325A-0003.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Calibration	7.434	1117	69360	0.0161	0.0827	0.1000	82.7
052325A-0004.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Calibration	7.434	2398	68097	0.0352	0.1809	0.2000	90.4
052325A-0005.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Calibration	7.434	6815	62393	0.1092	0.5611	0.5000	112.2
052325A-0006.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Calibration	7.434	27990	65404	0.4280	2.1982	2.5000	87.9
052325A-0007.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Calibration	7.434	65044	71162	0.9140	4.6950	5.0000	93.9
052325A-0008.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Calibration	7.434	165553	66905	2.4745	12.7103	12.5000	101.7
052325A-0009.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Calibration	7.434	327499	64148	5.1054	26.2242	25.0000	104.9
052325A-0010.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Calibration	7.434	644016	59198	10.8790	55.8812	50.0000	111.8
052325A-0011.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Calibration	7.434	806481	57918	13.9244	71.5242	62.5000	114.4
052325A-0012.d	NEtFOSAA	D5-NEtFOSAA_ISTD	Blank			106077		ND		
052325A-0013.d	NEtFOSAA	D5-NEtFOSAA_ISTD	QC	7.434	49372	70036	0.7050	3.6211	4.0000	90.5

PFOS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFOS	13C8-PFOS_ISTD	Blank	7.399	544	41360	0.0132	0.0223		
052325A-0003.d	PFOS	13C8-PFOS_ISTD	Calibration	7.399	1777	30267	0.0587	0.0993	0.0930	106.8
052325A-0004.d	PFOS	13C8-PFOS_ISTD	Calibration	7.399	2963	29205	0.1015	0.1716	0.1860	92.3
052325A-0005.d	PFOS	13C8-PFOS_ISTD	Calibration	7.399	7421	27998	0.2651	0.4484	0.4640	96.6
052325A-0006.d	PFOS	13C8-PFOS_ISTD	Calibration	7.399	33819	27987	1.2084	2.0441	2.3200	88.1
052325A-0007.d	PFOS	13C8-PFOS_ISTD	Calibration	7.399	72356	27591	2.6224	4.4360	4.6400	95.6
052325A-0008.d	PFOS	13C8-PFOS_ISTD	Calibration	7.399	186162	27474	6.7758	11.4617	11.6000	98.8
052325A-0009.d	PFOS	13C8-PFOS_ISTD	Calibration	7.399	357452	24871	14.3722	24.3114	23.2000	104.8
052325A-0010.d	PFOS	13C8-PFOS_ISTD	Calibration	7.399	695159	23324	29.8039	50.4152	46.4000	108.7
052325A-0011.d	PFOS	13C8-PFOS_ISTD	Calibration	7.399	873795	23515	37.1589	62.8566	58.0000	108.4
052325A-0012.d	PFOS	13C8-PFOS_ISTD	Blank	7.399	554	41531	0.0133	0.0225		
052325A-0013.d	PFOS	13C8-PFOS_ISTD	QC	7.399	109530	27104	4.0412	6.8359	8.1000	84.4

13C8-PFOS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C8-PFOS	13C4-PFOS_ISTD	Blank	7.519	41360	37883	1.0918	2.7916		
052325A-0003.d	13C8-PFOS	13C4-PFOS_ISTD	Calibration	7.519	30267	30068	1.0066	2.5739	2.5000	103.0
052325A-0004.d	13C8-PFOS	13C4-PFOS_ISTD	Calibration	7.519	29205	30739	0.9501	2.4294	2.5000	97.2
052325A-0005.d	13C8-PFOS	13C4-PFOS_ISTD	Calibration	7.528	27998	26189	1.0691	2.7335	2.5000	109.3
052325A-0006.d	13C8-PFOS	13C4-PFOS_ISTD	Calibration	7.528	27987	28147	0.9943	2.5423	2.5000	101.7
052325A-0007.d	13C8-PFOS	13C4-PFOS_ISTD	Calibration	7.528	27591	29954	0.9211	2.3552	2.5000	94.2
052325A-0008.d	13C8-PFOS	13C4-PFOS_ISTD	Calibration	7.528	27474	27615	0.9949	2.5438	2.5000	101.8
052325A-0009.d	13C8-PFOS	13C4-PFOS_ISTD	Calibration	7.528	24871	27270	0.9120	2.3320	2.5000	93.3
052325A-0010.d	13C8-PFOS	13C4-PFOS_ISTD	Calibration	7.528	23324	24618	0.9475	2.4226	2.5000	96.9
052325A-0011.d	13C8-PFOS	13C4-PFOS_ISTD	Calibration	7.528	23515	23421	1.0040	2.5672	2.5000	102.7
052325A-0012.d	13C8-PFOS	13C4-PFOS_ISTD	Blank	7.519	41531	36878	1.1262	2.8795		

13C8-PFOS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0013.d	13C8-PFOS	13C4-PFOS_ISTD	QC	7.519	27104	30517	0.8882	2.2710	2.5000	90.8

13C4-PFOS

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C4-PFOS	Blank	7.520	37883	3.4367		
052325A-0003.d	13C4-PFOS	Calibration	7.520	30068	2.7277	2.5000	109.1
052325A-0004.d	13C4-PFOS	Calibration	7.520	30739	2.7886	2.5000	111.5
052325A-0005.d	13C4-PFOS	Calibration	7.529	26189	2.3758	2.5000	95.0
052325A-0006.d	13C4-PFOS	Calibration	7.529	28147	2.5535	2.5000	102.1
052325A-0007.d	13C4-PFOS	Calibration	7.529	29954	2.7173	2.5000	108.7
052325A-0008.d	13C4-PFOS	Calibration	7.529	27615	2.5052	2.5000	100.2
052325A-0009.d	13C4-PFOS	Calibration	7.520	27270	2.4739	2.5000	99.0
052325A-0010.d	13C4-PFOS	Calibration	7.529	24618	2.2333	2.5000	89.3
052325A-0011.d	13C4-PFOS	Calibration	7.529	23421	2.1247	2.5000	85.0
052325A-0012.d	13C4-PFOS	Blank	7.520	36878	3.3455		
052325A-0013.d	13C4-PFOS	QC	7.520	30517	2.7684	2.5000	110.7

13C7-PFUnA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C7-PFUnA	13C2-PFDA_ISTD	Blank	7.713	117136	79055	1.4817	1.4090		
052325A-0003.d	13C7-PFUnA	13C2-PFDA_ISTD	Calibration	7.721	81292	64749	1.2555	1.1939	1.2500	95.5
052325A-0004.d	13C7-PFUnA	13C2-PFDA_ISTD	Calibration	7.721	86319	66823	1.2918	1.2283	1.2500	98.3
052325A-0005.d	13C7-PFUnA	13C2-PFDA_ISTD	Calibration	7.721	80339	55593	1.4451	1.3742	1.2500	109.9
052325A-0006.d	13C7-PFUnA	13C2-PFDA_ISTD	Calibration	7.721	81492	57921	1.4069	1.3379	1.2500	107.0
052325A-0007.d	13C7-PFUnA	13C2-PFDA_ISTD	Calibration	7.721	81282	64702	1.2563	1.1946	1.2500	95.6
052325A-0008.d	13C7-PFUnA	13C2-PFDA_ISTD	Calibration	7.721	80756	60036	1.3451	1.2791	1.2500	102.3
052325A-0009.d	13C7-PFUnA	13C2-PFDA_ISTD	Calibration	7.721	77316	60591	1.2760	1.2134	1.2500	97.1
052325A-0010.d	13C7-PFUnA	13C2-PFDA_ISTD	Calibration	7.721	74730	58143	1.2853	1.2222	1.2500	97.8
052325A-0011.d	13C7-PFUnA	13C2-PFDA_ISTD	Calibration	7.721	74098	58399	1.2688	1.2065	1.2500	96.5
052325A-0012.d	13C7-PFUnA	13C2-PFDA_ISTD	Blank	7.721	117479	76745	1.5308	1.4556		
052325A-0013.d	13C7-PFUnA	13C2-PFDA_ISTD	QC	7.721	82825	68857	1.2029	1.1438	1.2500	91.5

PFUnA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFUnA	13C7-PFUnA_ISTD	Blank			117136		ND		
052325A-0003.d	PFUnA	13C7-PFUnA_ISTD	Calibration	7.722	5720	81292	0.0704	0.0843	0.1000	84.3
052325A-0004.d	PFUnA	13C7-PFUnA_ISTD	Calibration	7.722	11299	86319	0.1309	0.1567	0.2000	78.4
052325A-0005.d	PFUnA	13C7-PFUnA_ISTD	Calibration	7.722	33632	80339	0.4186	0.5013	0.5000	100.3
052325A-0006.d	PFUnA	13C7-PFUnA_ISTD	Calibration	7.722	153835	81492	1.8877	2.2605	2.5000	90.4
052325A-0007.d	PFUnA	13C7-PFUnA_ISTD	Calibration	7.722	345695	81282	4.2530	5.0928	5.0000	101.9
052325A-0008.d	PFUnA	13C7-PFUnA_ISTD	Calibration	7.722	881484	80756	10.9154	13.0706	12.5000	104.6
052325A-0009.d	PFUnA	13C7-PFUnA_ISTD	Calibration	7.722	1758047	77316	22.7385	27.2281	25.0000	108.9

PFUnA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0010.d	PFUnA	13C7-PFUnA_ISTD	Calibration	7.722	3572202	74730	47.8017	57.2399	50.0000	114.5
052325A-0011.d	PFUnA	13C7-PFUnA_ISTD	Calibration	7.722	4520480	74098	61.0070	73.0526	62.5000	116.9
052325A-0012.d	PFUnA	13C7-PFUnA_ISTD	Blank	7.722	0	117479	0.0000	ND		
052325A-0013.d	PFUnA	13C7-PFUnA_ISTD	QC	7.722	222991	82825	2.6923	3.2239	3.5850	89.9

9Cl-PF3ONS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Blank			41360		ND		
052325A-0003.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Calibration	7.838	20967	30267	0.6927	0.3064	0.3730	82.1
052325A-0004.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Calibration	7.838	46984	29205	1.6087	0.7115	0.7460	95.4
052325A-0005.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Calibration	7.846	126385	27998	4.5141	1.9964	1.8700	106.8
052325A-0006.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Calibration	7.838	574717	27987	20.5353	9.0818	9.3300	97.3
052325A-0007.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Calibration	7.838	1222733	27591	44.3164	19.5992	18.7000	104.8
052325A-0008.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Calibration	7.838	3040496	27474	110.6668	48.9429	46.7000	104.8
052325A-0009.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Calibration	7.838	5555896	24871	223.3873	98.7942	93.3000	105.9
052325A-0010.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Calibration	7.838	10319786	23324	442.4456	195.6738	187.0000	104.6
052325A-0011.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Calibration	7.838	12172788	23515	517.6581	228.9369	233.0000	98.3
052325A-0012.d	9Cl-PF3ONS	13C8-PFOS_ISTD	Blank	7.846	1117	41531	0.0269	0.0119		
052325A-0013.d	9Cl-PF3ONS	13C8-PFOS_ISTD	QC	7.838	1137091	27104	41.9532	18.5540	19.0500	97.4

PFNS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFNS	13C8-PFOS_ISTD	Blank			41360		ND		
052325A-0003.d	PFNS	13C8-PFOS_ISTD	Calibration	7.969	1426	30267	0.0471	0.0911	0.0960	94.9
052325A-0004.d	PFNS	13C8-PFOS_ISTD	Calibration	7.969	2555	29205	0.0875	0.1692	0.1920	88.1
052325A-0005.d	PFNS	13C8-PFOS_ISTD	Calibration	7.977	6723	27998	0.2401	0.4645	0.4800	96.8
052325A-0006.d	PFNS	13C8-PFOS_ISTD	Calibration	7.969	31939	27987	1.1412	2.2075	2.4000	92.0
052325A-0007.d	PFNS	13C8-PFOS_ISTD	Calibration	7.969	66996	27591	2.4282	4.6971	4.8000	97.9
052325A-0008.d	PFNS	13C8-PFOS_ISTD	Calibration	7.969	174757	27474	6.3607	12.3041	12.0000	102.5
052325A-0009.d	PFNS	13C8-PFOS_ISTD	Calibration	7.969	335485	24871	13.4889	26.0928	24.0000	108.7
052325A-0010.d	PFNS	13C8-PFOS_ISTD	Calibration	7.969	632357	23324	27.1114	52.4437	48.0000	109.3
052325A-0011.d	PFNS	13C8-PFOS_ISTD	Calibration	7.969	801089	23515	34.0670	65.8986	60.0000	109.8
052325A-0012.d	PFNS	13C8-PFOS_ISTD	Blank			41531		ND		
052325A-0013.d	PFNS	13C8-PFOS_ISTD	QC	7.969	17224	27104	0.6355	1.2293	1.3600	90.4

13C2-PFDoA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C2-PFDoA	13C2-PFDA_ISTD	Blank	8.138	132343	79055	1.6741	1.3399		
052325A-0003.d	13C2-PFDoA	13C2-PFDA_ISTD	Calibration	8.146	96782	64749	1.4947	1.1964	1.2500	95.7
052325A-0004.d	13C2-PFDoA	13C2-PFDA_ISTD	Calibration	8.146	100448	66823	1.5032	1.2031	1.2500	96.3
052325A-0005.d	13C2-PFDoA	13C2-PFDA_ISTD	Calibration	8.146	93477	55593	1.6814	1.3458	1.2500	107.7
052325A-0006.d	13C2-PFDoA	13C2-PFDA_ISTD	Calibration	8.146	92627	57921	1.5992	1.2800	1.2500	102.4

13C2-PFDoA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0007.d	13C2-PFDoA	13C2-PFDA_ISTD	Calibration	8.146	98762	64702	1.5264	1.2217	1.2500	97.7
052325A-0008.d	13C2-PFDoA	13C2-PFDA_ISTD	Calibration	8.146	93094	60036	1.5506	1.2411	1.2500	99.3
052325A-0009.d	13C2-PFDoA	13C2-PFDA_ISTD	Calibration	8.146	92477	60591	1.5263	1.2216	1.2500	97.7
052325A-0010.d	13C2-PFDoA	13C2-PFDA_ISTD	Calibration	8.146	93550	58143	1.6090	1.2878	1.2500	103.0
052325A-0011.d	13C2-PFDoA	13C2-PFDA_ISTD	Calibration	8.146	91386	58399	1.5649	1.2525	1.2500	100.2
052325A-0012.d	13C2-PFDoA	13C2-PFDA_ISTD	Blank	8.146	134237	76745	1.7491	1.4000		
052325A-0013.d	13C2-PFDoA	13C2-PFDA_ISTD	QC	8.146	94005	68857	1.3652	1.0927	1.2500	87.4

PFDoA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFDoA	13C2-PFDoA_ISTD	Blank			132343		ND		
052325A-0003.d	PFDoA	13C2-PFDoA_ISTD	Calibration	8.146	7278	96782	0.0752	0.0835	0.1000	83.5
052325A-0004.d	PFDoA	13C2-PFDoA_ISTD	Calibration	8.146	15083	100448	0.1502	0.1667	0.2000	83.4
052325A-0005.d	PFDoA	13C2-PFDoA_ISTD	Calibration	8.146	42714	93477	0.4570	0.5073	0.5000	101.5
052325A-0006.d	PFDoA	13C2-PFDoA_ISTD	Calibration	8.146	197564	92627	2.1329	2.3681	2.5000	94.7
052325A-0007.d	PFDoA	13C2-PFDoA_ISTD	Calibration	8.146	453549	98762	4.5924	5.0987	5.0000	102.0
052325A-0008.d	PFDoA	13C2-PFDoA_ISTD	Calibration	8.146	1132542	93094	12.1656	13.5069	12.5000	108.1
052325A-0009.d	PFDoA	13C2-PFDoA_ISTD	Calibration	8.146	2253739	92477	24.3708	27.0578	25.0000	108.2
052325A-0010.d	PFDoA	13C2-PFDoA_ISTD	Calibration	8.146	4513636	93550	48.2481	53.5678	50.0000	107.1
052325A-0011.d	PFDoA	13C2-PFDoA_ISTD	Calibration	8.146	5739815	91386	62.8084	69.7334	62.5000	111.6
052325A-0012.d	PFDoA	13C2-PFDoA_ISTD	Blank	8.138	741	134237	0.0055	0.0061		
052325A-0013.d	PFDoA	13C2-PFDoA_ISTD	QC	8.146	572049	94005	6.0853	6.7562	7.3500	91.9

PFDS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFDS	13C8-PFOS_ISTD	Blank			41360		ND		
052325A-0003.d	PFDS	13C8-PFOS_ISTD	Calibration	8.398	1028	30267	0.0340	0.0808	0.0960	84.1
052325A-0004.d	PFDS	13C8-PFOS_ISTD	Calibration	8.398	2075	29205	0.0710	0.1689	0.1930	87.5
052325A-0005.d	PFDS	13C8-PFOS_ISTD	Calibration	8.406	5525	27998	0.1973	0.4693	0.4820	97.4
052325A-0006.d	PFDS	13C8-PFOS_ISTD	Calibration	8.398	26450	27987	0.9451	2.2474	2.4100	93.3
052325A-0007.d	PFDS	13C8-PFOS_ISTD	Calibration	8.398	57157	27591	2.0716	4.9263	4.8200	102.2
052325A-0008.d	PFDS	13C8-PFOS_ISTD	Calibration	8.398	145705	27474	5.3033	12.6114	12.1000	104.2
052325A-0009.d	PFDS	13C8-PFOS_ISTD	Calibration	8.398	278391	24871	11.1934	26.6181	24.1000	110.4
052325A-0010.d	PFDS	13C8-PFOS_ISTD	Calibration	8.398	528297	23324	22.6499	53.8622	48.2000	111.7
052325A-0011.d	PFDS	13C8-PFOS_ISTD	Calibration	8.398	650503	23515	27.6632	65.7838	60.3000	109.1
052325A-0012.d	PFDS	13C8-PFOS_ISTD	Blank			41531		ND		
052325A-0013.d	PFDS	13C8-PFOS_ISTD	QC	8.398	94568	27104	3.4891	8.2972	8.8500	93.8

PFTrDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFTrDA	13C2-PFDoA_ISTD	Blank			132343		ND		
052325A-0003.d	PFTrDA	13C2-PFDoA_ISTD	Calibration	8.550	8714	96782	0.0900	0.0856	0.1000	85.6

PFTrDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0004.d	PFTrDA	13C2-PFDoA_ISTD	Calibration	8.550	18197	100448	0.1812	0.1722	0.2000	86.1
052325A-0005.d	PFTrDA	13C2-PFDoA_ISTD	Calibration	8.559	50199	93477	0.5370	0.5106	0.5000	102.1
052325A-0006.d	PFTrDA	13C2-PFDoA_ISTD	Calibration	8.559	230242	92627	2.4857	2.3633	2.5000	94.5
052325A-0007.d	PFTrDA	13C2-PFDoA_ISTD	Calibration	8.550	512359	98762	5.1878	4.9325	5.0000	98.6
052325A-0008.d	PFTrDA	13C2-PFDoA_ISTD	Calibration	8.550	1317987	93094	14.1576	13.4607	12.5000	107.7
052325A-0009.d	PFTrDA	13C2-PFDoA_ISTD	Calibration	8.550	2557262	92477	27.6529	26.2917	25.0000	105.2
052325A-0010.d	PFTrDA	13C2-PFDoA_ISTD	Calibration	8.559	5292971	93550	56.5788	53.7938	50.0000	107.6
052325A-0011.d	PFTrDA	13C2-PFDoA_ISTD	Calibration	8.550	6760187	91386	73.9739	70.3326	62.5000	112.5
052325A-0012.d	PFTrDA	13C2-PFDoA_ISTD	Blank	8.550	1409	134237	0.0105	0.0100		
052325A-0013.d	PFTrDA	13C2-PFDoA_ISTD	QC	8.550	582429	94005	6.1957	5.8907	6.1500	95.8

11Cl-PF3OUdS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Blank			41360		ND		
052325A-0003.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Calibration	8.685	14767	30267	0.4879	0.3082	0.3770	81.7
052325A-0004.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Calibration	8.685	31608	29205	1.0823	0.6836	0.7540	90.7
052325A-0005.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Calibration	8.694	89380	27998	3.1924	2.0165	1.8900	106.7
052325A-0006.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Calibration	8.685	402292	27987	14.3743	9.0798	9.4300	96.3
052325A-0007.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Calibration	8.685	895865	27591	32.4695	20.5100	18.9000	108.5
052325A-0008.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Calibration	8.685	2163970	27474	78.7633	49.7523	47.2000	105.4
052325A-0009.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Calibration	8.685	3965188	24871	159.4293	100.7065	94.3000	106.8
052325A-0010.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Calibration	8.685	7318652	23324	313.7764	198.2027	189.0000	104.9
052325A-0011.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Calibration	8.685	8699352	23515	369.9473	233.6841	236.0000	99.0
052325A-0012.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	Blank	8.685	1673	41531	0.0403	0.0254		
052325A-0013.d	11Cl-PF3OUdS	13C8-PFOS_ISTD	QC	8.685	538298	27104	19.8607	12.5454	12.9500	96.9

13C2-PFTeDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C2-PFTeDA	13C2-PFDA_ISTD	Blank	8.928	153090	79055	1.9365	1.3794		
052325A-0003.d	13C2-PFTeDA	13C2-PFDA_ISTD	Calibration	8.936	109689	64749	1.6941	1.2067	1.2500	96.5
052325A-0004.d	13C2-PFTeDA	13C2-PFDA_ISTD	Calibration	8.928	106651	66823	1.5960	1.1369	1.2500	90.9
052325A-0005.d	13C2-PFTeDA	13C2-PFDA_ISTD	Calibration	8.936	103568	55593	1.8630	1.3270	1.2500	106.2
052325A-0006.d	13C2-PFTeDA	13C2-PFDA_ISTD	Calibration	8.936	104298	57921	1.8007	1.2826	1.2500	102.6
052325A-0007.d	13C2-PFTeDA	13C2-PFDA_ISTD	Calibration	8.936	111376	64702	1.7214	1.2261	1.2500	98.1
052325A-0008.d	13C2-PFTeDA	13C2-PFDA_ISTD	Calibration	8.936	107306	60036	1.7874	1.2732	1.2500	101.9
052325A-0009.d	13C2-PFTeDA	13C2-PFDA_ISTD	Calibration	8.936	103593	60591	1.7097	1.2178	1.2500	97.4
052325A-0010.d	13C2-PFTeDA	13C2-PFDA_ISTD	Calibration	8.936	105853	58143	1.8206	1.2968	1.2500	103.7
052325A-0011.d	13C2-PFTeDA	13C2-PFDA_ISTD	Calibration	8.936	105172	58399	1.8009	1.2828	1.2500	102.6
052325A-0012.d	13C2-PFTeDA	13C2-PFDA_ISTD	Blank	8.936	155036	76745	2.0202	1.4390		
052325A-0013.d	13C2-PFTeDA	13C2-PFDA_ISTD	QC	8.936	109224	68857	1.5862	1.1299	1.2500	90.4

PFTeDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFTeDA	13C2-PFTeDA_ISTD	Blank	8.937	405	153090	0.0026	0.0029		
052325A-0003.d	PFTeDA	13C2-PFTeDA_ISTD	Calibration	8.937	7956	109689	0.0725	0.0786	0.1000	78.6
052325A-0004.d	PFTeDA	13C2-PFTeDA_ISTD	Calibration	8.929	17974	106651	0.1685	0.1826	0.2000	91.3
052325A-0005.d	PFTeDA	13C2-PFTeDA_ISTD	Calibration	8.937	49083	103568	0.4739	0.5134	0.5000	102.7
052325A-0006.d	PFTeDA	13C2-PFTeDA_ISTD	Calibration	8.937	229636	104298	2.2017	2.3854	2.5000	95.4
052325A-0007.d	PFTeDA	13C2-PFTeDA_ISTD	Calibration	8.937	514984	111376	4.6238	5.0094	5.0000	100.2
052325A-0008.d	PFTeDA	13C2-PFTeDA_ISTD	Calibration	8.937	1315278	107306	12.2573	13.2795	12.5000	106.2
052325A-0009.d	PFTeDA	13C2-PFTeDA_ISTD	Calibration	8.937	2609479	103593	25.1898	27.2905	25.0000	109.2
052325A-0010.d	PFTeDA	13C2-PFTeDA_ISTD	Calibration	8.937	5202403	105853	49.1473	53.2460	50.0000	106.5
052325A-0011.d	PFTeDA	13C2-PFTeDA_ISTD	Calibration	8.937	6670728	105172	63.4267	68.7163	62.5000	109.9
052325A-0012.d	PFTeDA	13C2-PFTeDA_ISTD	Blank	8.937	2461	155036	0.0159	0.0172		
052325A-0013.d	PFTeDA	13C2-PFTeDA_ISTD	QC	8.937	449388	109224	4.1144	4.4575	4.8350	92.2

13C8-PFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	13C8-PFOSA	13C4-PFOS_ISTD	Blank	8.959	56811	37883	1.4997	2.6667		
052325A-0003.d	13C8-PFOSA	13C4-PFOS_ISTD	Calibration	8.959	40502	30068	1.3470	2.3953	2.5000	95.8
052325A-0004.d	13C8-PFOSA	13C4-PFOS_ISTD	Calibration	8.959	41949	30739	1.3647	2.4267	2.5000	97.1
052325A-0005.d	13C8-PFOSA	13C4-PFOS_ISTD	Calibration	8.959	38678	26189	1.4769	2.6262	2.5000	105.0
052325A-0006.d	13C8-PFOSA	13C4-PFOS_ISTD	Calibration	8.959	39417	28147	1.4004	2.4902	2.5000	99.6
052325A-0007.d	13C8-PFOSA	13C4-PFOS_ISTD	Calibration	8.959	41017	29954	1.3693	2.4350	2.5000	97.4
052325A-0008.d	13C8-PFOSA	13C4-PFOS_ISTD	Calibration	8.959	38489	27615	1.3938	2.4784	2.5000	99.1
052325A-0009.d	13C8-PFOSA	13C4-PFOS_ISTD	Calibration	8.959	36836	27270	1.3508	2.4020	2.5000	96.1
052325A-0010.d	13C8-PFOSA	13C4-PFOS_ISTD	Calibration	8.959	35011	24618	1.4222	2.5290	2.5000	101.2
052325A-0011.d	13C8-PFOSA	13C4-PFOS_ISTD	Calibration	8.959	35788	23421	1.5281	2.7172	2.5000	108.7
052325A-0012.d	13C8-PFOSA	13C4-PFOS_ISTD	Blank	8.959	56067	36878	1.5203	2.7035		
052325A-0013.d	13C8-PFOSA	13C4-PFOS_ISTD	QC	8.959	39624	30517	1.2985	2.3089	2.5000	92.4

PFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFOSA	13C8-PFOSA_ISTD	Blank			56811		ND		
052325A-0003.d	PFOSA	13C8-PFOSA_ISTD	Calibration	8.899	1495	40502	0.0369	0.0839	0.1000	83.9
052325A-0004.d	PFOSA	13C8-PFOSA_ISTD	Calibration	8.899	3257	41949	0.0776	0.1765	0.2000	88.3
052325A-0005.d	PFOSA	13C8-PFOSA_ISTD	Calibration	8.899	8679	38678	0.2244	0.5101	0.5000	102.0
052325A-0006.d	PFOSA	13C8-PFOSA_ISTD	Calibration	8.899	38866	39417	0.9860	2.2416	2.5000	89.7
052325A-0007.d	PFOSA	13C8-PFOSA_ISTD	Calibration	8.899	85301	41017	2.0797	4.7280	5.0000	94.6
052325A-0008.d	PFOSA	13C8-PFOSA_ISTD	Calibration	8.899	224305	38489	5.8278	13.2491	12.5000	106.0
052325A-0009.d	PFOSA	13C8-PFOSA_ISTD	Calibration	8.899	436821	36836	11.8585	26.9596	25.0000	107.8
052325A-0010.d	PFOSA	13C8-PFOSA_ISTD	Calibration	8.899	884842	35011	25.2730	57.4566	50.0000	114.9
052325A-0011.d	PFOSA	13C8-PFOSA_ISTD	Calibration	8.899	1110017	35788	31.0161	70.5133	62.5000	112.8
052325A-0012.d	PFOSA	13C8-PFOSA_ISTD	Blank			56067		ND		

PFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0013.d	PFOSA	13C8-PFOSA_ISTD	QC	8.899	63580	39624	1.6046	3.6479	3.6650	99.5

PFDoS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	PFDoS	13C8-PFOS_ISTD	Blank			41360		ND		
052325A-0003.d	PFDoS	13C8-PFOS_ISTD	Calibration	9.163	640	30267	0.0211	0.0748	0.0970	77.1
052325A-0004.d	PFDoS	13C8-PFOS_ISTD	Calibration	9.163	1467	29205	0.0502	0.1777	0.1940	91.6
052325A-0005.d	PFDoS	13C8-PFOS_ISTD	Calibration	9.171	3726	27998	0.1331	0.4707	0.4840	97.3
052325A-0006.d	PFDoS	13C8-PFOS_ISTD	Calibration	9.171	17799	27987	0.6360	2.2497	2.4200	93.0
052325A-0007.d	PFDoS	13C8-PFOS_ISTD	Calibration	9.171	39280	27591	1.4236	5.0361	4.8400	104.1
052325A-0008.d	PFDoS	13C8-PFOS_ISTD	Calibration	9.171	98814	27474	3.5966	12.7228	12.1000	105.1
052325A-0009.d	PFDoS	13C8-PFOS_ISTD	Calibration	9.171	188222	24871	7.5679	26.7710	24.2000	110.6
052325A-0010.d	PFDoS	13C8-PFOS_ISTD	Calibration	9.171	355645	23324	15.2478	53.9382	48.4000	111.4
052325A-0011.d	PFDoS	13C8-PFOS_ISTD	Calibration	9.171	441744	23515	18.7855	66.4529	60.5000	109.8
052325A-0012.d	PFDoS	13C8-PFOS_ISTD	Blank			41531		ND		
052325A-0013.d	PFDoS	13C8-PFOS_ISTD	QC	9.171	69220	27104	2.5539	9.0343	9.3000	97.1

D7-NMeFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	D7-NMeFOSE	13C4-PFOS_ISTD	Blank	9.957	160115	37883	4.2266	24.5719		
052325A-0003.d	D7-NMeFOSE	13C4-PFOS_ISTD	Calibration	9.957	124771	30068	4.1497	24.1245	25.0000	96.5
052325A-0004.d	D7-NMeFOSE	13C4-PFOS_ISTD	Calibration	9.957	125230	30739	4.0740	23.6848	25.0000	94.7
052325A-0005.d	D7-NMeFOSE	13C4-PFOS_ISTD	Calibration	9.957	115925	26189	4.4265	25.7339	25.0000	102.9
052325A-0006.d	D7-NMeFOSE	13C4-PFOS_ISTD	Calibration	9.957	116807	28147	4.1498	24.1256	25.0000	96.5
052325A-0007.d	D7-NMeFOSE	13C4-PFOS_ISTD	Calibration	9.957	123224	29954	4.1138	23.9162	25.0000	95.7
052325A-0008.d	D7-NMeFOSE	13C4-PFOS_ISTD	Calibration	9.957	118867	27615	4.3044	25.0241	25.0000	100.1
052325A-0009.d	D7-NMeFOSE	13C4-PFOS_ISTD	Calibration	9.957	113439	27270	4.1599	24.1841	25.0000	96.7
052325A-0010.d	D7-NMeFOSE	13C4-PFOS_ISTD	Calibration	9.957	112482	24618	4.5692	26.5635	25.0000	106.3
052325A-0011.d	D7-NMeFOSE	13C4-PFOS_ISTD	Calibration	9.957	111363	23421	4.7549	27.6434	25.0000	110.6
052325A-0012.d	D7-NMeFOSE	13C4-PFOS_ISTD	Blank	9.957	158208	36878	4.2900	24.9406		
052325A-0013.d	D7-NMeFOSE	13C4-PFOS_ISTD	QC	9.957	119998	30517	3.9322	22.8605	25.0000	91.4

NMeFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	NMeFOSE	D7-NMeFOSE_ISTD	Blank			160115		ND		
052325A-0003.d	NMeFOSE	D7-NMeFOSE_ISTD	Calibration	9.899	5152	124771	0.0413	0.8388	1.0000	83.9
052325A-0004.d	NMeFOSE	D7-NMeFOSE_ISTD	Calibration	9.899	10687	125230	0.0853	1.7337	2.0000	86.7
052325A-0005.d	NMeFOSE	D7-NMeFOSE_ISTD	Calibration	9.899	28852	115925	0.2489	5.0561	5.0000	101.1
052325A-0006.d	NMeFOSE	D7-NMeFOSE_ISTD	Calibration	9.899	135753	116807	1.1622	23.6098	25.0000	94.4
052325A-0007.d	NMeFOSE	D7-NMeFOSE_ISTD	Calibration	9.899	298797	123224	2.4248	49.2597	50.0000	98.5
052325A-0008.d	NMeFOSE	D7-NMeFOSE_ISTD	Calibration	9.899	770592	118867	6.4828	131.6958	125.0000	105.4
052325A-0009.d	NMeFOSE	D7-NMeFOSE_ISTD	Calibration	9.899	1511668	113439	13.3258	270.7105	250.0000	108.3

NMeFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0010.d	NMeFOSE	D7-NMeFOSE_ISTD	Calibration	9.899	3045022	112482	27.0711	549.9420	500.0000	110.0
052325A-0011.d	NMeFOSE	D7-NMeFOSE_ISTD	Calibration	9.899	3828129	111363	34.3751	698.3203	625.0000	111.7
052325A-0012.d	NMeFOSE	D7-NMeFOSE_ISTD	Blank	9.983	2305	158208	0.0146	0.2960		
052325A-0013.d	NMeFOSE	D7-NMeFOSE_ISTD	QC	9.899	42297	119998	0.3525	7.1606	7.5000	95.5

D3-NMeFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	D3-NMeFOSA	13C4-PFOS_ISTD	Blank	10.118	17499	37883	0.4619	2.5782		
052325A-0003.d	D3-NMeFOSA	13C4-PFOS_ISTD	Calibration	10.118	12877	30068	0.4283	2.3902	2.5000	95.6
052325A-0004.d	D3-NMeFOSA	13C4-PFOS_ISTD	Calibration	10.118	12787	30739	0.4160	2.3217	2.5000	92.9
052325A-0005.d	D3-NMeFOSA	13C4-PFOS_ISTD	Calibration	10.118	12044	26189	0.4599	2.5667	2.5000	102.7
052325A-0006.d	D3-NMeFOSA	13C4-PFOS_ISTD	Calibration	10.118	11990	28147	0.4260	2.3774	2.5000	95.1
052325A-0007.d	D3-NMeFOSA	13C4-PFOS_ISTD	Calibration	10.118	12845	29954	0.4288	2.3934	2.5000	95.7
052325A-0008.d	D3-NMeFOSA	13C4-PFOS_ISTD	Calibration	10.126	12071	27615	0.4371	2.4397	2.5000	97.6
052325A-0009.d	D3-NMeFOSA	13C4-PFOS_ISTD	Calibration	10.118	11909	27270	0.4367	2.4373	2.5000	97.5
052325A-0010.d	D3-NMeFOSA	13C4-PFOS_ISTD	Calibration	10.118	11742	24618	0.4770	2.6621	2.5000	106.5
052325A-0011.d	D3-NMeFOSA	13C4-PFOS_ISTD	Calibration	10.118	12217	23421	0.5216	2.9114	2.5000	116.5
052325A-0012.d	D3-NMeFOSA	13C4-PFOS_ISTD	Blank	10.118	16759	36878	0.4544	2.5364		
052325A-0013.d	D3-NMeFOSA	13C4-PFOS_ISTD	QC	10.118	12031	30517	0.3943	2.2005	2.5000	88.0

NMeFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	NMeFOSA	D3-NMeFOSA_ISTD	Blank			17499		ND		
052325A-0003.d	NMeFOSA	D3-NMeFOSA_ISTD	Calibration	10.073	523	12877	0.0406	0.0853	0.1000	85.3
052325A-0004.d	NMeFOSA	D3-NMeFOSA_ISTD	Calibration	10.073	1138	12787	0.0890	0.1870	0.2000	93.5
052325A-0005.d	NMeFOSA	D3-NMeFOSA_ISTD	Calibration	10.073	2817	12044	0.2339	0.4914	0.5000	98.3
052325A-0006.d	NMeFOSA	D3-NMeFOSA_ISTD	Calibration	10.073	13049	11990	1.0883	2.2864	2.5000	91.5
052325A-0007.d	NMeFOSA	D3-NMeFOSA_ISTD	Calibration	10.073	29801	12845	2.3201	4.8742	5.0000	97.5
052325A-0008.d	NMeFOSA	D3-NMeFOSA_ISTD	Calibration	10.073	76519	12071	6.3390	13.3175	12.5000	106.5
052325A-0009.d	NMeFOSA	D3-NMeFOSA_ISTD	Calibration	10.073	151860	11909	12.7522	26.7908	25.0000	107.2
052325A-0010.d	NMeFOSA	D3-NMeFOSA_ISTD	Calibration	10.073	313184	11742	26.6718	56.0342	50.0000	112.1
052325A-0011.d	NMeFOSA	D3-NMeFOSA_ISTD	Calibration	10.073	393188	12217	32.1829	67.6123	62.5000	108.2
052325A-0012.d	NMeFOSA	D3-NMeFOSA_ISTD	Blank			16759		ND		
052325A-0013.d	NMeFOSA	D3-NMeFOSA_ISTD	QC	10.073	30520	12031	2.5367	5.3292	6.0000	88.8

NEtFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	NEtFOSE	D9-NEtFOSE_ISTD	Blank			185774		ND		
052325A-0003.d	NEtFOSE	D9-NEtFOSE_ISTD	Calibration	10.249	6111	136925	0.0446	0.8237	1.0000	82.4
052325A-0004.d	NEtFOSE	D9-NEtFOSE_ISTD	Calibration	10.249	13227	142103	0.0931	1.7179	2.0000	85.9
052325A-0005.d	NEtFOSE	D9-NEtFOSE_ISTD	Calibration	10.249	36282	130656	0.2777	5.1253	5.0000	102.5
052325A-0006.d	NEtFOSE	D9-NEtFOSE_ISTD	Calibration	10.249	165708	132513	1.2505	23.0805	25.0000	92.3

NEtFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0007.d	NEtFOSE	D9-NEtFOSE_ISTD	Calibration	10.249	368102	132977	2.7682	51.0919	50.0000	102.2
052325A-0008.d	NEtFOSE	D9-NEtFOSE_ISTD	Calibration	10.249	948403	133632	7.0971	130.9922	125.0000	104.8
052325A-0009.d	NEtFOSE	D9-NEtFOSE_ISTD	Calibration	10.249	1827518	123407	14.8089	273.3281	250.0000	109.3
052325A-0010.d	NEtFOSE	D9-NEtFOSE_ISTD	Calibration	10.249	3717002	124810	29.7812	549.6721	500.0000	109.9
052325A-0011.d	NEtFOSE	D9-NEtFOSE_ISTD	Calibration	10.249	4588573	122456	37.4713	691.6087	625.0000	110.7
052325A-0012.d	NEtFOSE	D9-NEtFOSE_ISTD	Blank	10.303	3042	182372	0.0167	0.3078		
052325A-0013.d	NEtFOSE	D9-NEtFOSE_ISTD	QC	10.249	38728	132872	0.2915	5.3796	5.5000	97.8

D9-NEtFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	D9-NEtFOSE	13C4-PFOS_ISTD	Blank	10.277	185774	37883	4.9039	25.6745		
052325A-0003.d	D9-NEtFOSE	13C4-PFOS_ISTD	Calibration	10.277	136925	30068	4.5539	23.8417	25.0000	95.4
052325A-0004.d	D9-NEtFOSE	13C4-PFOS_ISTD	Calibration	10.277	142103	30739	4.6229	24.2031	25.0000	96.8
052325A-0005.d	D9-NEtFOSE	13C4-PFOS_ISTD	Calibration	10.277	130656	26189	4.9890	26.1196	25.0000	104.5
052325A-0006.d	D9-NEtFOSE	13C4-PFOS_ISTD	Calibration	10.277	132513	28147	4.7079	24.6479	25.0000	98.6
052325A-0007.d	D9-NEtFOSE	13C4-PFOS_ISTD	Calibration	10.277	132977	29954	4.4395	23.2426	25.0000	93.0
052325A-0008.d	D9-NEtFOSE	13C4-PFOS_ISTD	Calibration	10.277	133632	27615	4.8390	25.3346	25.0000	101.3
052325A-0009.d	D9-NEtFOSE	13C4-PFOS_ISTD	Calibration	10.277	123407	27270	4.5254	23.6928	25.0000	94.8
052325A-0010.d	D9-NEtFOSE	13C4-PFOS_ISTD	Calibration	10.277	124810	24618	5.0700	26.5437	25.0000	106.2
052325A-0011.d	D9-NEtFOSE	13C4-PFOS_ISTD	Calibration	10.277	122456	23421	5.2286	27.3739	25.0000	109.5
052325A-0012.d	D9-NEtFOSE	13C4-PFOS_ISTD	Blank	10.286	182372	36878	4.9453	25.8907		
052325A-0013.d	D9-NEtFOSE	13C4-PFOS_ISTD	QC	10.277	132872	30517	4.3541	22.7956	25.0000	91.2

D5-NEtFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	D5-NEtFOSA	13C4-PFOS_ISTD	Blank	10.405	21269	37883	0.5614	2.6067		
052325A-0003.d	D5-NEtFOSA	13C4-PFOS_ISTD	Calibration	10.405	16082	30068	0.5349	2.4833	2.5000	99.3
052325A-0004.d	D5-NEtFOSA	13C4-PFOS_ISTD	Calibration	10.405	15766	30739	0.5129	2.3813	2.5000	95.3
052325A-0005.d	D5-NEtFOSA	13C4-PFOS_ISTD	Calibration	10.405	14896	26189	0.5688	2.6408	2.5000	105.6
052325A-0006.d	D5-NEtFOSA	13C4-PFOS_ISTD	Calibration	10.405	14472	28147	0.5142	2.3872	2.5000	95.5
052325A-0007.d	D5-NEtFOSA	13C4-PFOS_ISTD	Calibration	10.405	15007	29954	0.5010	2.3262	2.5000	93.0
052325A-0008.d	D5-NEtFOSA	13C4-PFOS_ISTD	Calibration	10.405	14843	27615	0.5375	2.4956	2.5000	99.8
052325A-0009.d	D5-NEtFOSA	13C4-PFOS_ISTD	Calibration	10.405	14299	27270	0.5244	2.4346	2.5000	97.4
052325A-0010.d	D5-NEtFOSA	13C4-PFOS_ISTD	Calibration	10.405	13992	24618	0.5684	2.6388	2.5000	105.6
052325A-0011.d	D5-NEtFOSA	13C4-PFOS_ISTD	Calibration	10.405	13682	23421	0.5842	2.7123	2.5000	108.5
052325A-0012.d	D5-NEtFOSA	13C4-PFOS_ISTD	Blank	10.405	21245	36878	0.5761	2.6748		
052325A-0013.d	D5-NEtFOSA	13C4-PFOS_ISTD	QC	10.405	14971	30517	0.4906	2.2778	2.5000	91.1

NEtFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0002.d	NEtFOSA	D5-NEtFOSA_ISTD	Blank			21269		ND		
052325A-0003.d	NEtFOSA	D5-NEtFOSA_ISTD	Calibration	10.377	603	16082	0.0375	0.0767	0.1000	76.7

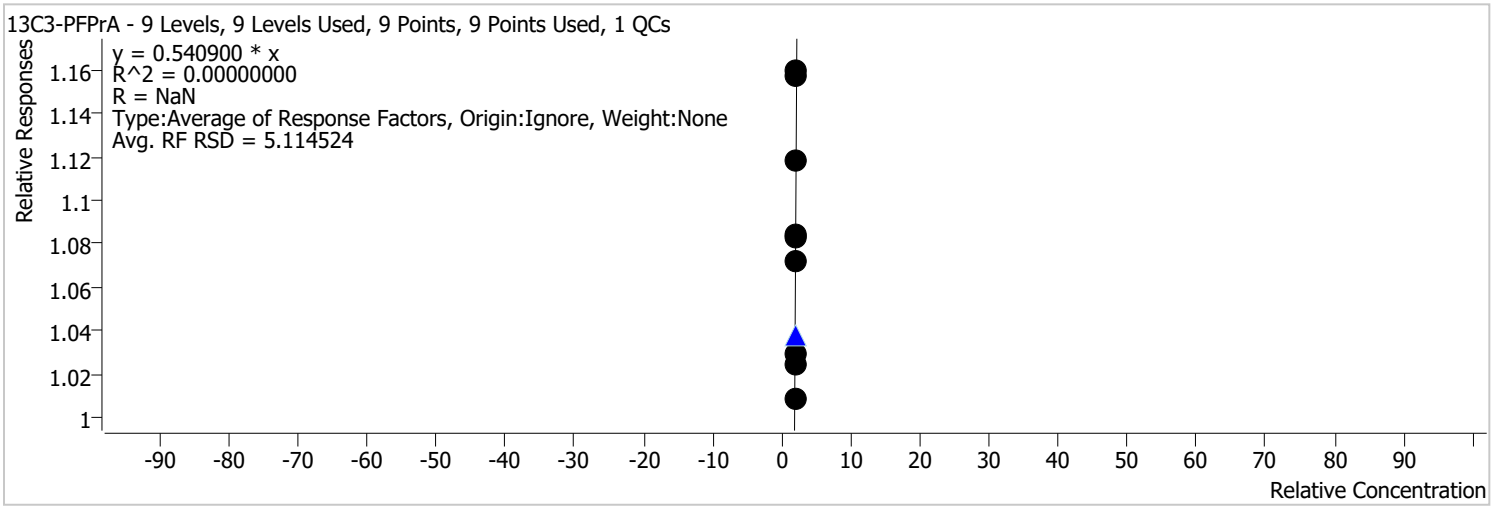
NEtFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
052325A-0004.d	NEtFOSA	D5-NEtFOSA_ISTD	Calibration	10.377	1399	15766	0.0888	0.1814	0.2000	90.7
052325A-0005.d	NEtFOSA	D5-NEtFOSA_ISTD	Calibration	10.377	3571	14896	0.2397	0.4901	0.5000	98.0
052325A-0006.d	NEtFOSA	D5-NEtFOSA_ISTD	Calibration	10.377	16230	14472	1.1215	2.2925	2.5000	91.7
052325A-0007.d	NEtFOSA	D5-NEtFOSA_ISTD	Calibration	10.377	36839	15007	2.4548	5.0177	5.0000	100.4
052325A-0008.d	NEtFOSA	D5-NEtFOSA_ISTD	Calibration	10.377	94125	14843	6.3411	12.9619	12.5000	103.7
052325A-0009.d	NEtFOSA	D5-NEtFOSA_ISTD	Calibration	10.377	188918	14299	13.2117	27.0059	25.0000	108.0
052325A-0010.d	NEtFOSA	D5-NEtFOSA_ISTD	Calibration	10.377	385575	13992	27.5577	56.3305	50.0000	112.7
052325A-0011.d	NEtFOSA	D5-NEtFOSA_ISTD	Calibration	10.377	494390	13682	36.1351	73.8635	62.5000	118.2
052325A-0012.d	NEtFOSA	D5-NEtFOSA_ISTD	Blank			21245		ND		
052325A-0013.d	NEtFOSA	D5-NEtFOSA_ISTD	QC	10.377	26975	14971	1.8018	3.6830	4.0000	92.1

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C3-PFPrA: RSE=5.1

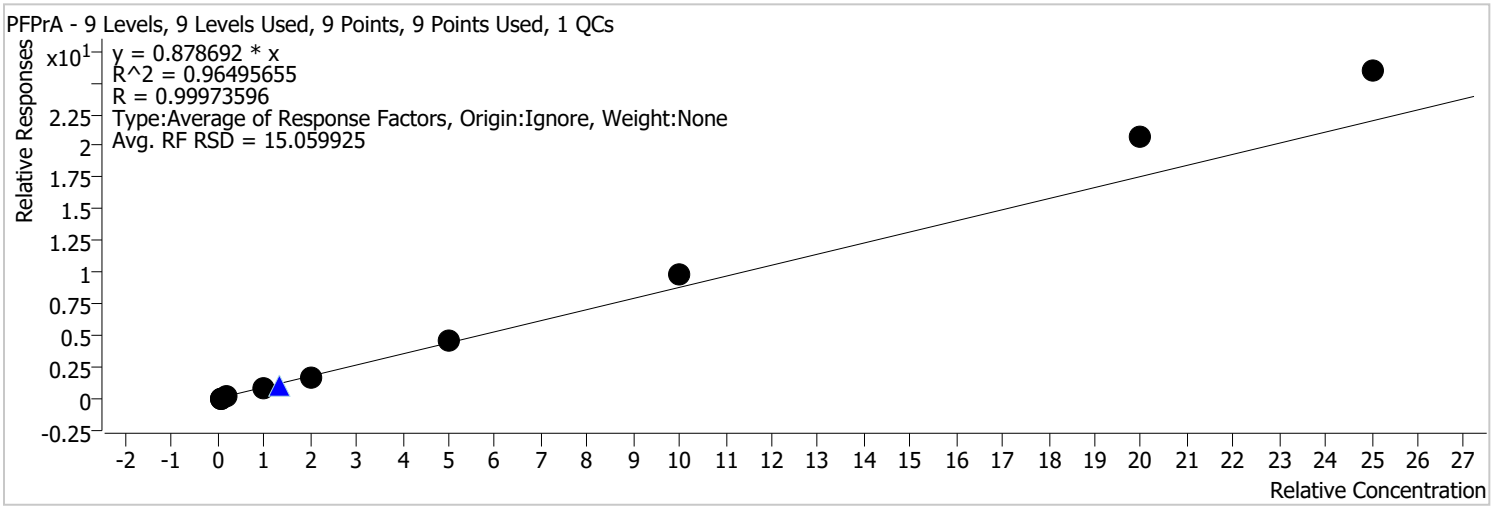


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	95757	10.0000	0.5588
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	94790	10.0000	0.5421
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	84221	10.0000	0.5796
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	86061	10.0000	0.5787
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	89006	10.0000	0.5361
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	82829	10.0000	0.5416
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	74894	10.0000	0.5146
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	67557	10.0000	0.5045
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	65616	10.0000	0.5121
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	85819	10.0000	0.5191

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFPrA: RSE=15.1

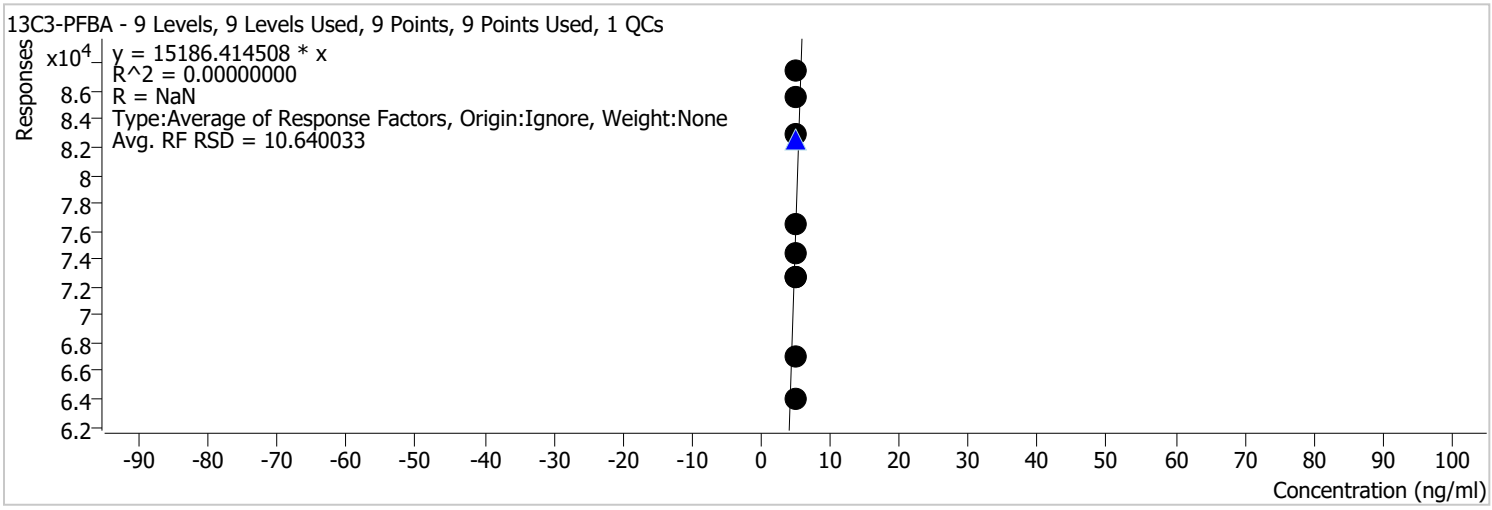


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	2632	0.4000	0.6873
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	5361	0.8000	0.7069
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	14888	2.0000	0.8839
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	67432	10.0000	0.7835
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	93863	13.2000	0.8286
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	153075	20.0000	0.8599
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	382242	50.0000	0.9230
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	740450	100.0000	0.9887
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	1403984	200.0000	1.0391
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	1699349	250.0000	1.0359

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C3-PFBA: RSE=10.6

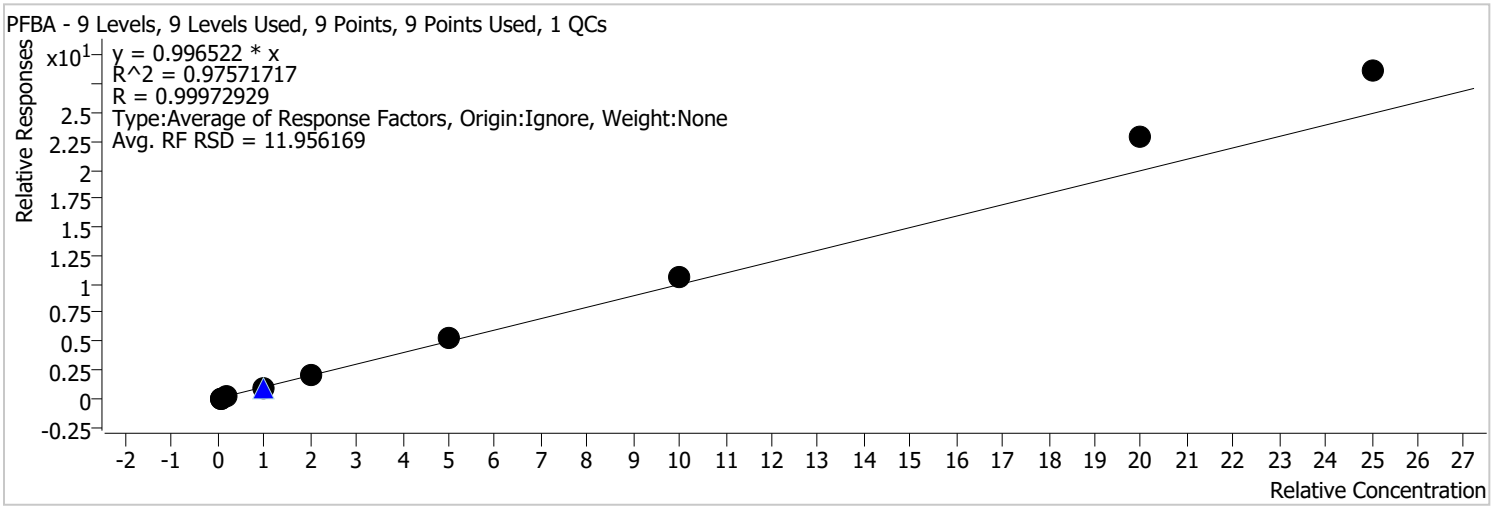


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	85674	5.0000	17134.8330
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	87435	5.0000	17486.9559
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	72648	5.0000	14529.6814
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	74359	5.0000	14871.8926
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	83011	5.0000	16602.1382
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	76472	5.0000	15294.3481
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	72762	5.0000	14552.4835
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	66958	5.0000	13391.5933
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	64069	5.0000	12813.8046
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	82659	5.0000	16531.7984

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFBA: RSE=12.0

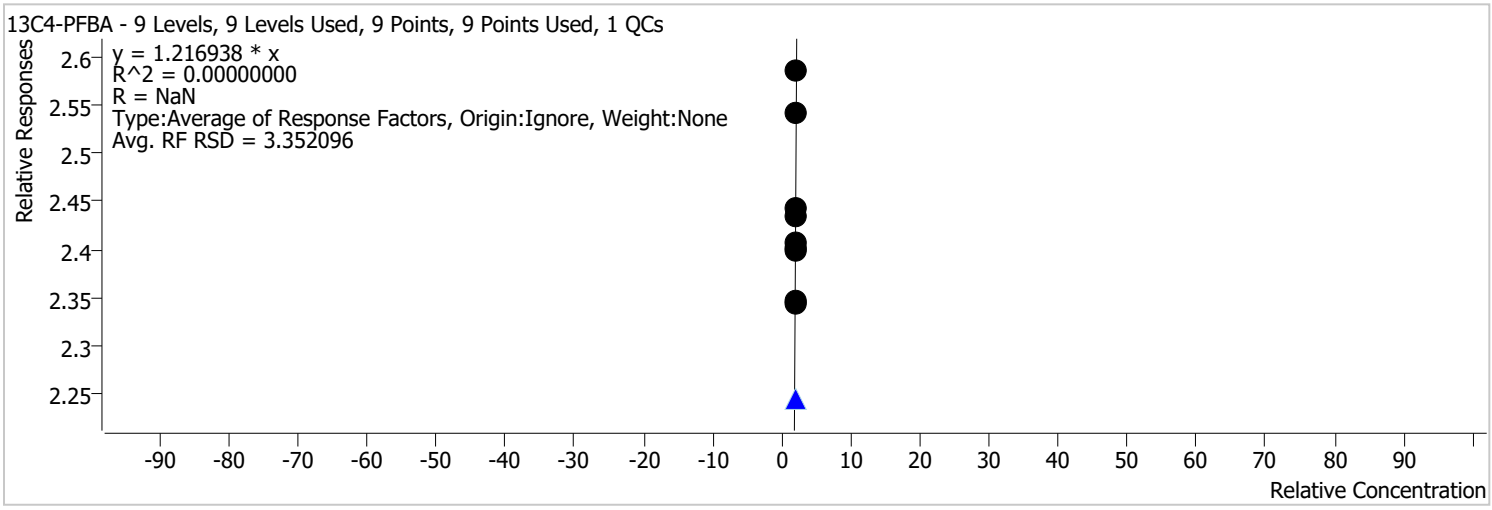


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	6884	0.4000	0.8359
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	13637	0.8000	0.8323
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	37005	2.0000	0.9852
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	159699	9.6000	0.8962
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	170811	10.0000	0.9039
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	388213	20.0000	0.9962
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	972549	50.0000	1.0601
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1874619	100.0000	1.0700
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	3719694	200.0000	1.1405
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	4479111	250.0000	1.1446

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

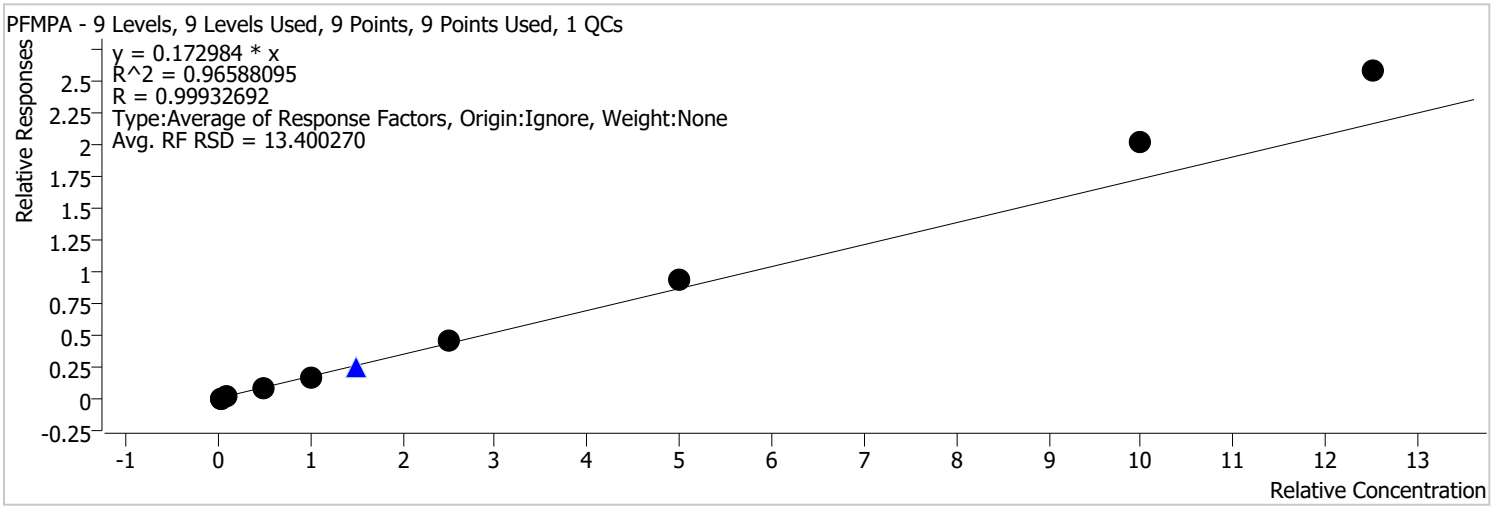
13C4-PFBA: RSE=3.4



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	205869	10.0000	1.2015
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	204808	10.0000	1.1712
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	187806	10.0000	1.2926
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	188980	10.0000	1.2707
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	194843	10.0000	1.1736
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	183475	10.0000	1.1996
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	175201	10.0000	1.2039
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	163071	10.0000	1.2177
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	156535	10.0000	1.2216
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	185613	10.0000	1.1228

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFMPA: RSE=13.4

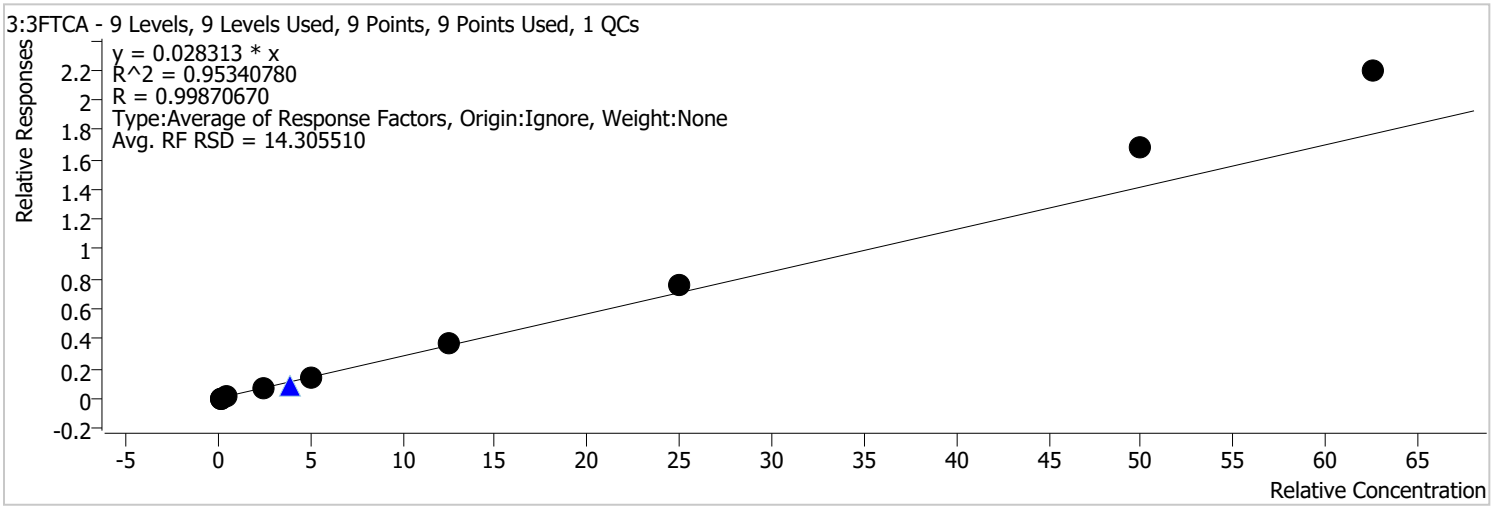


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	576	0.2000	0.1398
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	1219	0.4000	0.1489
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	3365	1.0000	0.1792
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	14399	5.0000	0.1524
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	32084	10.0000	0.1647
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	45093	15.0000	0.1620
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	82117	25.0000	0.1790
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	162779	50.0000	0.1858
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	327803	100.0000	0.2010
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	403297	125.0000	0.2061

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

3:3FTCA: RSE=14.3

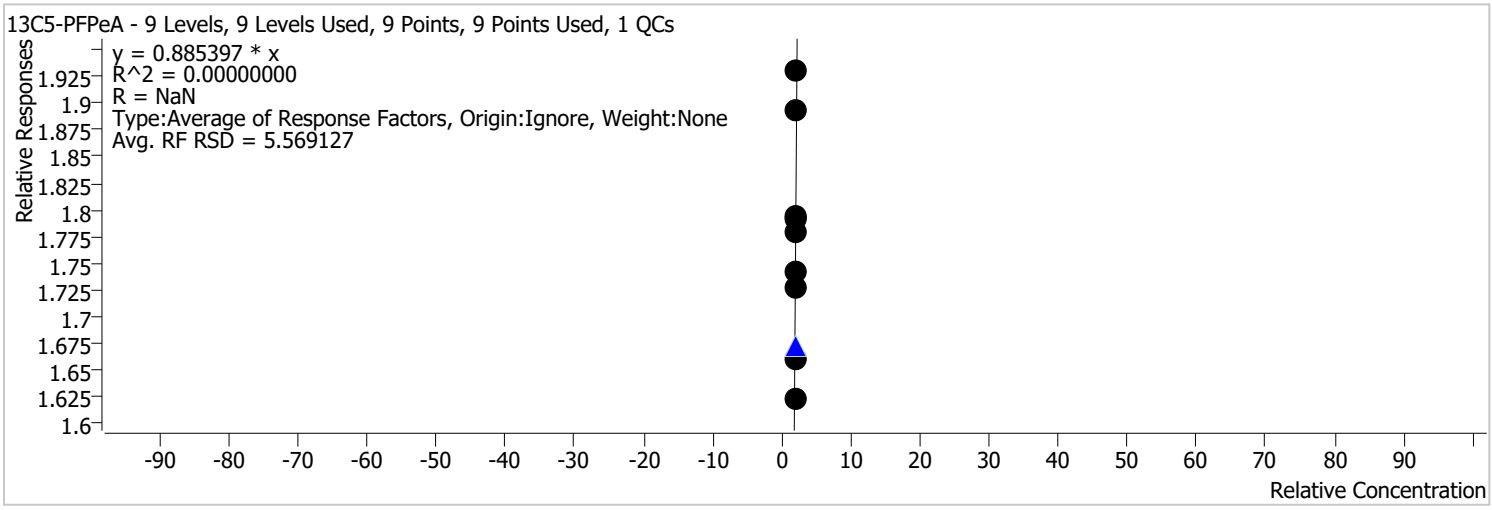


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	367	0.5000	0.0248
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	712	1.0000	0.0237
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	1920	2.5000	0.0276
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	8419	12.5000	0.0243
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	12754	19.6000	0.0237
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	19082	25.0000	0.0264
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	48905	62.5000	0.0291
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	99193	125.0000	0.0304
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	207672	250.0000	0.0335
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	258621	312.5000	0.0351

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

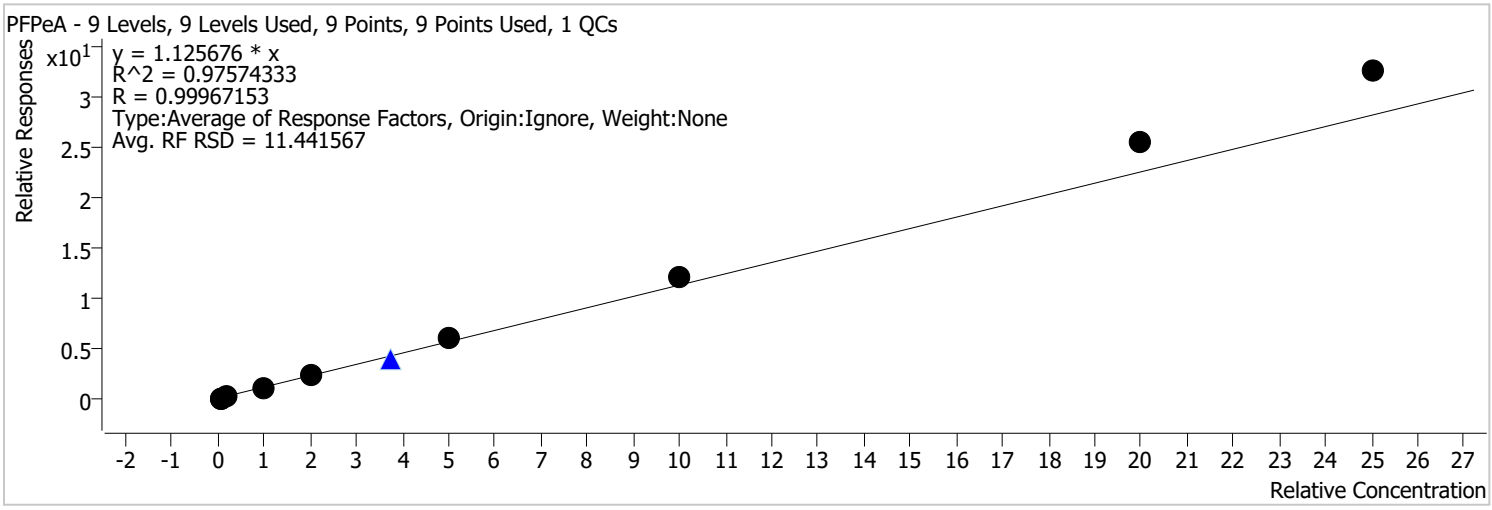
13C5-PFPeA: RSE=5.6



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	148066	5.0000	0.8968
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	150316	5.0000	0.8890
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	138920	5.0000	0.9648
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	138412	5.0000	0.9463
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	144769	5.0000	0.8716
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	134582	5.0000	0.8952
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	130729	5.0000	0.8635
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	123885	5.0000	0.8295
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	118038	5.0000	0.8119
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	137575	5.0000	0.8366

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFPeA: RSE=11.4

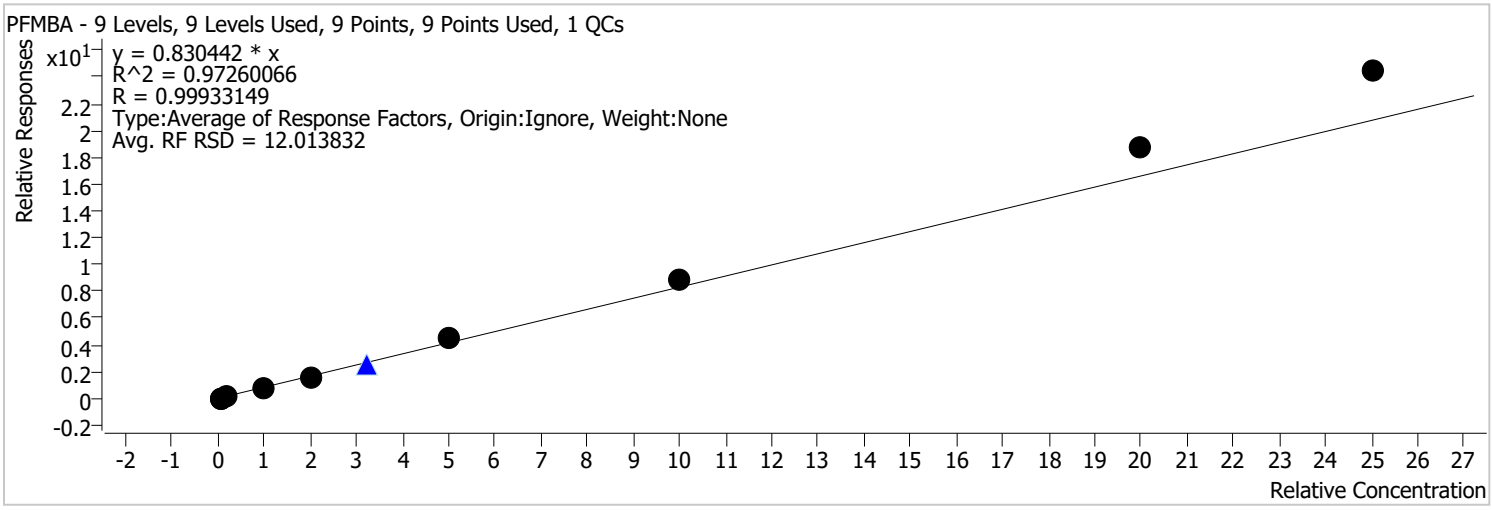


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	5658	0.2000	0.9553
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	11418	0.4000	0.9495
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	30767	1.0000	1.1074
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	142977	5.0000	1.0330
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	322966	10.0000	1.1155
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	526226	18.7500	1.0200
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	797602	25.0000	1.1853
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1580292	50.0000	1.2088
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	3162346	100.0000	1.2763
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	3836488	125.0000	1.3001

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFMBA: RSE=12.0

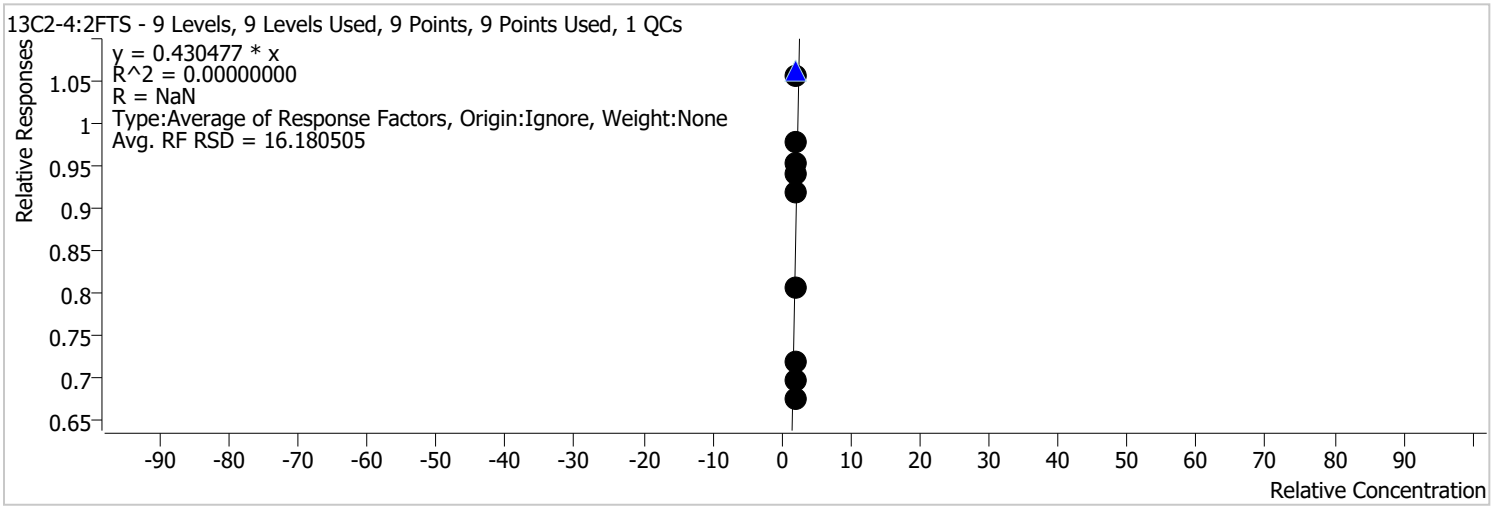


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	4001	0.2000	0.6755
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	8771	0.4000	0.7294
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	22596	1.0000	0.8133
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	103841	5.0000	0.7502
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	237486	10.0000	0.8202
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	350302	16.2500	0.7835
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	596264	25.0000	0.8861
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1162219	50.0000	0.8890
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	2312629	100.0000	0.9334
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	2882721	125.0000	0.9769

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

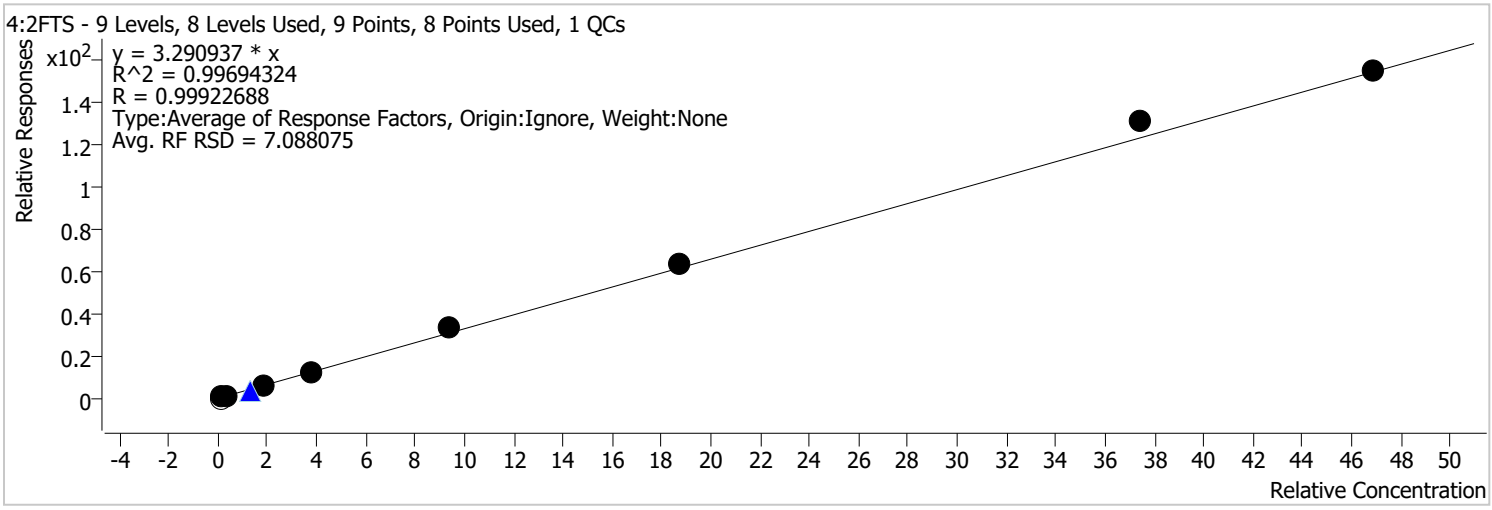
13C2-4:2FTS: RSE=16.2



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	28365	5.0000	0.4709
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	30409	5.0000	0.4770
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	29160	5.0000	0.5279
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	27592	5.0000	0.4900
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	27987	5.0000	0.4598
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	22386	5.0000	0.4031
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	20286	5.0000	0.3485
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	17639	5.0000	0.3381
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	17537	5.0000	0.3588
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	31255	5.0000	0.5310

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

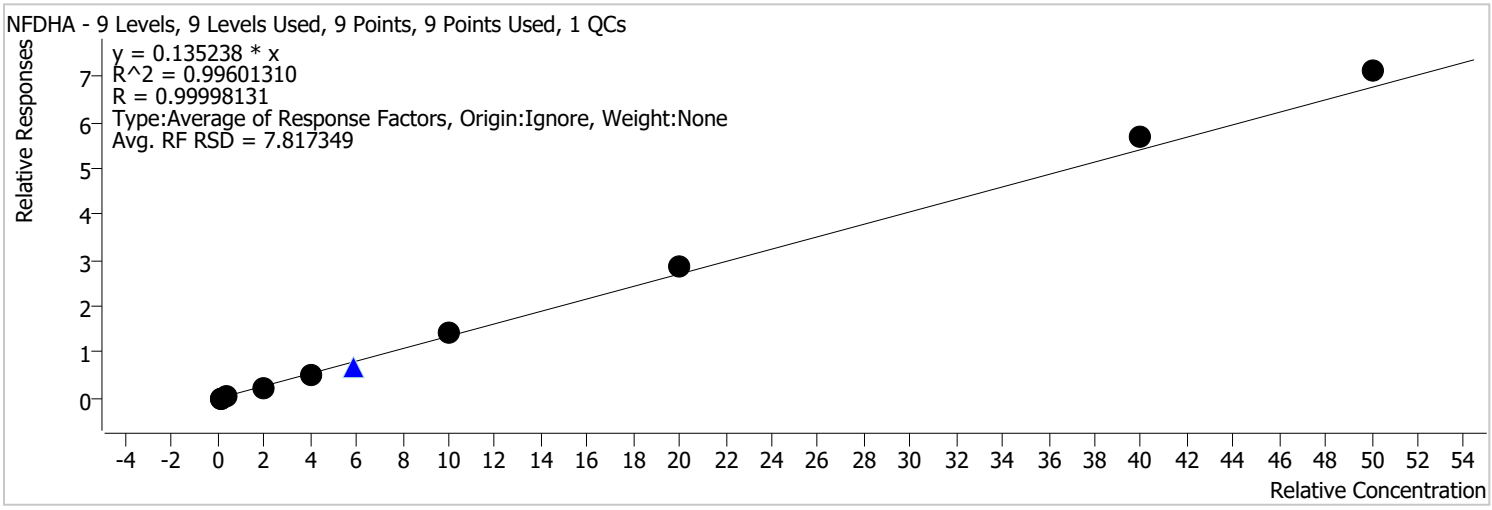
4:2FTS: RSE=7.1



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1		5748	0.3750	2.7022
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	12983	0.7500	2.8463
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	36116	1.8700	3.3116
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	124850	6.5500	3.0493
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	161785	9.3700	3.1288
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	337735	18.7000	3.2266
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	754013	46.9000	3.5908
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1297024	93.7000	3.4117
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	2315091	187.0000	3.5092
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	2710289	234.0000	3.3024

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

NFDHA: RSE=7.8

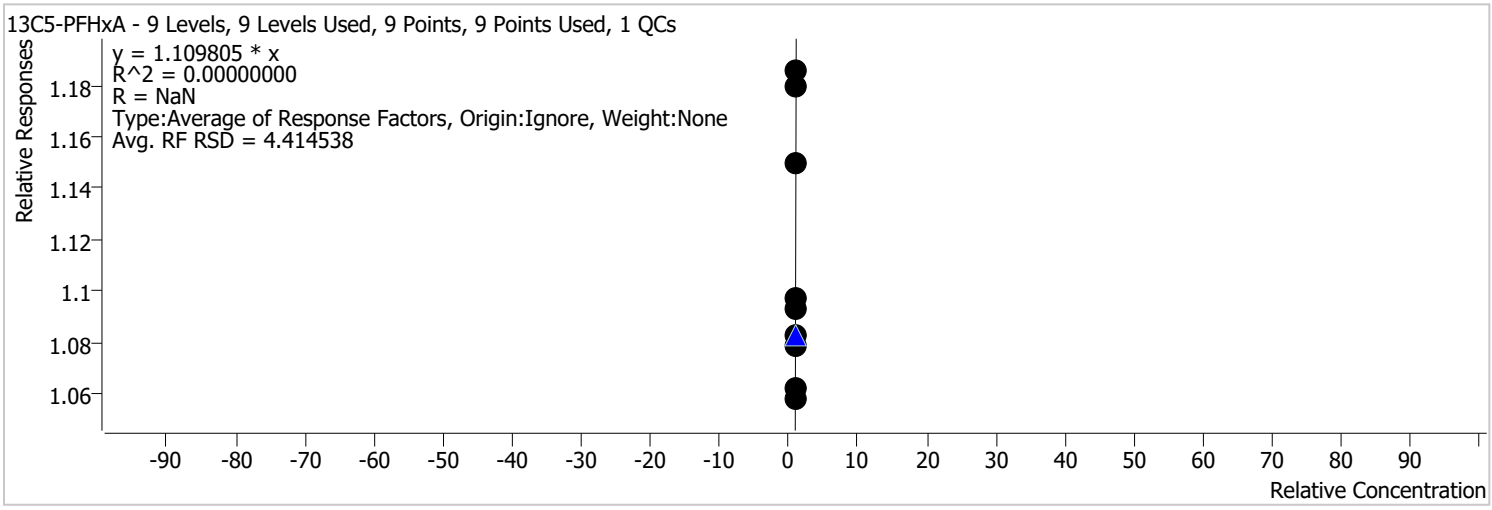


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	943	0.2000	0.1306
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	1663	0.4000	0.1158
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	4939	1.0000	0.1447
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	20957	5.0000	0.1214
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	47266	10.0000	0.1344
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	59125	14.6000	0.1137
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	123830	25.0000	0.1433
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	236439	50.0000	0.1423
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	458951	100.0000	0.1424
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	559560	125.0000	0.1422

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C5-PFHxA: RSE=4.4

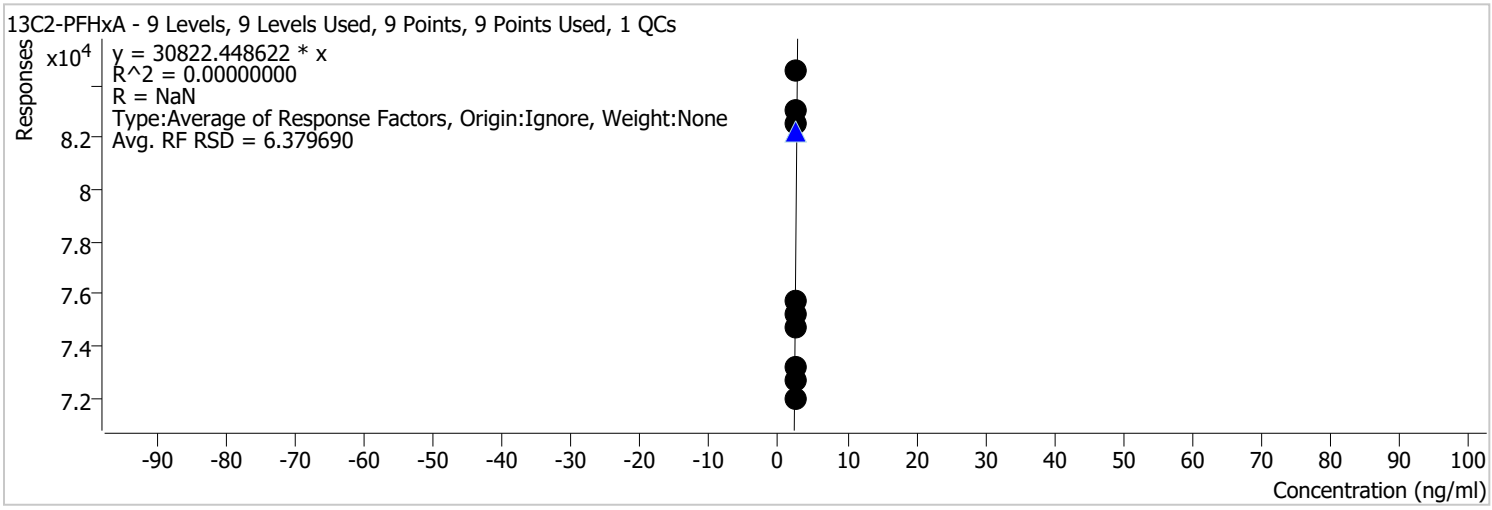


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	90260	2.5000	1.0933
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	89785	2.5000	1.0620
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	85339	2.5000	1.1853
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	86292	2.5000	1.1800
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	87914	2.5000	1.0585
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	86403	2.5000	1.1495
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	83097	2.5000	1.0978
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	80590	2.5000	1.0793
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	78696	2.5000	1.0825
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	89032	2.5000	1.0828

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C2-PFHxA: RSE=6.4

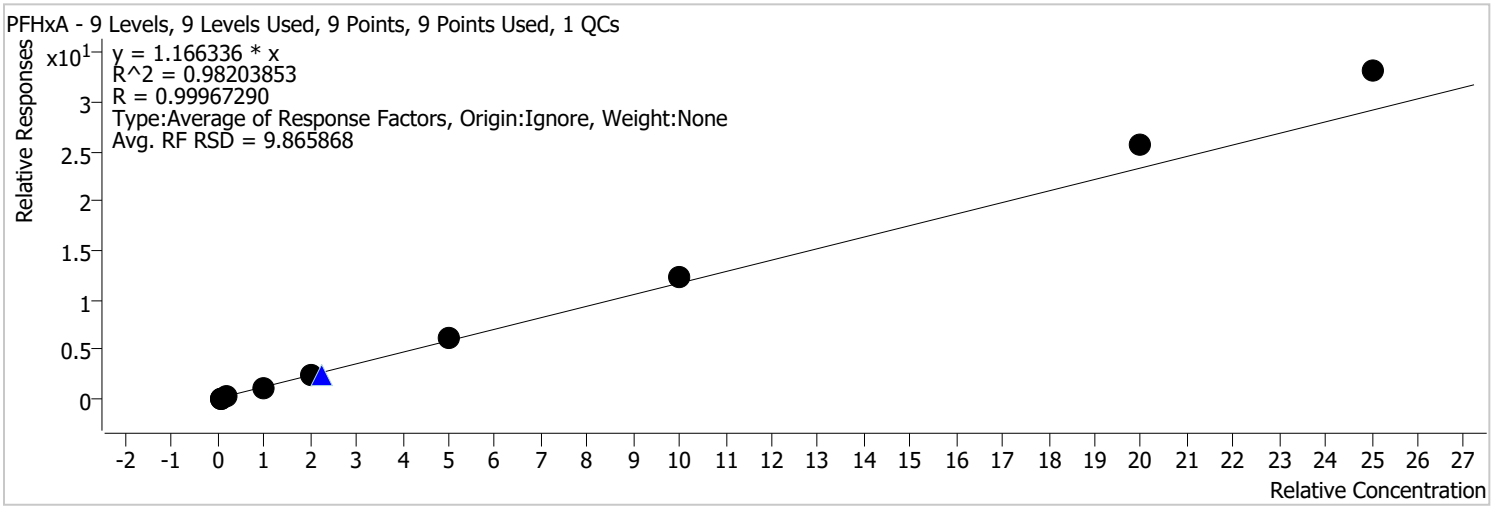


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	82555	2.5000	33021.8302
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	84540	2.5000	33816.0206
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	71995	2.5000	28798.1414
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	73132	2.5000	29252.6080
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	83052	2.5000	33220.9799
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	75168	2.5000	30067.2069
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	75697	2.5000	30278.6680
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	74672	2.5000	29868.6618
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	72695	2.5000	29077.9209
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	82223	2.5000	32889.3635

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFHxA: RSE=9.9

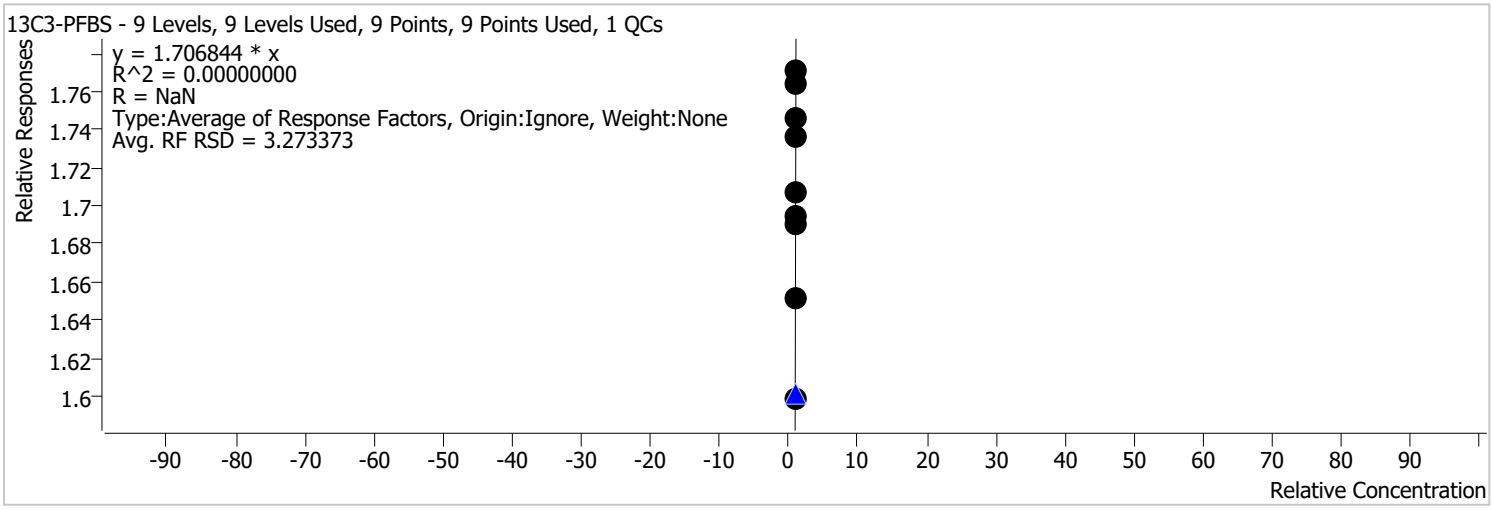


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	3602	0.1000	0.9977
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	7340	0.2000	1.0219
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	20047	0.5000	1.1745
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	92593	2.5000	1.0730
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	203675	5.0000	1.1584
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	203800	5.6500	1.0129
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	528277	12.5000	1.2228
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1028168	25.0000	1.2373
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	2074914	50.0000	1.2873
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	2605047	62.5000	1.3241

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:20 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C3-PFBS: RSE=3.3

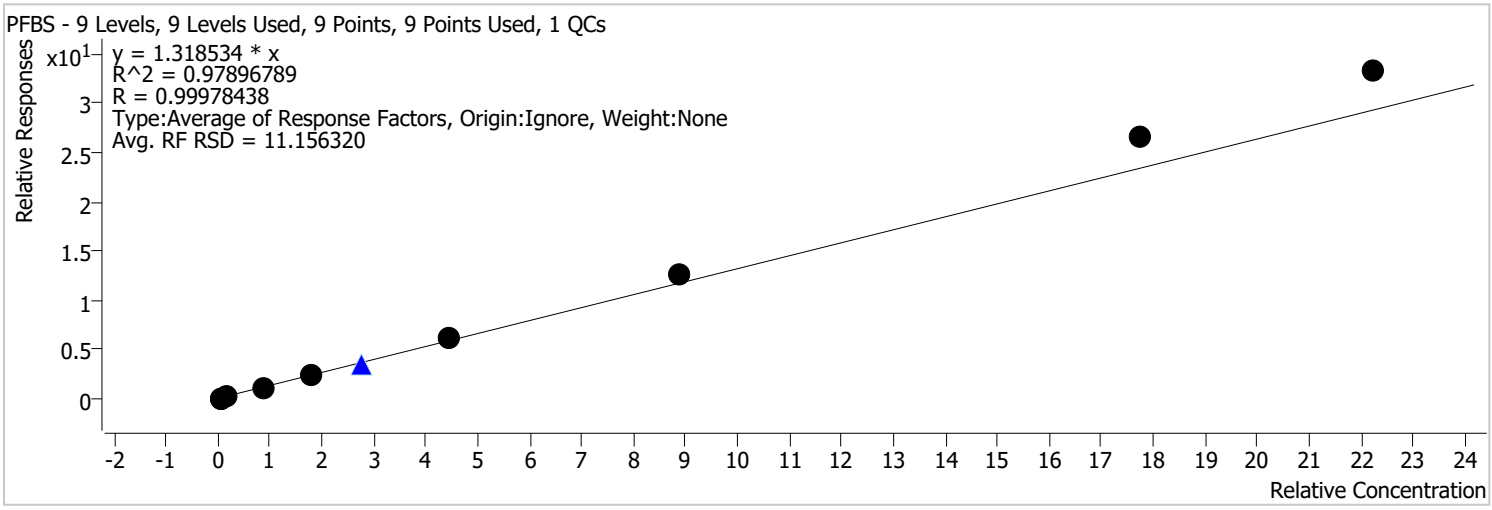


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	51411	2.5000	1.7069
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	53885	2.5000	1.6907
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	48904	2.5000	1.7706
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	49161	2.5000	1.7461
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	51590	2.5000	1.6952
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	48998	2.5000	1.7648
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	46536	2.5000	1.5991
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	43070	2.5000	1.6512
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	42442	2.5000	1.7369
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	47134	2.5000	1.6014

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFBS: RSE=11.2

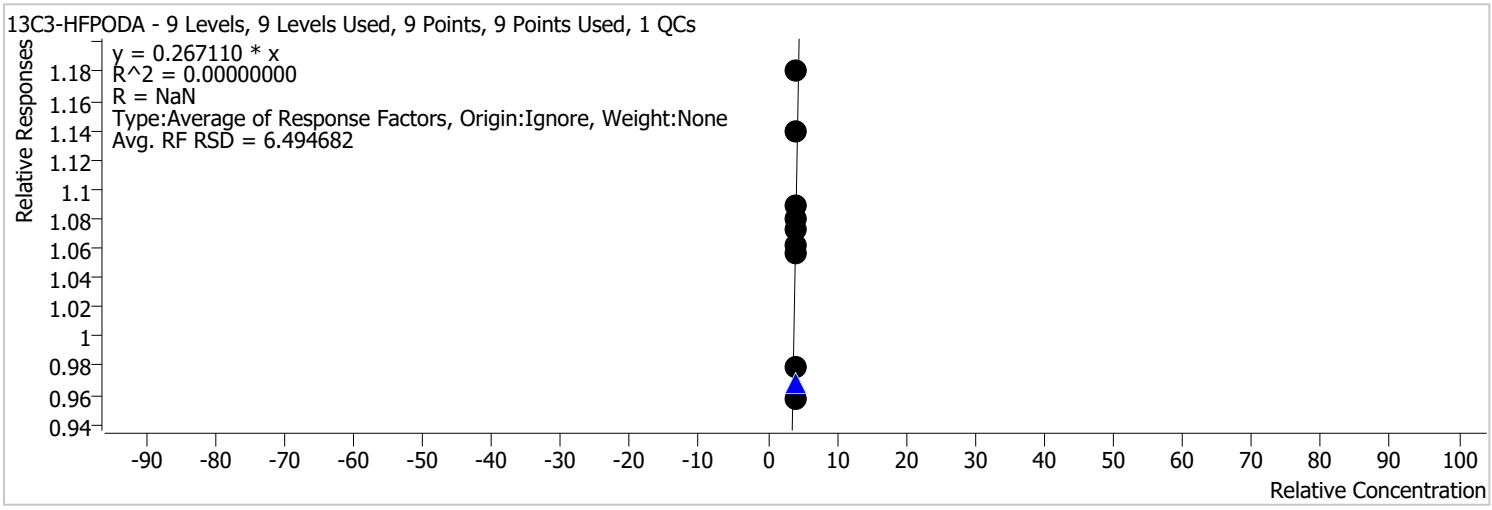


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	2046	0.0890	1.1180
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	4236	0.1780	1.1042
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	11460	0.4440	1.3195
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	53043	2.2200	1.2150
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	121632	4.4400	1.3275
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	164425	6.9000	1.2639
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	298143	11.1000	1.3705
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	586407	22.2000	1.4190
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	1144018	44.4000	1.4956
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	1410907	55.5000	1.4974

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C3-HFPODA: RSE=6.5

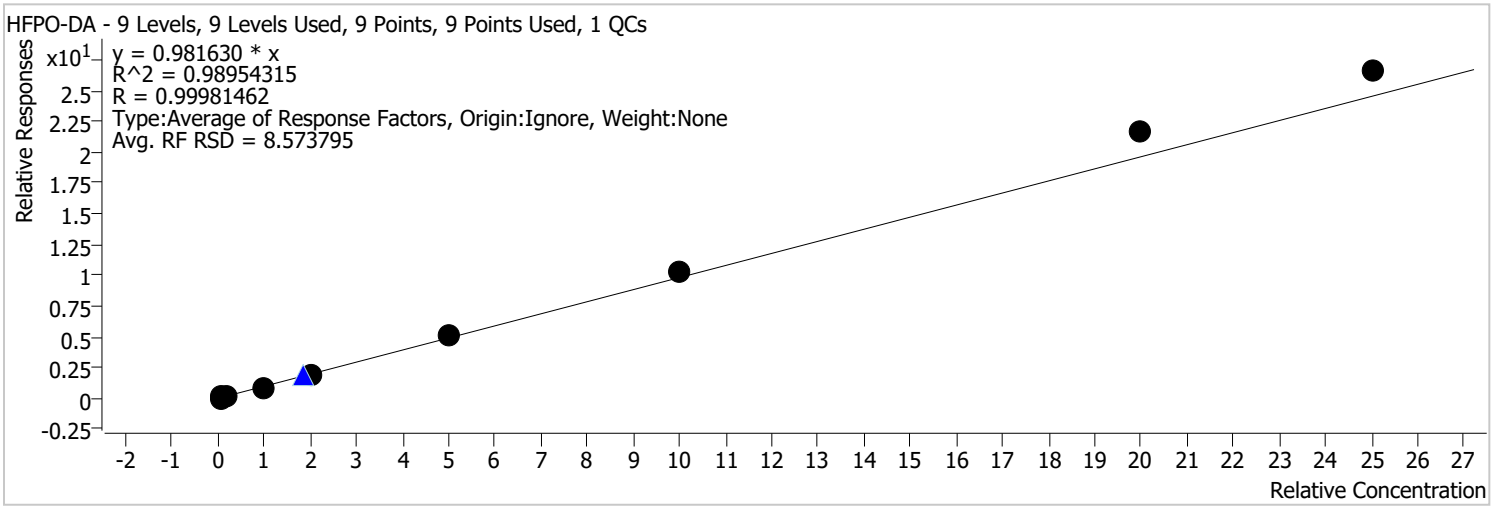


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	89881	10.0000	0.2722
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	91326	10.0000	0.2701
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	84971	10.0000	0.2951
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	83285	10.0000	0.2847
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	87686	10.0000	0.2639
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	79836	10.0000	0.2655
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	81262	10.0000	0.2684
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	73061	10.0000	0.2446
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	69644	10.0000	0.2395
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	79546	10.0000	0.2419

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

HFPO-DA: RSE=8.6

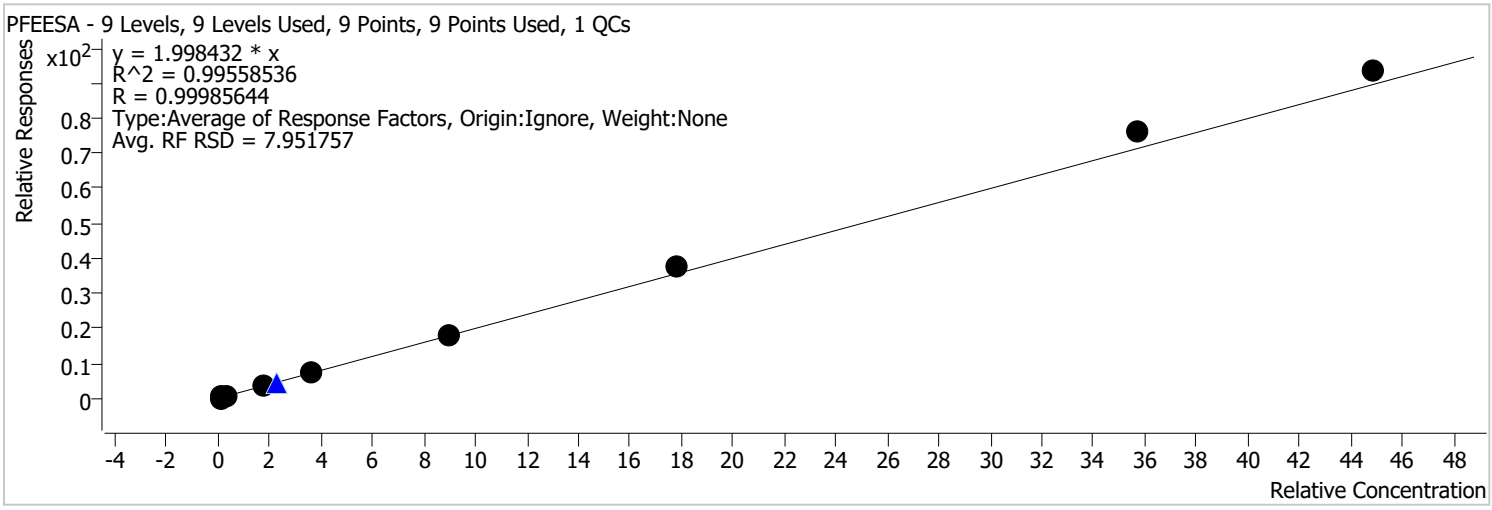


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	2948	0.4000	0.8200
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	6680	0.8000	0.9143
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	16695	2.0000	0.9824
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	77034	10.0000	0.9249
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	143301	18.3500	0.9817
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	171491	20.0000	0.9779
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	417531	50.0000	1.0460
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	831528	100.0000	1.0233
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	1582645	200.0000	1.0831
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	1850574	250.0000	1.0629

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFEESA: RSE=8.0

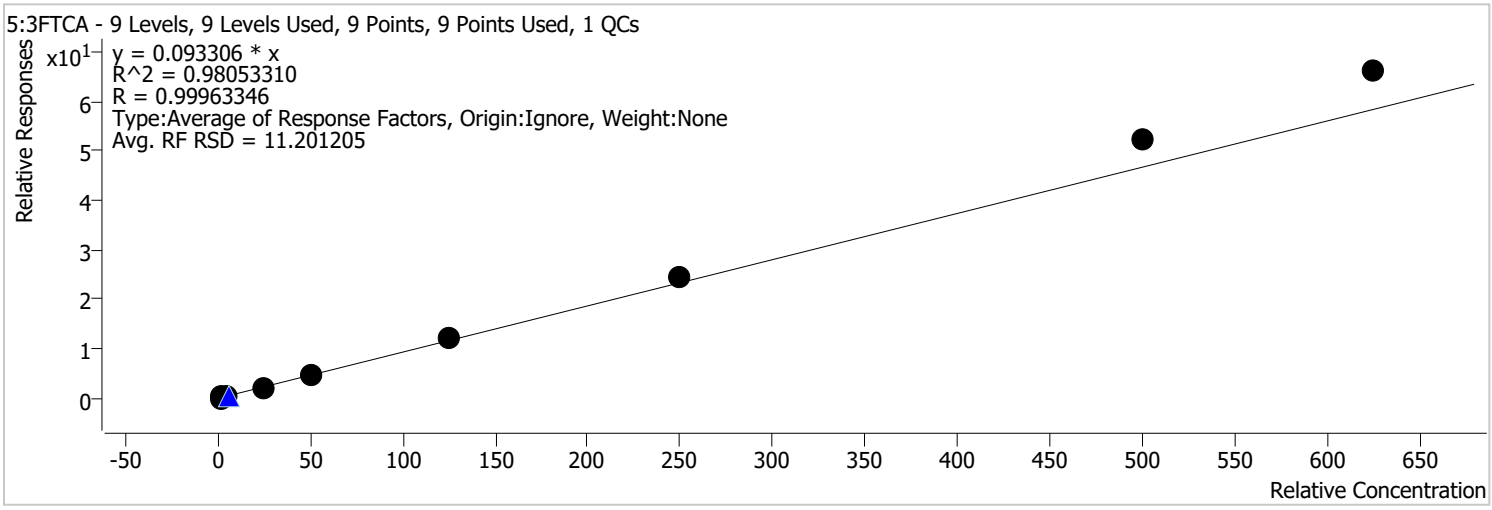


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	10887	0.1780	1.6941
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	23271	0.3570	1.8150
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	65787	0.8920	2.1606
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	294183	4.4600	1.9110
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	359726	5.8000	1.7416
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	636017	8.9200	2.0276
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	1582446	22.3000	2.0532
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	3109812	44.6000	2.0978
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	6159526	89.2000	2.1421
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	7349426	112.0000	2.0846

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

5:3FTCA: RSE=11.2

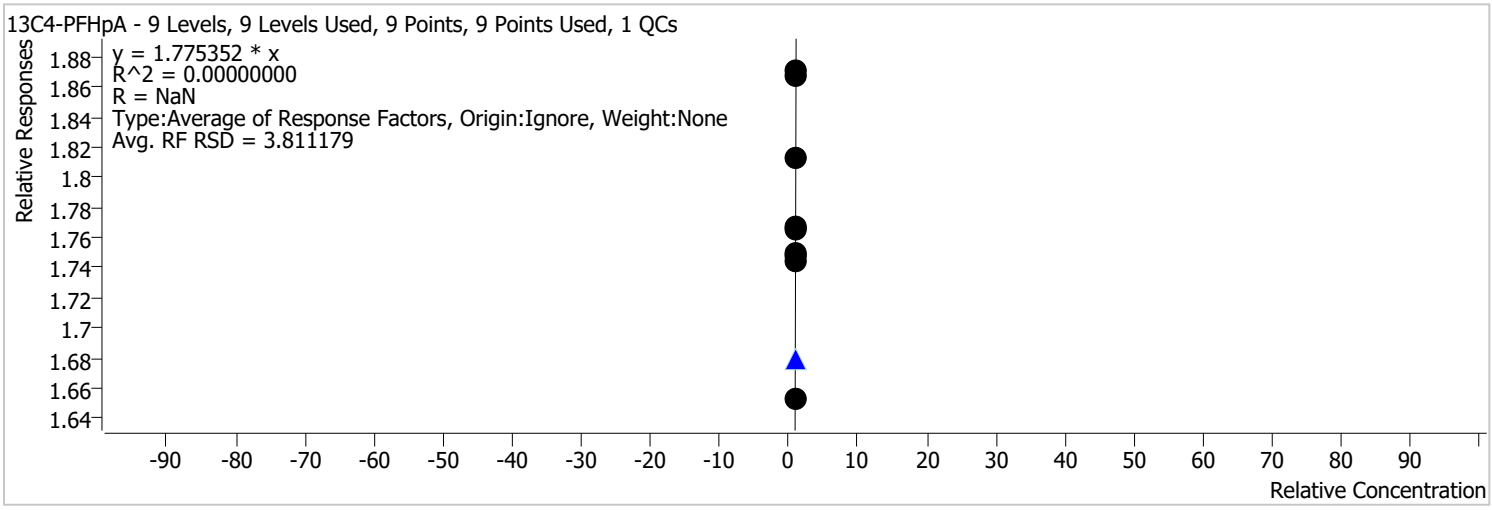


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	6565	2.5000	0.0727
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	15597	5.0000	0.0869
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	40929	12.5000	0.0959
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	43383	16.6500	0.0732
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	182506	62.5000	0.0846
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	414028	125.0000	0.0942
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	1048161	312.5000	0.0970
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	2027404	625.0000	0.0976
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	4233371	1250.0000	0.1051
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	5193058	1560.0000	0.1058

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

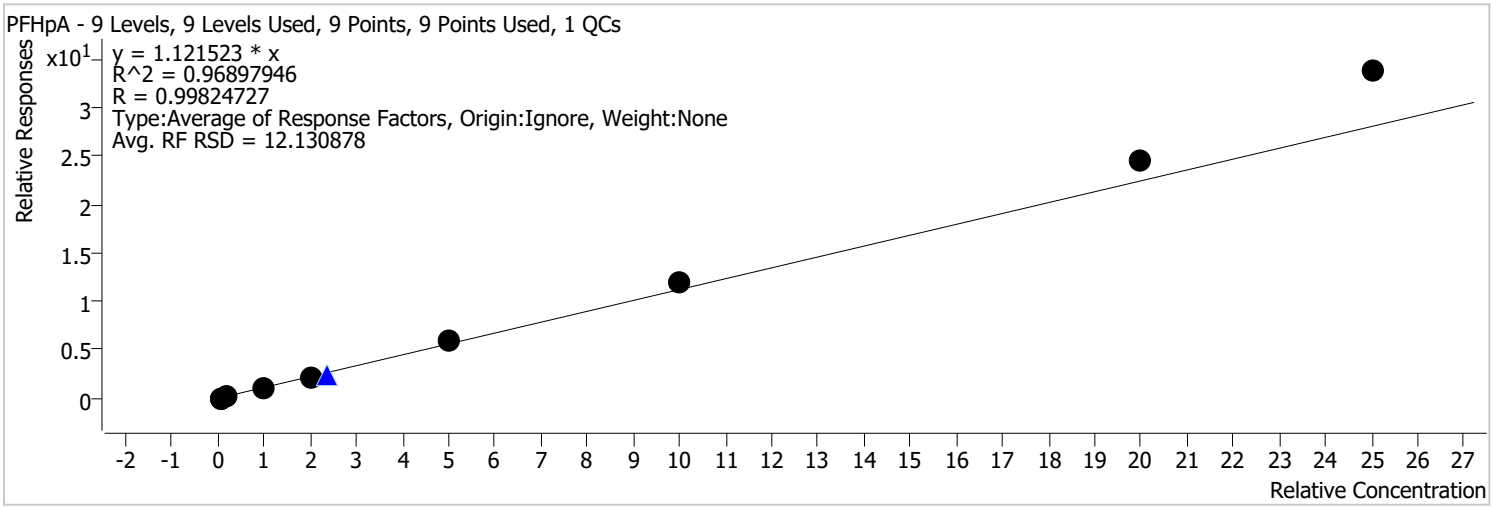
13C4-PFHpA: RSE=3.8



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	143954	2.5000	1.7437
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	147847	2.5000	1.7488
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	134482	2.5000	1.8679
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	136803	2.5000	1.8706
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	145107	2.5000	1.7472
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	136299	2.5000	1.8133
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	133779	2.5000	1.7673
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	131867	2.5000	1.7660
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	120188	2.5000	1.6533
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	138003	2.5000	1.6784

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFHpA: RSE=12.1

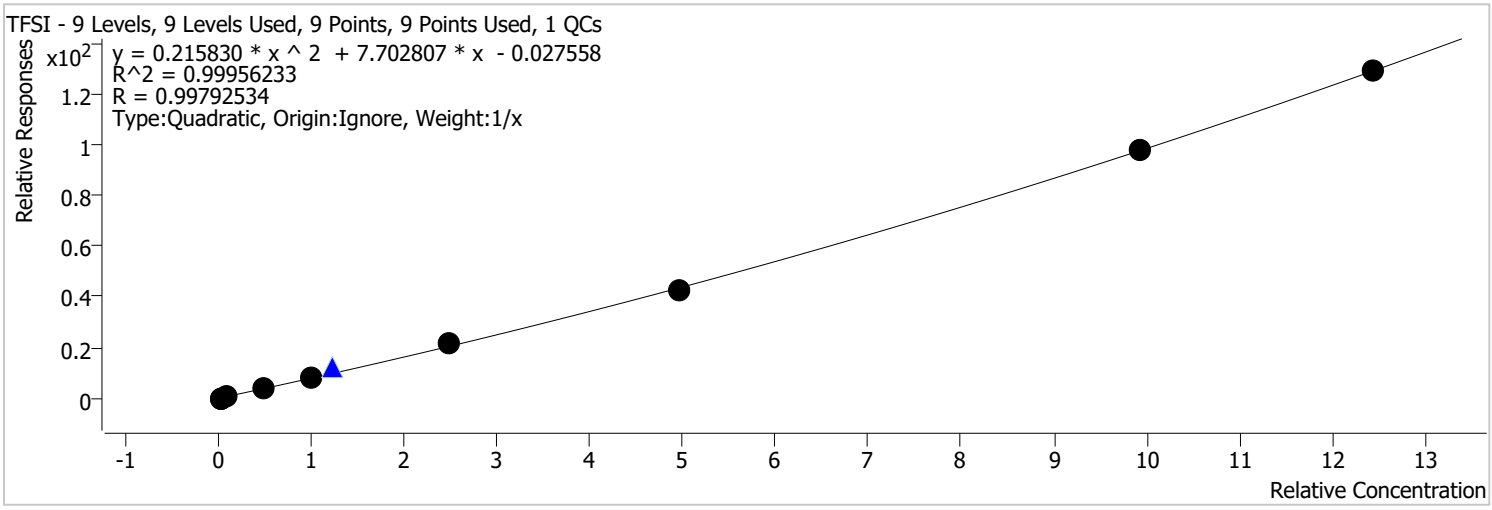


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	5307	0.1000	0.9216
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	11236	0.2000	0.9499
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	29135	0.5000	1.0832
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	145706	2.5000	1.0651
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	321855	5.0000	1.1090
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	320390	5.8500	0.9921
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	812048	12.5000	1.1916
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1595022	25.0000	1.1923
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	3249484	50.0000	1.2321
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	4053074	62.5000	1.3489

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

TFSI: RSE=5.3

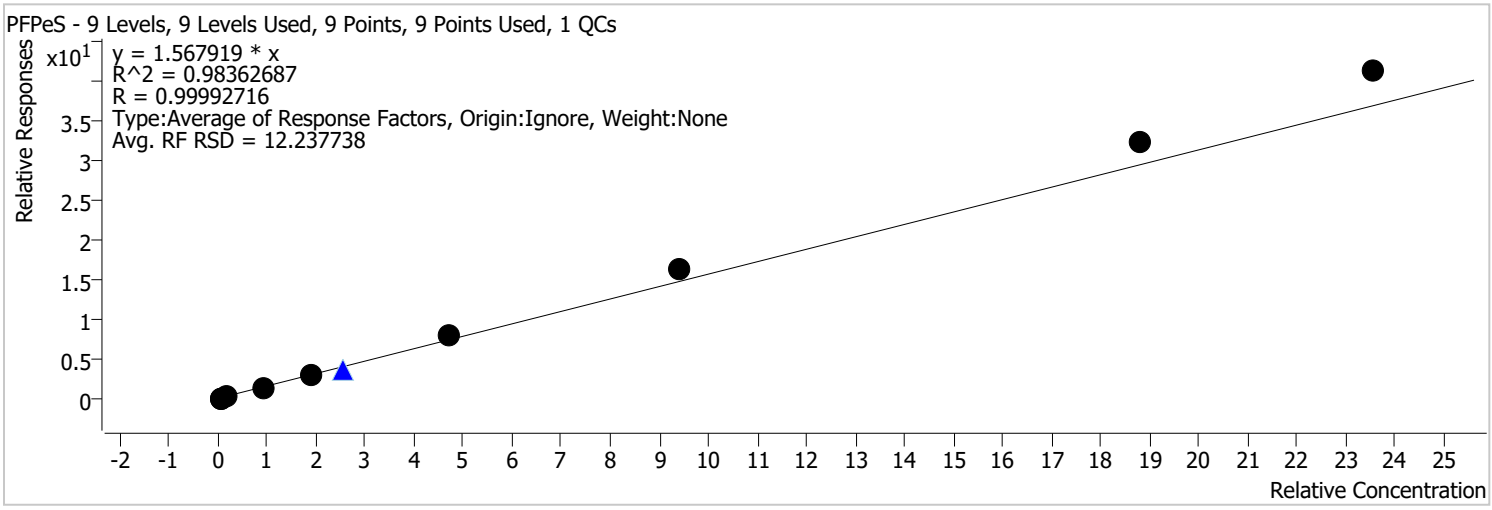


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	11897	0.1987	6.6615
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	23680	0.3974	6.5247
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	66180	0.9935	7.8395
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	301198	4.9675	7.2803
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	684409	9.9350	7.8563
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	945036	12.3500	9.6197
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	1734895	24.8375	8.7492
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	3420417	49.6750	8.4734
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	7173674	99.3500	9.8830
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	8980764	124.1875	10.3836

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFPeS: RSE=12.2

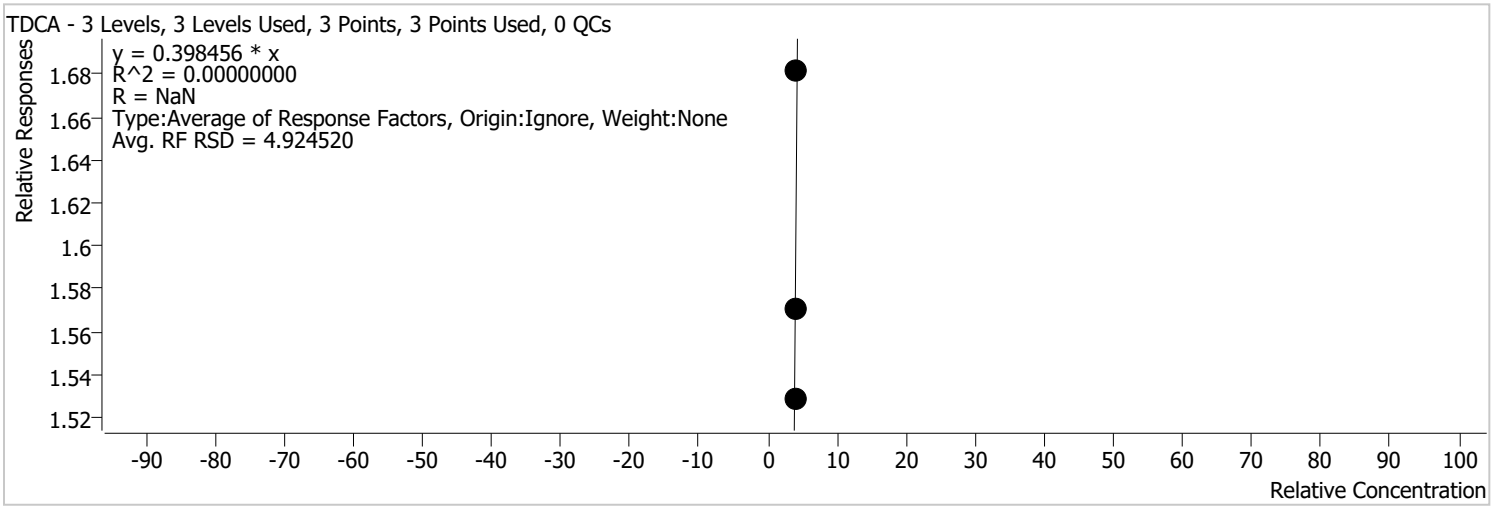


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	1835	0.0940	1.3523
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	3342	0.1880	1.2359
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	10278	0.4700	1.6124
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	45598	2.3500	1.4153
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	99983	4.7000	1.5575
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	119068	6.4000	1.3662
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	259249	11.8000	1.7069
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	499040	23.5000	1.7498
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	955182	47.0000	1.7272
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	1188867	58.8000	1.7541

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

TDCA: RSE=4.9

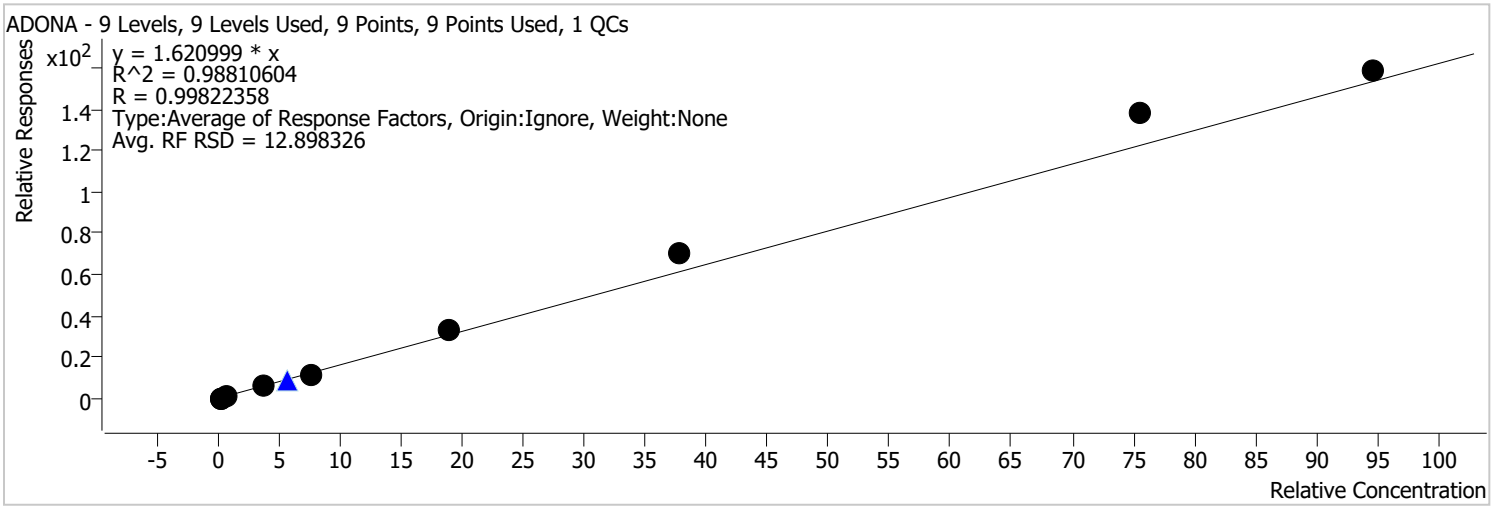


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	44662	10.0000	0.3823
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	46386	10.0000	0.4203
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	36943	10.0000	0.3928

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

ADONA: RSE=12.9

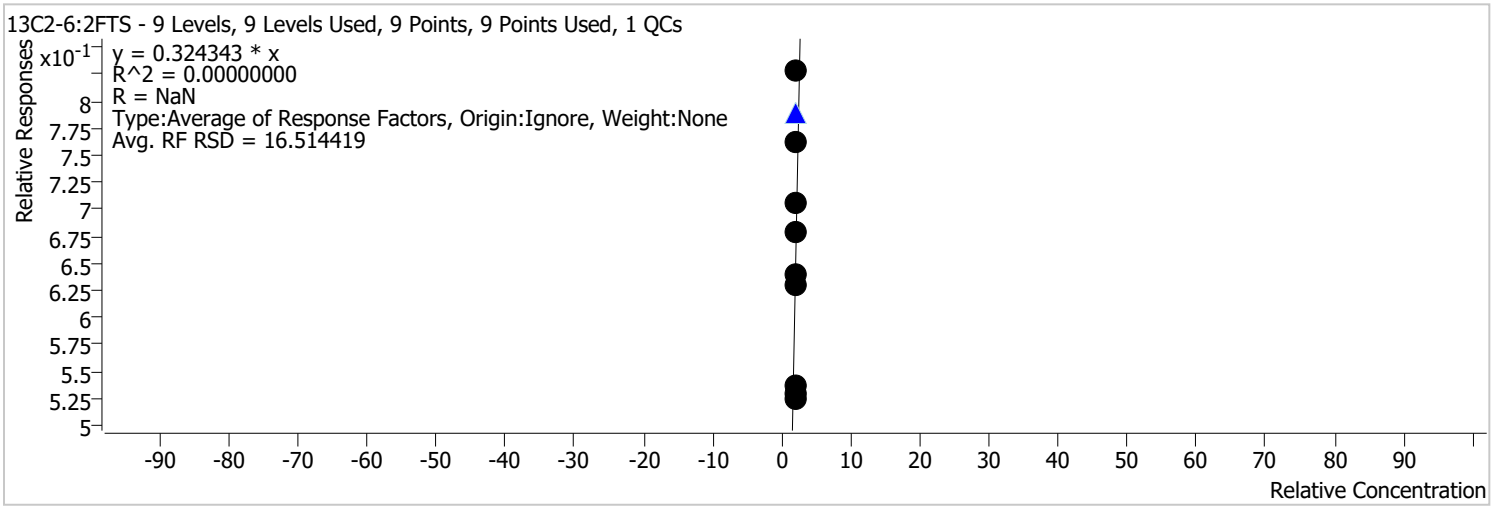


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	29879	0.3780	1.3728
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	58142	0.7560	1.3005
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	181895	1.8900	1.7891
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	807291	9.4500	1.5611
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	1174657	14.1500	1.5039
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	1580653	18.9000	1.4409
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	4558646	47.2500	1.7696
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	9334926	94.5000	1.8460
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	18285239	189.0000	1.8342
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	19022742	236.2500	1.6749

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C2-6:2FTS: RSE=16.5

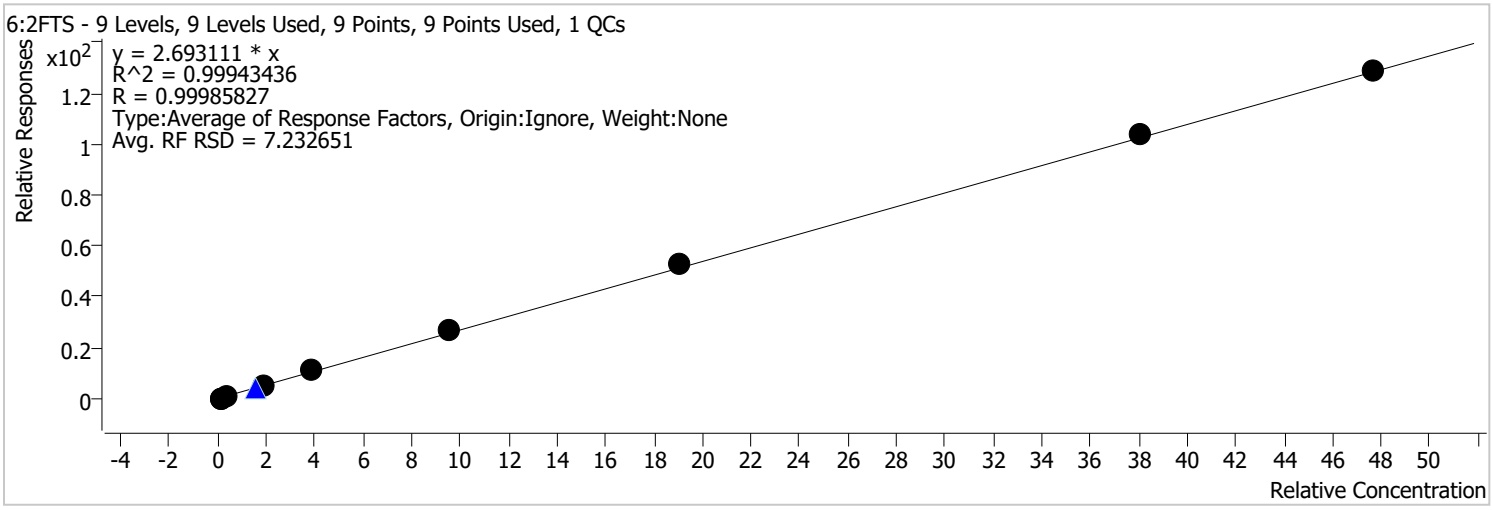


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	20467	5.0000	0.3398
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	22488	5.0000	0.3528
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	22861	5.0000	0.4138
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	21495	5.0000	0.3817
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	19487	5.0000	0.3202
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	17496	5.0000	0.3151
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	15295	5.0000	0.2628
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	13797	5.0000	0.2645
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	13119	5.0000	0.2684
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	23262	5.0000	0.3952

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

6:2FTS: RSE=7.2

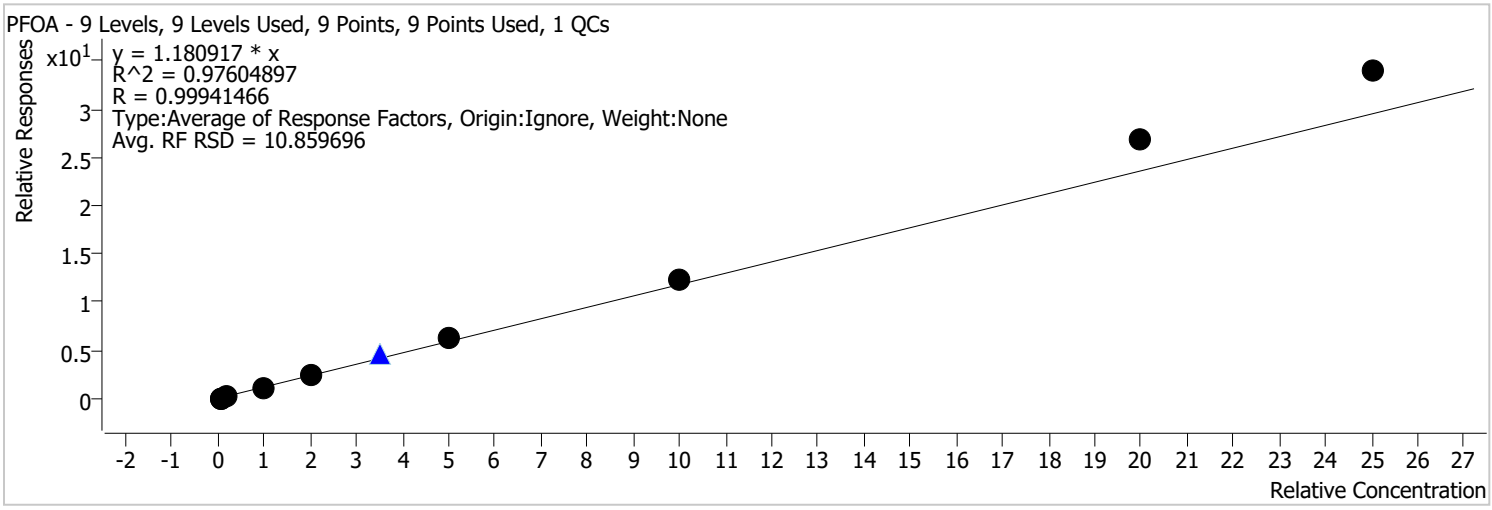


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	3921	0.3800	2.5206
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	8054	0.7610	2.3531
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	24792	1.9000	2.8540
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	87238	7.6000	2.4673
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	101882	9.5100	2.4920
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	215407	19.0000	2.9090
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	477934	47.6000	2.8695
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	815932	95.1000	2.8047
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	1433354	190.0000	2.7339
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	1686795	238.0000	2.7012

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFOA: RSE=10.9

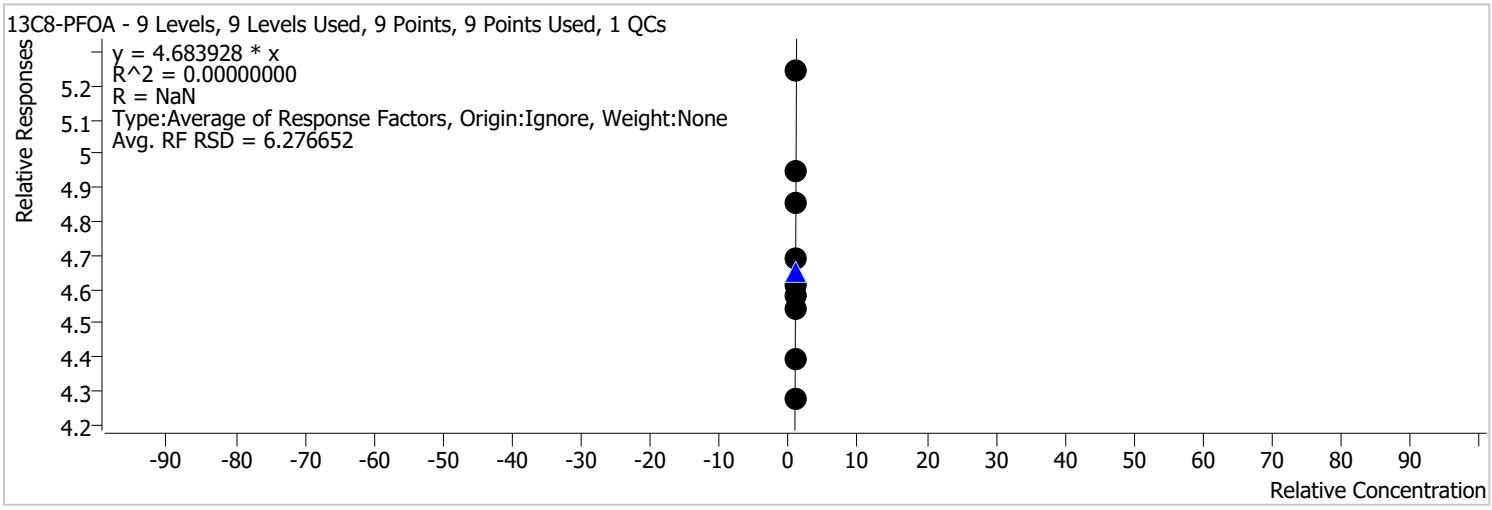


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	4191	0.1000	1.0454
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	8281	0.2000	1.0247
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	23836	0.5000	1.2037
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	103759	2.5000	1.0319
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	228399	5.0000	1.1520
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	459174	8.7500	1.3527
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	591366	12.5000	1.2389
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1161475	25.0000	1.2233
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	2405147	50.0000	1.3506
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	3018492	62.5000	1.3578

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C8-PFOA: RSE=6.3

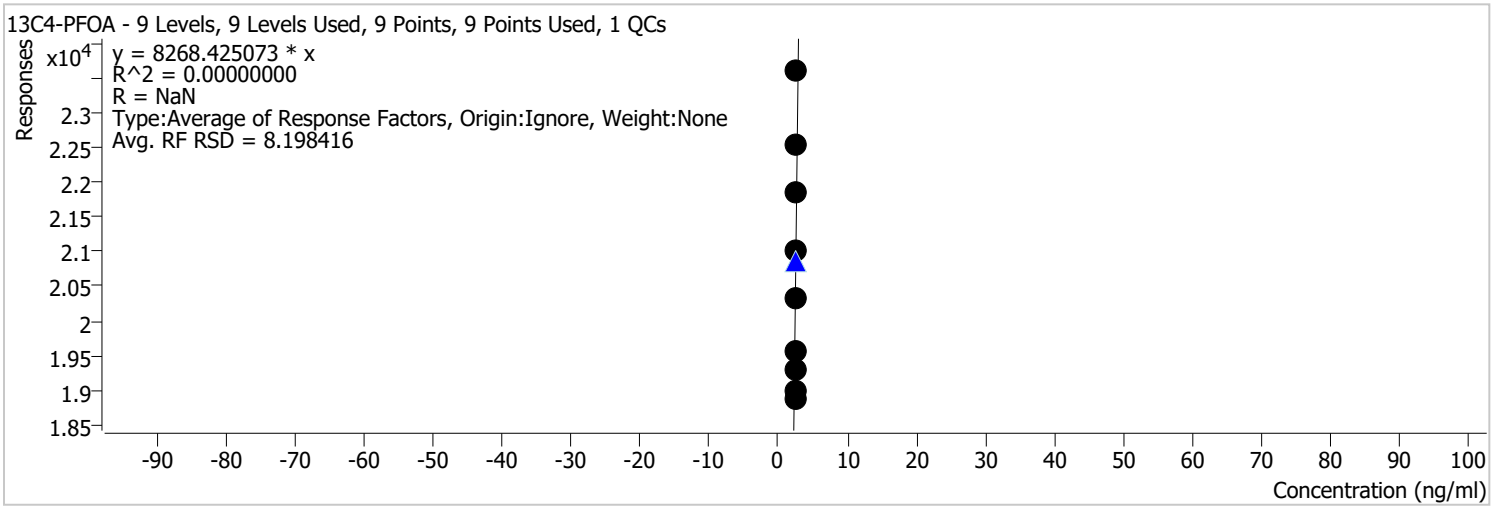


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	100225	2.5000	4.5850
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	101013	2.5000	4.2795
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	99015	2.5000	5.2425
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	100554	2.5000	4.9484
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	99134	2.5000	4.3969
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	95464	2.5000	4.5457
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	94948	2.5000	4.8542
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	89038	2.5000	4.6936
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	88924	2.5000	4.6095
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	96982	2.5000	4.6523

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C4-PFOA: RSE=8.2

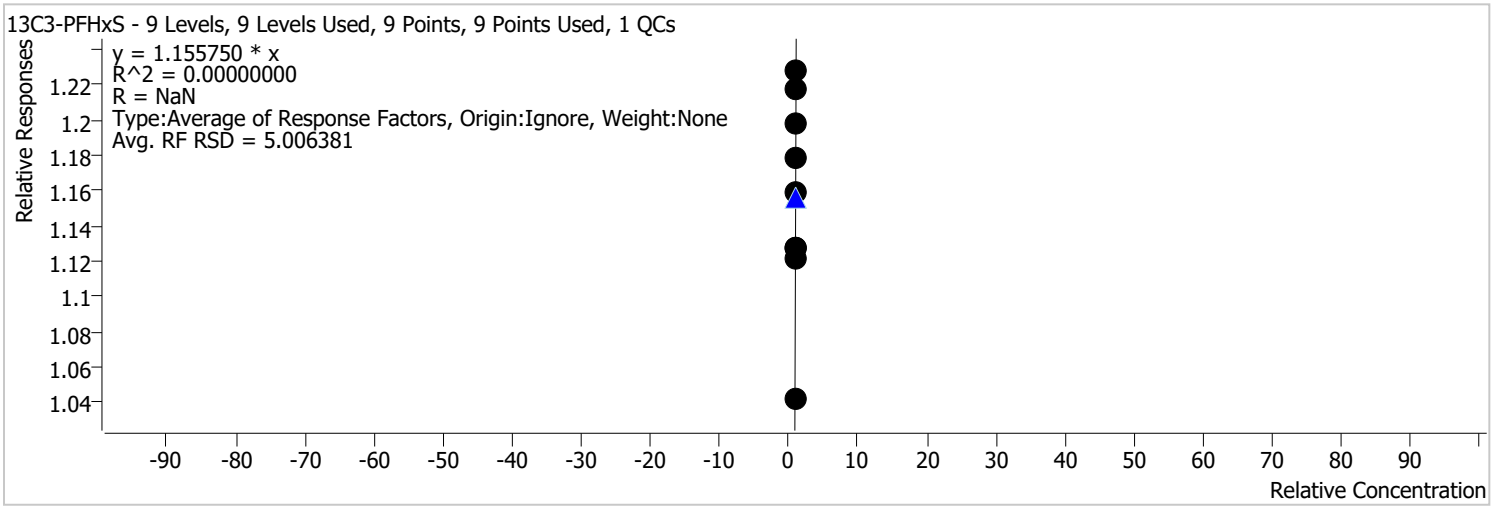


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	21859	2.5000	8743.7612
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	23604	2.5000	9441.6001
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	18887	2.5000	7554.6937
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	20320	2.5000	8128.1721
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	22546	2.5000	9018.4931
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	21001	2.5000	8400.3293
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	19560	2.5000	7824.0885
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	18970	2.5000	7588.1021
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	19291	2.5000	7716.5856
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	20846	2.5000	8338.4799

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C3-PFHxS: RSE=5.0

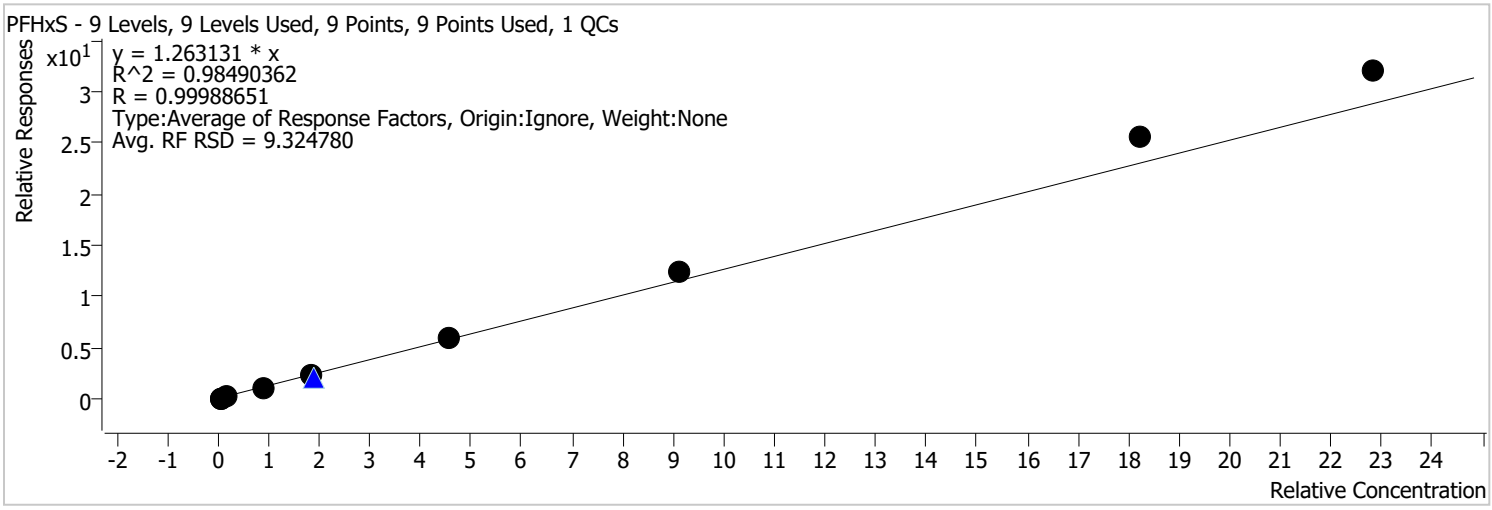


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	36080	2.5000	1.1979
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	35957	2.5000	1.1282
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	33906	2.5000	1.2276
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	34274	2.5000	1.2174
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	34147	2.5000	1.1221
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	32179	2.5000	1.1590
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	30341	2.5000	1.0426
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	29417	2.5000	1.1278
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	28816	2.5000	1.1793
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	34044	2.5000	1.1567

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFHxS: RSE=9.3

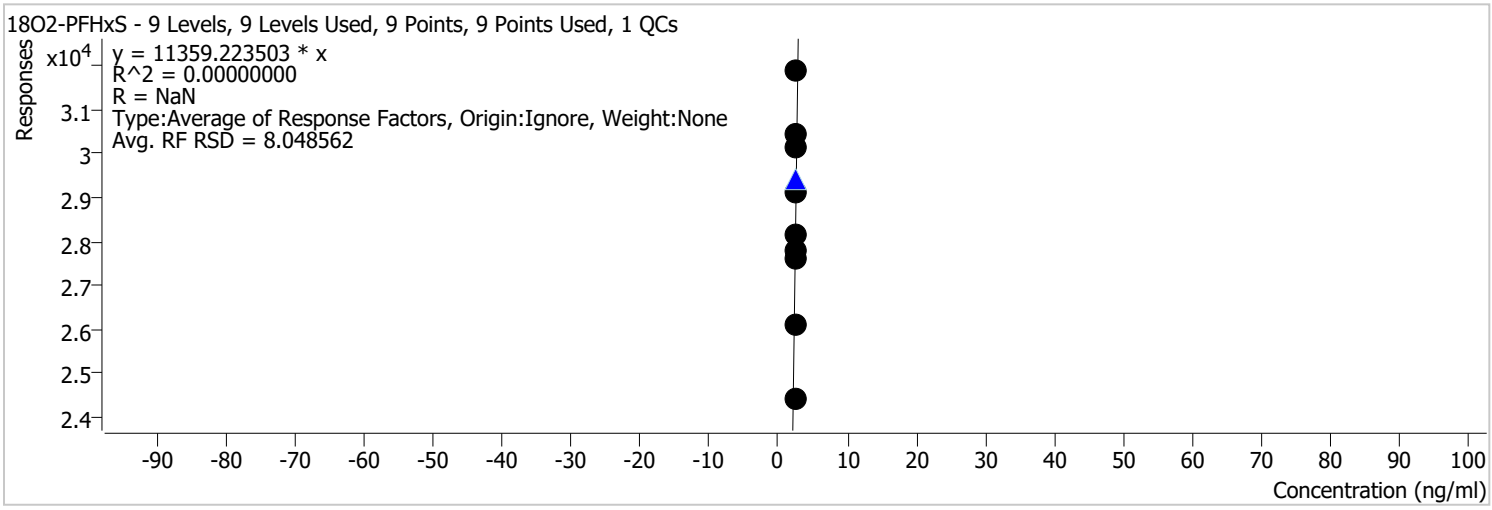


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	1516	0.0910	1.1544
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	2782	0.1820	1.0629
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	7849	0.4560	1.2691
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	37466	2.2800	1.1986
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	74963	4.5600	1.2036
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	70465	4.7000	1.1010
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	192547	11.4000	1.3122
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	376260	22.8000	1.3598
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	753639	45.6000	1.4046
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	921805	57.0000	1.4030

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

18O2-PFHxS: RSE=8.0

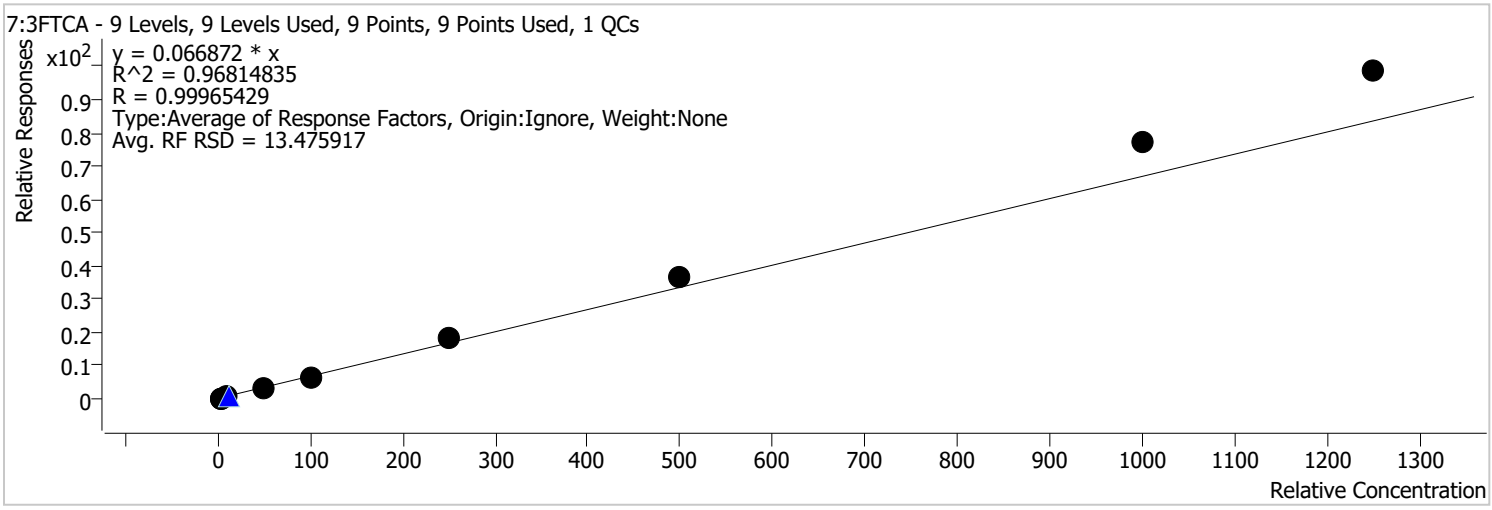


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	30120	2.5000	12048.0413
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	31872	2.5000	12748.7118
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	27619	2.5000	11047.7575
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	28155	2.5000	11261.8071
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	30432	2.5000	12172.8387
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	27764	2.5000	11105.7712
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	29101	2.5000	11640.5858
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	26084	2.5000	10433.4705
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	24435	2.5000	9774.0276
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	29432	2.5000	11772.8901

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

7:3FTCA: RSE=13.5

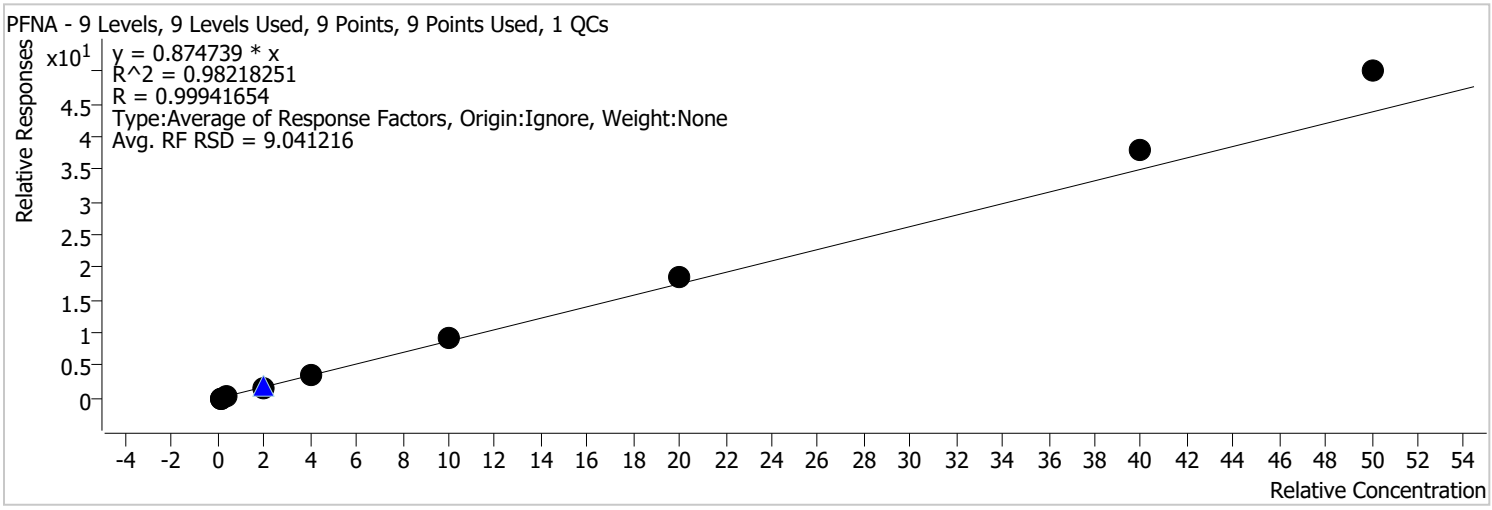


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	7442	2.5000	0.0558
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	15198	5.0000	0.0550
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	43485	12.5000	0.0666
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	43276	15.0000	0.0563
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	197103	62.5000	0.0596
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	433522	125.0000	0.0635
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	1146308	312.5000	0.0715
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	2310508	625.0000	0.0735
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	4872646	1250.0000	0.0774
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	6028902	1560.0000	0.0789

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFNA: RSE=9.0

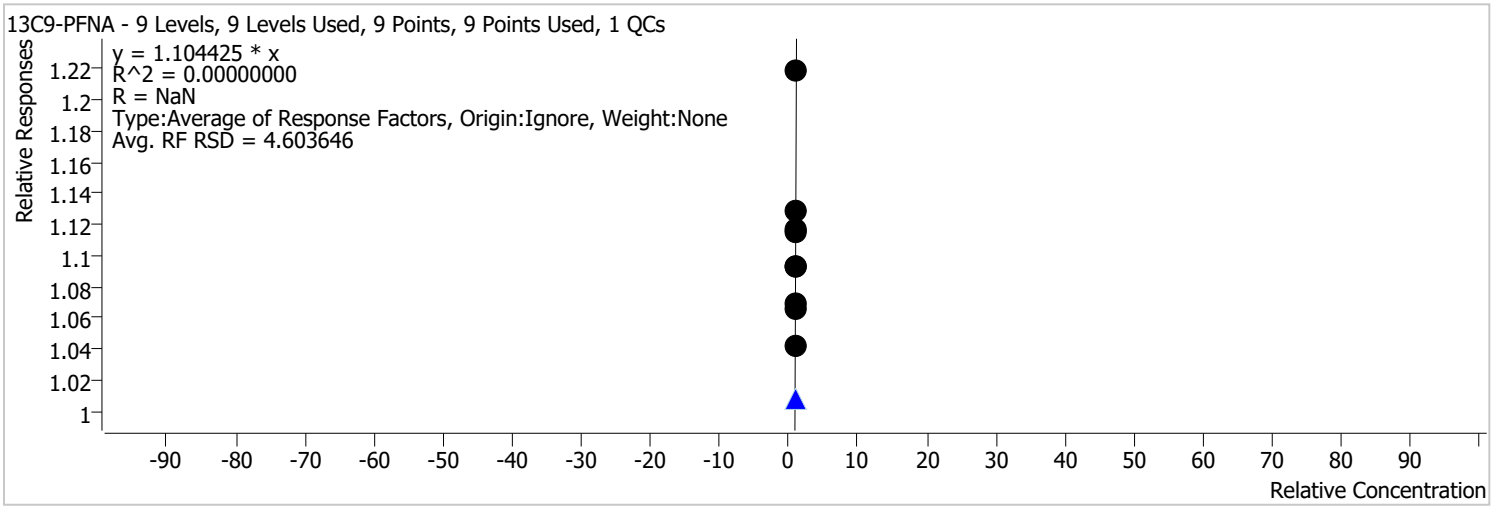


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	4236	0.1000	0.7937
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	8794	0.2000	0.7953
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	21630	0.5000	0.8283
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	118484	2.4150	0.9566
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	104178	2.5000	0.7876
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	234294	5.0000	0.8586
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	595783	12.5000	0.9289
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1172657	25.0000	0.9330
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	2388048	50.0000	0.9481
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	3057582	62.5000	0.9990

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C9-PFNA: RSE=4.6

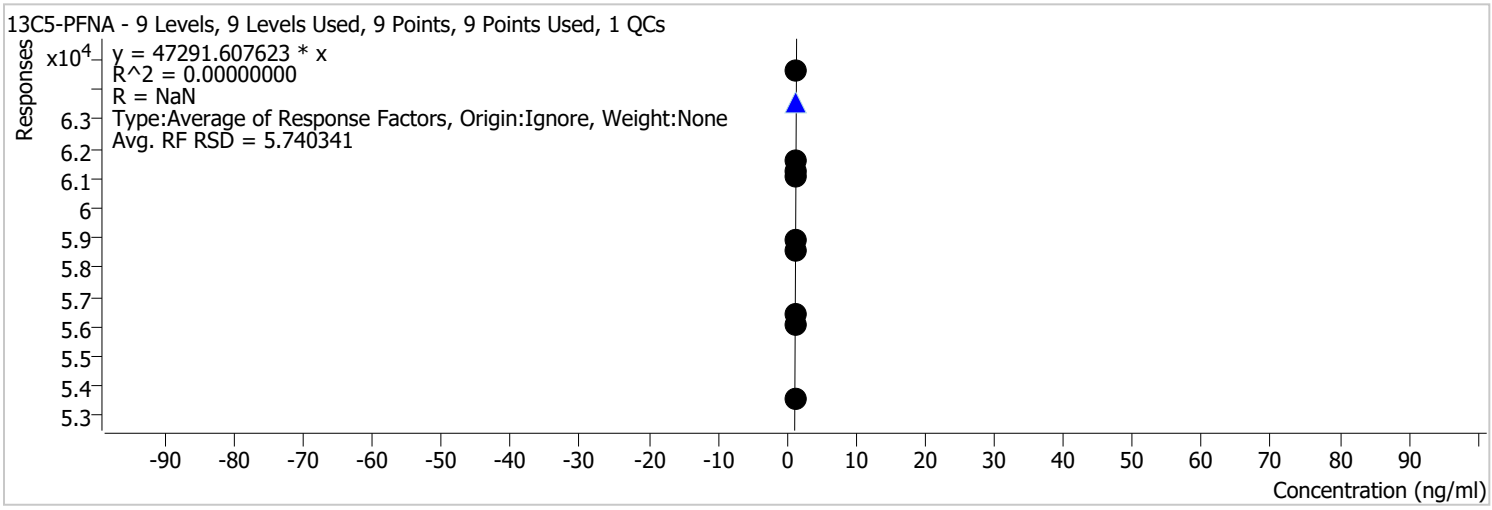


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	66708	1.2500	1.0921
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	69101	1.2500	1.0694
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	65281	1.2500	1.2180
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	66139	1.2500	1.1293
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	68219	1.2500	1.1144
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	64136	1.2500	1.0417
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	62845	1.2500	1.0661
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	62970	1.2500	1.1164
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	61210	1.2500	1.0923
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	64107	1.2500	1.0087

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C5-PFNA: RSE=5.7

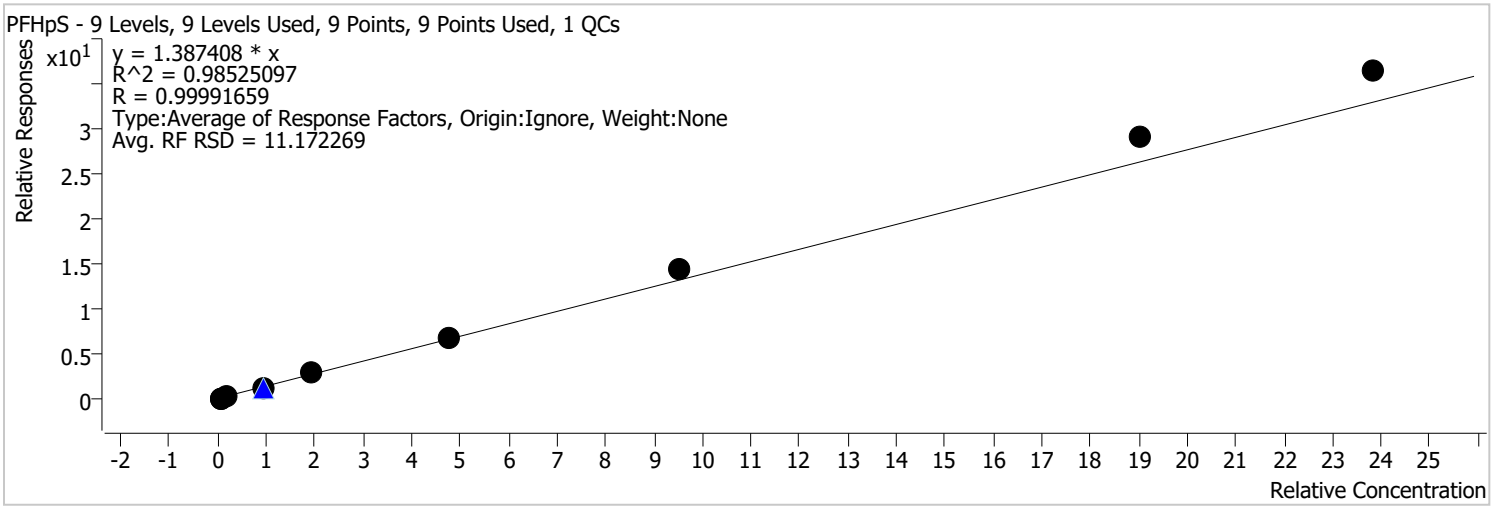


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	61080	1.2500	48864.3559
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	64615	1.2500	51691.7783
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	53597	1.2500	42877.5415
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	58567	1.2500	46853.9094
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	61215	1.2500	48971.6669
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	61567	1.2500	49253.4212
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	58947	1.2500	47157.7909
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	56403	1.2500	45122.1628
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	56040	1.2500	44831.8417
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	63555	1.2500	50843.8403

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFHpS: RSE=11.2

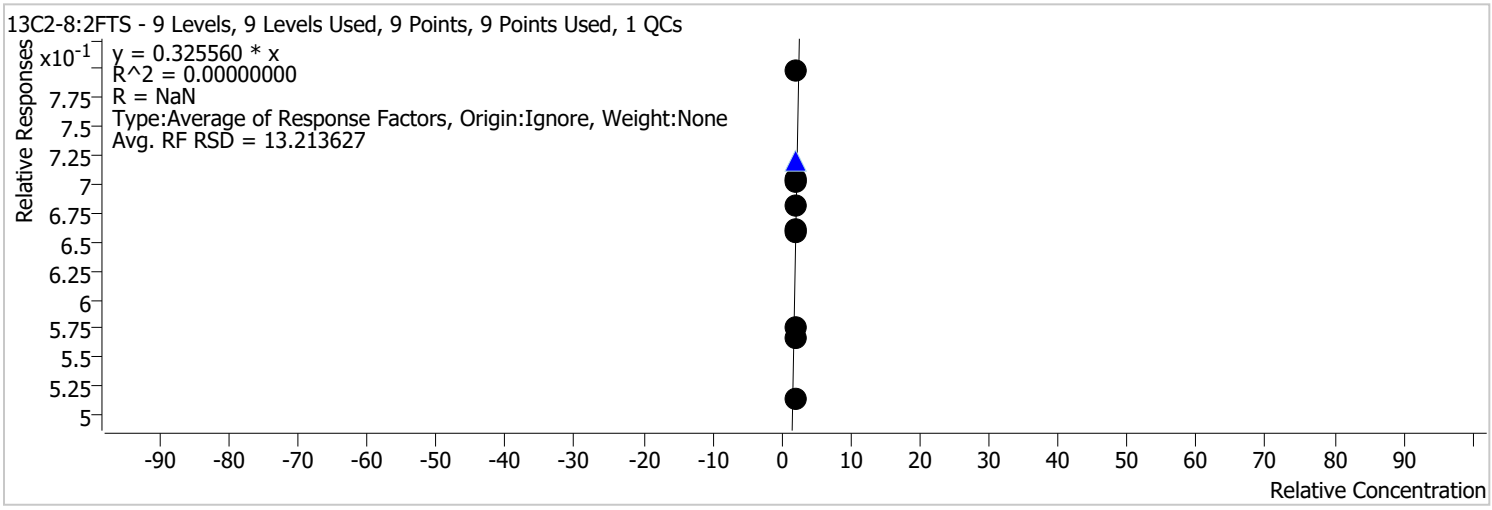


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	1378	0.0950	1.1985
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	2491	0.1900	1.1221
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	7599	0.4760	1.4255
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	33714	2.3800	1.2654
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	33104	2.3800	1.2830
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	76115	4.7600	1.4489
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	186237	11.9000	1.4241
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	361547	23.8000	1.5270
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	684687	47.6000	1.5418
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	858261	59.5000	1.5335

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C2-8:2FTS: RSE=13.2

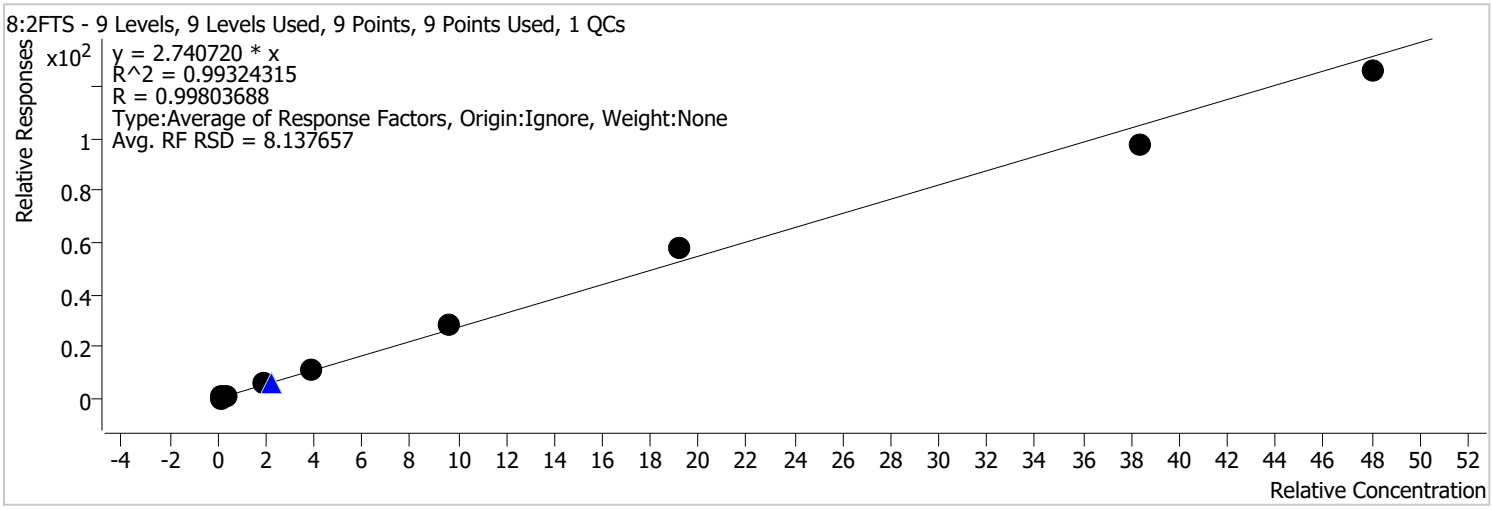


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	19889	5.0000	0.3302
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	22444	5.0000	0.3521
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	22039	5.0000	0.3990
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	19745	5.0000	0.3507
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	20721	5.0000	0.3404
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	18258	5.0000	0.3288
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	14978	5.0000	0.2573
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	15030	5.0000	0.2881
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	13853	5.0000	0.2835
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	21181	5.0000	0.3598

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

8:2FTS: RSE=8.1

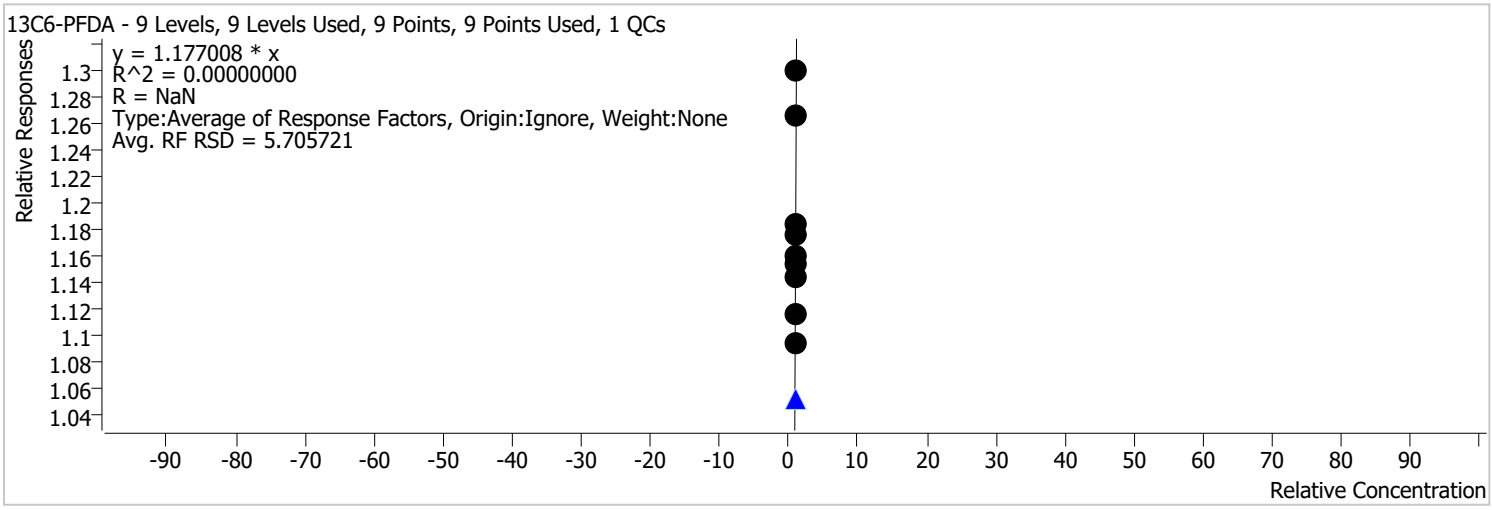


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	3797	0.3840	2.4856
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	8391	0.7680	2.4339
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	24664	1.9200	2.9144
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	107918	9.6000	2.8467
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	126128	11.2000	2.6584
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	221938	19.2000	2.7893
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	524038	48.0000	2.9897
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	871503	96.0000	3.0304
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	1473380	192.0000	2.5528
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	1744509	240.0000	2.6236

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C6-PFDA: RSE=5.7

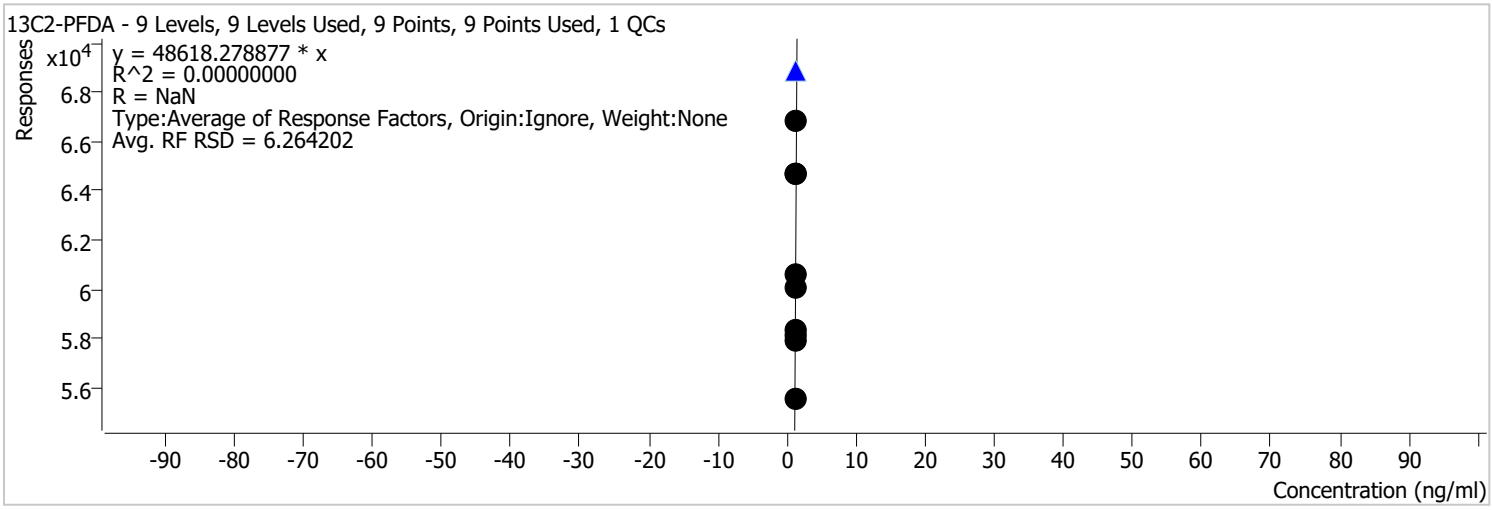


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	76087	1.2500	1.1751
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	77472	1.2500	1.1594
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	72272	1.2500	1.3000
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	73409	1.2500	1.2674
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	73987	1.2500	1.1435
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	71134	1.2500	1.1849
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	67561	1.2500	1.1150
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	67089	1.2500	1.1539
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	63883	1.2500	1.0939
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	72447	1.2500	1.0521

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C2-PFDA: RSE=6.3

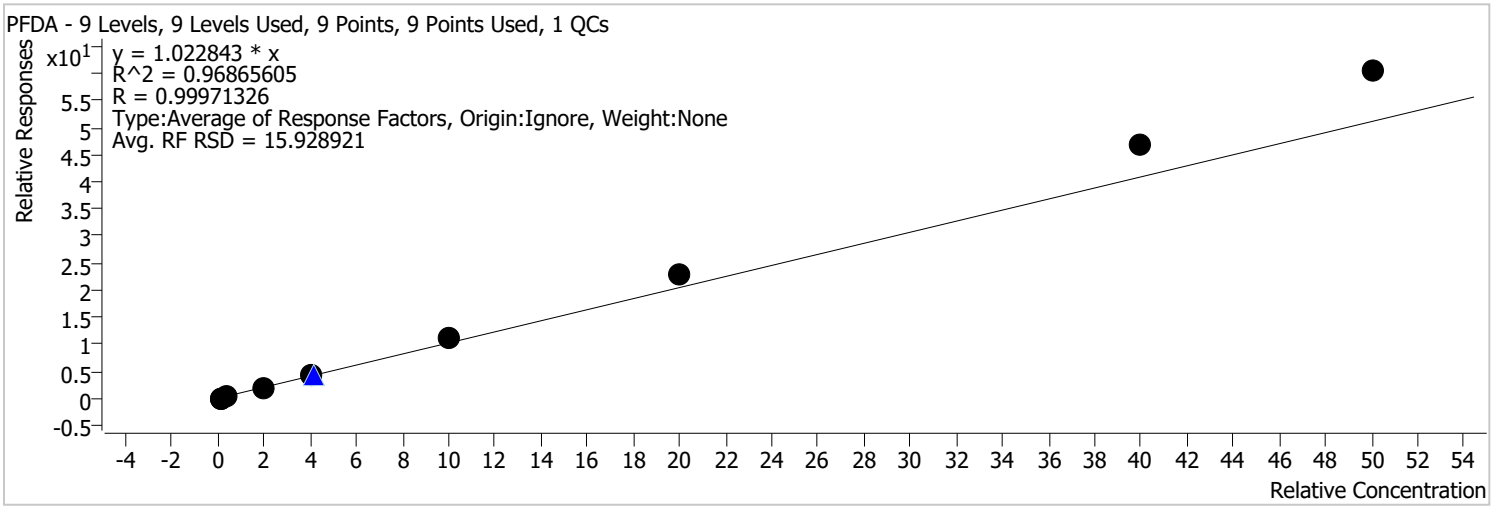


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	64749	1.2500	51798.9960
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	66823	1.2500	53458.1281
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	55593	1.2500	44474.3773
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	57921	1.2500	46337.1247
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	64702	1.2500	51761.8760
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	60036	1.2500	48028.4908
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	60591	1.2500	48472.4215
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	58143	1.2500	46514.1117
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	58399	1.2500	46718.9837
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	68857	1.2500	55085.4763

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFDA: RSE=15.9

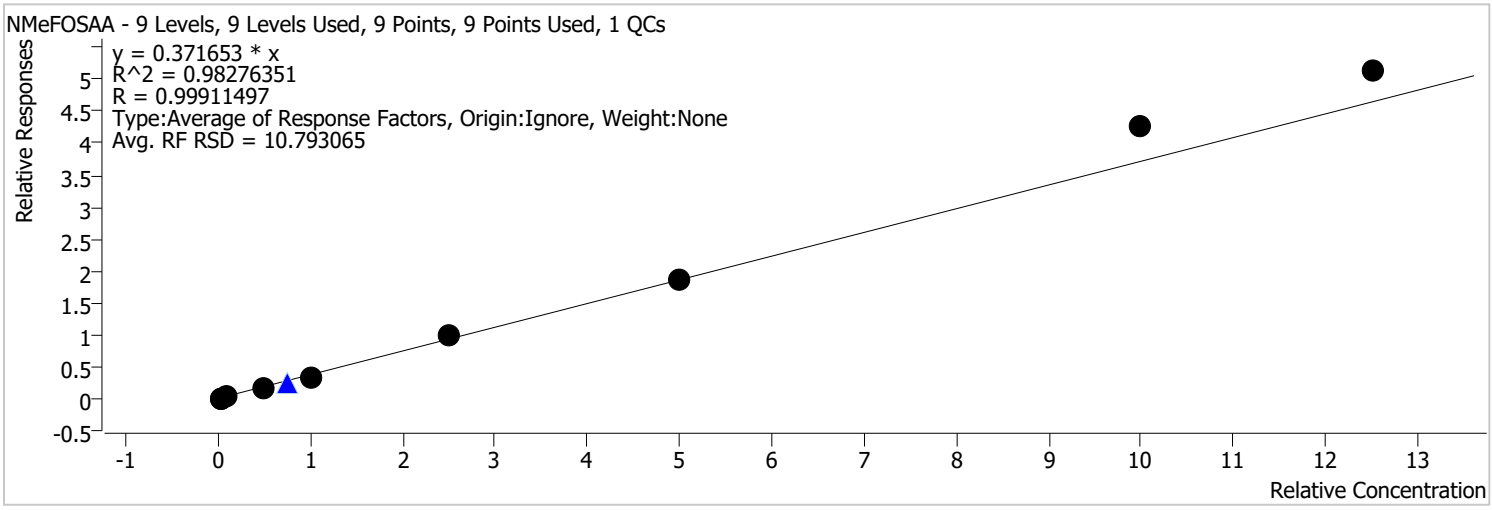


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	4383	0.1000	0.7201
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	10463	0.2000	0.8441
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	30266	0.5000	1.0470
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	137227	2.5000	0.9347
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	301498	5.0000	1.0188
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	298154	5.1500	0.9989
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	790941	12.5000	1.1119
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1555225	25.0000	1.1510
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	3139418	50.0000	1.1699
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	3859517	62.5000	1.2083

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

NMeFOSAA: RSE=10.8

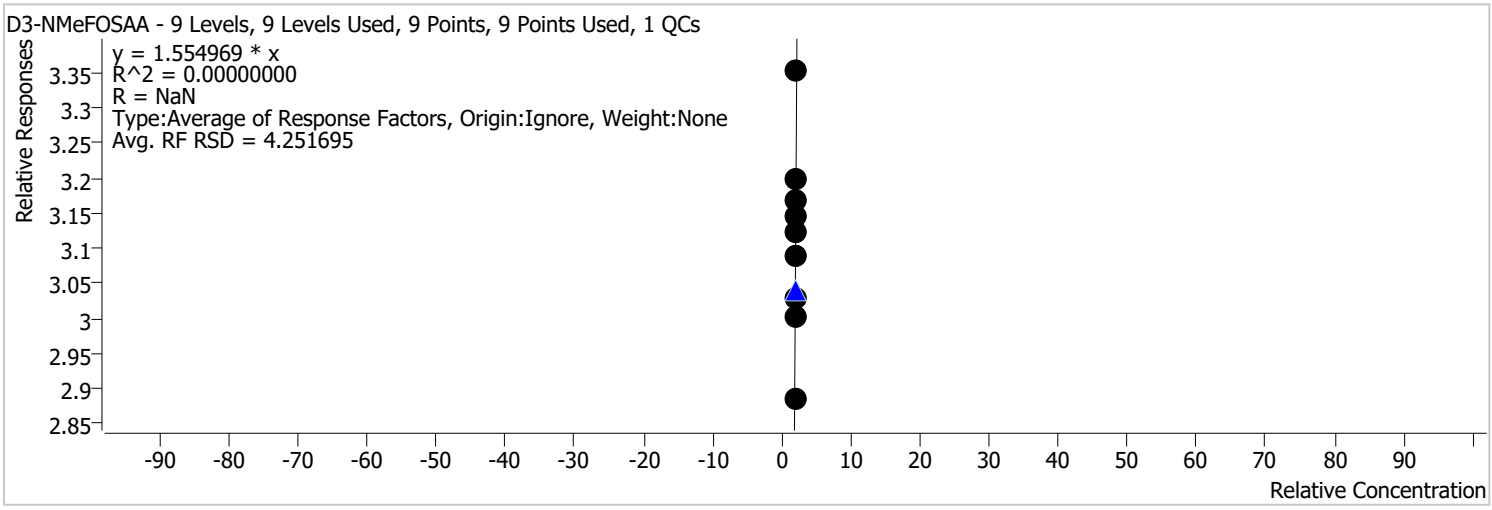


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	669	0.1000	0.3704
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	1069	0.2000	0.3011
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	3207	0.5000	0.3895
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	14255	2.5000	0.3346
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	22586	3.7500	0.3245
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	31449	5.0000	0.3398
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	86094	12.5000	0.3994
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	161590	25.0000	0.3741
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	335363	50.0000	0.4258
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	402364	62.5000	0.4101

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

D3-NMeFOSAA: RSE=4.3

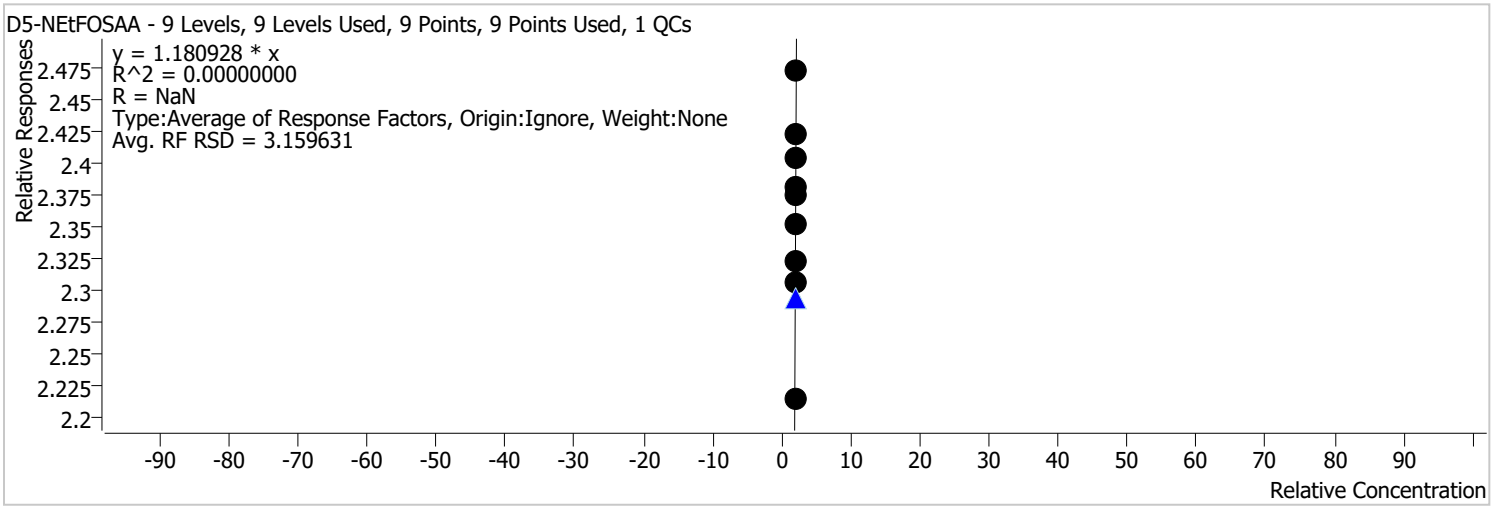


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	90240	5.0000	1.5006
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	88736	5.0000	1.4434
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	82345	5.0000	1.5721
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	85204	5.0000	1.5135
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	92542	5.0000	1.5448
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	86221	5.0000	1.5611
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	86386	5.0000	1.5839
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	78753	5.0000	1.5995
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	78493	5.0000	1.6757
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	92812	5.0000	1.5207

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

D5-NEtFOSAA: RSE=3.2

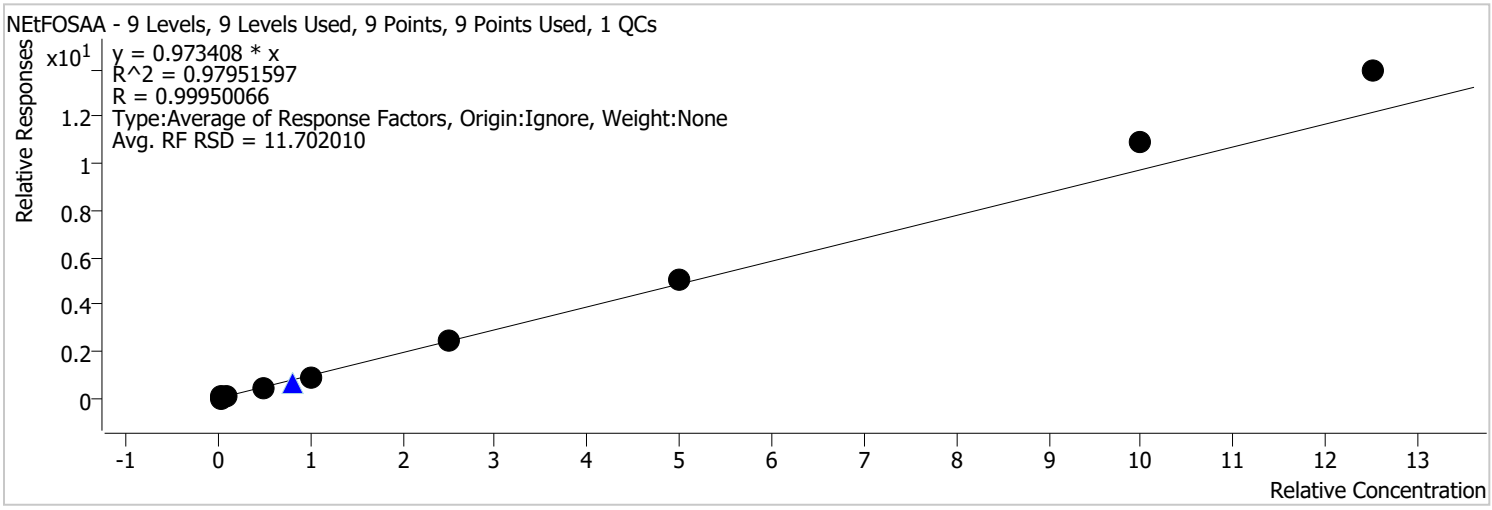


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	69360	5.0000	1.1534
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	68097	5.0000	1.1077
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	62393	5.0000	1.1912
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	65404	5.0000	1.1618
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	71162	5.0000	1.1879
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	66905	5.0000	1.2114
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	64148	5.0000	1.1762
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	59198	5.0000	1.2023
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	57918	5.0000	1.2365
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	70036	5.0000	1.1475

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

NEtFOSAA: RSE=11.7

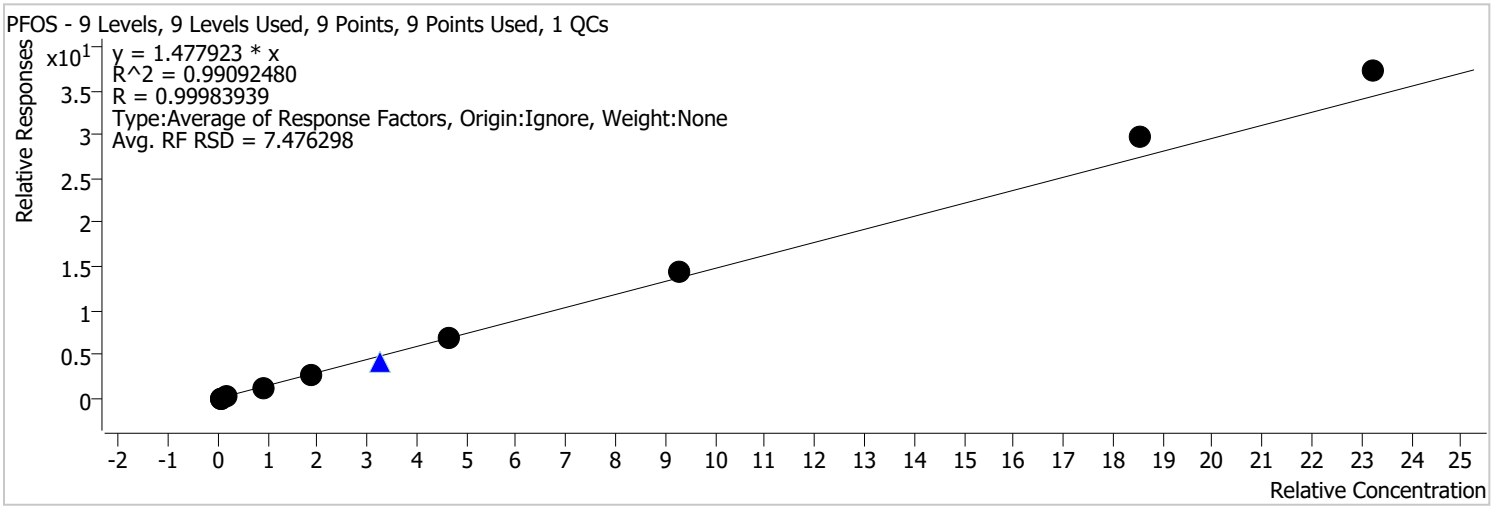


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	1117	0.1000	0.8053
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	2398	0.2000	0.8804
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	6815	0.5000	1.0923
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	27990	2.5000	0.8559
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	49372	4.0000	0.8812
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	65044	5.0000	0.9140
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	165553	12.5000	0.9898
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	327499	25.0000	1.0211
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	644016	50.0000	1.0879
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	806481	62.5000	1.1140

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFOS: RSE=7.5

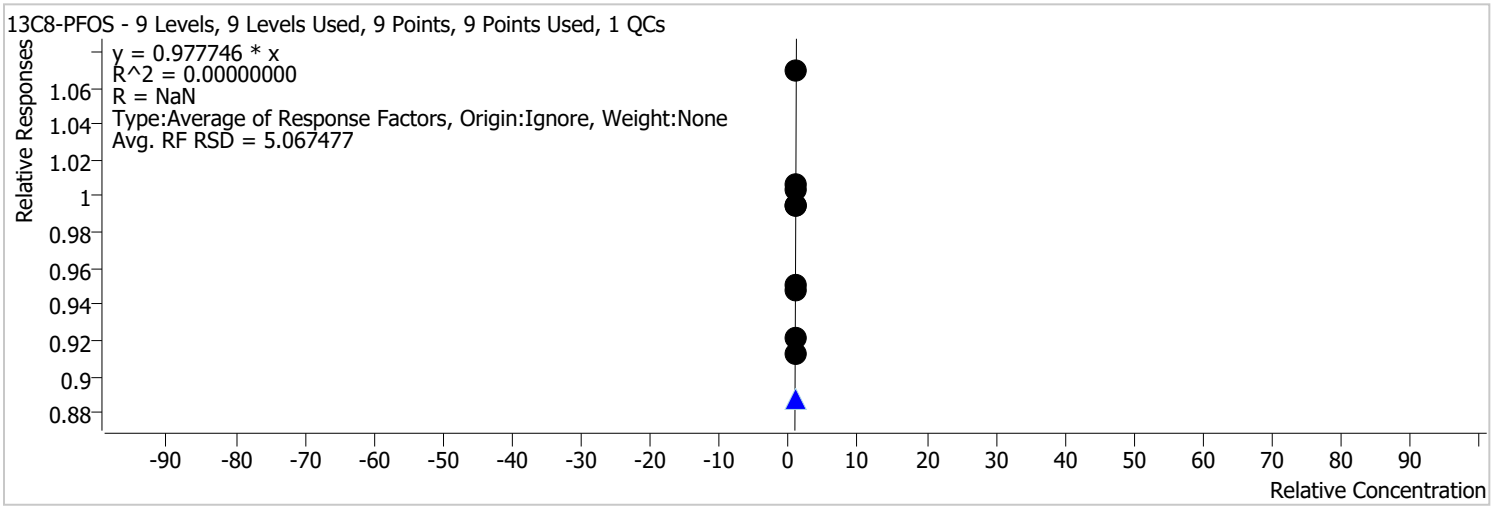


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	1777	0.0930	1.5780
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	2963	0.1860	1.3636
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	7421	0.4640	1.4281
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	33819	2.3200	1.3022
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	72356	4.6400	1.4130
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	109530	8.1000	1.2473
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	186162	11.6000	1.4603
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	357452	23.2000	1.5487
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	695159	46.4000	1.6058
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	873795	58.0000	1.6017

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C8-PFOS: RSE=5.1

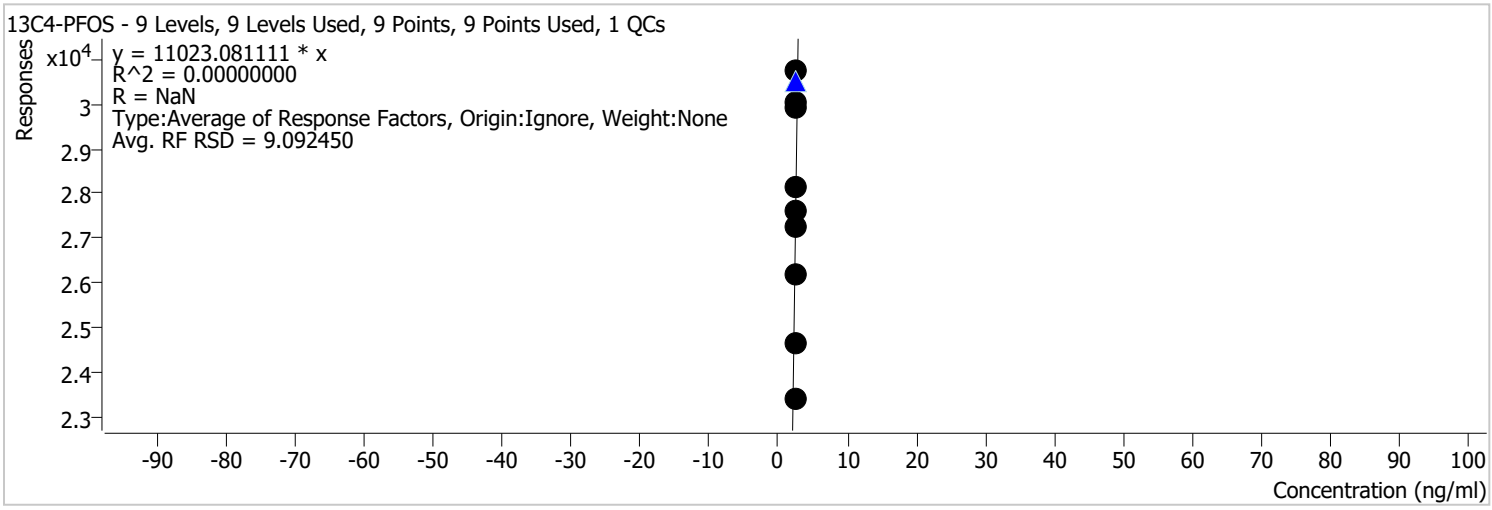


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	30267	2.5000	1.0066
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	29205	2.5000	0.9501
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	27998	2.5000	1.0691
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	27987	2.5000	0.9943
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	27591	2.5000	0.9211
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	27474	2.5000	0.9949
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	24871	2.5000	0.9120
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	23324	2.5000	0.9475
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	23515	2.5000	1.0040
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	27104	2.5000	0.8882

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C4-PFOS: RSE=9.1

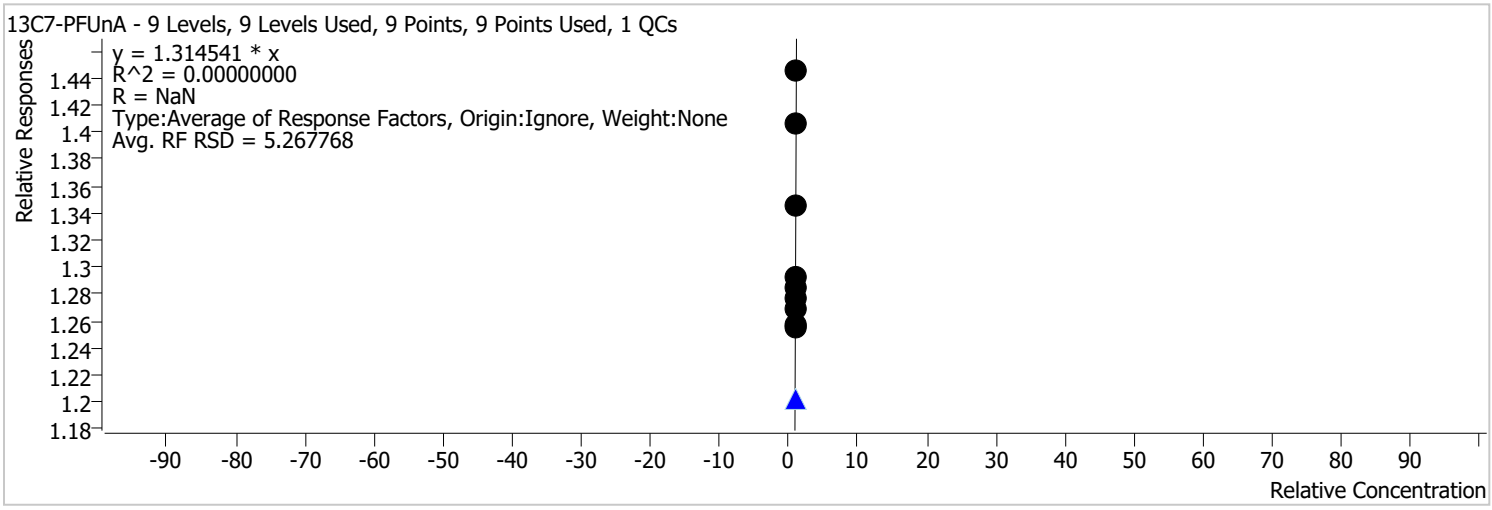


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	30068	2.5000	12027.0855
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	30739	2.5000	12295.5253
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	26189	2.5000	10475.5529
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	28147	2.5000	11258.8831
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	29954	2.5000	11981.4186
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	27615	2.5000	11046.1348
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	27270	2.5000	10907.8519
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	24618	2.5000	9847.0434
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	23421	2.5000	9368.2344
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	30517	2.5000	12206.6262

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C7-PFUnA: RSE=5.3

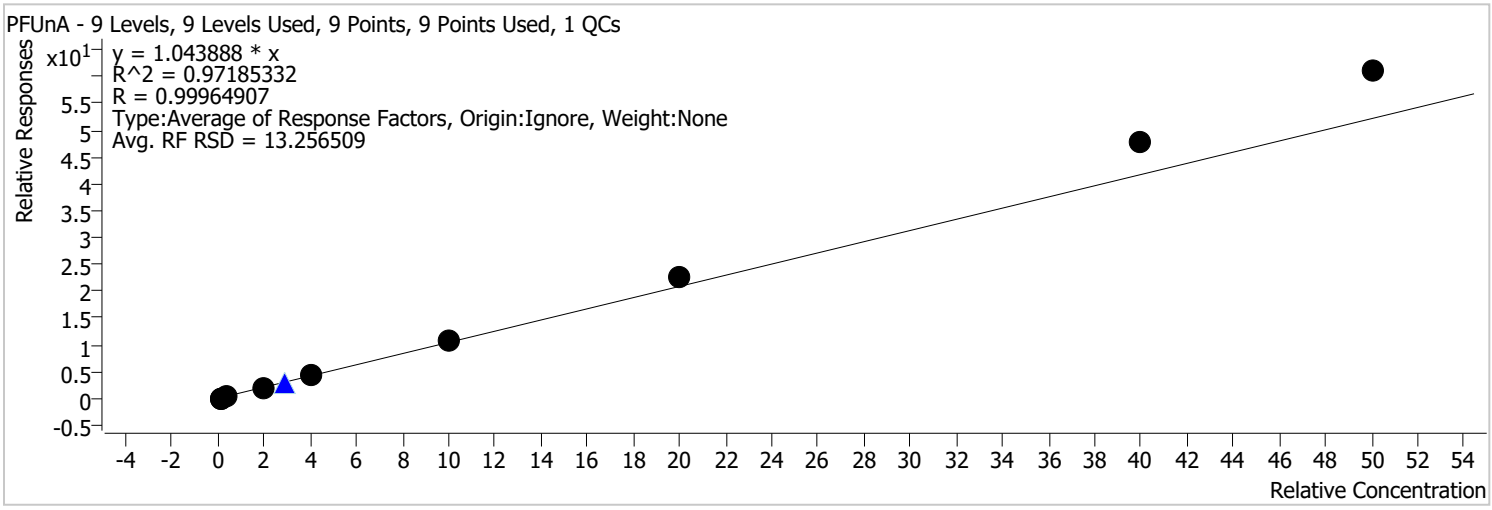


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	81292	1.2500	1.2555
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	86319	1.2500	1.2918
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	80339	1.2500	1.4451
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	81492	1.2500	1.4069
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	81282	1.2500	1.2563
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	80756	1.2500	1.3451
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	77316	1.2500	1.2760
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	74730	1.2500	1.2853
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	74098	1.2500	1.2688
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	82825	1.2500	1.2029

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFUnA: RSE=13.3

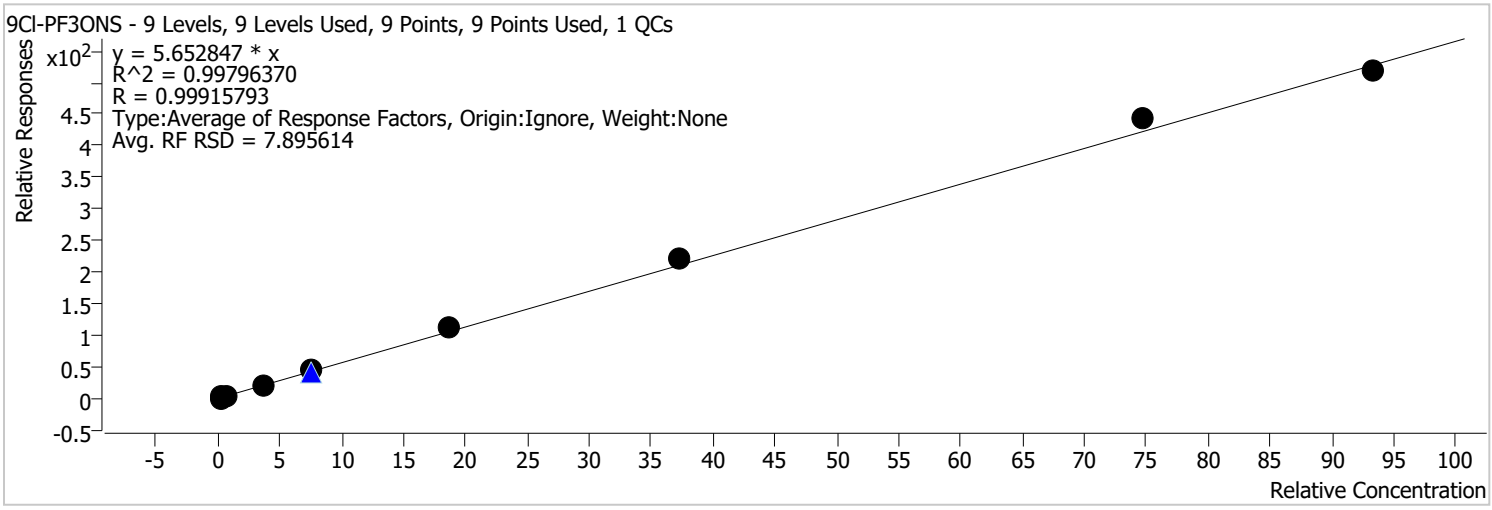


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	5720	0.1000	0.8796
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	11299	0.2000	0.8181
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	33632	0.5000	1.0465
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	153835	2.5000	0.9439
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	222991	3.5850	0.9387
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	345695	5.0000	1.0633
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	881484	12.5000	1.0915
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1758047	25.0000	1.1369
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	3572202	50.0000	1.1950
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	4520480	62.5000	1.2201

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

9Cl-PF3ONS: RSE=7.9

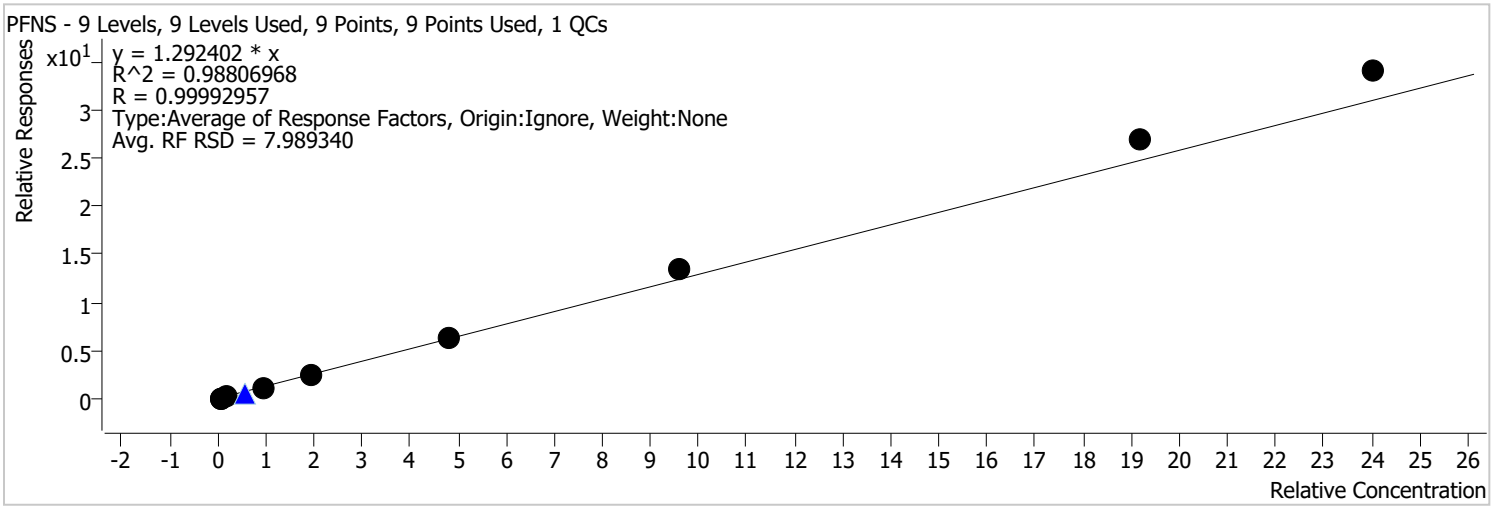


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	20967	0.3730	4.6430
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	46984	0.7460	5.3913
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	126385	1.8700	6.0349
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	574717	9.3300	5.5025
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	1222733	18.7000	5.9247
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	1137091	19.0500	5.5057
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	3040496	46.7000	5.9243
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	5555896	93.3000	5.9857
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	10319786	187.0000	5.9150
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	12172788	233.0000	5.5543

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFNS: RSE=8.0

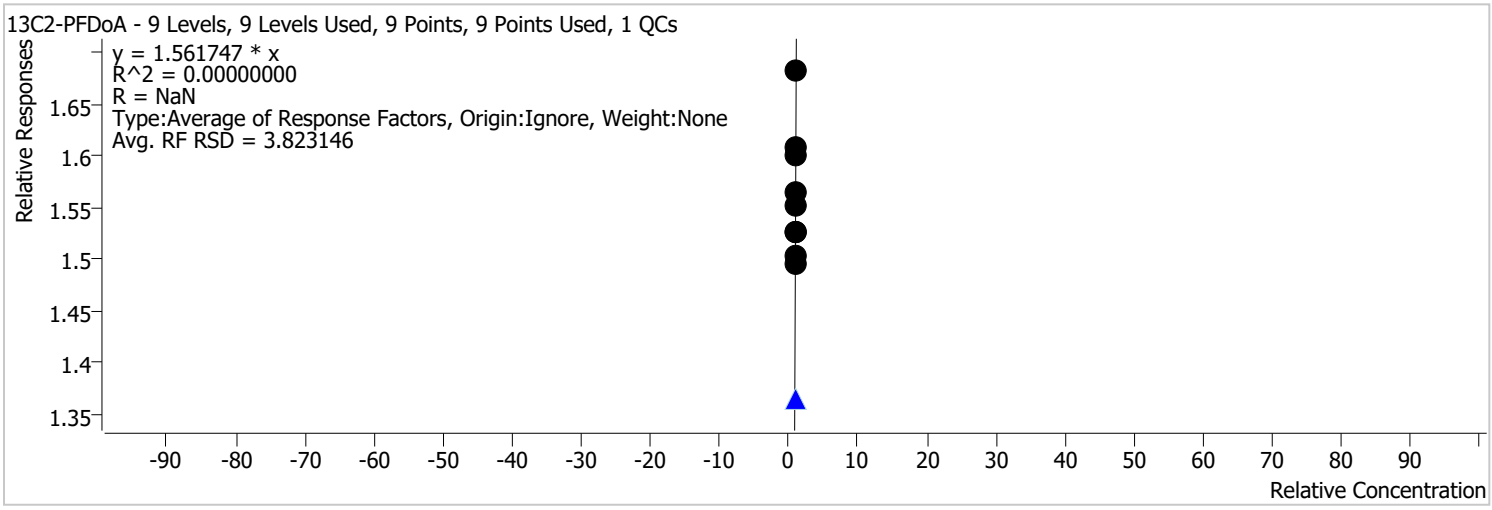


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	1426	0.0960	1.2267
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	2555	0.1920	1.1392
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	6723	0.4800	1.2506
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	17224	1.3600	1.1682
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	31939	2.4000	1.1887
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	66996	4.8000	1.2647
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	174757	12.0000	1.3252
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	335485	24.0000	1.4051
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	632357	48.0000	1.4120
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	801089	60.0000	1.4195

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C2-PFDoA: RSE=3.8

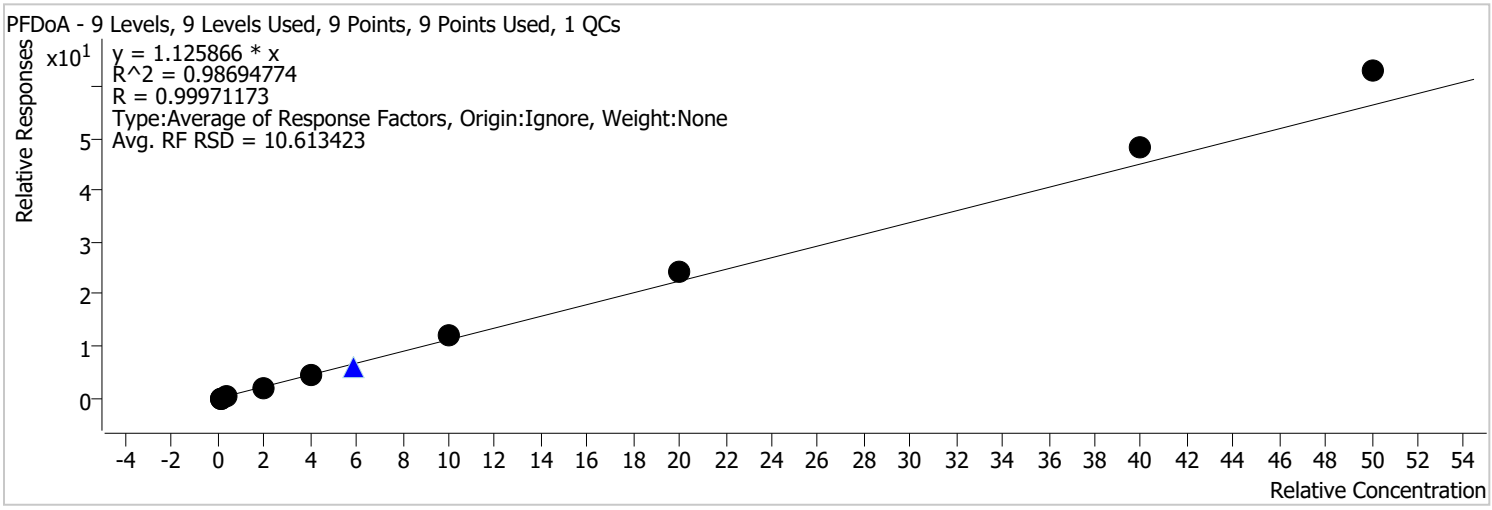


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	96782	1.2500	1.4947
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	100448	1.2500	1.5032
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	93477	1.2500	1.6814
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	92627	1.2500	1.5992
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	98762	1.2500	1.5264
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	93094	1.2500	1.5506
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	92477	1.2500	1.5263
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	93550	1.2500	1.6090
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	91386	1.2500	1.5649
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	94005	1.2500	1.3652

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFDoA: RSE=10.6

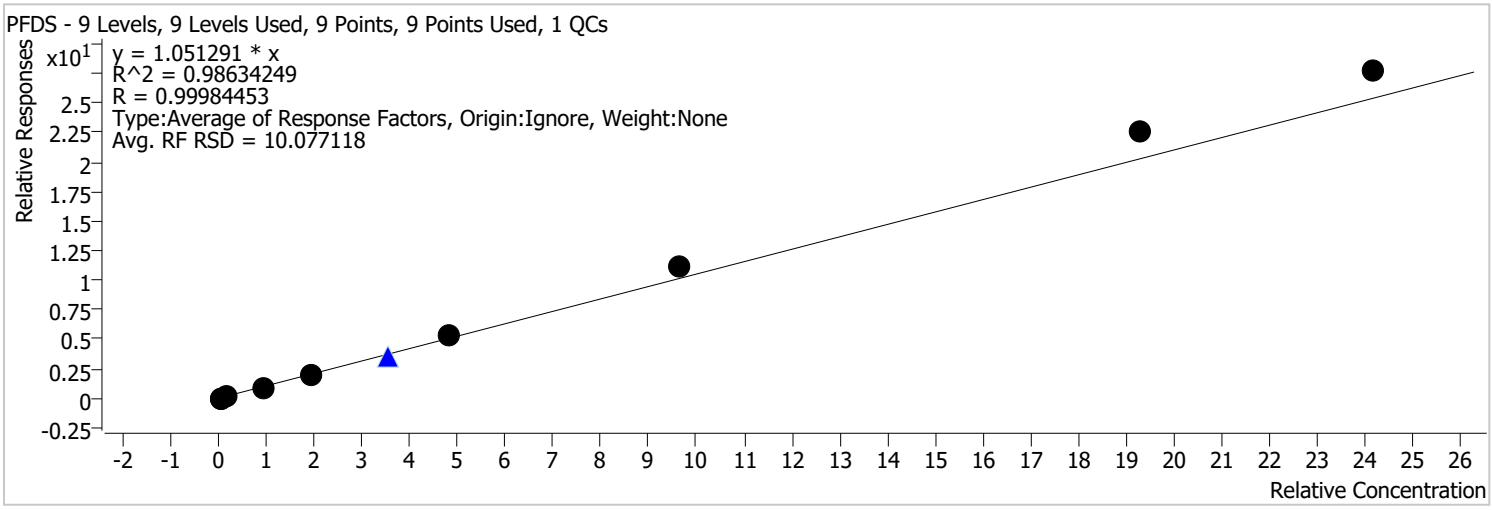


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	7278	0.1000	0.9399
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	15083	0.2000	0.9385
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	42714	0.5000	1.1424
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	197564	2.5000	1.0664
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	453549	5.0000	1.1481
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	572049	7.3500	1.0349
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	1132542	12.5000	1.2166
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	2253739	25.0000	1.2185
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	4513636	50.0000	1.2062
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	5739815	62.5000	1.2562

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFDS: RSE=10.1

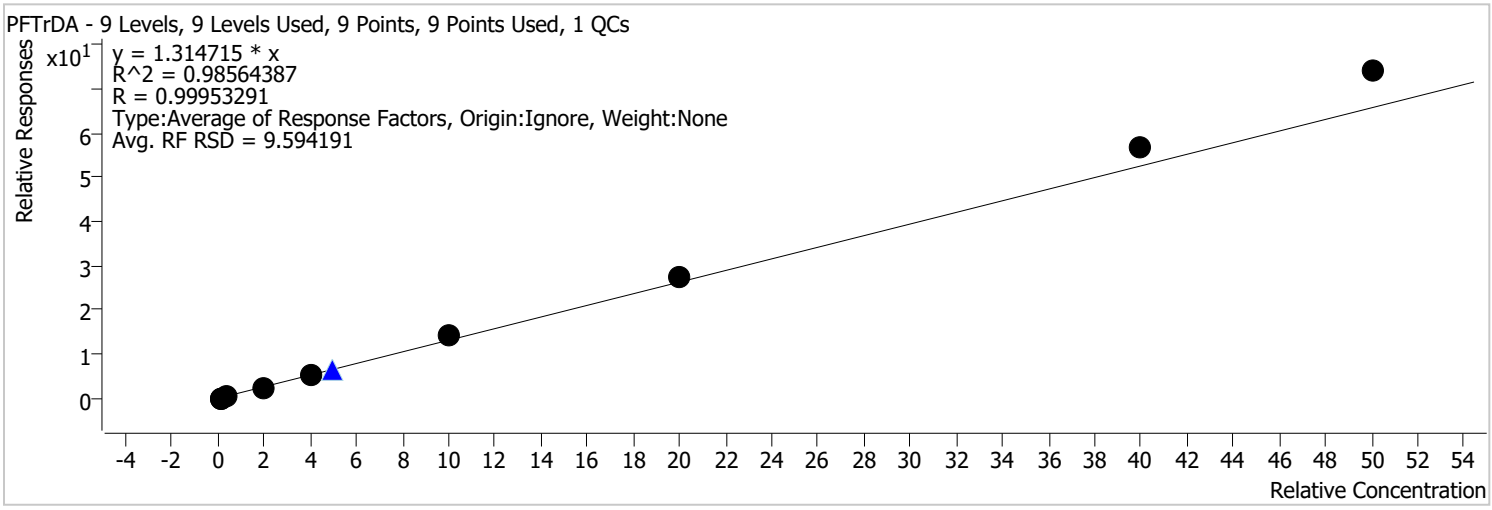


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	1028	0.0960	0.8844
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	2075	0.1930	0.9203
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	5525	0.4820	1.0235
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	26450	2.4100	0.9804
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	57157	4.8200	1.0745
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	94568	8.8500	0.9856
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	145705	12.1000	1.0957
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	278391	24.1000	1.1611
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	528297	48.2000	1.1748
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	650503	60.3000	1.1469

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFTrDA: RSE=9.6

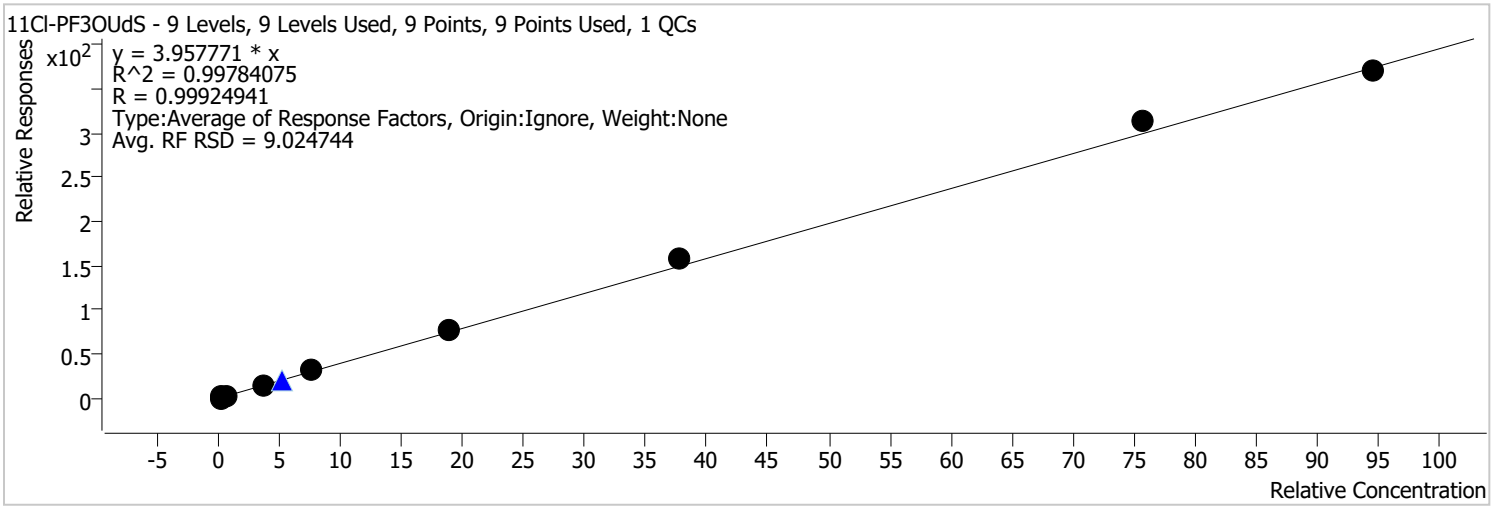


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	8714	0.1000	1.1255
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	18197	0.2000	1.1322
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	50199	0.5000	1.3426
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	230242	2.5000	1.2428
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	512359	5.0000	1.2970
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	582429	6.1500	1.2593
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	1317987	12.5000	1.4158
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	2557262	25.0000	1.3826
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	5292971	50.0000	1.4145
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	6760187	62.5000	1.4795

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

11Cl-PF3OUdS: RSE=9.0

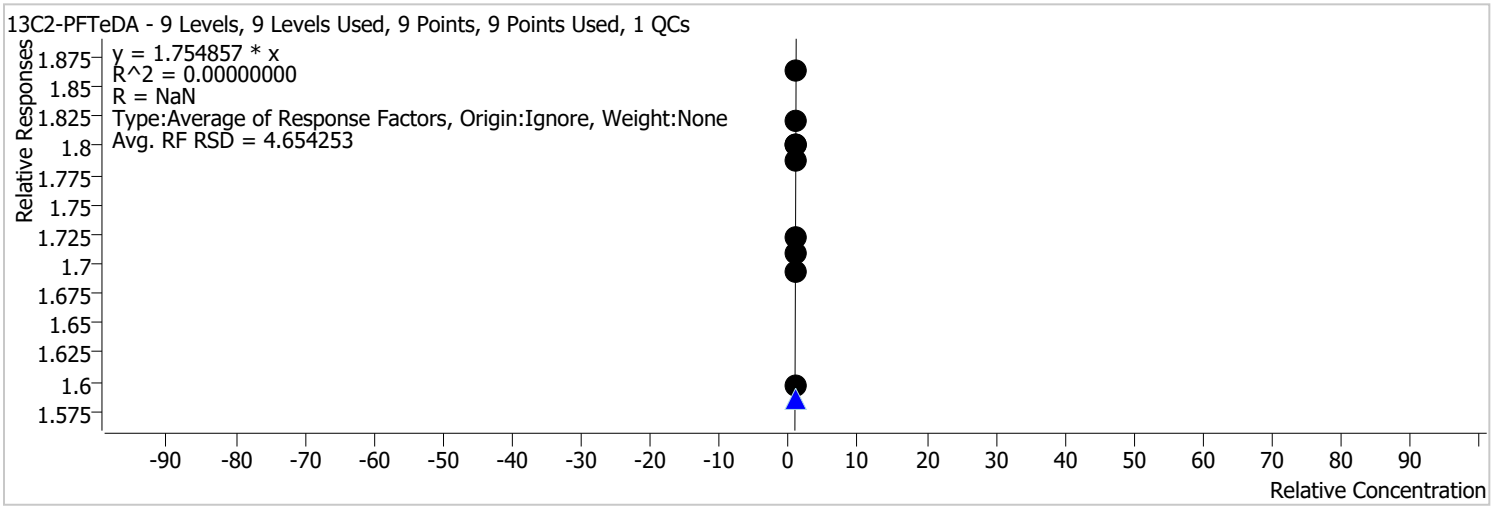


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	14767	0.3770	3.2353
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	31608	0.7540	3.5884
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	89380	1.8900	4.2227
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	402292	9.4300	3.8108
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	538298	12.9500	3.8341
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	895865	18.9000	4.2949
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	2163970	47.2000	4.1718
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	3965188	94.3000	4.2267
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	7318652	189.0000	4.1505
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	8699352	236.0000	3.9189

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:21 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C2-PFTeDA: RSE=4.7

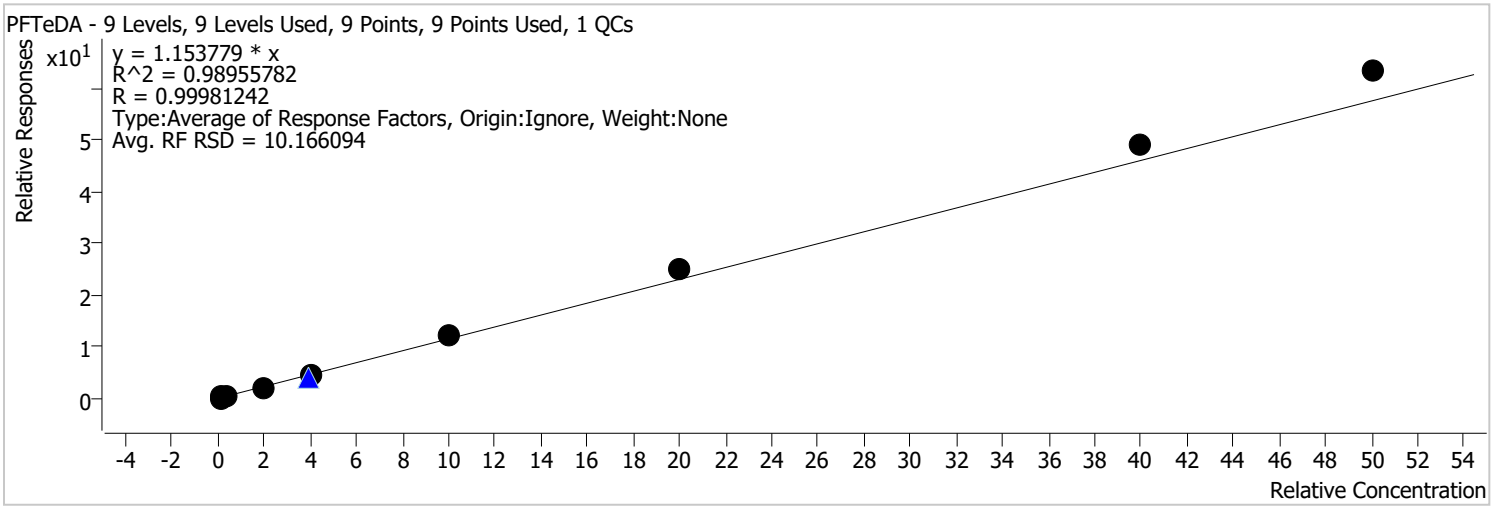


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	109689	1.2500	1.6941
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	106651	1.2500	1.5960
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	103568	1.2500	1.8630
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	104298	1.2500	1.8007
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	111376	1.2500	1.7214
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	107306	1.2500	1.7874
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	103593	1.2500	1.7097
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	105853	1.2500	1.8206
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	105172	1.2500	1.8009
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	109224	1.2500	1.5862

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFTeDA: RSE=10.2

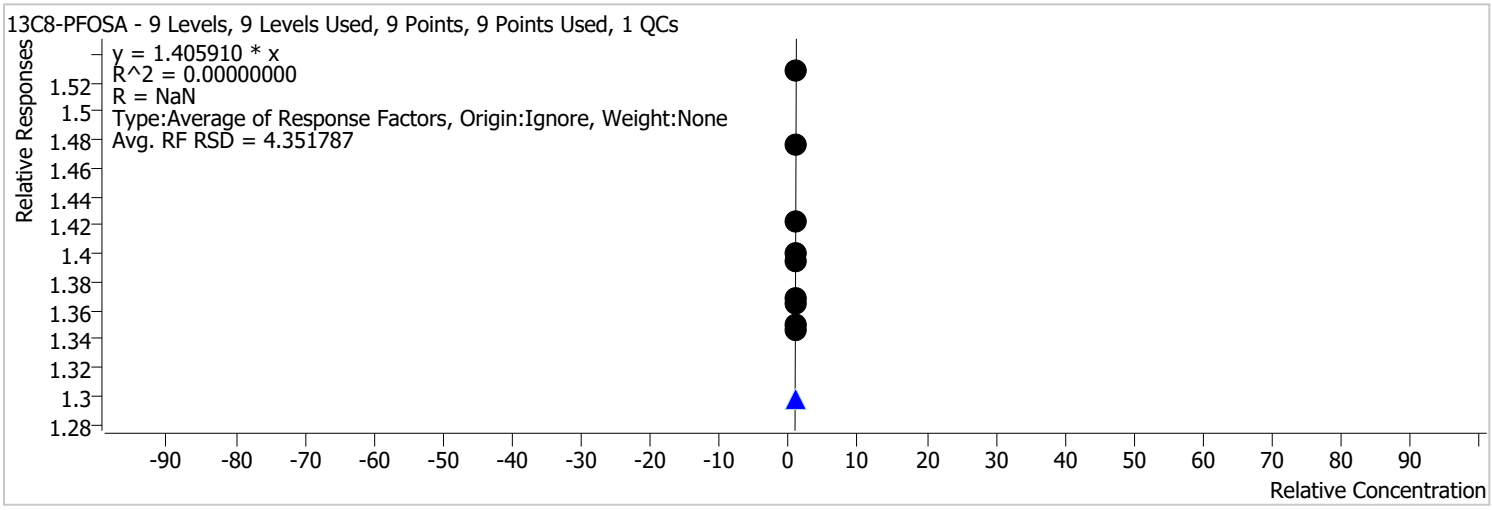


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	7956	0.1000	0.9066
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	17974	0.2000	1.0533
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	49083	0.5000	1.1848
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	229636	2.5000	1.1009
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	449388	4.8350	1.0637
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	514984	5.0000	1.1560
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	1315278	12.5000	1.2257
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	2609479	25.0000	1.2595
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	5202403	50.0000	1.2287
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	6670728	62.5000	1.2685

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

13C8-PFOSA: RSE=4.4

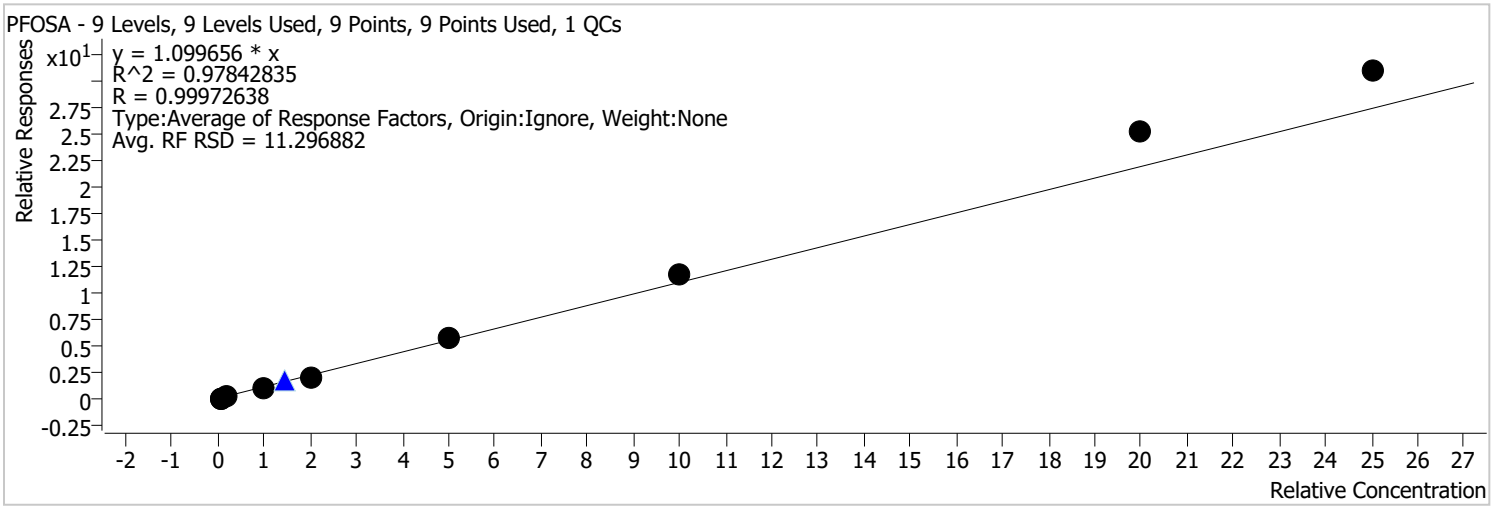


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	40502	2.5000	1.3470
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	41949	2.5000	1.3647
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	38678	2.5000	1.4769
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	39417	2.5000	1.4004
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	41017	2.5000	1.3693
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	38489	2.5000	1.3938
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	36836	2.5000	1.3508
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	35011	2.5000	1.4222
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	35788	2.5000	1.5281
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	39624	2.5000	1.2985

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFOSA: RSE=11.3

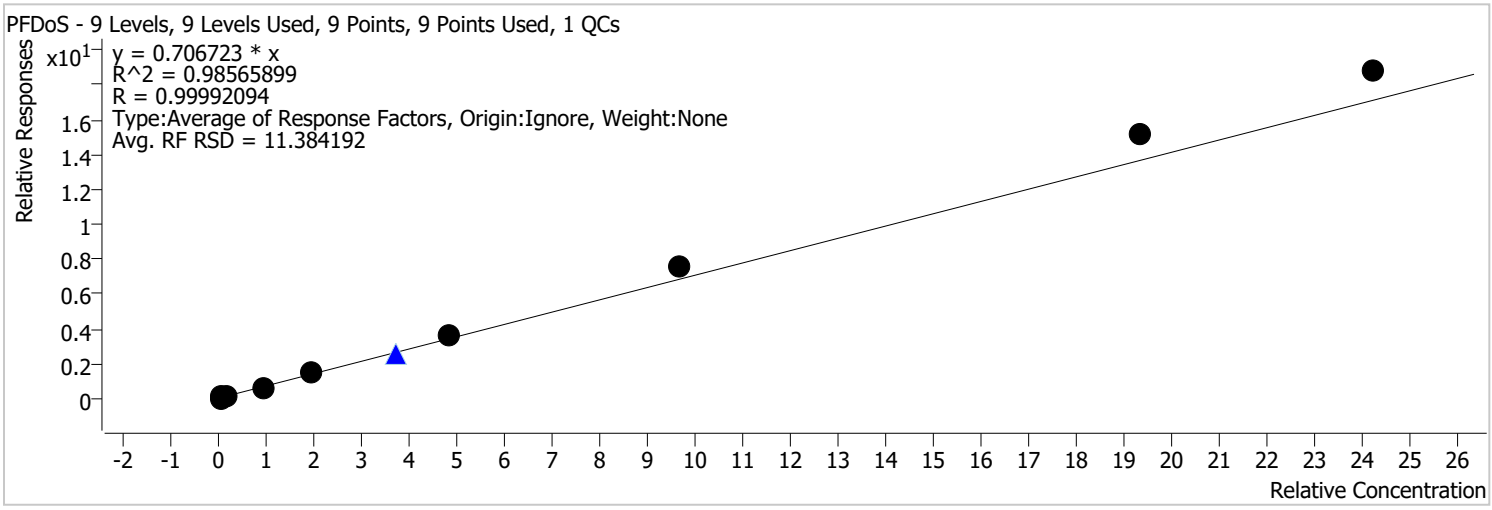


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	1495	0.1000	0.9229
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	3257	0.2000	0.9706
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	8679	0.5000	1.1219
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	38866	2.5000	0.9860
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	63580	3.6650	1.0945
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	85301	5.0000	1.0398
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	224305	12.5000	1.1656
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	436821	25.0000	1.1859
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	884842	50.0000	1.2636
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	1110017	62.5000	1.2406

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

PFDoS: RSE=11.4

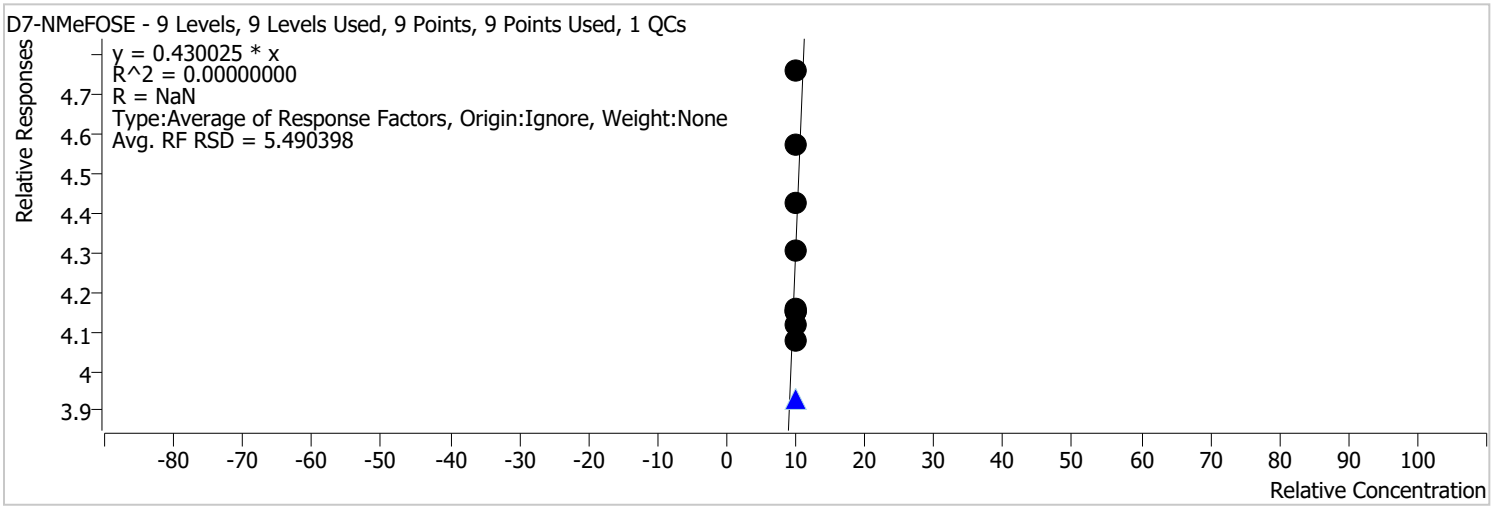


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	640	0.0970	0.5447
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	1467	0.1940	0.6474
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	3726	0.4840	0.6874
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	17799	2.4200	0.6570
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	39280	4.8400	0.7354
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	69220	9.3000	0.6865
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	98814	12.1000	0.7431
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	188222	24.2000	0.7818
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	355645	48.4000	0.7876
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	441744	60.5000	0.7763

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

D7-NMeFOSE: RSE=5.5

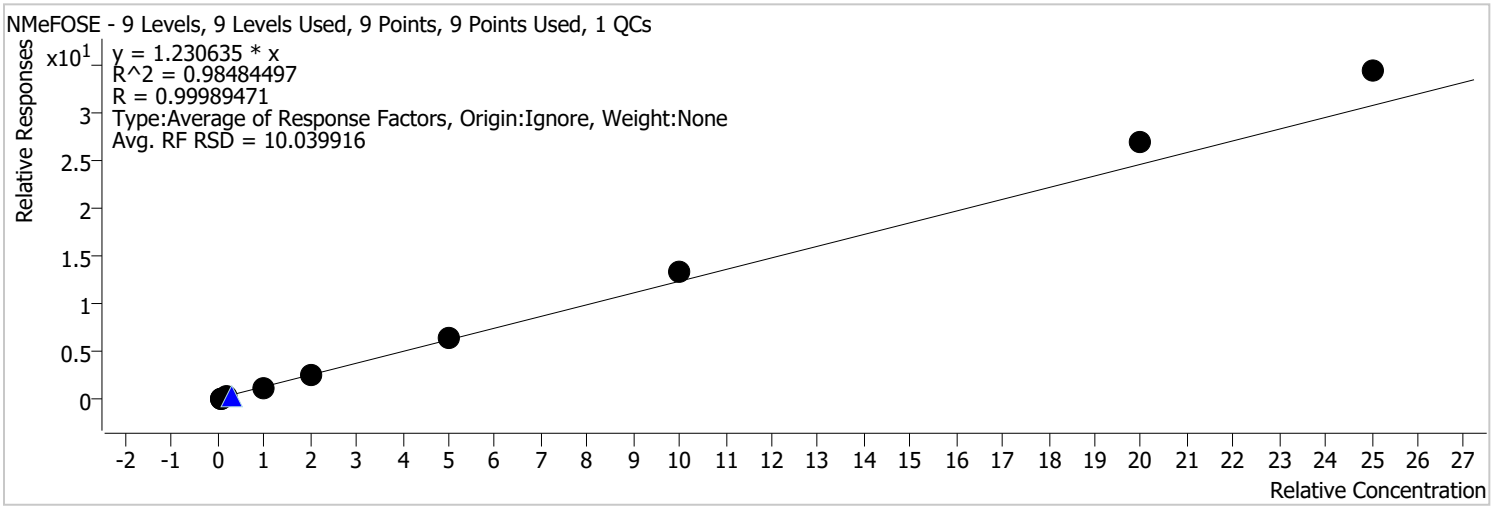


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	124771	25.0000	0.4150
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	125230	25.0000	0.4074
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	115925	25.0000	0.4426
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	116807	25.0000	0.4150
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	123224	25.0000	0.4114
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	118867	25.0000	0.4304
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	113439	25.0000	0.4160
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	112482	25.0000	0.4569
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	111363	25.0000	0.4755
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	119998	25.0000	0.3932

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

NMeFOSE: RSE=10.0

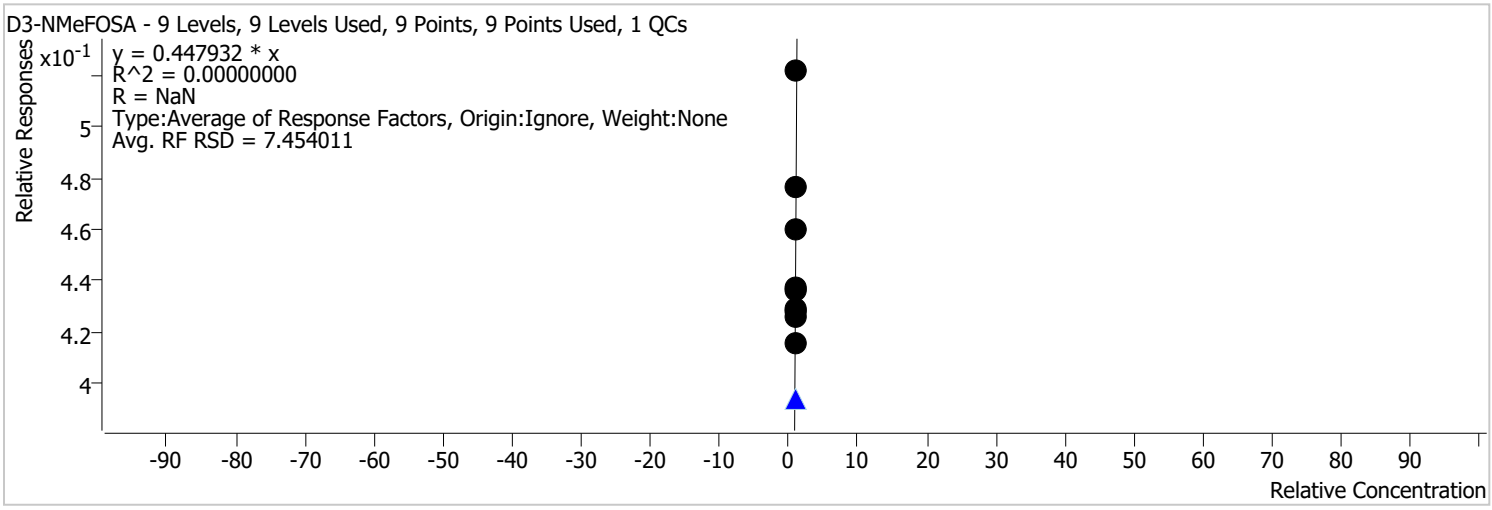


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	5152	1.0000	1.0322
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	10687	2.0000	1.0668
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	28852	5.0000	1.2444
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	42297	7.5000	1.1749
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	135753	25.0000	1.1622
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	298797	50.0000	1.2124
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	770592	125.0000	1.2966
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1511668	250.0000	1.3326
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	3045022	500.0000	1.3536
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	3828129	625.0000	1.3750

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

D3-NMeFOSA: RSE=7.5

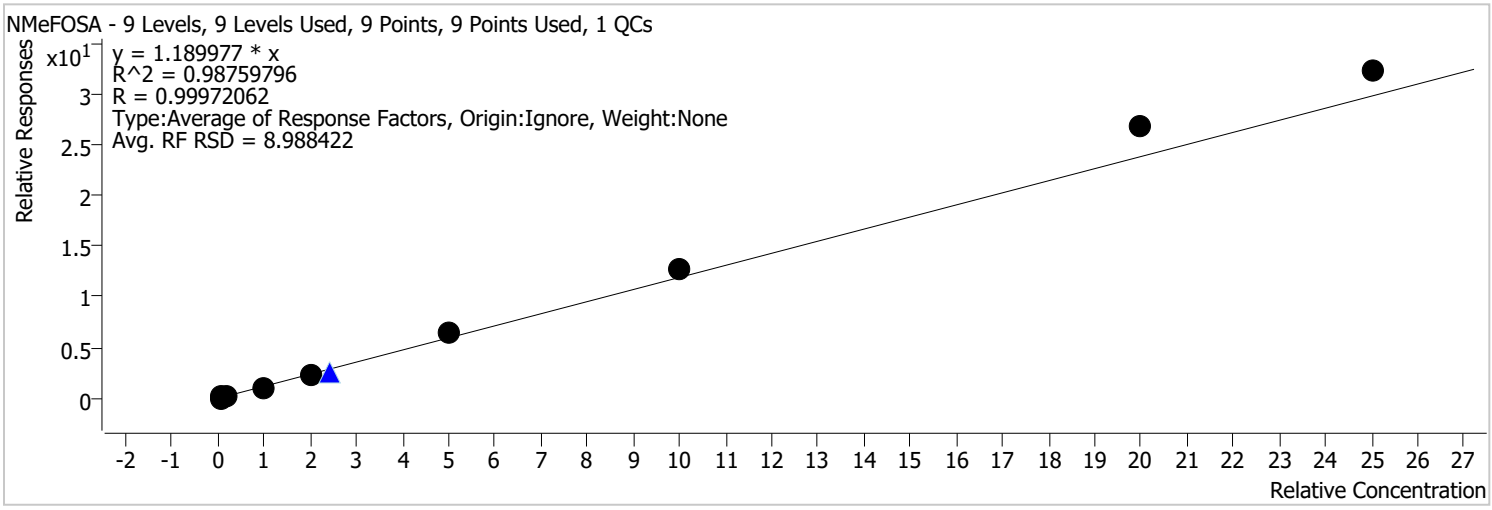


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	12877	2.5000	0.4283
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	12787	2.5000	0.4160
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	12044	2.5000	0.4599
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	11990	2.5000	0.4260
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	12845	2.5000	0.4288
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	12071	2.5000	0.4371
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	11909	2.5000	0.4367
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	11742	2.5000	0.4770
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	12217	2.5000	0.5216
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	12031	2.5000	0.3943

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

NMeFOSA: RSE=9.0

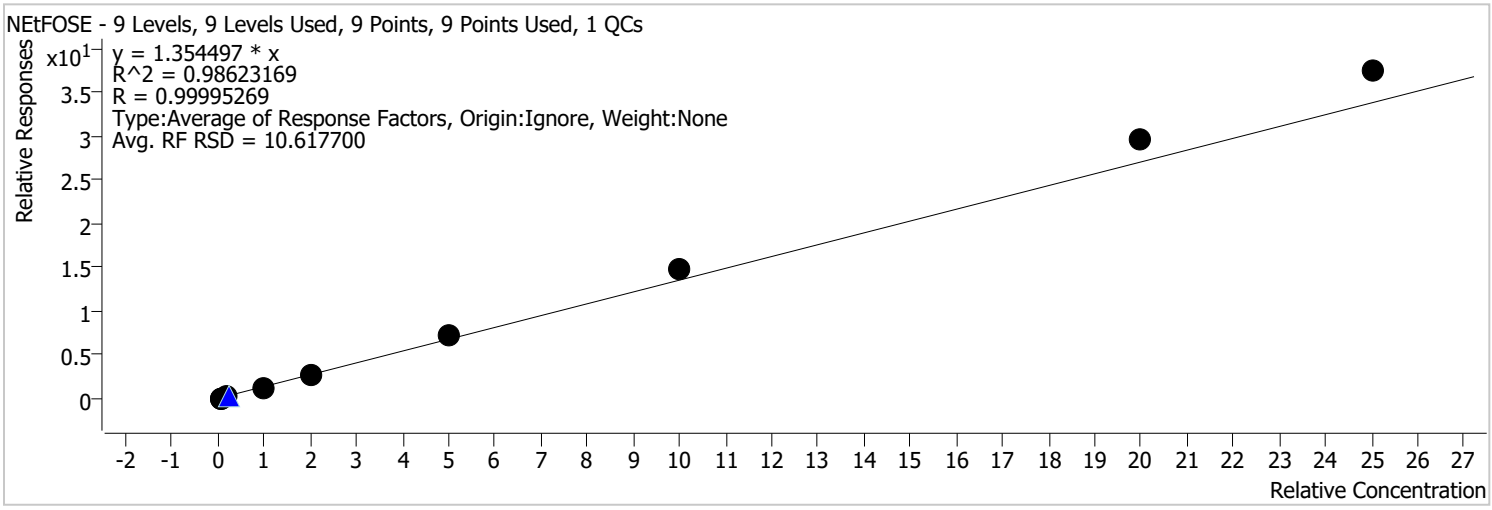


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	523	0.1000	1.0155
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	1138	0.2000	1.1125
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	2817	0.5000	1.1695
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	13049	2.5000	1.0883
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	29801	5.0000	1.1600
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	30520	6.0000	1.0569
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	76519	12.5000	1.2678
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	151860	25.0000	1.2752
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	313184	50.0000	1.3336
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	393188	62.5000	1.2873

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

NEtFOSE: RSE=10.6

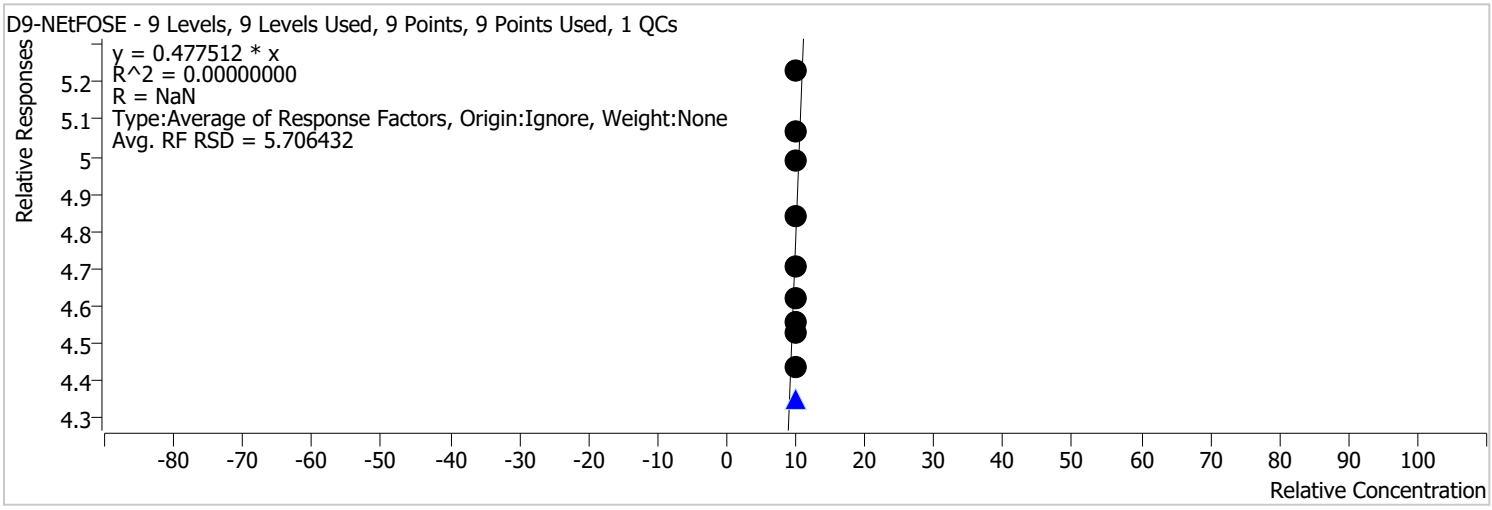


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	6111	1.0000	1.1158
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	13227	2.0000	1.1635
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	36282	5.0000	1.3884
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	38728	5.5000	1.3249
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	165708	25.0000	1.2505
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	368102	50.0000	1.3841
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	948403	125.0000	1.4194
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	1827518	250.0000	1.4809
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	3717002	500.0000	1.4891
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	4588573	625.0000	1.4989

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

D9-NEtFOSE: RSE=5.7

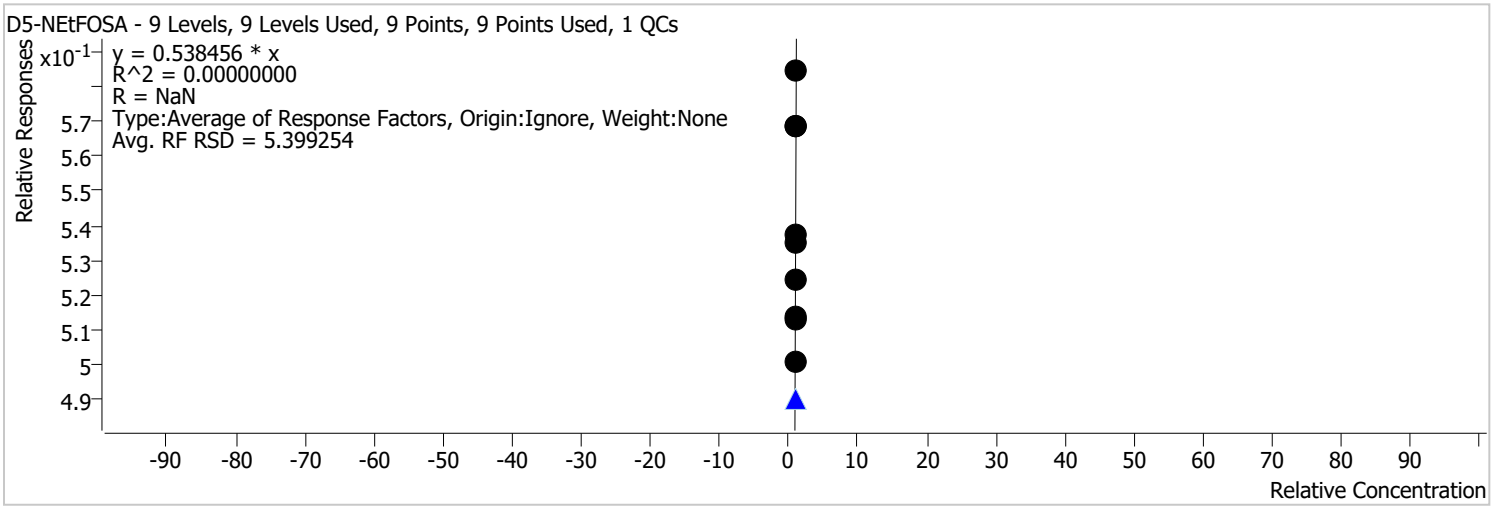


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	136925	25.0000	0.4554
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	142103	25.0000	0.4623
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	130656	25.0000	0.4989
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	132513	25.0000	0.4708
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	132977	25.0000	0.4439
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	133632	25.0000	0.4839
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	123407	25.0000	0.4525
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	124810	25.0000	0.5070
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	122456	25.0000	0.5229
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	132872	25.0000	0.4354

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

D5-NEtFOSA: RSE=5.4

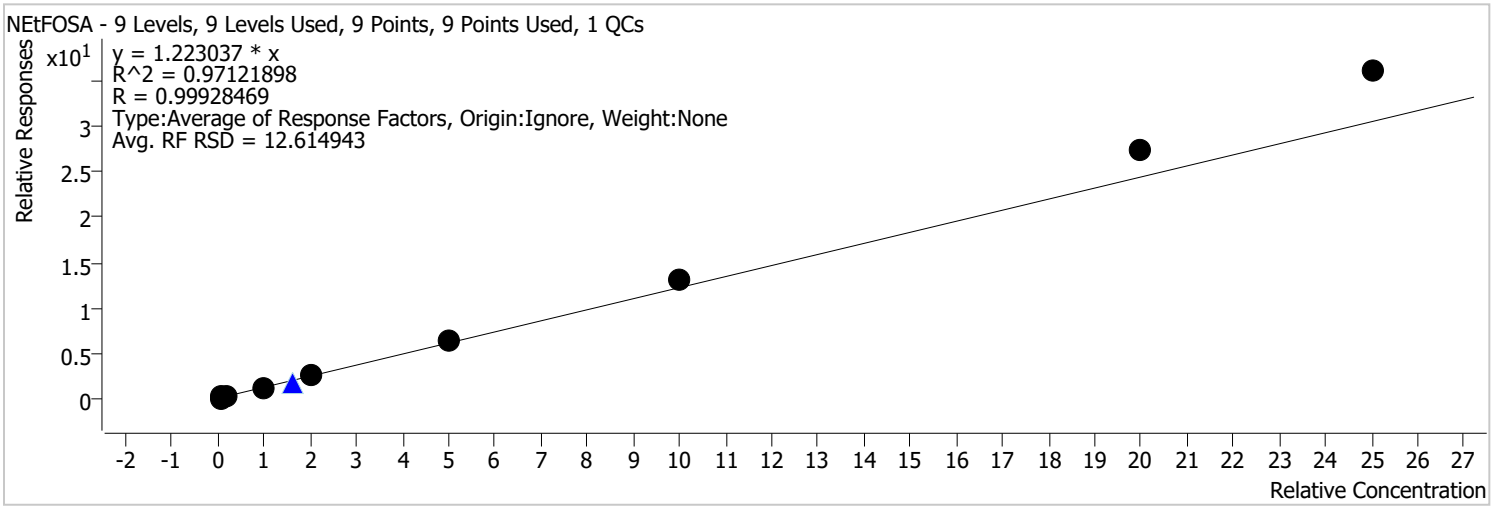


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	16082	2.5000	0.5349
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	15766	2.5000	0.5129
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	14896	2.5000	0.5688
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	14472	2.5000	0.5142
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	15007	2.5000	0.5010
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	14843	2.5000	0.5375
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	14299	2.5000	0.5244
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	13992	2.5000	0.5684
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	13682	2.5000	0.5842
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	14971	2.5000	0.4906

Quantitative Analysis Complete Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:22 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

NEtFOSA: RSE=12.6



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
P:\PFA2\052325A-1633F ICAL\052325A-0003.d	Calibration	1	x	603	0.1000	0.9375
P:\PFA2\052325A-1633F ICAL\052325A-0004.d	Calibration	2	x	1399	0.2000	1.1096
P:\PFA2\052325A-1633F ICAL\052325A-0005.d	Calibration	3	x	3571	0.5000	1.1987
P:\PFA2\052325A-1633F ICAL\052325A-0006.d	Calibration	4	x	16230	2.5000	1.1215
P:\PFA2\052325A-1633F ICAL\052325A-0013.d	QC	10	x	26975	4.0000	1.1261
P:\PFA2\052325A-1633F ICAL\052325A-0007.d	Calibration	5	x	36839	5.0000	1.2274
P:\PFA2\052325A-1633F ICAL\052325A-0008.d	Calibration	6	x	94125	12.5000	1.2682
P:\PFA2\052325A-1633F ICAL\052325A-0009.d	Calibration	7	x	188918	25.0000	1.3212
P:\PFA2\052325A-1633F ICAL\052325A-0010.d	Calibration	8	x	385575	50.0000	1.3779
P:\PFA2\052325A-1633F ICAL\052325A-0011.d	Calibration	9	x	494390	62.5000	1.4454

FORM 7 PFAS-1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 37405123ICV
Standard ID: 510294
Date Analyzed: 05/23/2025 12:47:00
Instrument: 10PFA2
SDG No.: 10733872

COMPOUND	KNOWN CONCENTRATION (ug/L)	FOUND CONCENTRATION (ug/L)	%REC	QC LIMITS REC.
11Cl-PF3OUdS	13	12.5454	96.5	70-130
3:3 FTCA	19.6	16.3718	83.5	70-130
4:2 FTS	6.6	6.069	92.0	70-130
5:3 FTCA	16.6	13.0561	78.7	70-130
6:2 FTS	7.6	6.9627	91.6	70-130
7:3 FTCA	15	12.6186	84.1	70-130
8:2 FTS	11.2	10.8635	97.0	70-130
9Cl-PF3ONS	19	18.554	97.7	70-130
ADONA	14.2	13.1275	92.4	70-130
HFPO-DA	18.4	18.352	99.7	70-130
NEtFOSAA	4	3.6211	90.5	70-130
NEtFOSA	4	3.683	92.1	70-130
NEtFOSE	5.5	5.3796	97.8	70-130
NFDHA	14.6	12.2762	84.1	70-130
NMeFOSAA	3.8	3.2739	86.2	70-130
NMeFOSA	6	5.3292	88.8	70-130
NMeFOSE	7.5	7.1606	95.5	70-130
PFBS	6.9	6.6143	95.9	70-130
PFDA	5.2	5.0295	96.7	70-130
PFHxA	5.6	4.9066	87.6	70-130
PFBA	9.6	8.6339	89.9	70-130
PFDS	8.8	8.2972	94.3	70-130
PFDoS	9.3	9.0343	97.1	70-130
PFEESA	5.8	5.0545	87.1	70-130
PFHpS	2.4	2.2008	91.7	70-130
PFMBA	16.2	15.3308	94.6	70-130
PFMPA	15	14.044	93.6	70-130
PFNS	1.4	1.2293	87.8	70-130
PFOSA	3.7	3.6479	98.6	70-130
PFPeA	18.8	16.9898	90.4	70-130
PFPeS	6.4	5.5766	87.1	70-130
PFDoA	7.4	6.7562	91.3	70-130
PFHpA	5.8	5.1751	89.2	70-130
PFHxS	4.7	4.0966	87.2	70-130
PFNA	2.4	2.6411	110.0	70-130
PFOS	8.1	6.8359	84.4	70-130
PFOA	8.8	10.0232	113.9	70-130
PFTeDA	4.8	4.4575	92.9	70-130
PFTrDA	6.2	5.8907	95.0	70-130
PFUnA	3.6	3.2239	89.6	70-130

Spike Recovery: 0 out of 40 outside limits.

FORM 7 PFAS-1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 37432612CCV
Standard ID: 510285
Date Analyzed: 05/29/2025 10:38:00
Instrument: 10PFA2
SDG No.: 10733872

COMPOUND	KNOWN CONCENTRATION (ug/L)	FOUND CONCENTRATION (ug/L)	%REC	QC LIMITS REC.
11Cl-PF3OUdS	0.754	0.6978	92.5	70-130
3:3 FTCA	1	0.782	78.2	70-130
4:2 FTS	0.75	0.6757	90.1	70-130
5:3 FTCA	5	3.8738	77.5	70-130
6:2 FTS	0.761	0.666	87.5	70-130
7:3 FTCA	5	4.4619	89.2	70-130
8:2 FTS	0.768	0.6781	88.3	70-130
9Cl-PF3ONS	0.746	0.7217	96.7	70-130
ADONA	0.756	0.5686	75.2	70-130
HFPO-DA	0.8	0.6792	84.9	70-130
NEtFOSAA	0.2	0.1616	80.8	70-130
NEtFOSA	0.2	0.1663	83.2	70-130
NEtFOSE	2	1.6965	84.8	70-130
NFDHA	0.4	0.3709	92.7	70-130
NMeFOSAA	0.2	0.1711	85.6	70-130
NMeFOSA	0.2	0.1851	92.6	70-130
NMeFOSE	2	1.6516	82.6	70-130
PFBS	0.178	0.1458	81.9	70-130
PFDA	0.2	0.1625	81.2	70-130
PFHxA	0.2	0.1686	84.3	70-130
PFBA	0.8	0.6995	87.4	70-130
PFDS	0.193	0.1785	92.5	70-130
PFDoS	0.194	0.1985	102.3	70-130
PFEESA	0.357	0.3178	89.0	70-130
PFHpS	0.19	0.1825	96.1	70-130
PFMBA	0.4	0.3436	85.9	70-130
PFMPA	0.4	0.3462	86.6	70-130
PFNS	0.192	0.1713	89.2	70-130
PFOSA	0.2	0.166	83.0	70-130
PFPeA	0.4	0.3506	87.6	70-130
PFPeS	0.188	0.1775	94.4	70-130
PFDoA	0.2	0.1651	82.6	70-130
PFHpA	0.2	0.1631	81.6	70-130
PFHxS	0.182	0.1658	91.1	70-130
PFNA	0.2	0.1657	82.8	70-130
PFOS	0.186	0.1721	92.5	70-130
PFOA	0.2	0.177	88.5	70-130
PFTeDA	0.2	0.1679	84.0	70-130
PFTrDA	0.2	0.1695	84.8	70-130
PFUnA	0.2	0.1622	81.1	70-130

Spike Recovery: 0 out of 40 outside limits.

06/10/2025 12:04

FORM 7 PFAS-1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 37432616CCVB
Standard ID: 510289
Date Analyzed: 05/29/2025 12:31:00
Instrument: 10PFA2
SDG No.: 10733872

COMPOUND	KNOWN CONCENTRATION (ug/L)	FOUND CONCENTRATION (ug/L)	%REC	QC LIMITS REC.
11Cl-PF3OUdS	18.9	19.6897	104.2	70-130
3:3 FTCA	25	20.9175	83.7	70-130
4:2 FTS	18.7	18.5923	99.4	70-130
5:3 FTCA	125	115.2686	92.2	70-130
6:2 FTS	19	19.8487	104.5	70-130
7:3 FTCA	125	116.1925	93.0	70-130
8:2 FTS	19.2	19.5512	101.8	70-130
9Cl-PF3ONS	18.7	19.7981	105.9	70-130
ADONA	18.9	16.4784	87.2	70-130
HFPO-DA	20	19.8246	99.1	70-130
NEtFOSAA	5	4.5819	91.6	70-130
NEtFOSA	5	4.6595	93.2	70-130
NEtFOSE	50	49.675	99.4	70-130
NFDHA	10	10.0151	100.2	70-130
NMeFOSAA	5	4.6511	93.0	70-130
NMeFOSA	5	4.9757	99.5	70-130
NMeFOSE	50	48.8229	97.6	70-130
PFBS	4.44	4.5371	102.2	70-130
PFDA	5	5.1155	102.3	70-130
PFHxA	5	4.9193	98.4	70-130
PFBA	20	19.721	98.6	70-130
PFDS	4.82	4.7386	98.3	70-130
PFDoS	4.84	5.2951	109.4	70-130
PFEESA	8.92	8.8955	99.7	70-130
PFHpS	4.76	4.6368	97.4	70-130
PFMBA	10	9.9122	99.1	70-130
PFMPA	10	9.8159	98.2	70-130
PFNS	4.8	4.8446	100.9	70-130
PFOSA	5	4.882	97.6	70-130
PFPeA	10	9.8801	98.8	70-130
PFPeS	4.7	4.4489	94.7	70-130
PFDoA	5	5.2386	104.8	70-130
PFHpA	5	5.0148	100.3	70-130
PFHxS	4.56	4.2719	93.7	70-130
PFNA	5	4.7285	94.6	70-130
PFOS	4.64	4.3336	93.4	70-130
PFOA	5	4.8362	96.7	70-130
PFTeDA	5	5.0169	100.3	70-130
PFTrDA	5	4.8869	97.7	70-130
PFUnA	5	4.792	95.8	70-130

Spike Recovery: 0 out of 40 outside limits.

FORM 7 PFAS-1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 37439278CCVB
Standard ID: 510289
Date Analyzed: 05/29/2025 16:03:00
Instrument: 10PFA2
SDG No.: 10733872

COMPOUND	KNOWN CONCENTRATION (ug/L)	FOUND CONCENTRATION (ug/L)	%REC	QC LIMITS REC.
11Cl-PF3OUdS	18.9	19.9627	105.6	70-130
3:3 FTCA	25	20.0057	80.0	70-130
4:2 FTS	18.7	19.0488	101.9	70-130
5:3 FTCA	125	115.5197	92.4	70-130
6:2 FTS	19	18.7127	98.5	70-130
7:3 FTCA	125	120.6692	96.5	70-130
8:2 FTS	19.2	19.0785	99.4	70-130
9Cl-PF3ONS	18.7	19.1434	102.4	70-130
ADONA	18.9	16.5626	87.6	70-130
HFPO-DA	20	20.4029	102.0	70-130
NEtFOSAA	5	4.6219	92.4	70-130
NEtFOSA	5	4.8313	96.6	70-130
NEtFOSE	50	50.1817	100.4	70-130
NFDHA	10	9.7803	97.8	70-130
NMeFOSAA	5	4.5945	91.9	70-130
NMeFOSA	5	5.0767	101.5	70-130
NMeFOSE	50	50.3033	100.6	70-130
PFBS	4.44	4.4585	100.4	70-130
PFDA	5	5.0461	100.9	70-130
PFHxA	5	4.9706	99.4	70-130
PFBA	20	19.9934	100.0	70-130
PFDS	4.82	4.7458	98.5	70-130
PFDoS	4.84	5.2276	108.0	70-130
PFEESA	8.92	8.9959	100.9	70-130
PFHpS	4.76	4.6815	98.4	70-130
PFMBA	10	9.954	99.5	70-130
PFMPA	10	9.8562	98.6	70-130
PFNS	4.8	4.7719	99.4	70-130
PFOSA	5	4.9471	98.9	70-130
PFPeA	10	9.9318	99.3	70-130
PFPeS	4.7	4.7531	101.1	70-130
PFDoA	5	5.0658	101.3	70-130
PFHpA	5	5.09	101.8	70-130
PFHxS	4.56	4.4863	98.4	70-130
PFNA	5	5.095	101.9	70-130
PFOS	4.64	4.2372	91.3	70-130
PFOA	5	4.7777	95.6	70-130
PFTeDA	5	5.0768	101.5	70-130
PFTrDA	5	4.7455	94.9	70-130
PFUnA	5	4.8519	97.0	70-130

Spike Recovery: 0 out of 40 outside limits.

FORM 7 PFAS-1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 37439280CCVB
Standard ID: 510289
Date Analyzed: 05/29/2025 18:52:00
Instrument: 10PFA2
SDG No.: 10733872

COMPOUND	KNOWN CONCENTRATION (ug/L)	FOUND CONCENTRATION (ug/L)	%REC	QC LIMITS REC.
11Cl-PF3OUdS	18.9	20.6207	109.1	70-130
3:3 FTCA	25	20.9669	83.9	70-130
4:2 FTS	18.7	18.9391	101.3	70-130
5:3 FTCA	125	113.013	90.4	70-130
6:2 FTS	19	19.7398	103.9	70-130
7:3 FTCA	125	114.649	91.7	70-130
8:2 FTS	19.2	21.2419	110.6	70-130
9Cl-PF3ONS	18.7	20.117	107.6	70-130
ADONA	18.9	16.1606	85.5	70-130
HFPO-DA	20	20.4706	102.4	70-130
NEtFOSAA	5	4.443	88.9	70-130
NEtFOSA	5	4.8892	97.8	70-130
NEtFOSE	50	48.1514	96.3	70-130
NFDHA	10	9.922	99.2	70-130
NMeFOSAA	5	4.604	92.1	70-130
NMeFOSA	5	4.8153	96.3	70-130
NMeFOSE	50	49.3686	98.7	70-130
PFBS	4.44	4.3921	98.9	70-130
PFDA	5	4.873	97.5	70-130
PFHxA	5	4.8735	97.5	70-130
PFBA	20	19.6676	98.3	70-130
PFDS	4.82	4.8878	101.4	70-130
PFDoS	4.84	5.5409	114.5	70-130
PFEESA	8.92	8.9122	99.9	70-130
PFHpS	4.76	4.8836	102.6	70-130
PFMBA	10	10.0074	100.1	70-130
PFMPA	10	9.9345	99.3	70-130
PFNS	4.8	4.869	101.4	70-130
PFOSA	5	4.8099	96.2	70-130
PFPeA	10	9.886	98.9	70-130
PFPeS	4.7	4.7554	101.2	70-130
PFDoA	5	5.0199	100.4	70-130
PFHpA	5	4.8489	97.0	70-130
PFHxS	4.56	4.5476	99.7	70-130
PFNA	5	4.8306	96.6	70-130
PFOS	4.64	4.4608	96.1	70-130
PFOA	5	5.0958	101.9	70-130
PFTeDA	5	4.9188	98.4	70-130
PFTrDA	5	4.7214	94.4	70-130
PFUnA	5	4.8323	96.6	70-130

Spike Recovery: 0 out of 40 outside limits.

FORM 7 PFAS-1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 37437227CCVB
Standard ID: 510289
Date Analyzed: 05/29/2025 21:42:00
Instrument: 10PFA2
SDG No.: 10733872

COMPOUND	KNOWN CONCENTRATION (ug/L)	FOUND CONCENTRATION (ug/L)	%REC	QC LIMITS REC.
11Cl-PF3OUdS	18.9	20.0124	105.9	70-130
3:3 FTCA	25	21.0667	84.3	70-130
4:2 FTS	18.7	19.1266	102.3	70-130
5:3 FTCA	125	111.9535	89.6	70-130
6:2 FTS	19	19.7496	103.9	70-130
7:3 FTCA	125	117.2269	93.8	70-130
8:2 FTS	19.2	19.0227	99.1	70-130
9Cl-PF3ONS	18.7	19.4766	104.2	70-130
ADONA	18.9	16.5153	87.4	70-130
HFPO-DA	20	19.922	99.6	70-130
NEtFOSAA	5	4.7031	94.1	70-130
NEtFOSA	5	4.6921	93.8	70-130
NEtFOSE	50	48.0829	96.2	70-130
NFDHA	10	9.4641	94.6	70-130
NMeFOSAA	5	4.5845	91.7	70-130
NMeFOSA	5	4.9552	99.1	70-130
NMeFOSE	50	48.7323	97.5	70-130
PFBS	4.44	4.5185	101.8	70-130
PFDA	5	5.13	102.6	70-130
PFHxA	5	4.7844	95.7	70-130
PFBA	20	20.3017	101.5	70-130
PFDS	4.82	4.8428	100.5	70-130
PFDoS	4.84	5.5596	114.9	70-130
PFEESA	8.92	8.7272	97.8	70-130
PFHpS	4.76	4.6957	98.6	70-130
PFMBA	10	9.891	98.9	70-130
PFMPA	10	10.0669	100.7	70-130
PFNS	4.8	4.8251	100.5	70-130
PFOSA	5	4.8058	96.1	70-130
PFPeA	10	9.9607	99.6	70-130
PFPeS	4.7	4.6869	99.7	70-130
PFDoA	5	5.0585	101.2	70-130
PFHpA	5	4.8685	97.4	70-130
PFHxS	4.56	4.4343	97.2	70-130
PFNA	5	4.9108	98.2	70-130
PFOS	4.64	4.2697	92.0	70-130
PFOA	5	4.9589	99.2	70-130
PFTeDA	5	4.9695	99.4	70-130
PFTrDA	5	4.5986	92.0	70-130
PFUnA	5	4.9091	98.2	70-130

Spike Recovery: 0 out of 40 outside limits.

FORM 7 PFAS-1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Pace Analytical - Minnesota
Lab Sample ID: 37437229CCVB
Standard ID: 510289
Date Analyzed: 05/30/2025 00:32:00
Instrument: 10PFA2
SDG No.: 10733872

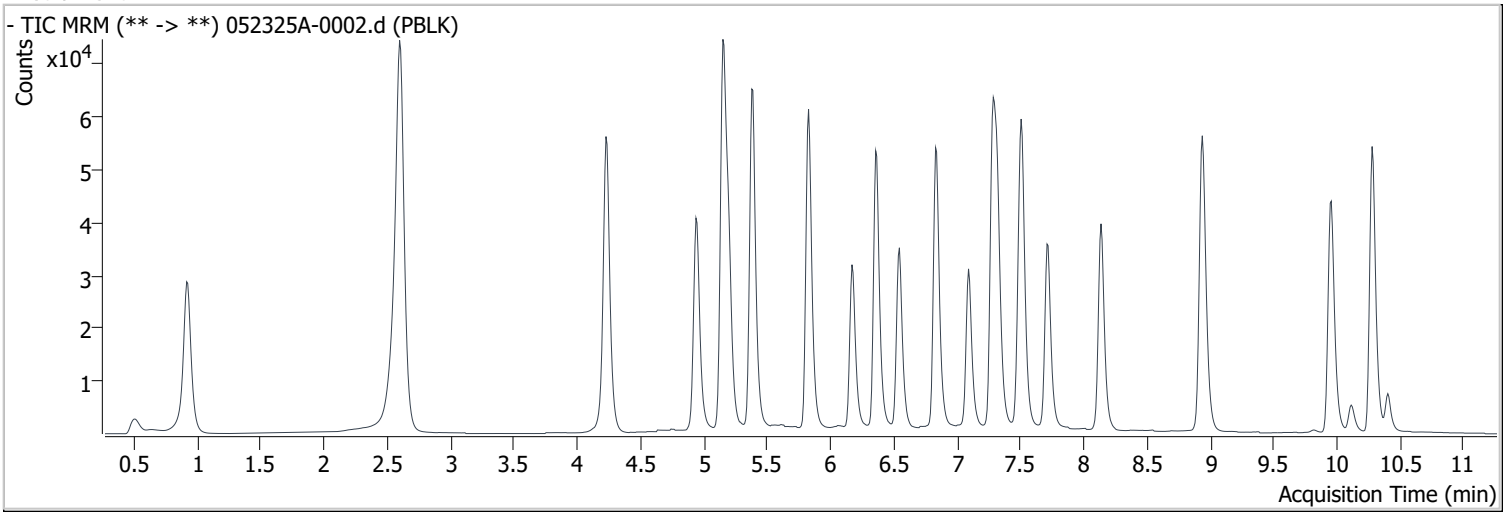
COMPOUND	KNOWN CONCENTRATION (ug/L)	FOUND CONCENTRATION (ug/L)	%REC	QC LIMITS REC.
11Cl-PF3OUdS	18.9	19.3948	102.6	70-130
3:3 FTCA	25	21.7016	86.8	70-130
4:2 FTS	18.7	19.0838	102.1	70-130
5:3 FTCA	125	111.9166	89.5	70-130
6:2 FTS	19	20.0112	105.3	70-130
7:3 FTCA	125	111.3814	89.1	70-130
8:2 FTS	19.2	20.0674	104.5	70-130
9Cl-PF3ONS	18.7	19.5365	104.5	70-130
ADONA	18.9	16.2795	86.1	70-130
HFPO-DA	20	20.4638	102.3	70-130
NEtFOSAA	5	4.6905	93.8	70-130
NEtFOSA	5	4.8283	96.6	70-130
NEtFOSE	50	46.9667	93.9	70-130
NFDHA	10	9.7979	98.0	70-130
NMeFOSAA	5	4.6891	93.8	70-130
NMeFOSA	5	4.8501	97.0	70-130
NMeFOSE	50	48.1136	96.2	70-130
PFBS	4.44	4.3111	97.1	70-130
PFDA	5	5.0134	100.3	70-130
PFHxA	5	4.9473	98.9	70-130
PFBA	20	19.9793	99.9	70-130
PFDS	4.82	4.7726	99.0	70-130
PFDoS	4.84	5.3275	110.1	70-130
PFEESA	8.92	8.8204	98.9	70-130
PFHpS	4.76	4.8086	101.0	70-130
PFMBA	10	9.929	99.3	70-130
PFMPA	10	9.9799	99.8	70-130
PFNS	4.8	4.7413	98.8	70-130
PFOSA	5	4.8599	97.2	70-130
PFPeA	10	9.9371	99.4	70-130
PFPeS	4.7	4.6053	98.0	70-130
PFDoA	5	5.1642	103.3	70-130
PFHpA	5	4.9183	98.4	70-130
PFHxS	4.56	4.4728	98.1	70-130
PFNA	5	4.6098	92.2	70-130
PFOS	4.64	4.4424	95.7	70-130
PFOA	5	4.8202	96.4	70-130
PFTeDA	5	4.8998	98.0	70-130
PFTrDA	5	4.8469	96.9	70-130
PFUnA	5	4.4359	88.7	70-130

Spike Recovery: 0 out of 40 outside limits.

06/10/2025 12:04

Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 10:12 AM	**Data File**	052325A-0002.d
Sample Type	Blank	**Sample Name**	PBLK
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	2MM 25-056-017 ACE 242511	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.386	139190	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.938	42091	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS	6.172	507	122.96		13C2-6:2FTS_ISTD	6.172	29137	0.0323	ng/ml			
427.0 -> 80.9	6.164	252	488.79	49.7								
ADONA	6.044	313	49.28		13C4-PFHpA_ISTD	5.831	198376	0.0024	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.092	27853	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.597	299024	2075.94		13C3-PFBA_ISTD	2.600	110157	11.1531	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.519	41360	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.519	41360	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.519	41360	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.938	42091	12157.39		18O2-PFHxS_ISTD	6.550	36403	6.7151	ng/ml			
13C2-6:2FTS	6.172	29137	8908.89		18O2-PFHxS_ISTD	6.550	36403	6.1696	ng/ml			
13C2-8:2FTS	7.092	27853	70457.00		18O2-PFHxS_ISTD	6.550	36403	5.8755	ng/ml			
13C2-PFDoA	8.138	132343	7770.48		13C2-PFDA_ISTD	7.281	79055	1.3399	ng/ml			
13C2-PFDA	7.281	79055	24037.40					1.6260	ng/ml			
13C2-PFHxA	5.154	102157	16392.37					3.3144	ng/ml			
13C2-PFTeDA	8.928	153090	44390.06		13C2-PFDA_ISTD	7.281	79055	1.3794	ng/ml			
13C4-PFOS	7.520	37883	109518.71					3.4367	ng/ml			
13C3-HFPODA	5.386	139190	53218.40		13C2-PFHxA_ISTD	5.154	102157	12.7524	ng/ml			
13C3-PFBS	5.196	72991	8425.77		18O2-PFHxS_ISTD	6.550	36403	2.9369	ng/ml			
13C3-PFHxS	6.551	50990	9730.49		18O2-PFHxS_ISTD	6.550	36403	3.0299	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	97685	-	ng/ml			
584.0 -> 526.0				*								

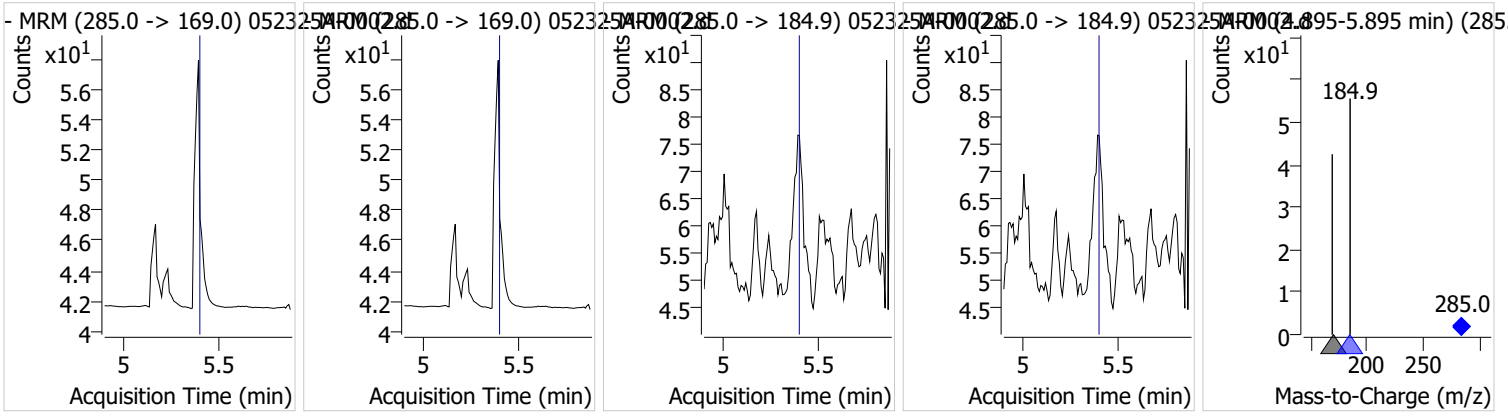
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	198376	60013.22		13C2-PFHxA_ISTD	5.154	102157	2.7345	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.319	122211	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.597	299024	-	ng/ml			
13C5-PFHxA	5.153	129630	38720.42		13C2-PFHxA_ISTD	5.154	102157	2.8584	ng/ml			
PFBS					13C3-PFBS_ISTD	5.196	72991	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	17499	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.281	103019	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.138	132343	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	21269	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.831	198376	-	ng/ml			
362.9 -> 169.0				*								
PFHxA	5.155	0	0.00		13C5-PFHxA_ISTD	5.153	129630	-	ng/ml	✔		
313.0 -> 118.9	4.803	0		*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	160115	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.551	50990	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.834	96219	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	185774	-	ng/ml			
PFOA	6.361	857	25.17		13C8-PFOA_ISTD	6.360	140882	0.0129	ng/ml	✔	GT	
413.0 -> 169.0	6.300	168	224.84	19.6								
PFOS	7.399	544	74.86		13C8-PFOS_ISTD	7.519	41360	0.0223	ng/ml			
499.0 -> 99.0	7.402	268	33.45	49.3								
PFPeA	4.231	0	0.00		13C5-PFPeA_ISTD	4.229	212503	-	ng/ml	✔	INT SN	
PFMPA					13C4-PFBA_ISTD	2.597	299024	-	ng/ml			
13C5-PFPeA	4.229	212503	12225.35		13C2-PFHxA_ISTD	5.154	102157	5.8735	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.229	212503	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.138	132343	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.153	129630	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.281	103019	30821.95		13C2-PFDA_ISTD	7.281	79055	1.3839	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.153	129630	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.959	56811	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.713	117136	34655.31		13C2-PFDA_ISTD	7.281	79055	1.4090	ng/ml			
13C4-PFOA	6.361	28585	55288.99					3.4571	ng/ml			
PFDS					13C8-PFOS_ISTD	7.519	41360	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.519	41360	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.551	50990	-	ng/ml			
349.0 -> 98.9				*								
PFTeDA	8.937	405	15.63		13C2-PFTeDA_ISTD	8.928	153090	0.0029	ng/ml			

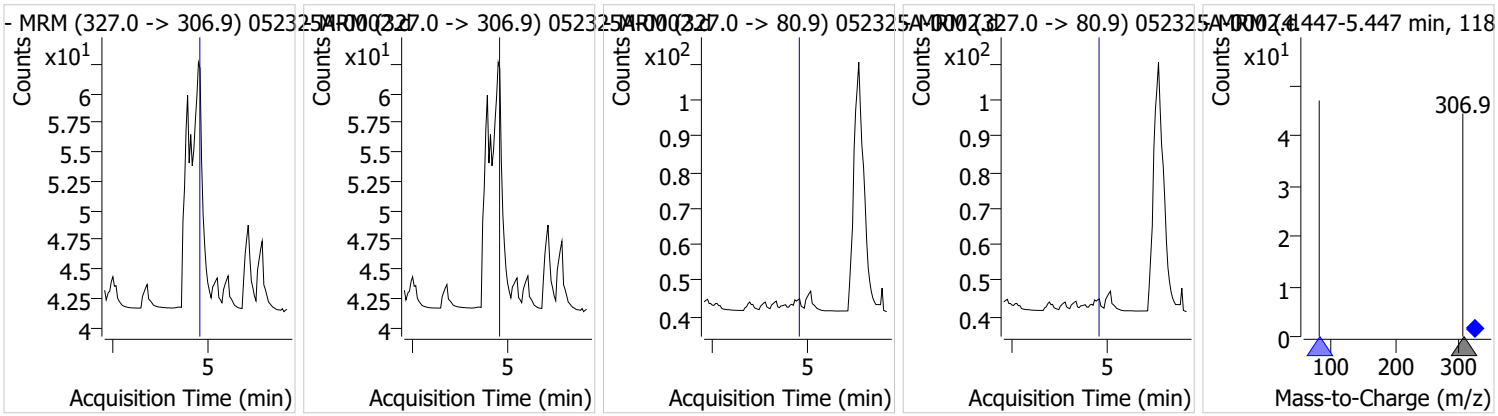
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.713	117136	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.600	110157	2879.56					7.2537	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.229	212503	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.153	129630	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.834	96219	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.834	78907	10597.87					1.6685	ng/ml			
18O2-PFHxS	6.550	36403	51113.65					3.2047	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.519	41360	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.519	41360	-	ng/ml			
499.0 -> 124.0				*								
PFPrA					13C3-PFPrA_ISTD	0.916	132446	-	ng/ml			
13C3-PFPrA	0.916	132446	10170.25		13C3-PFBA_ISTD	2.600	110157	11.1142	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.386	139190	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.360	140882	70323.81		13C4-PFOA_ISTD	6.361	28585	2.6306	ng/ml			
13C8-PFOS	7.519	41360	3158.77		13C4-PFOS_ISTD	7.520	37883	2.7916	ng/ml			
13C8-PFOSA	8.959	56811	15878.56		13C4-PFOS_ISTD	7.520	37883	2.6667	ng/ml			
13C9-PFNA	6.834	96219	12560.25		13C5-PFNA_ISTD	6.834	78907	1.3801	ng/ml			
D3-NMeFOSA	10.118	17499	1250.29		13C4-PFOS_ISTD	7.520	37883	2.5782	ng/ml			
D3-NMeFOSAA	7.319	122211	7248.76		13C4-PFOS_ISTD	7.520	37883	5.1867	ng/ml			
D5-NEtFOSA	10.405	21269	2662.41		13C4-PFOS_ISTD	7.520	37883	2.6067	ng/ml			
D5-NEtFOSAA	7.498	97685	27844.83		13C4-PFOS_ISTD	7.520	37883	5.4589	ng/ml			
D7-NMeFOSE	9.957	160115	8527.68		13C4-PFOS_ISTD	7.520	37883	24.5719	ng/ml			
D9-NEtFOSE	10.277	185774	11261.10		13C4-PFOS_ISTD	7.520	37883	25.6745	ng/ml			

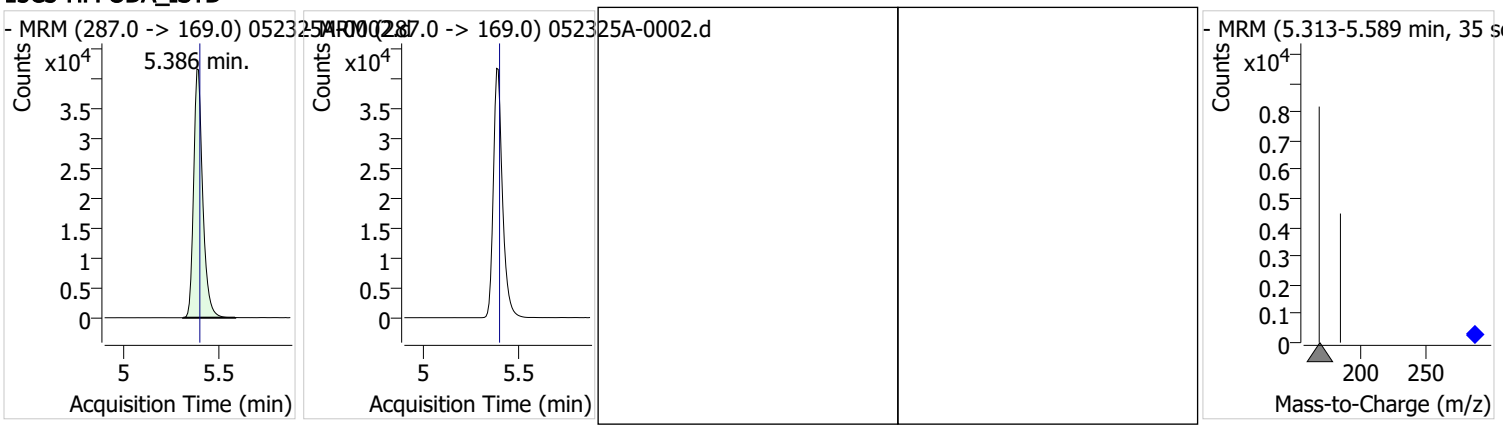
HFPO-DA



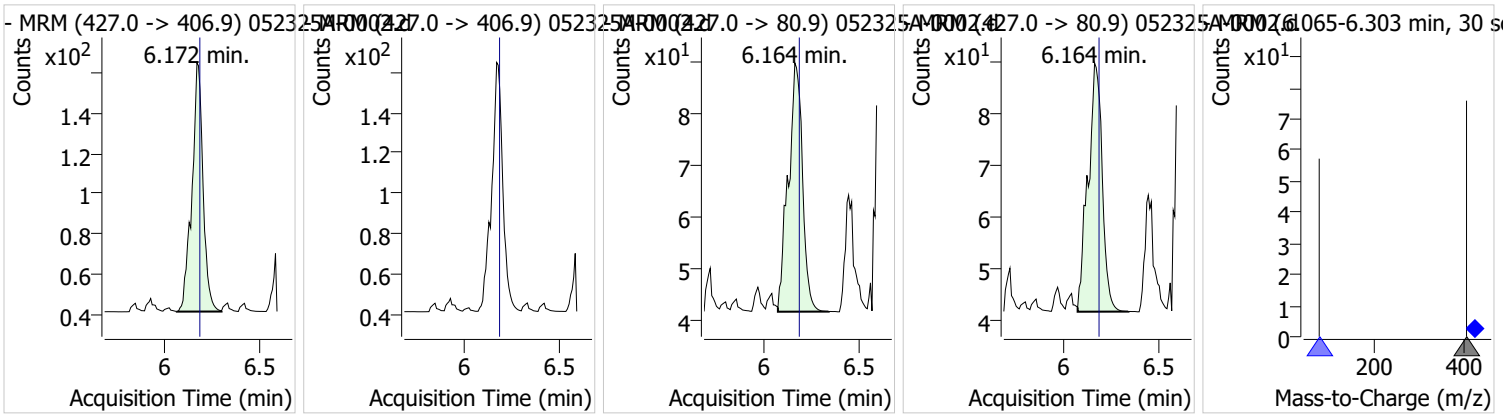
4:2FTS



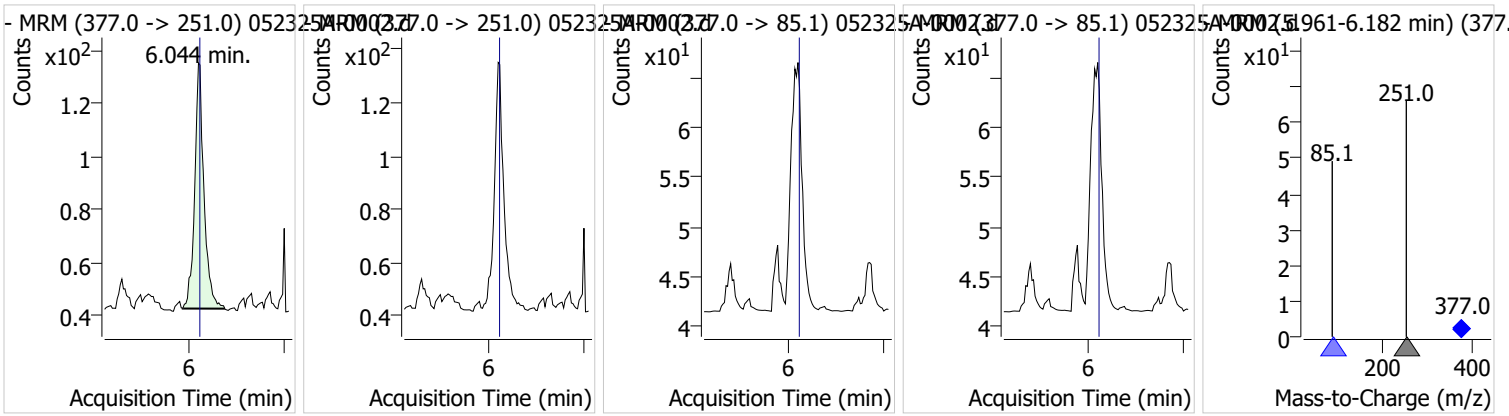
13C3-HFPODA_ISTD



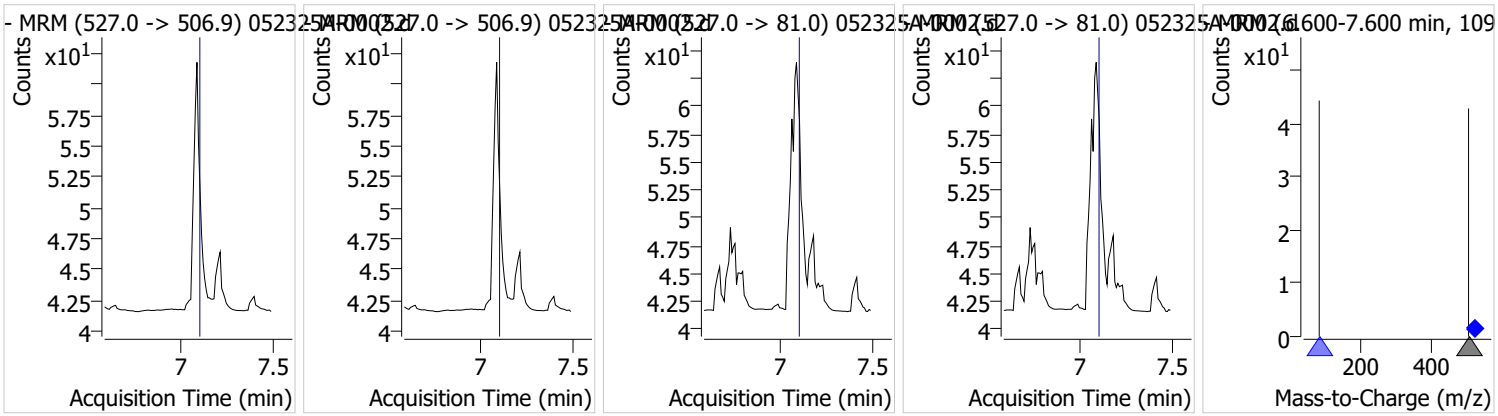
6:2FTS



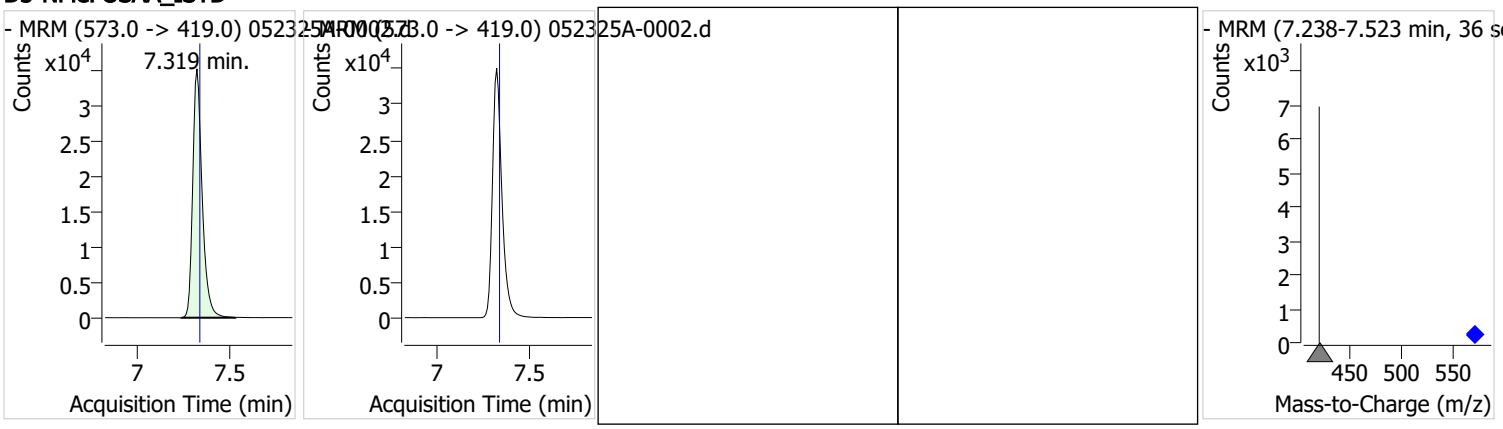
ADONA



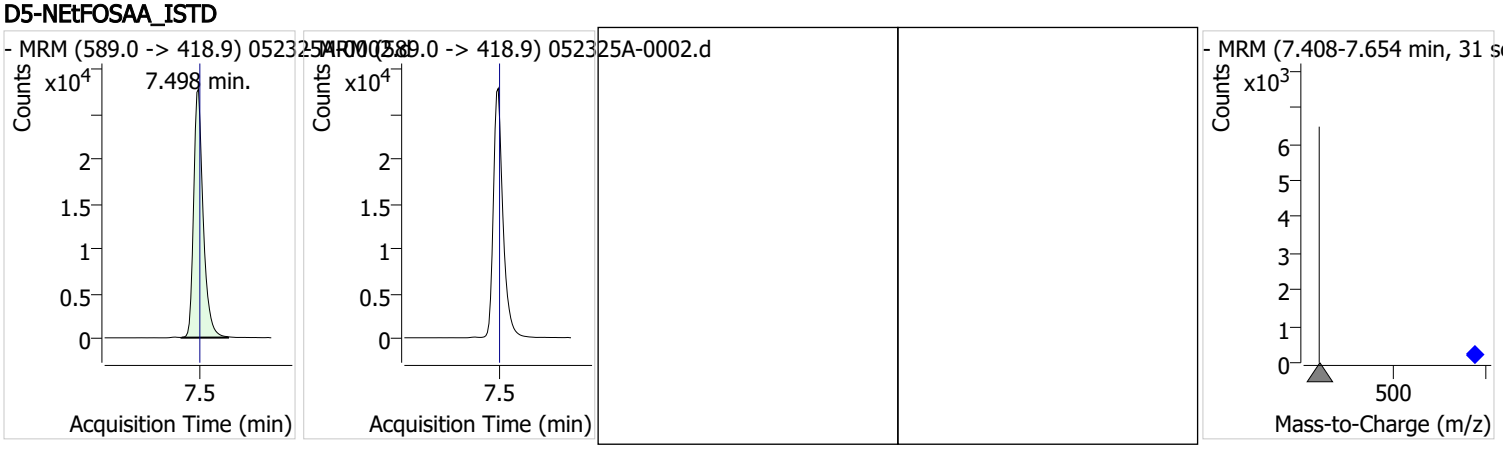
8:2FTS



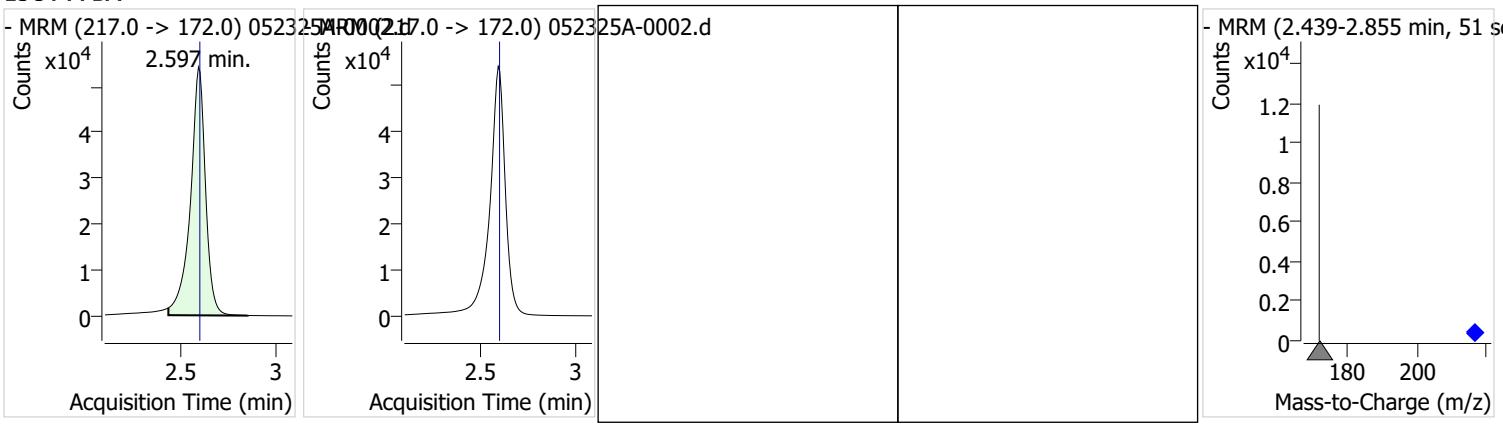
D3-NMeFOSAA_ISTD



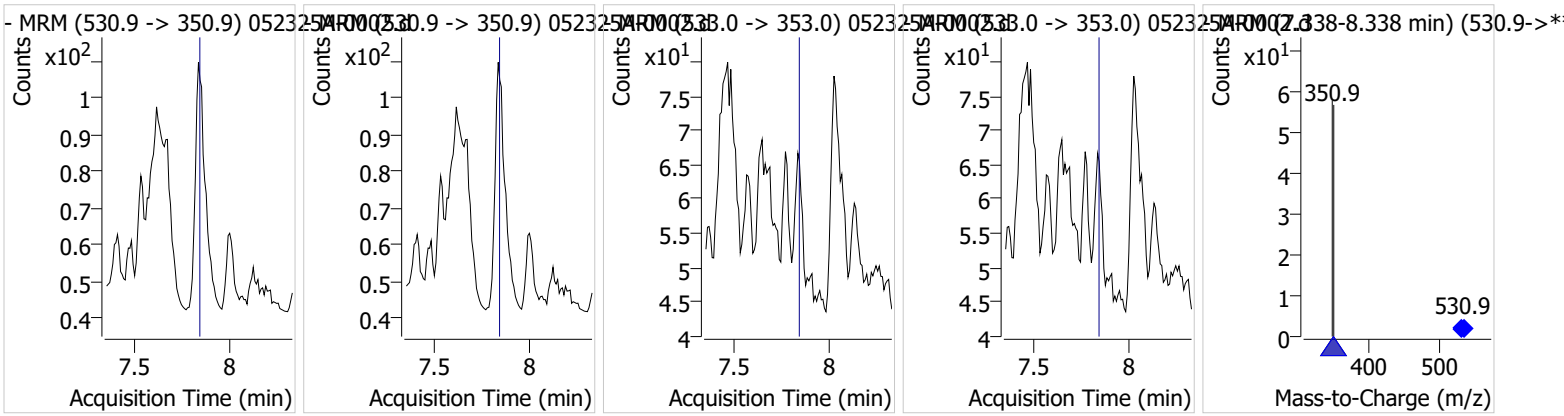
D5-NEtFOSAA_ISTD



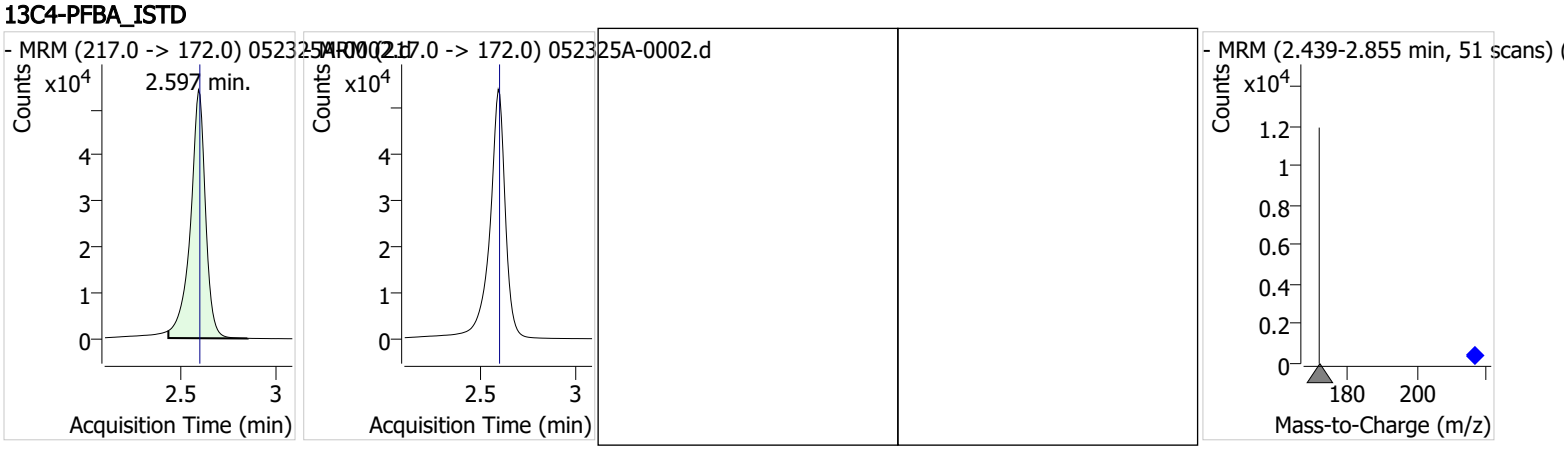
13C4-PFBA



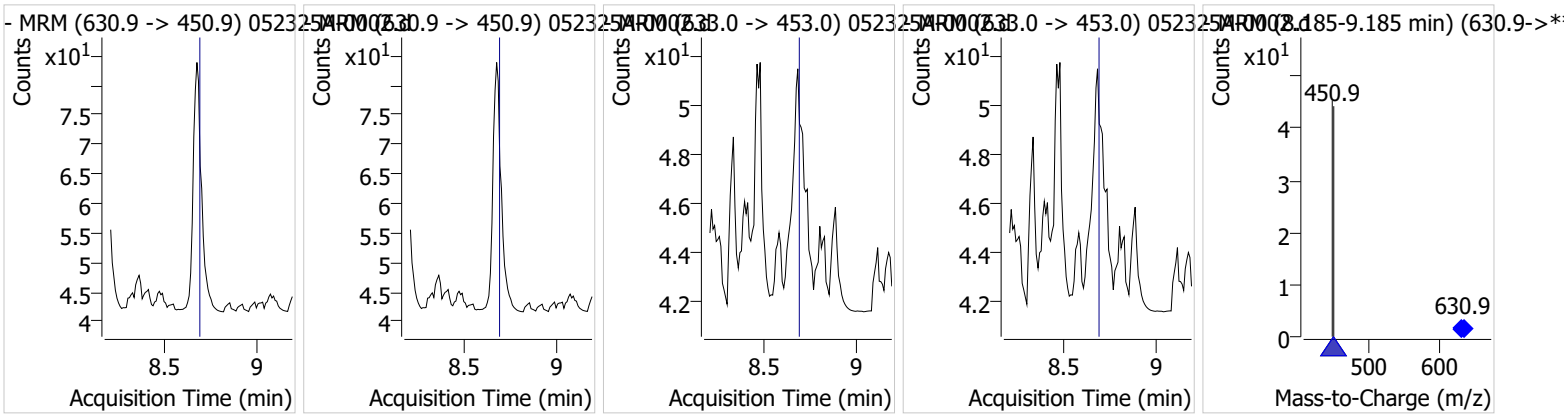
9Cl-PF3ONS



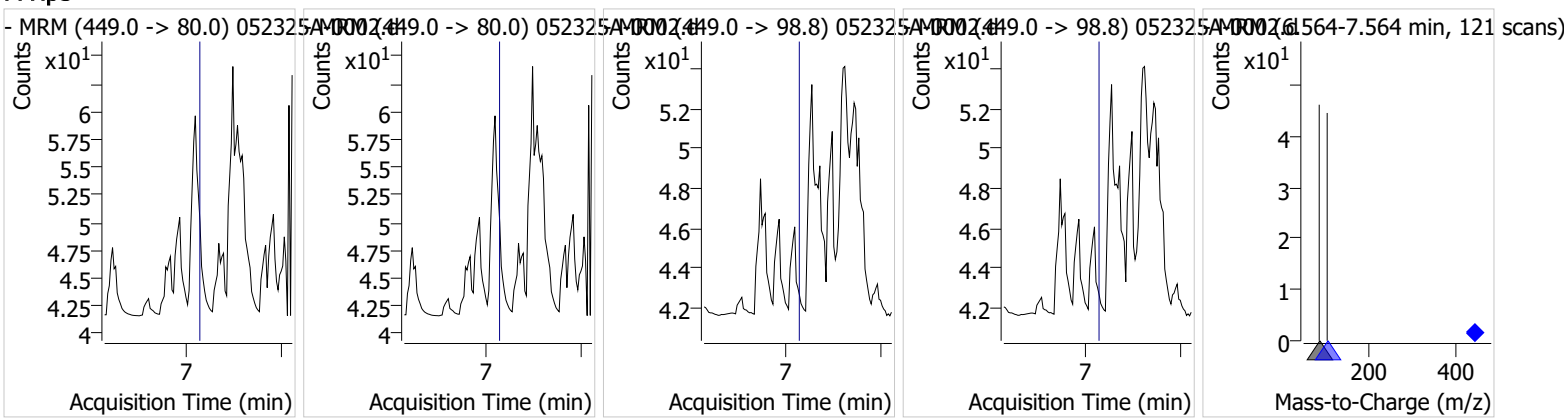
13C4-PFBA_ISTD



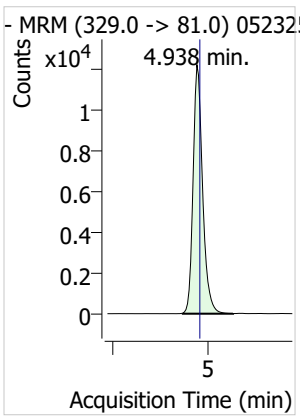
11Cl-PF3OUdS

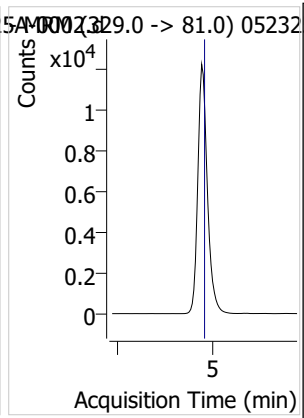


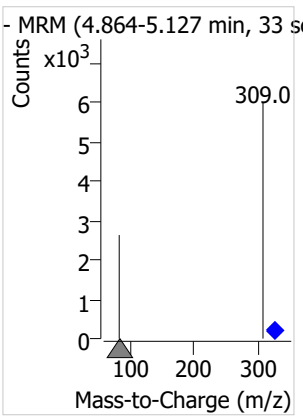
PFHpS



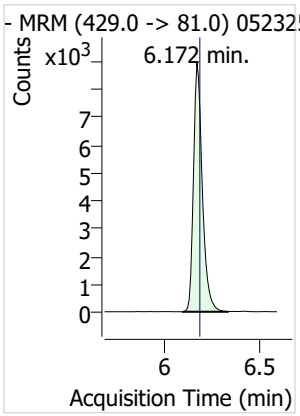
13C2-4:2FTS

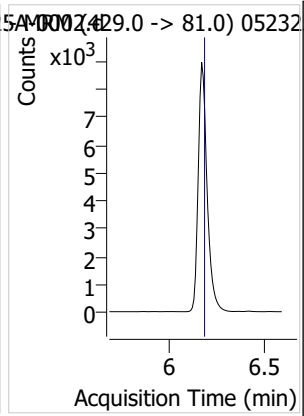


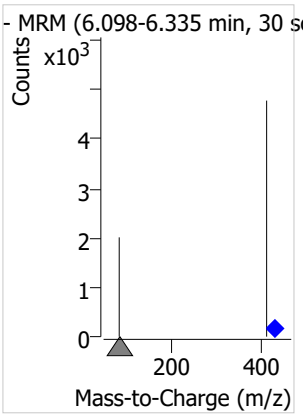




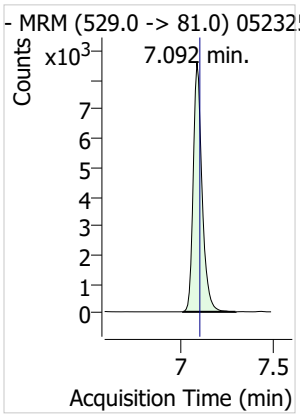
13C2-6:2FTS

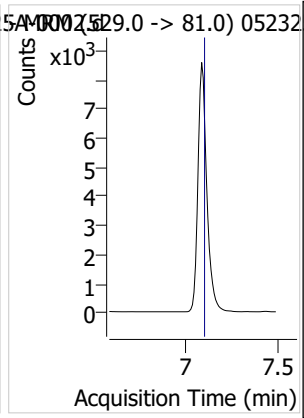


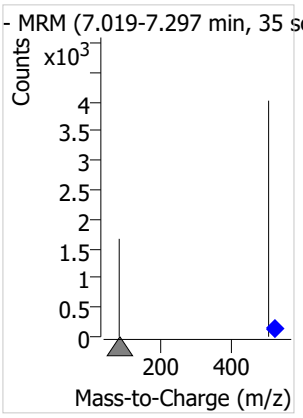




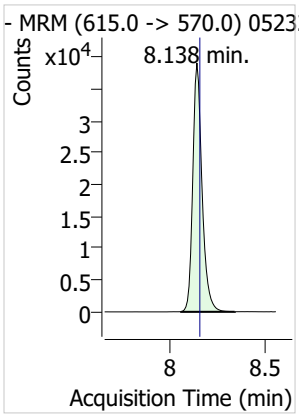
13C2-8:2FTS

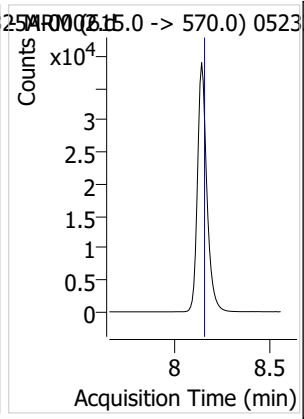


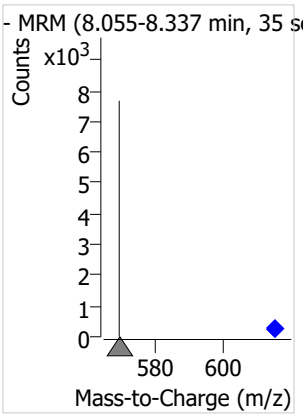




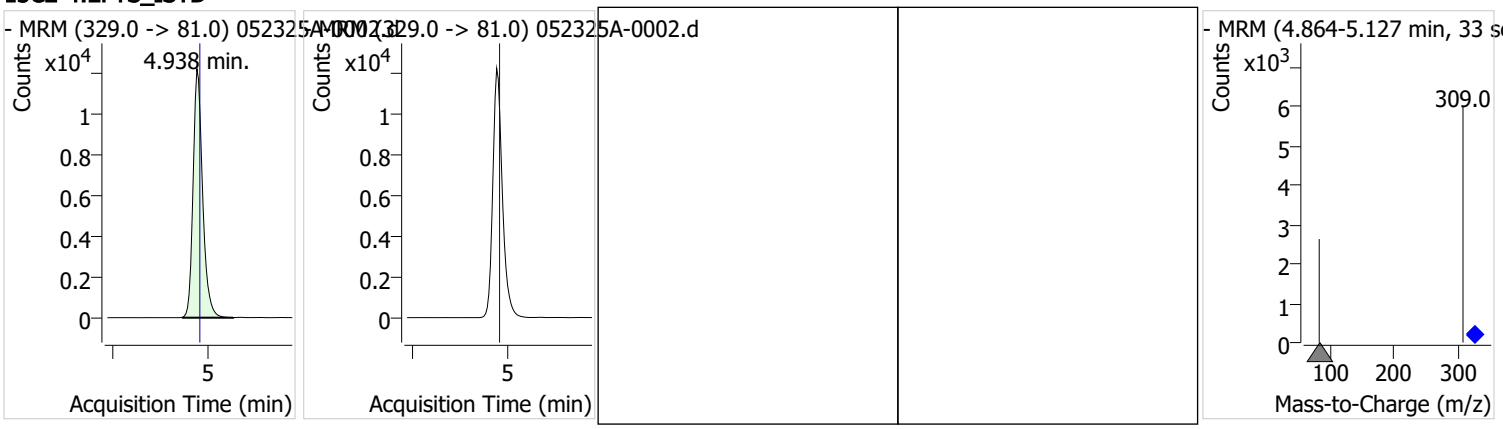
13C2-PFDoA







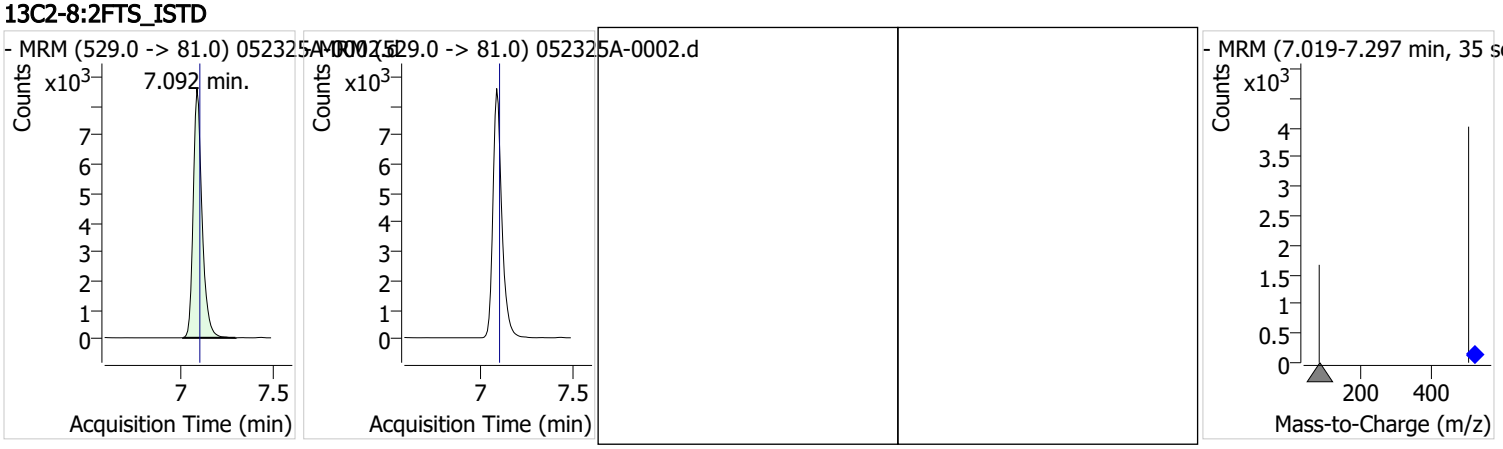
13C2-4:2FTS_ISTD



13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



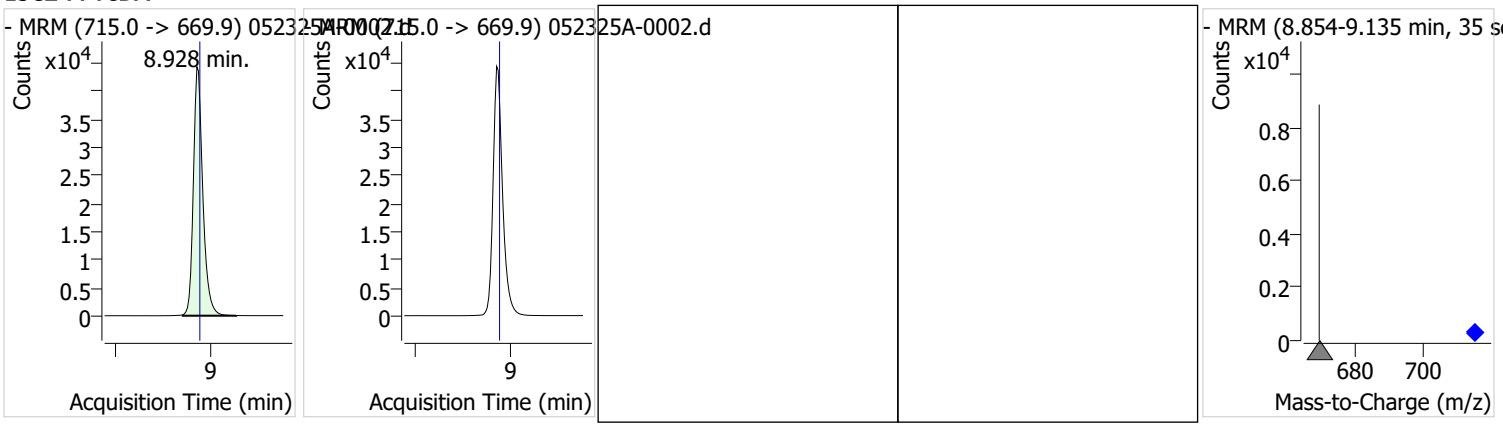
13C2-PFDA



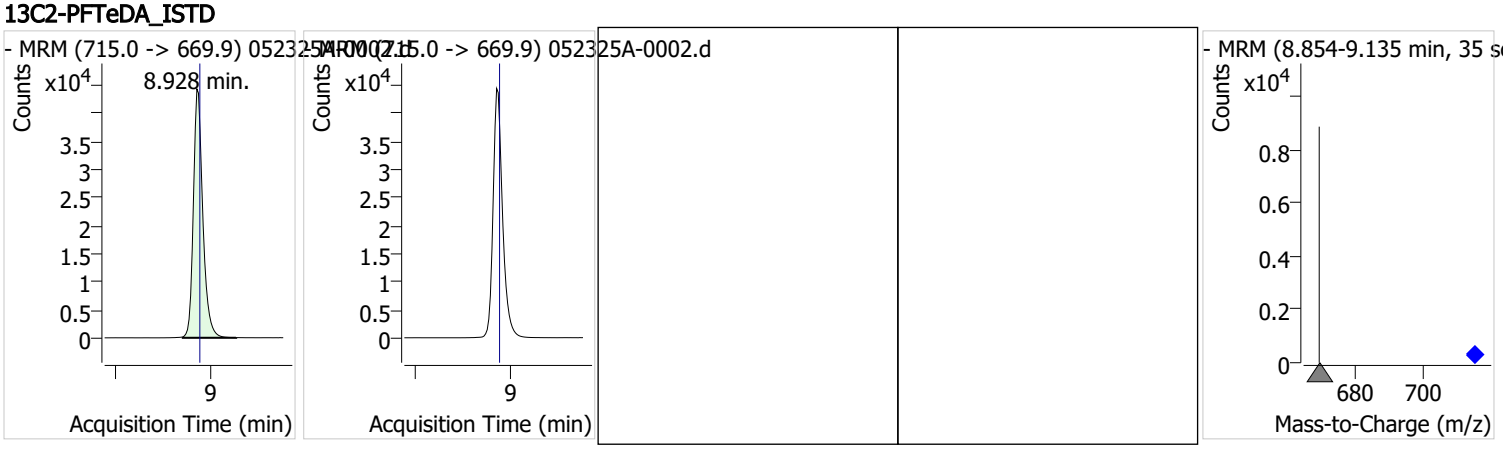
13C2-PFHxA



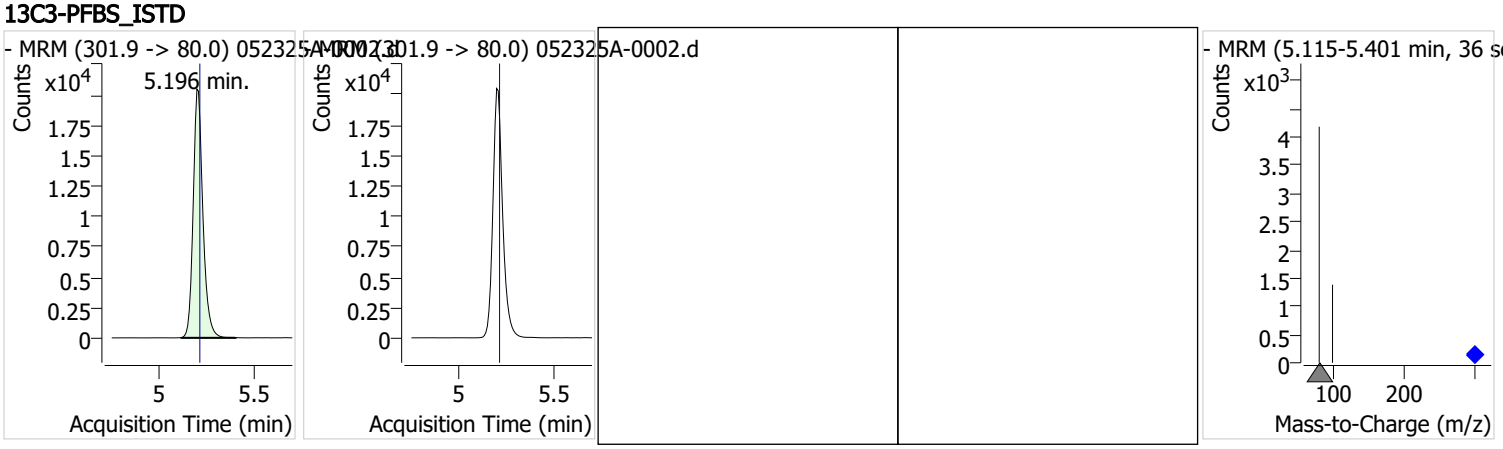
13C2-PFTeDA



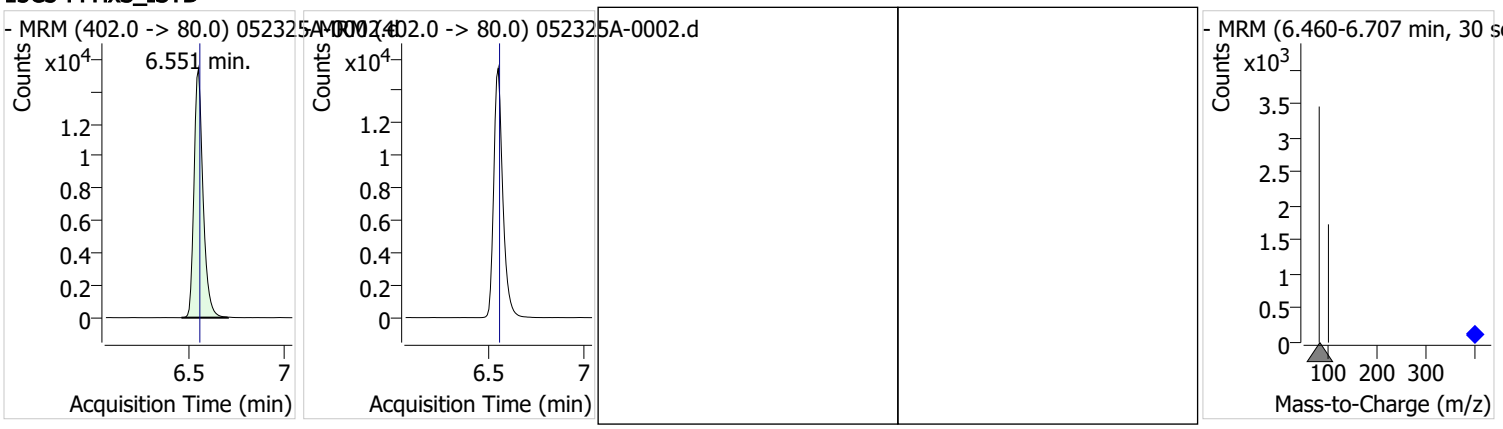
13C2-PFTeDA_ISTD



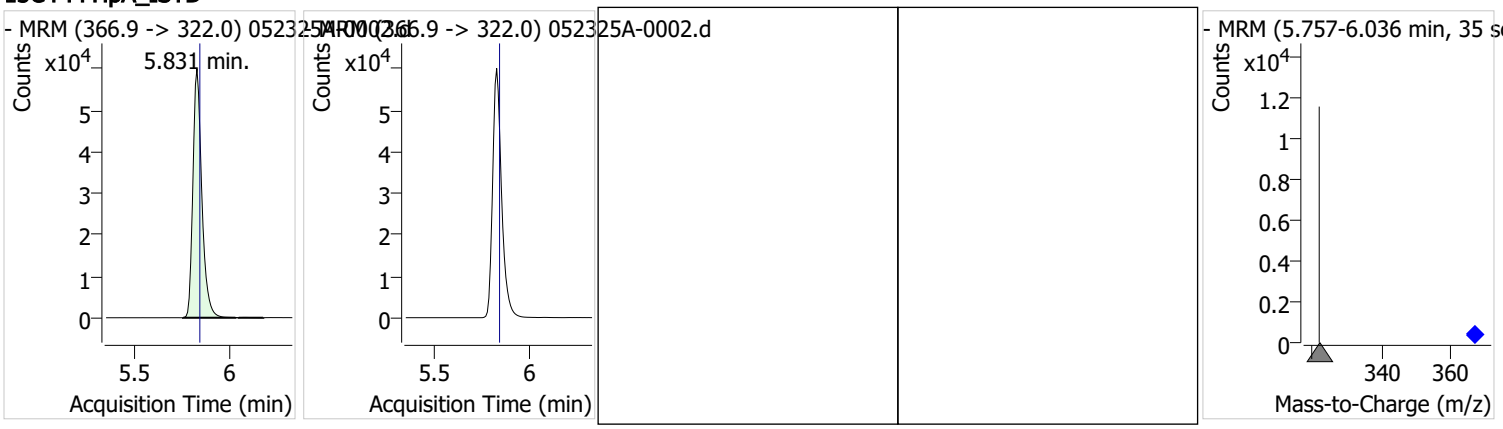
13C3-PFBS_ISTD



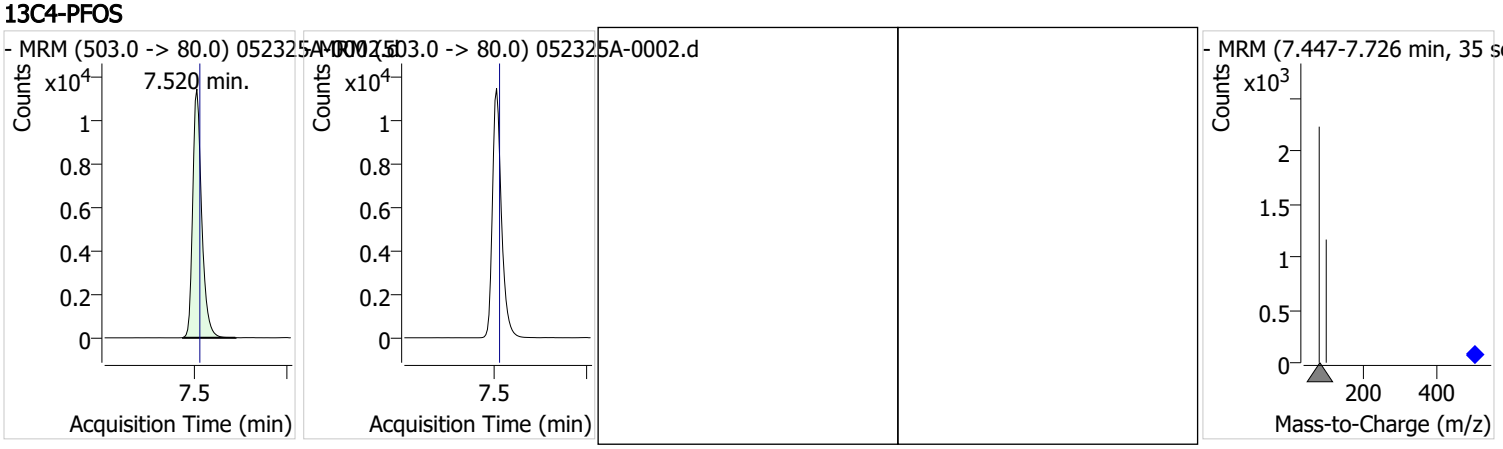
13C3-PFHxS_ISTD



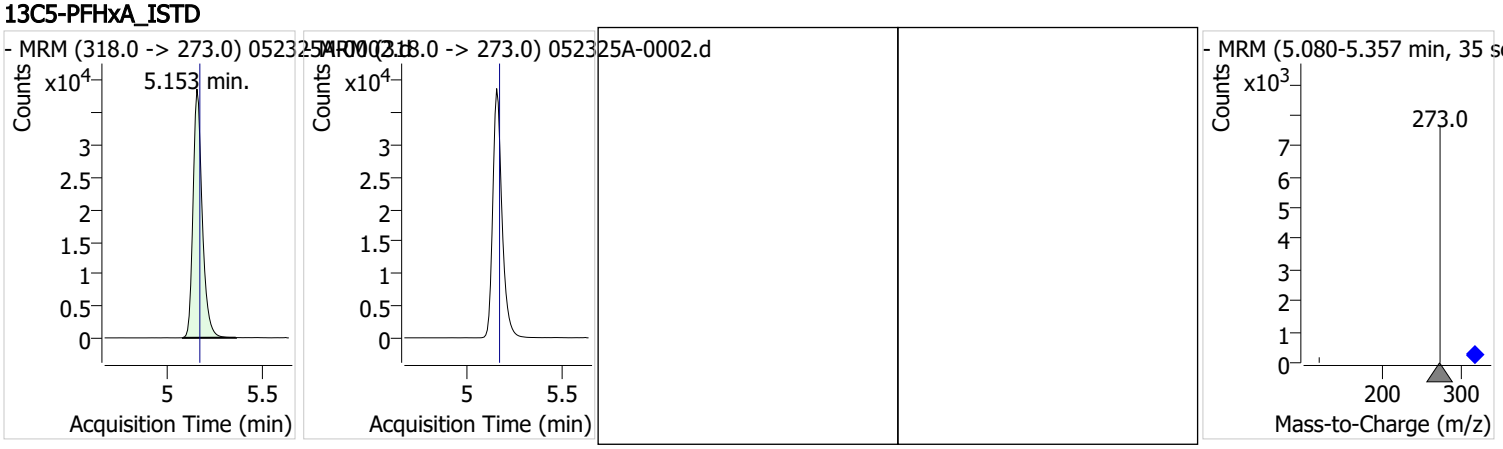
13C4-PFHpA_ISTD



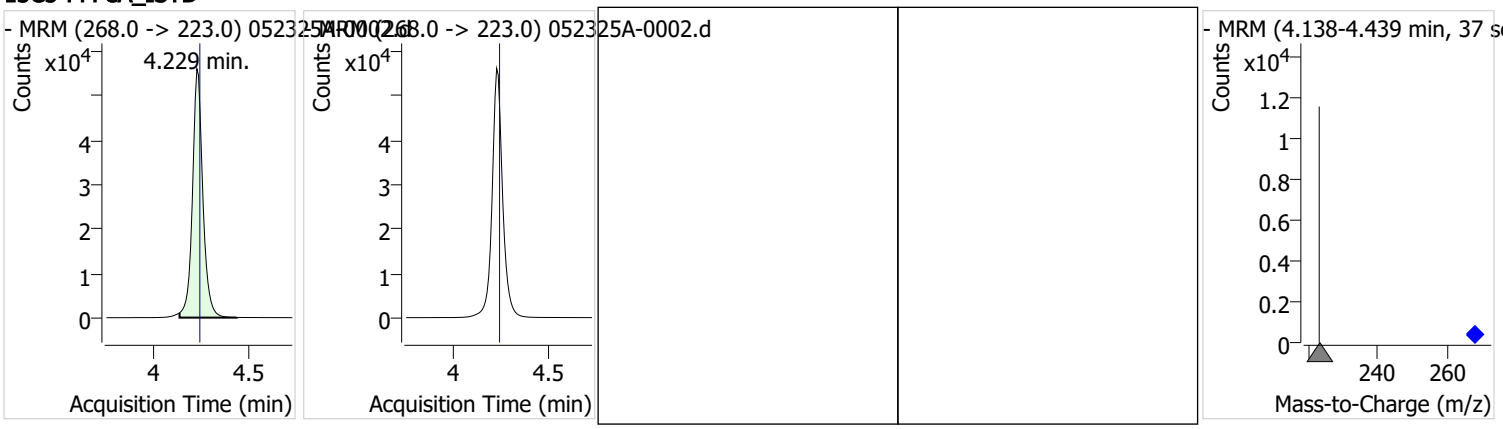
13C4-PFOS



13C5-PFHxA_ISTD



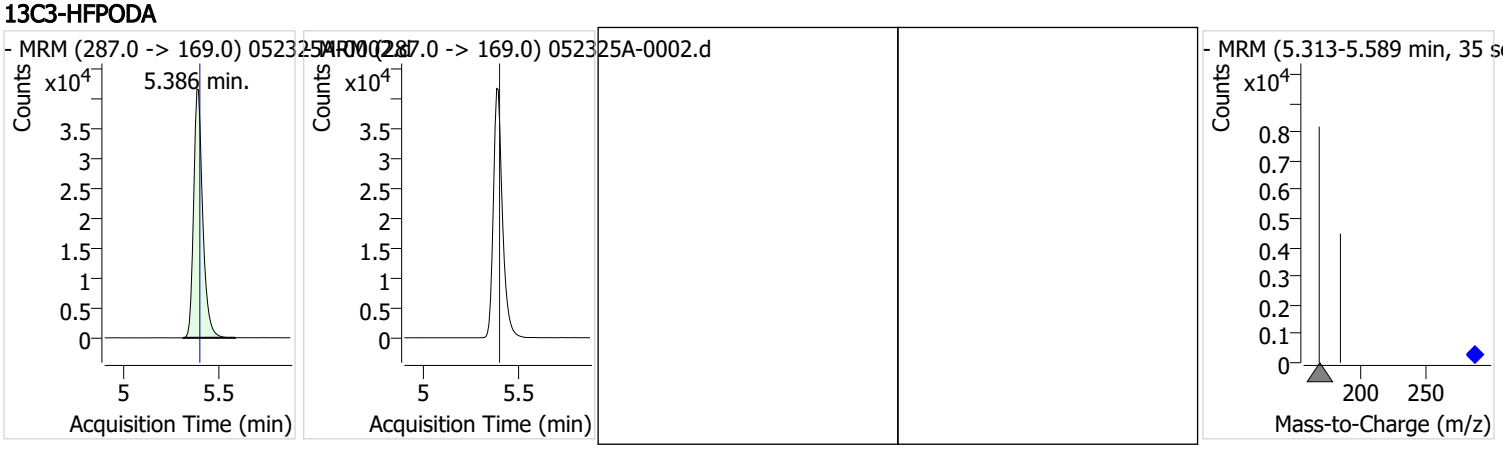
13C5-PFPeA_ISTD



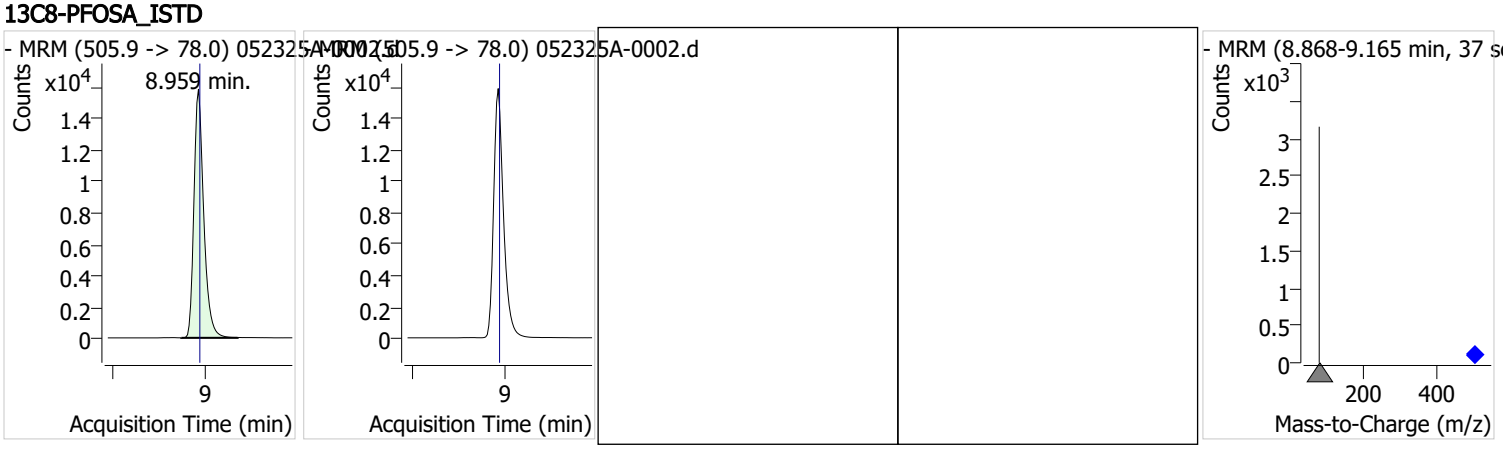
13C6-PFDA_ISTD



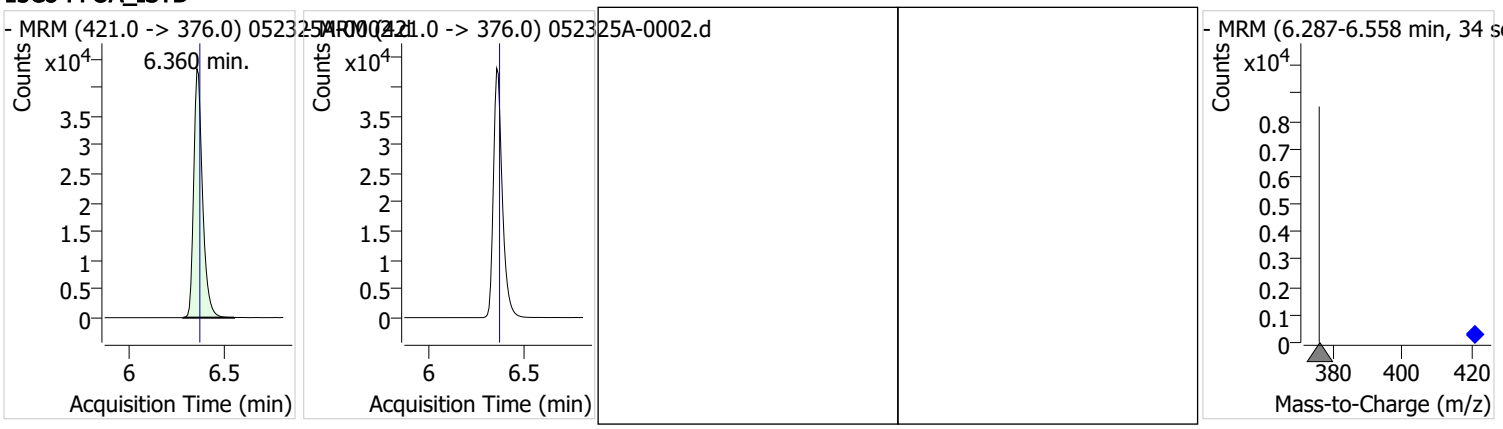
13C3-HFPODA



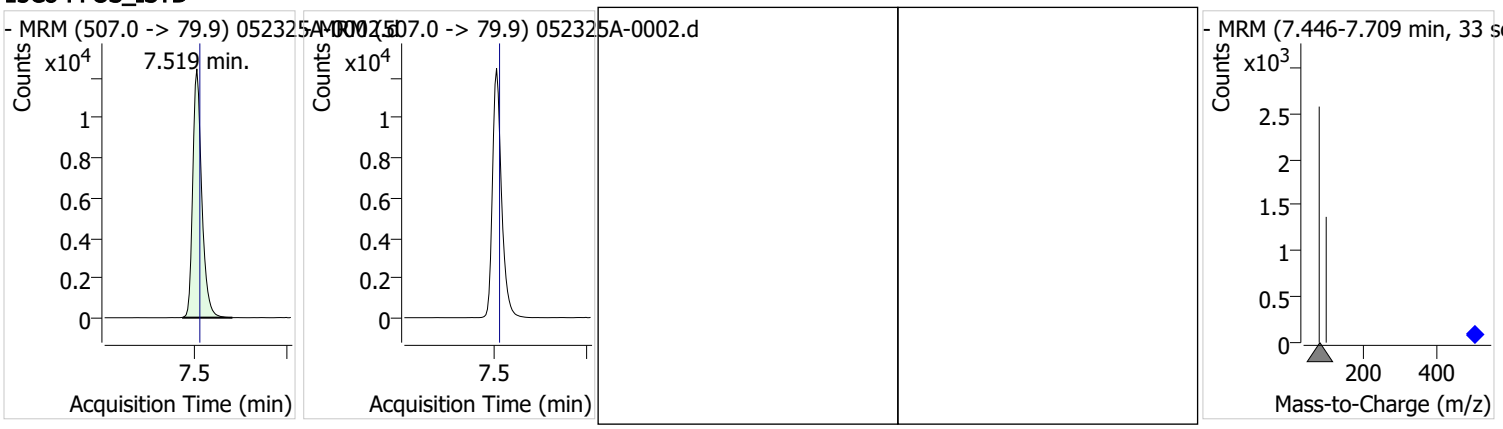
13C8-PFOSA_ISTD



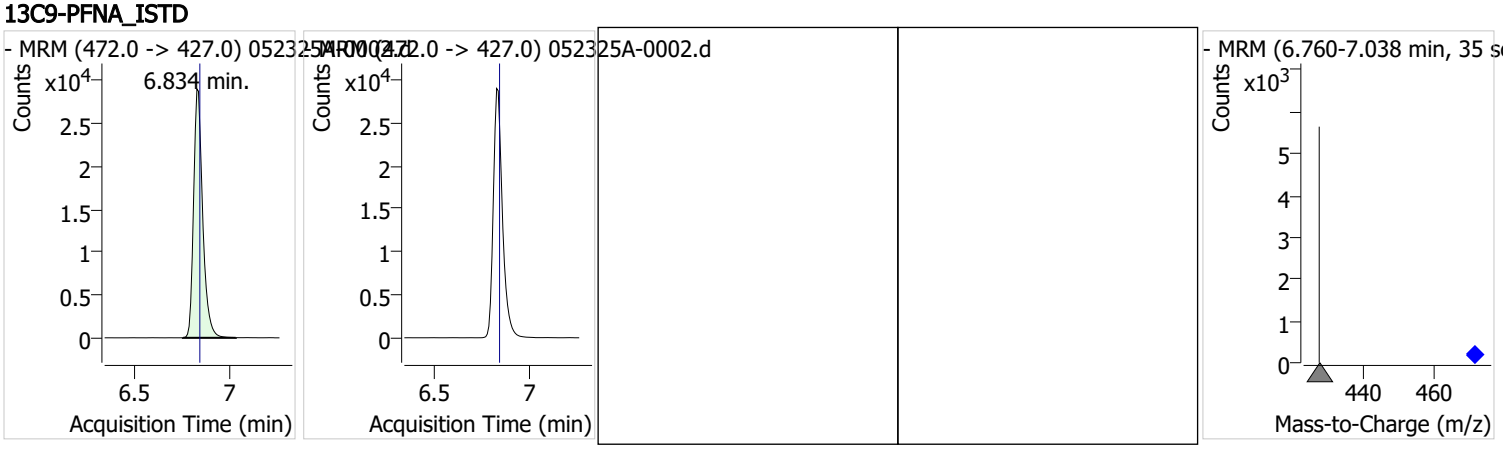
13C8-PFOA_ISTD



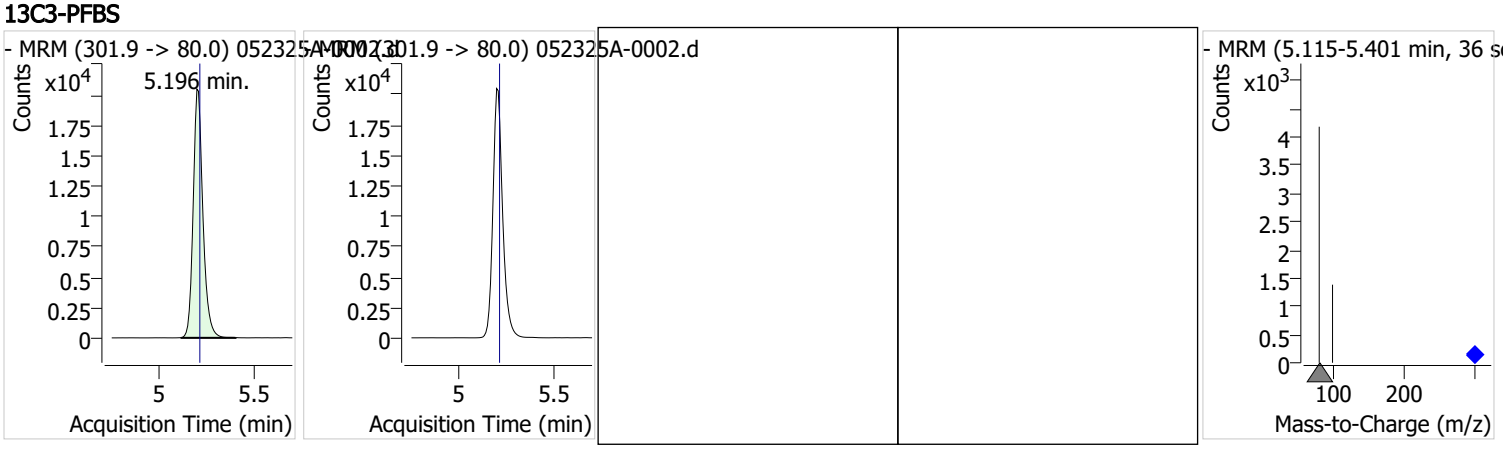
13C8-PFOS_ISTD



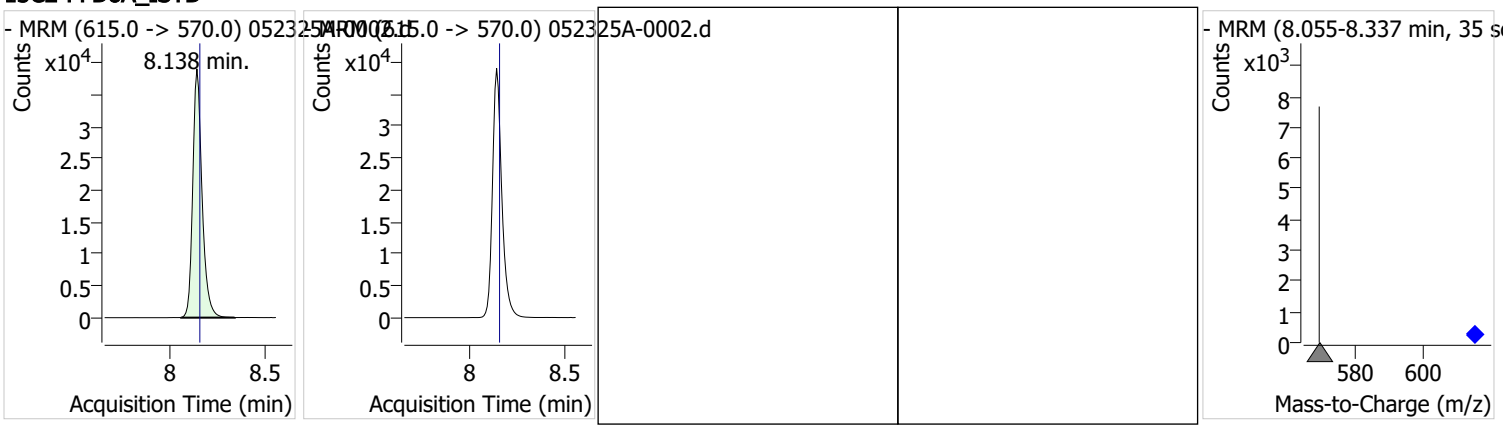
13C9-PFNA_ISTD



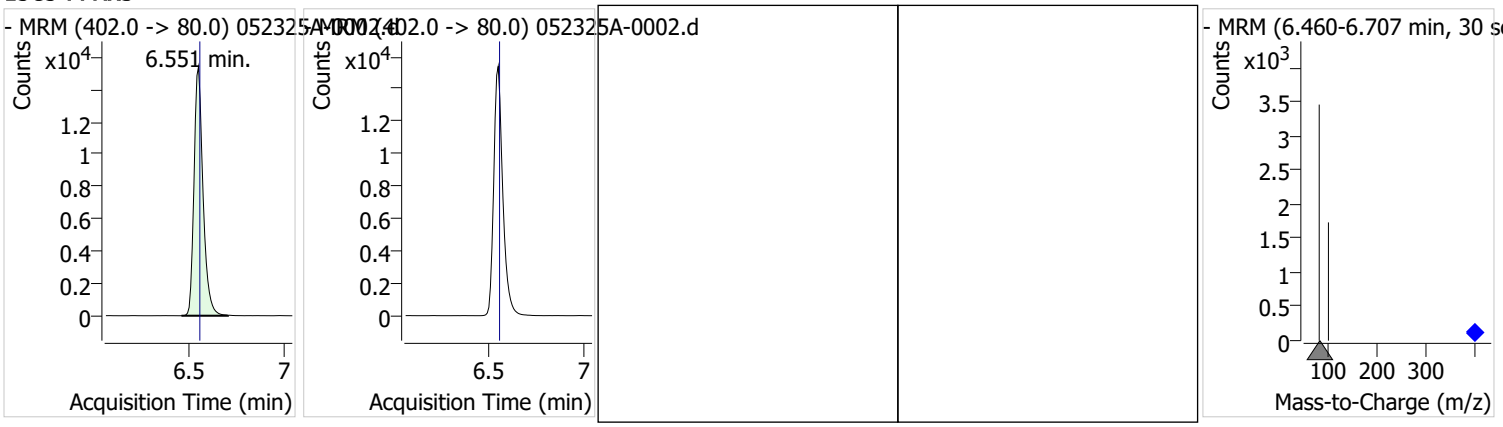
13C3-PFBS



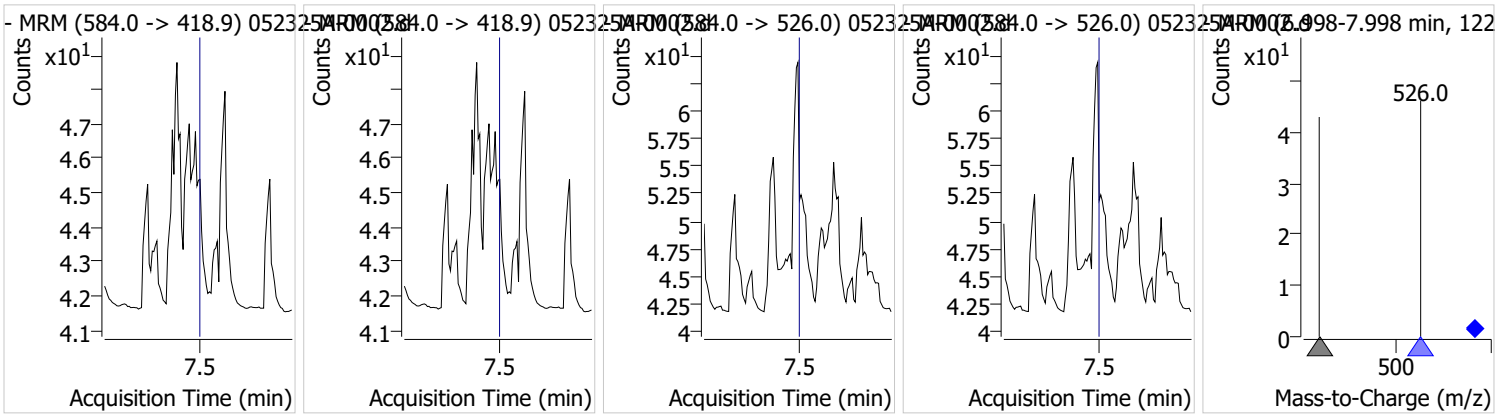
13C2-PFDoA_ISTD



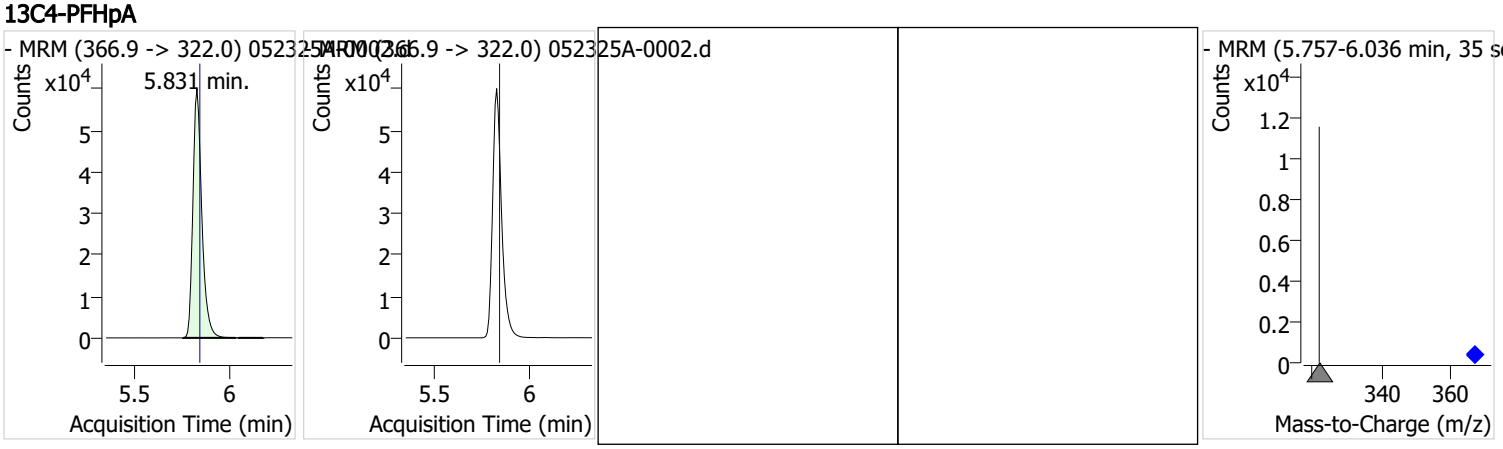
13C3-PFHxS



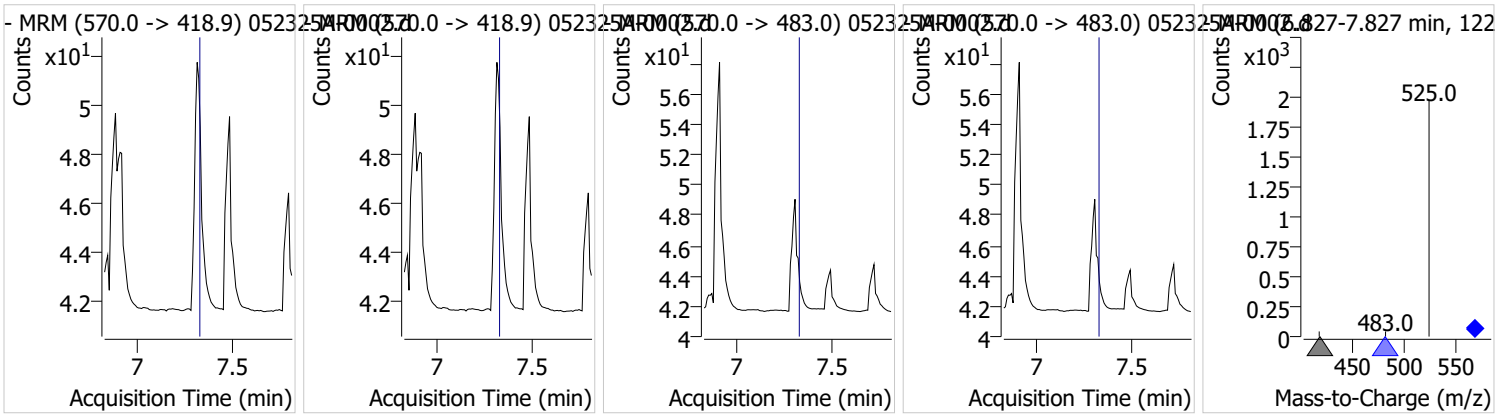
NEtFOSAA



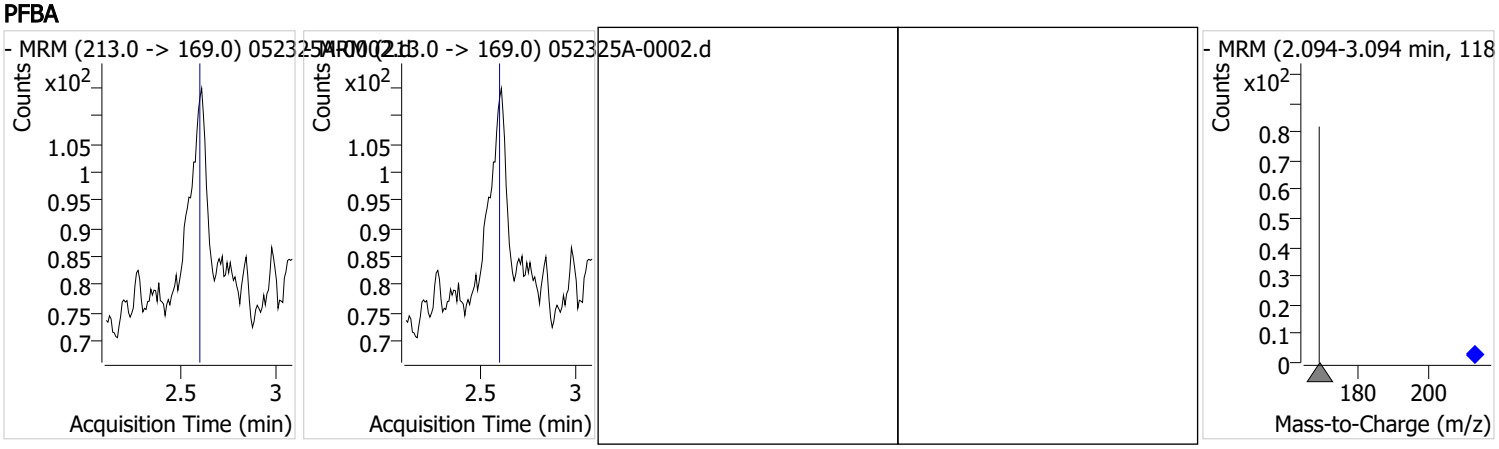
13C4-PFHpA



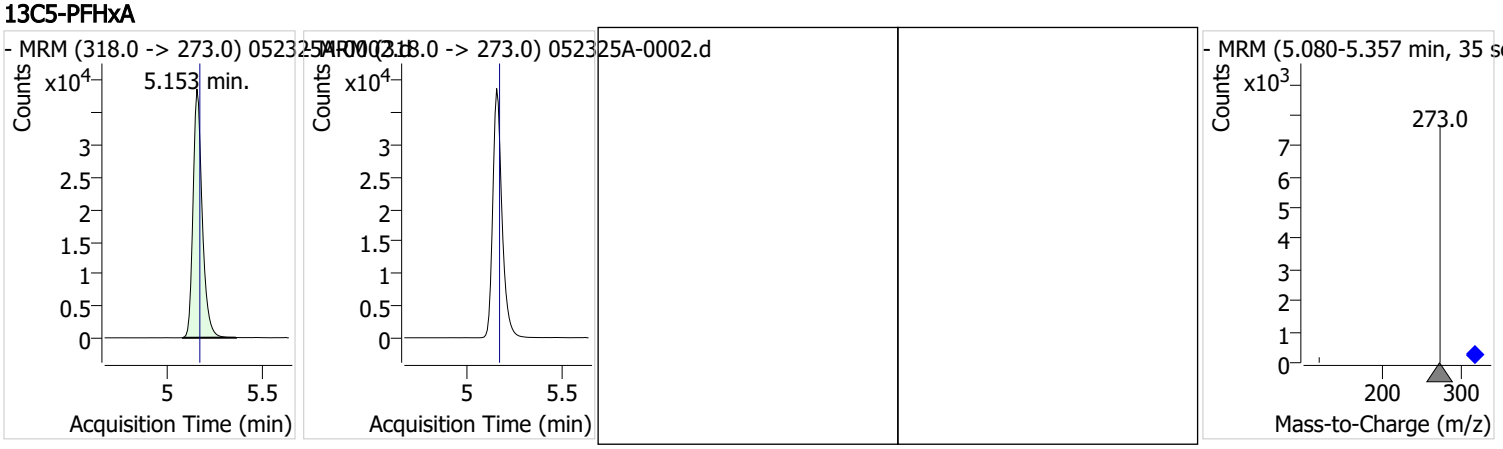
NMeFOSAA



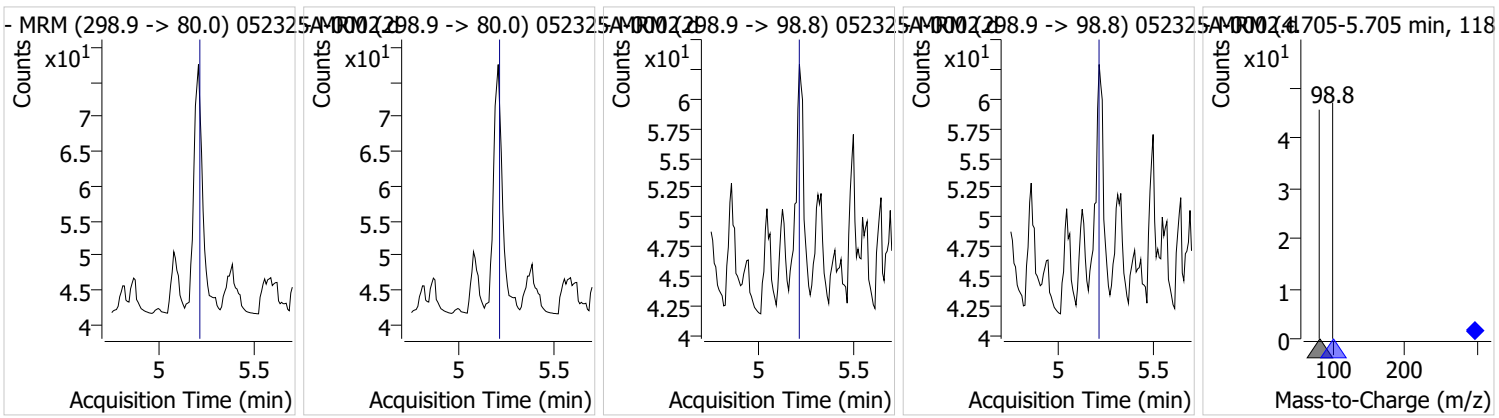
PFBA



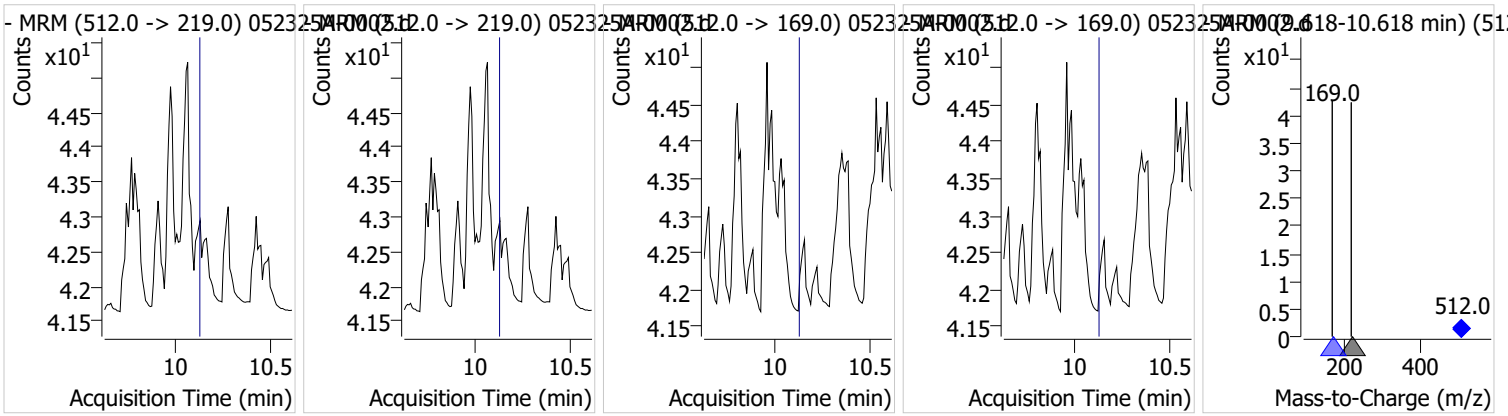
13C5-PFHxA



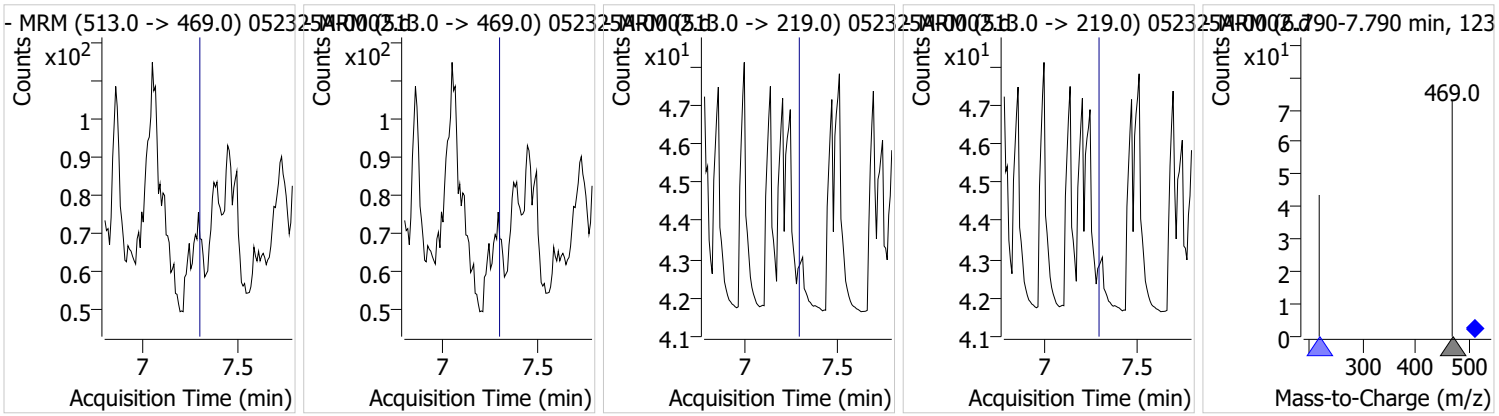
PFBS



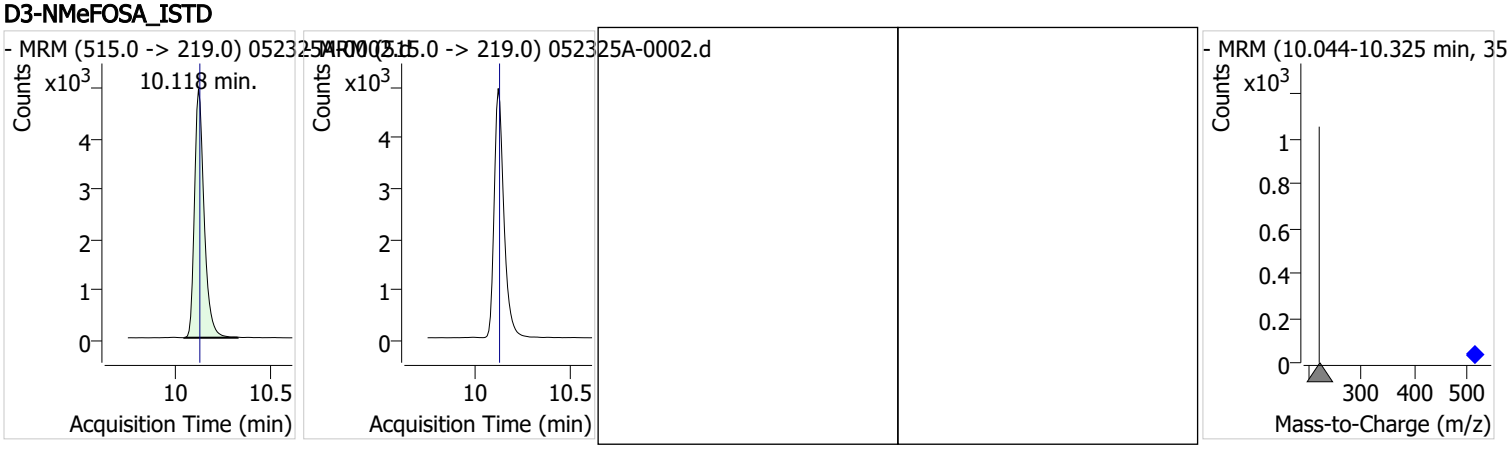
NMeFOSA



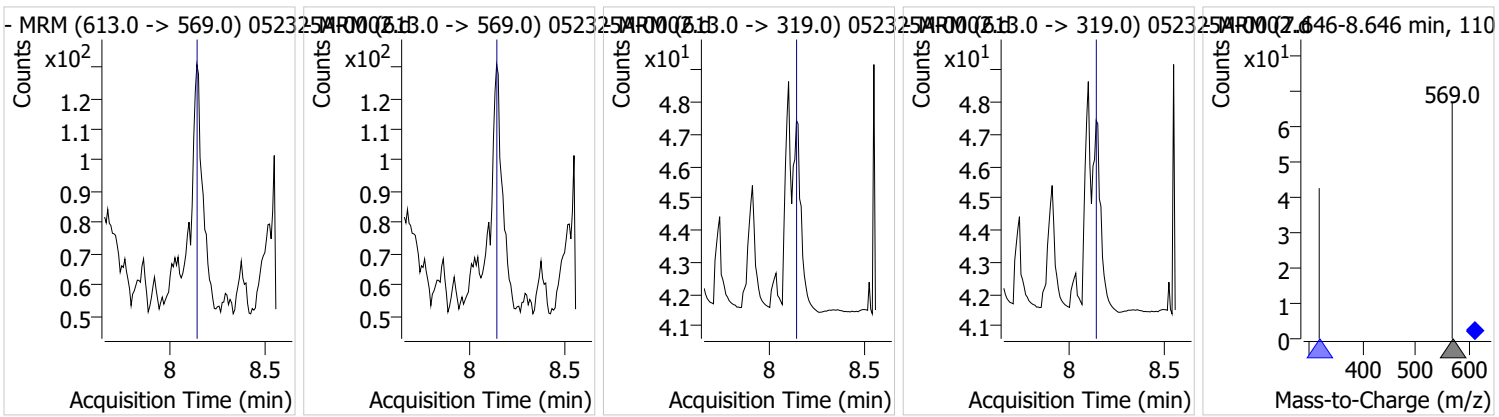
PFDA



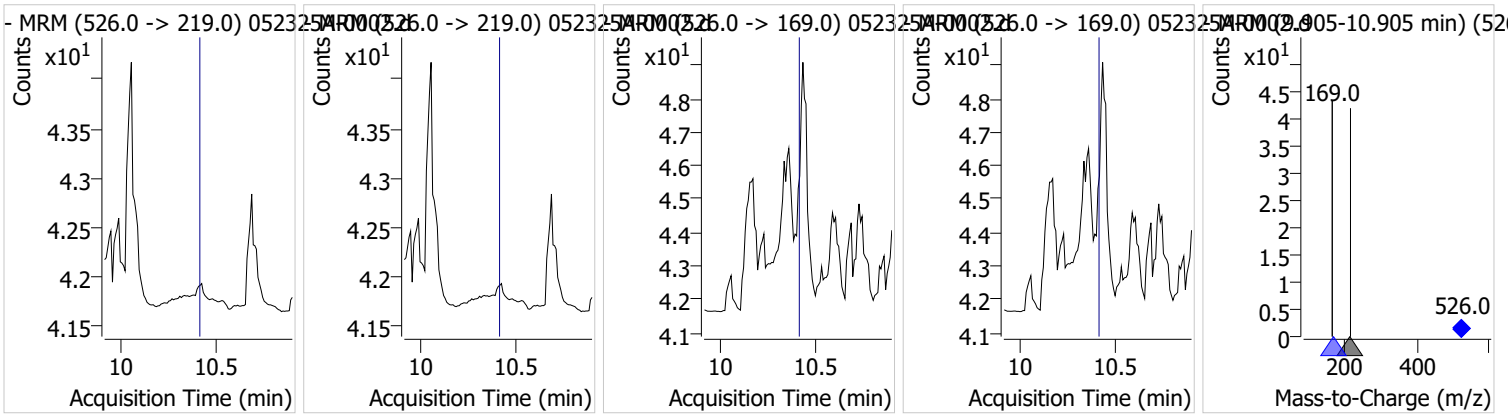
D3-NMeFOSA_ISTD



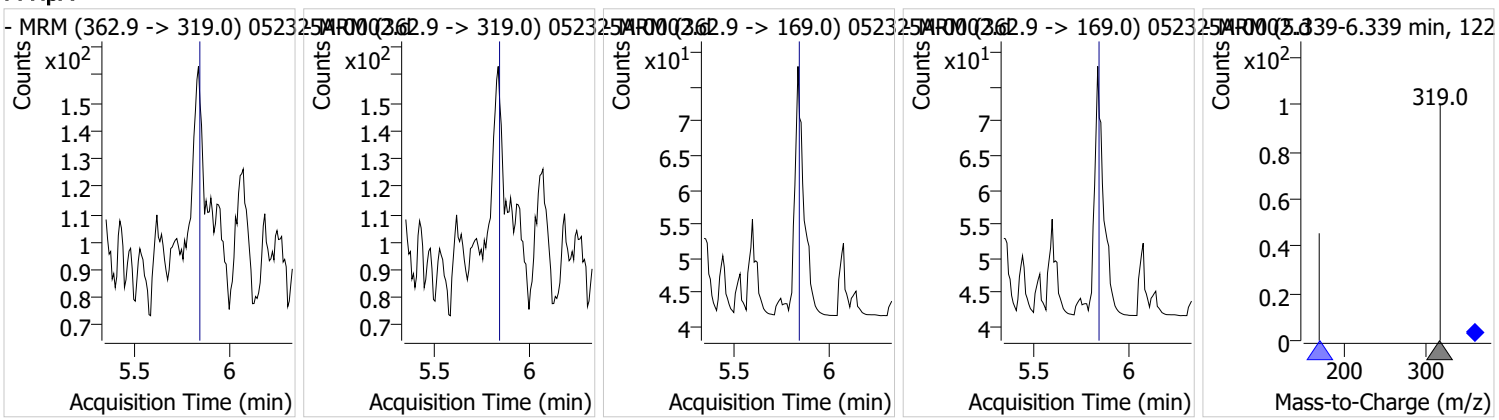
PFDoA



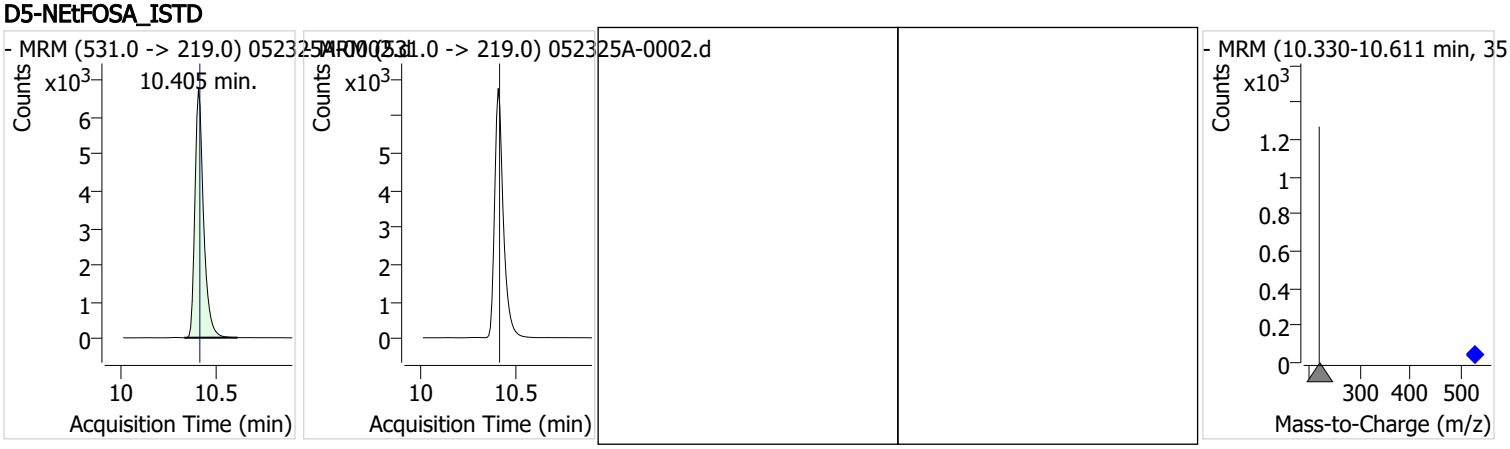
NEtFOSA



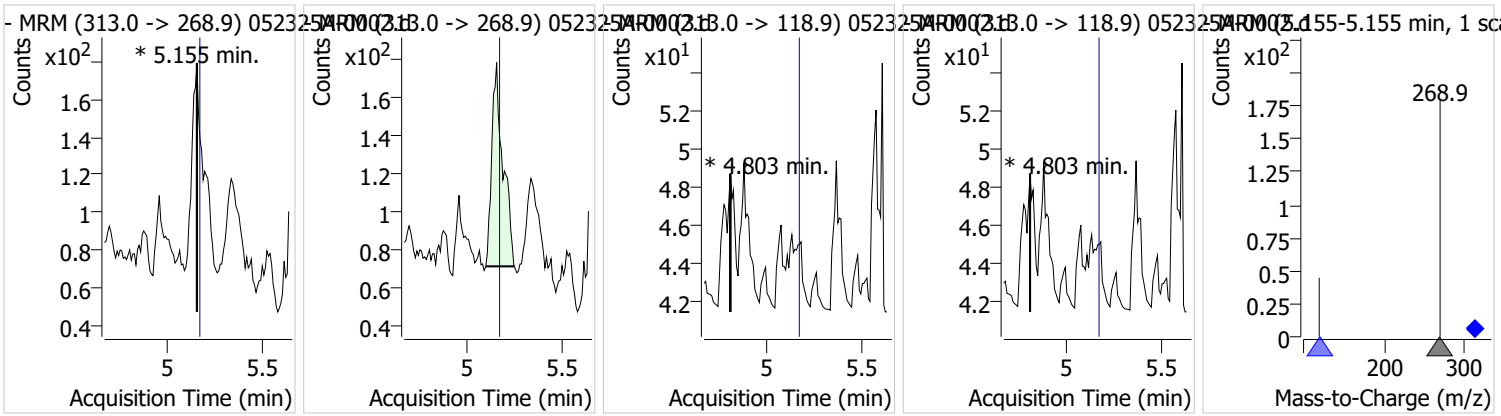
PFHpA



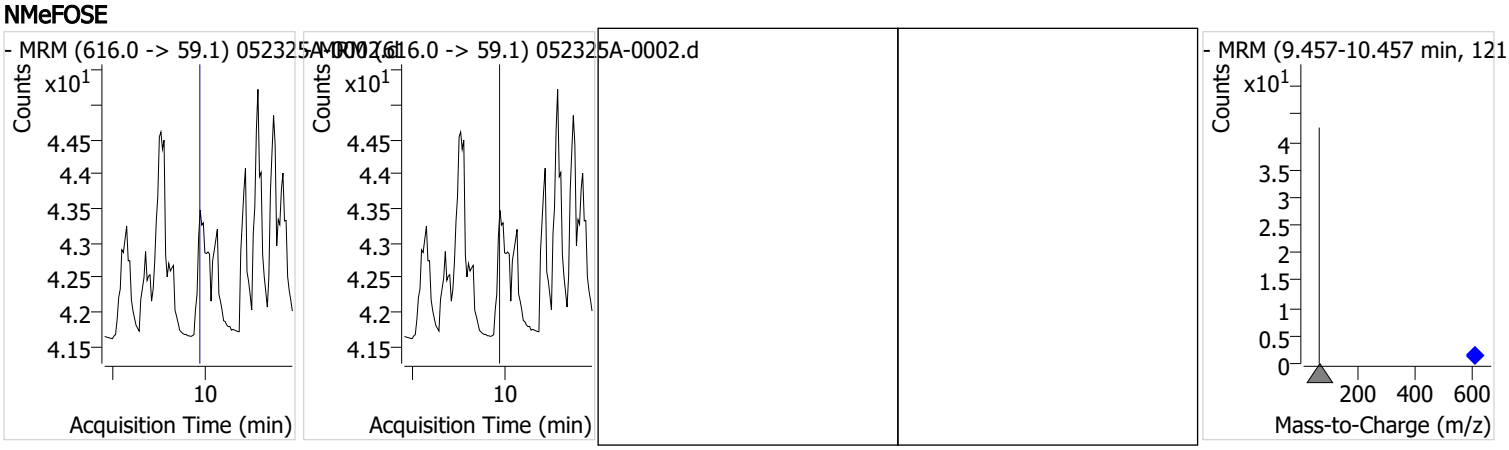
D5-NEtFOSA_ISTD



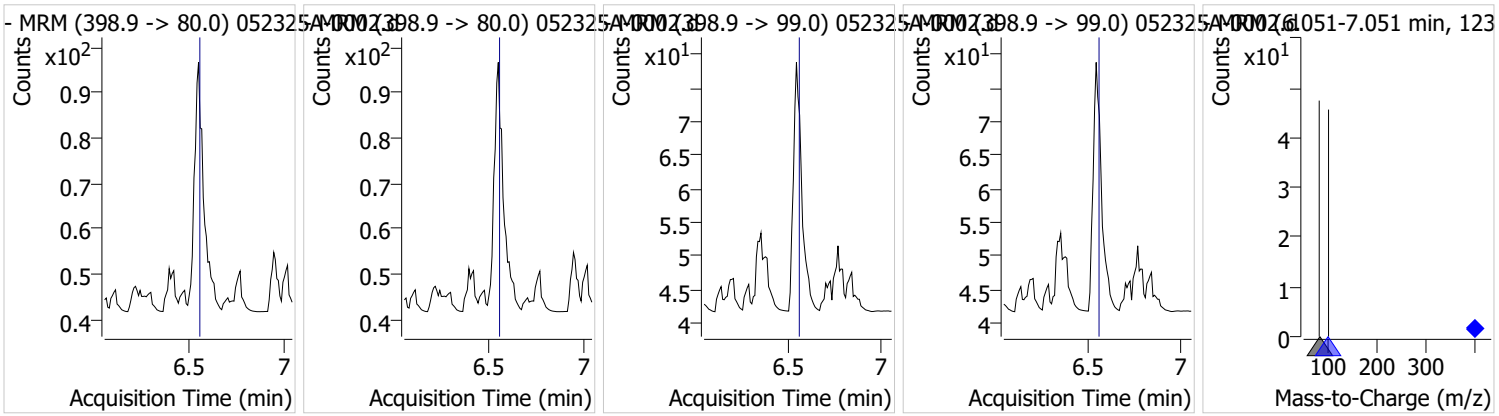
PFHxA



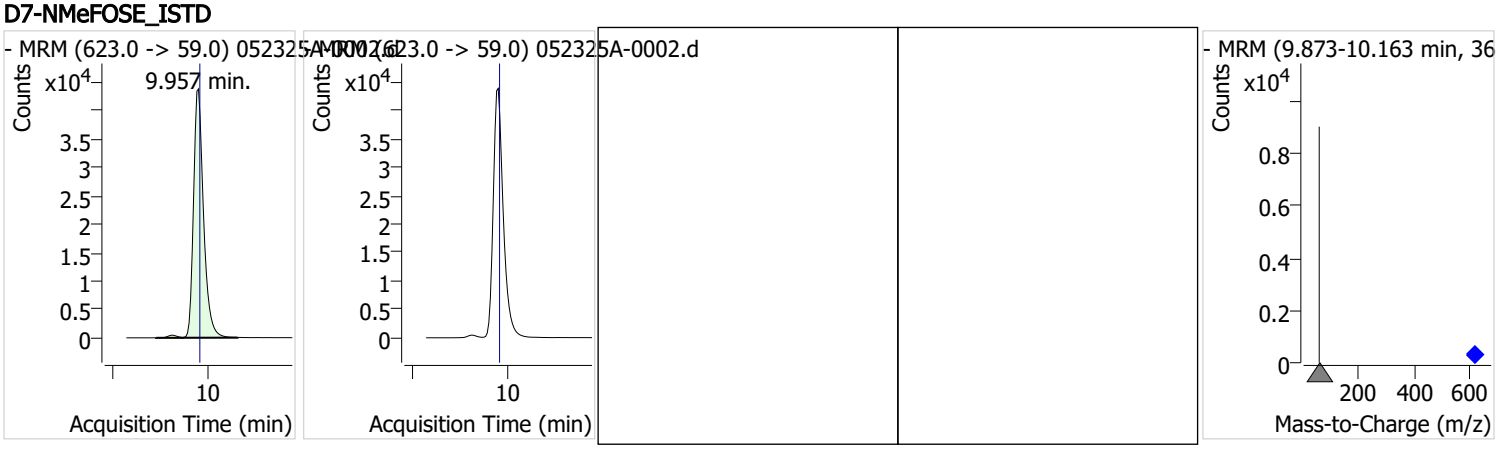
NMeFOSE



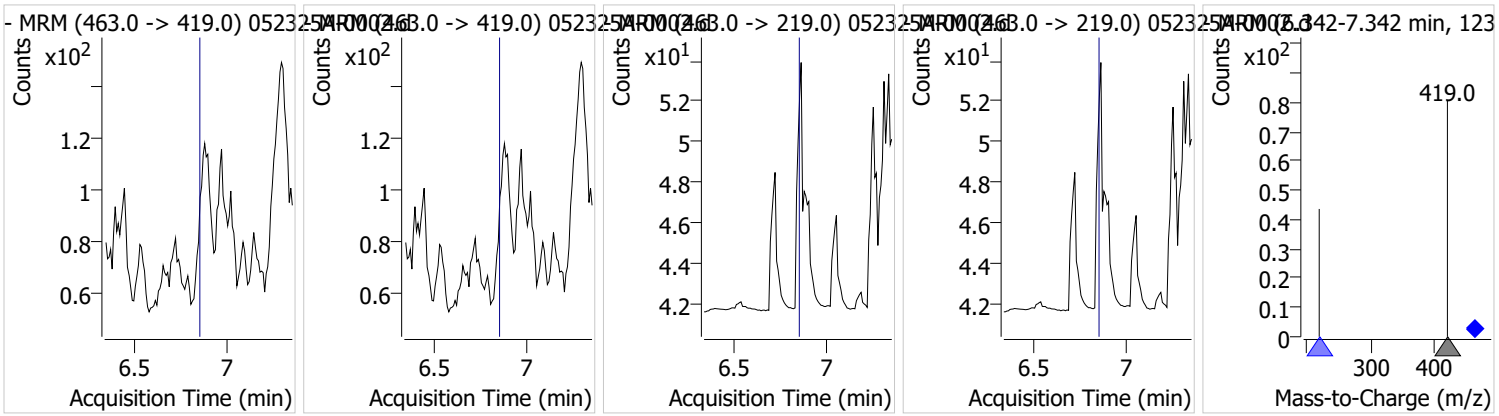
PFHxS



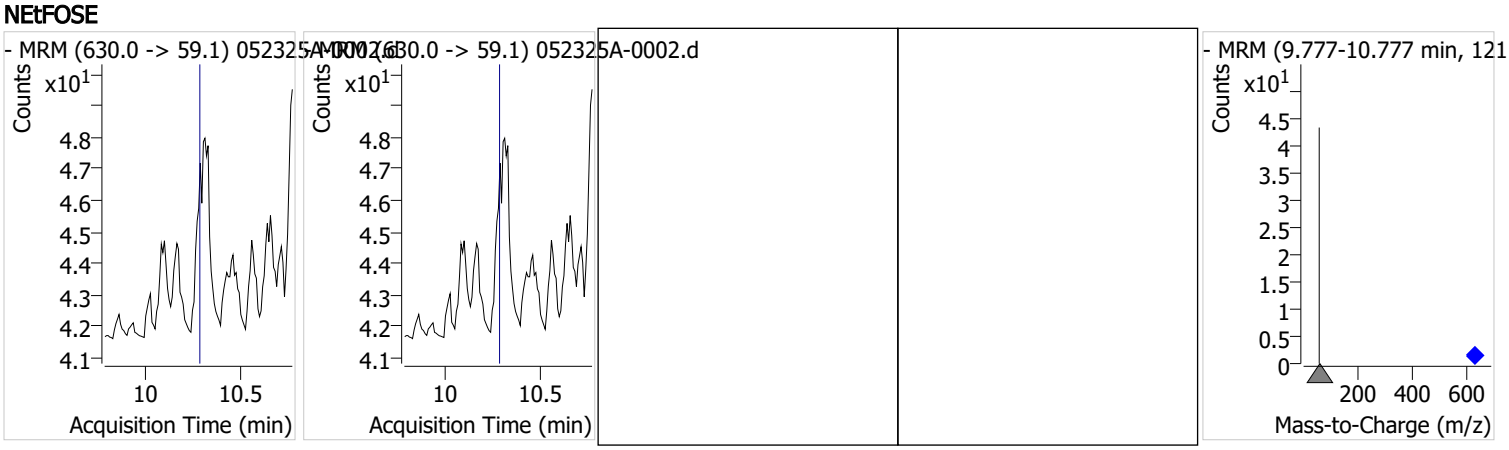
D7-NMeFOSE_ISTD



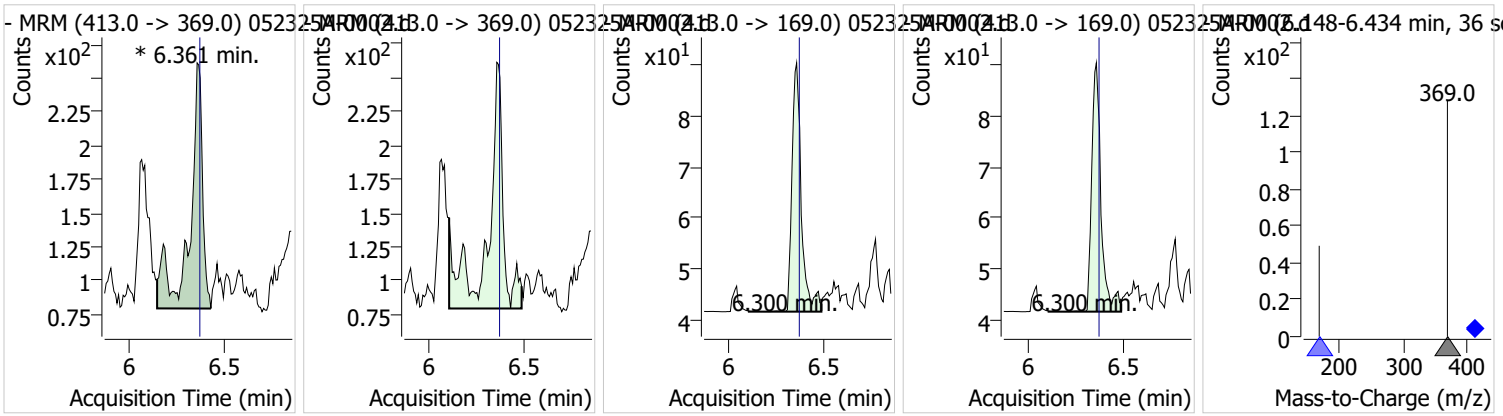
PFNA



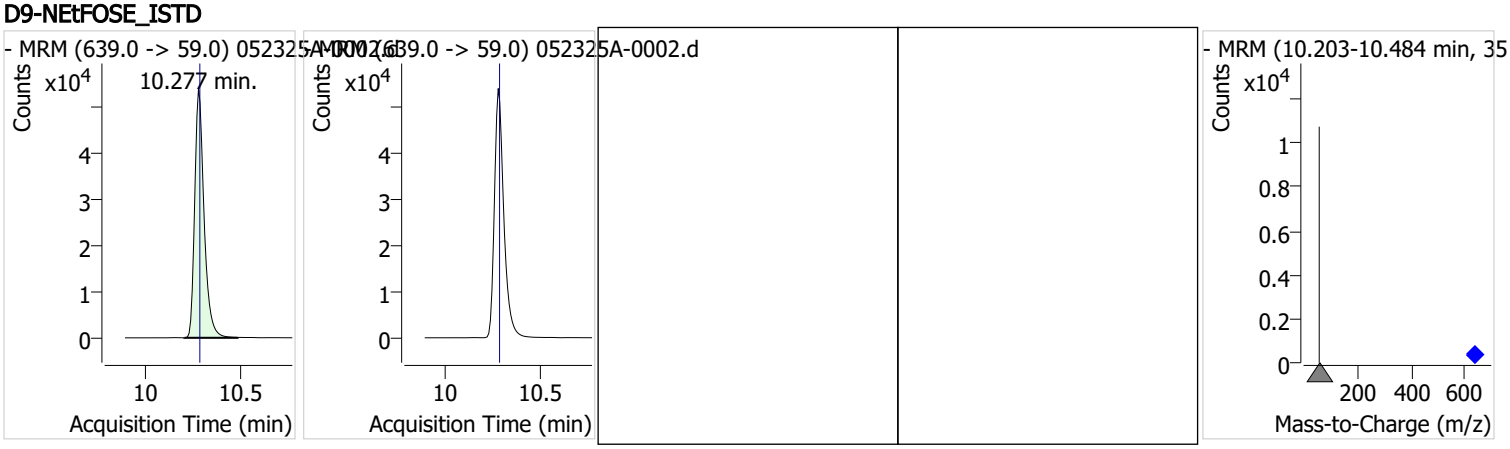
NEtFOSE



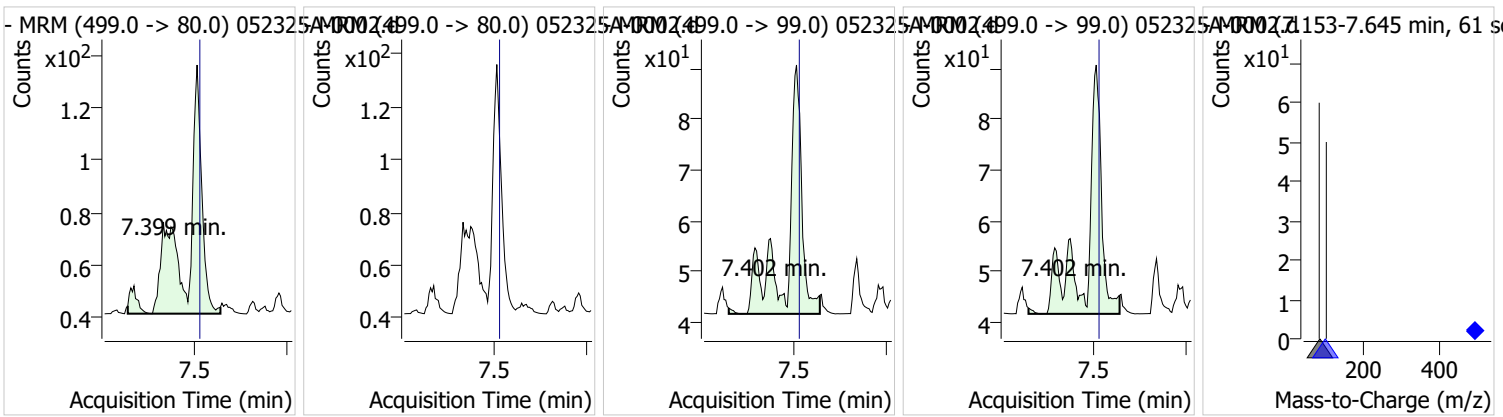
PFOA



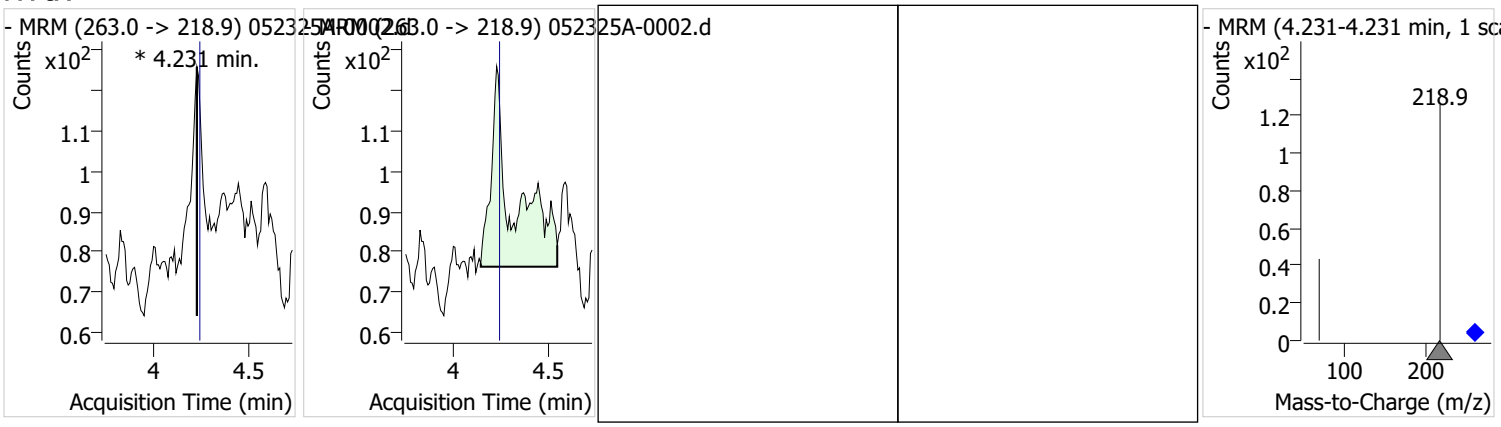
D9-NEtFOSE_ISTD



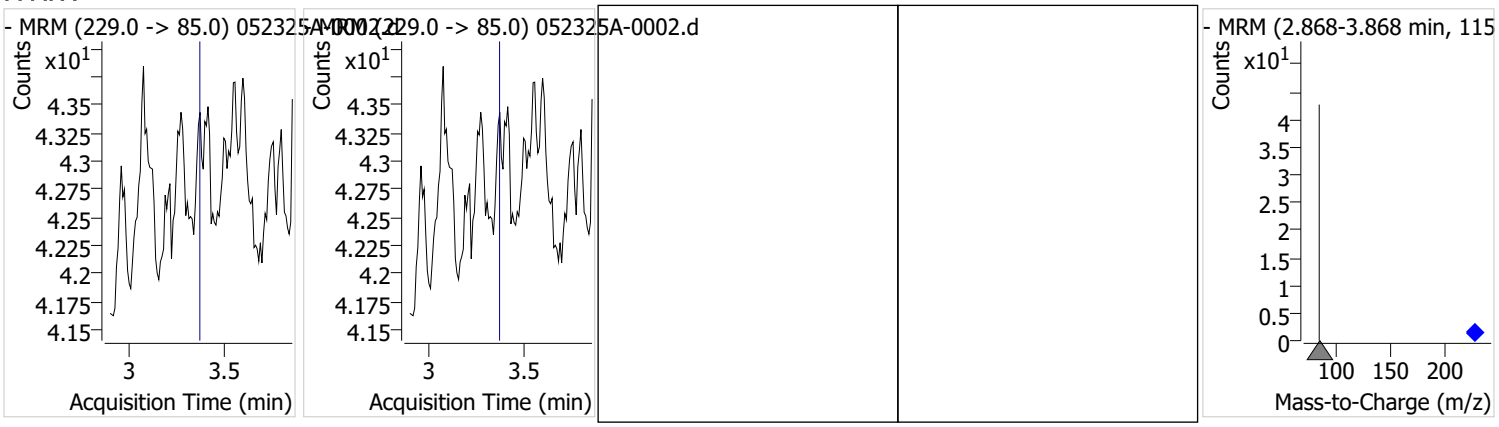
PFOS



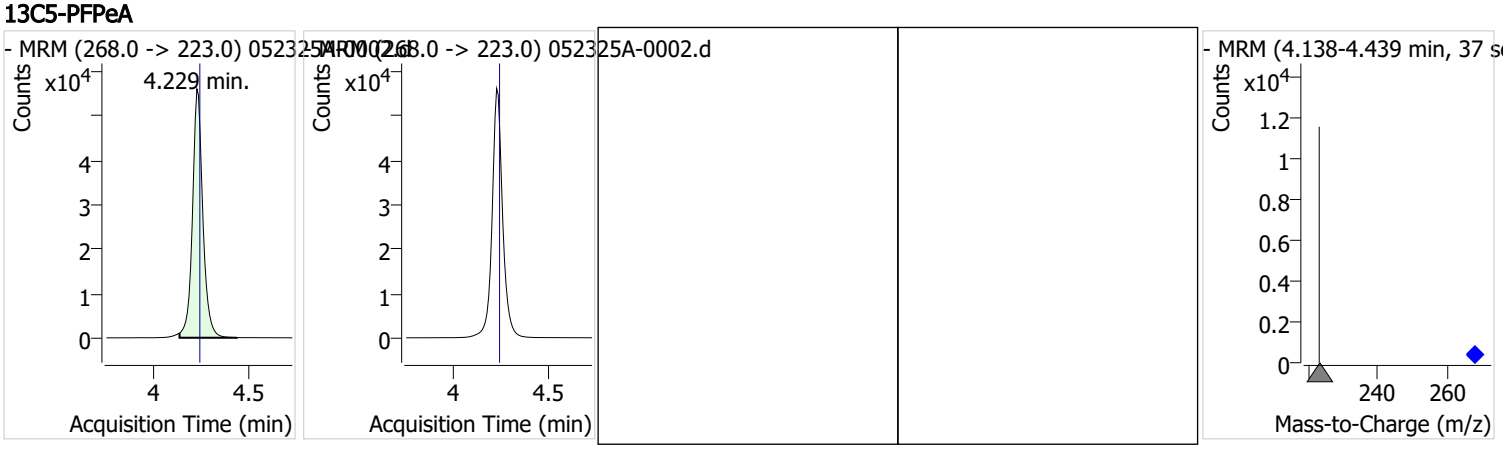
PFPeA



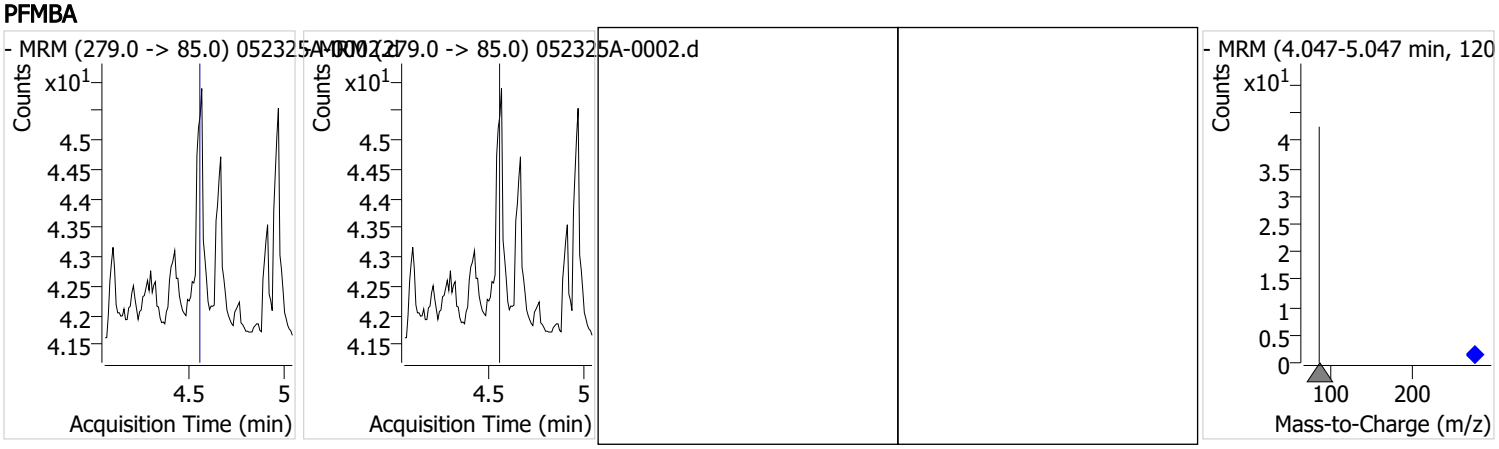
PFMPA



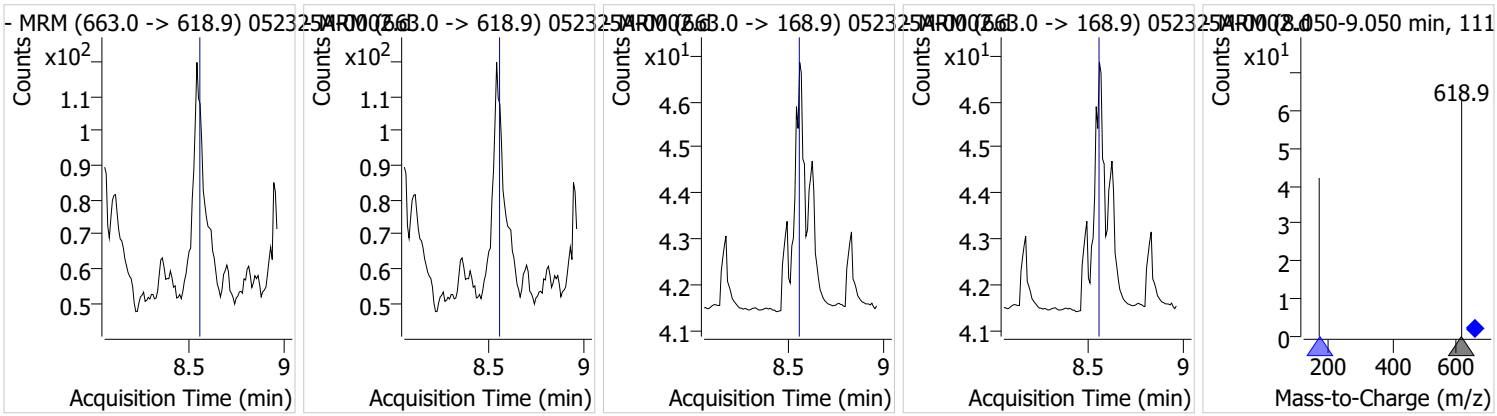
13C5-PFPeA



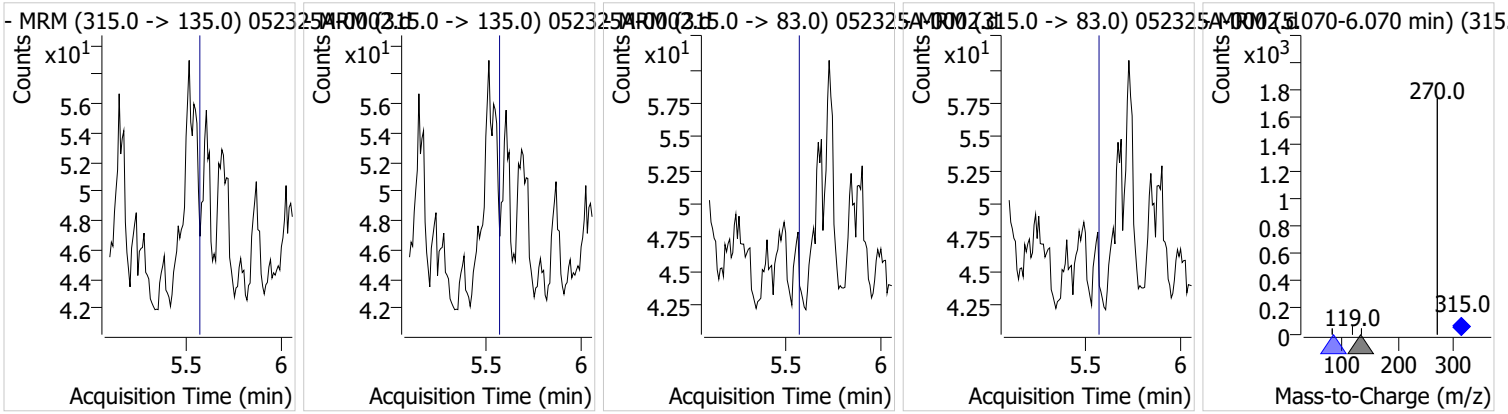
PFMBA



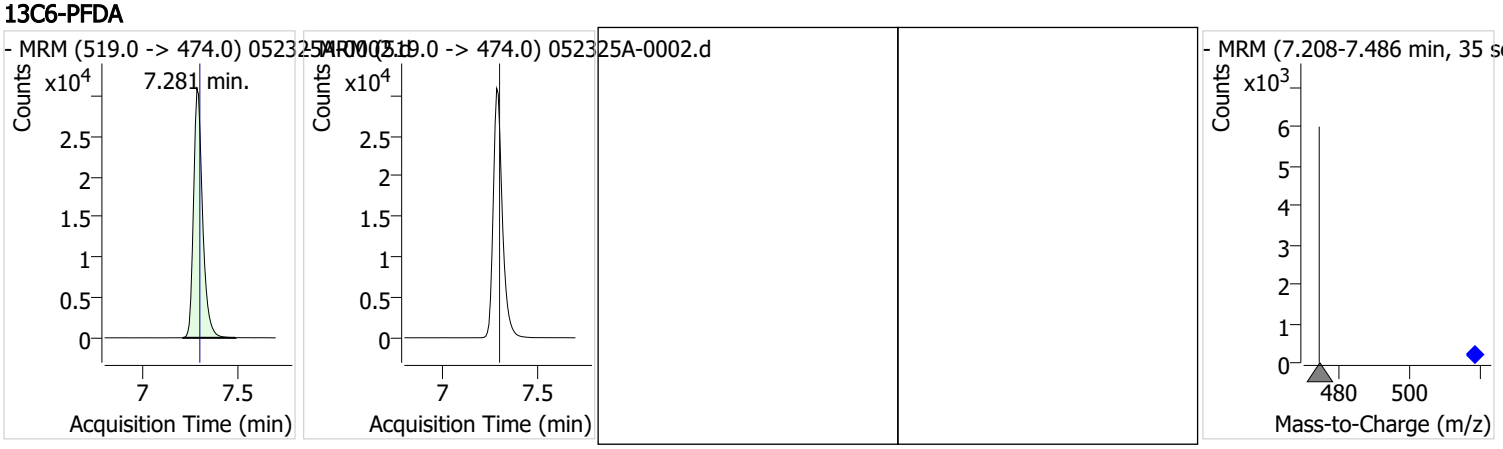
PFTrDA



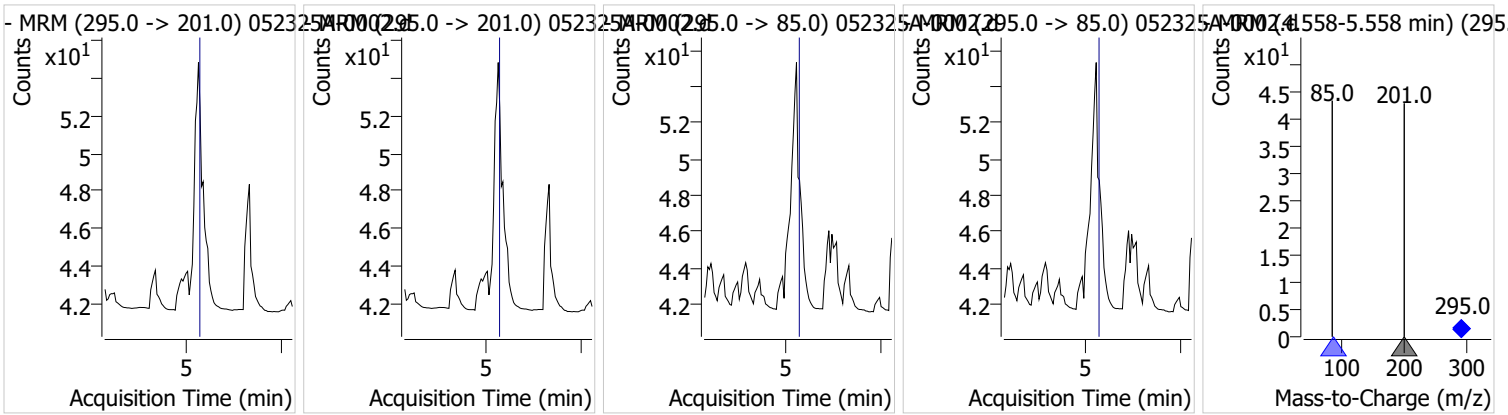
PFEESA



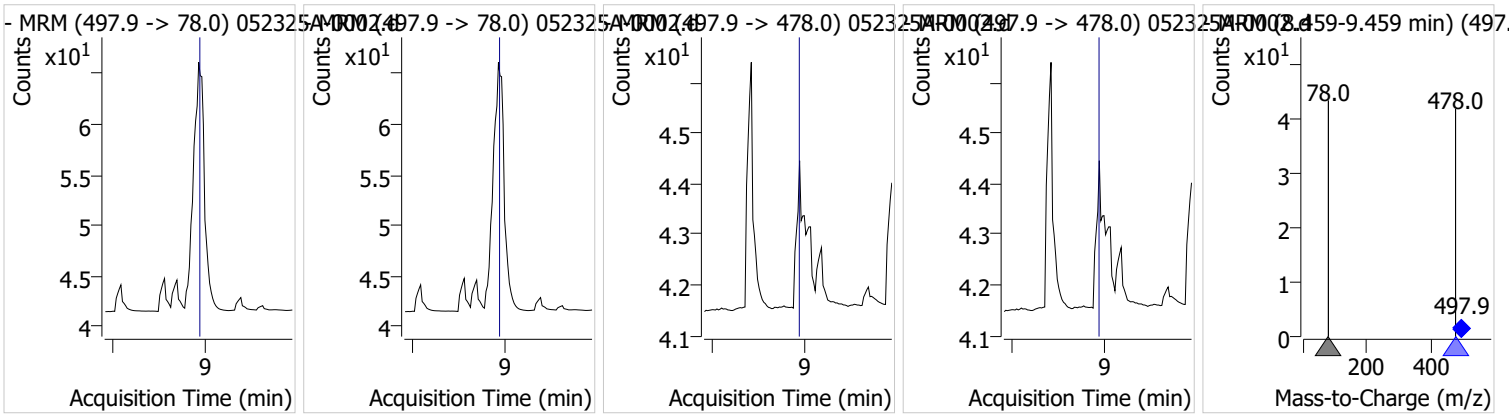
13C6-PFDA



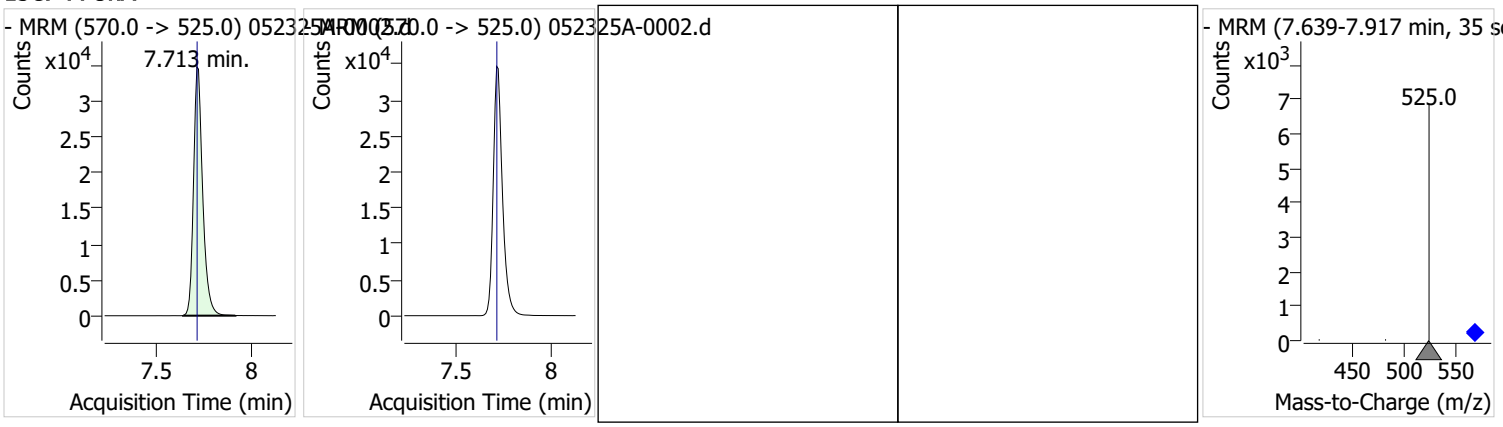
NFDHA



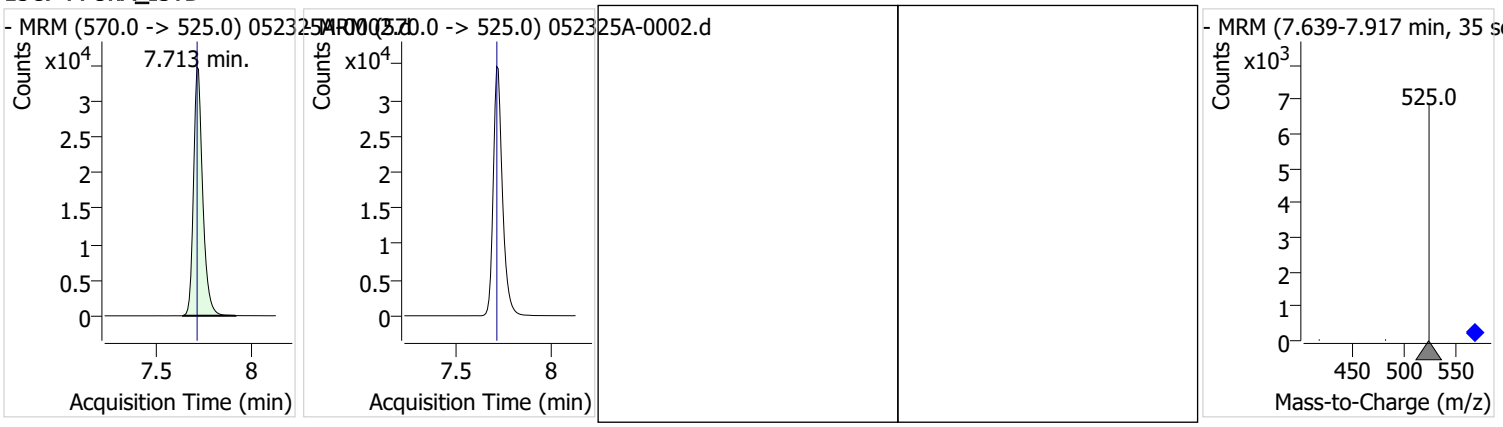
PFOSA



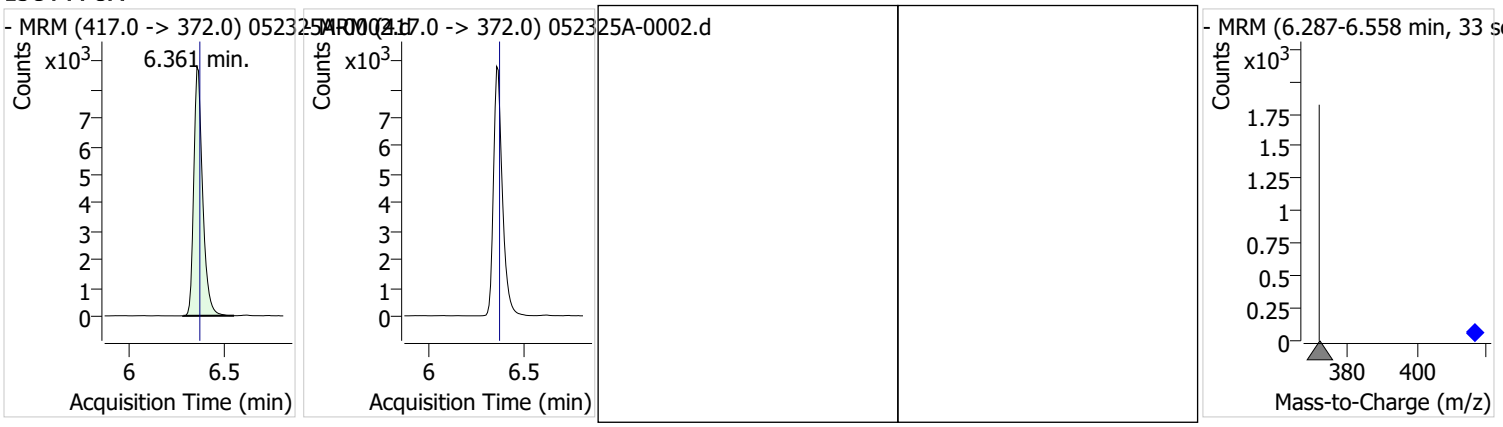
13C7-PFUnA



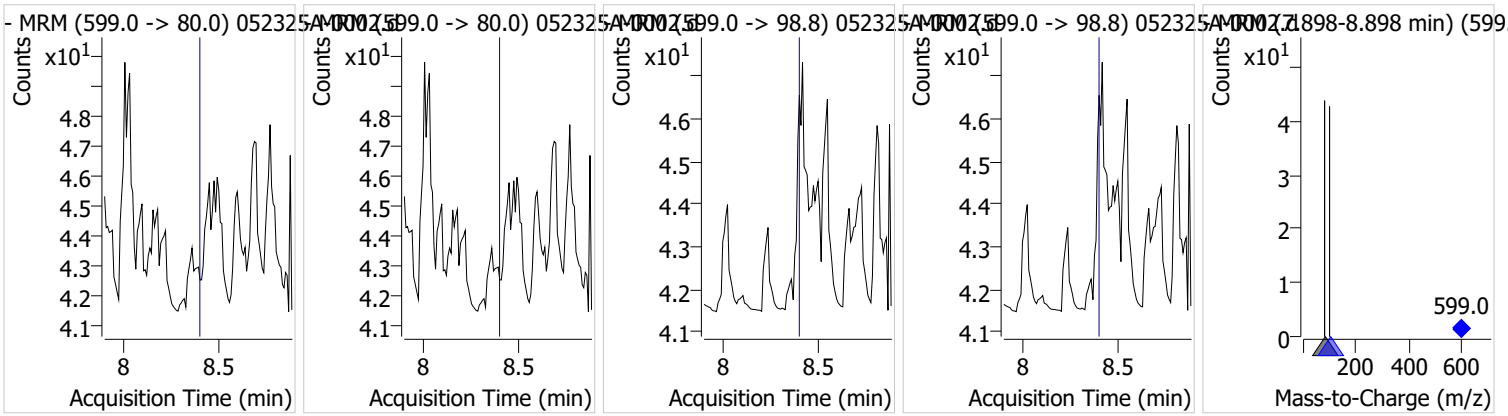
13C7-PFUnA_ISTD



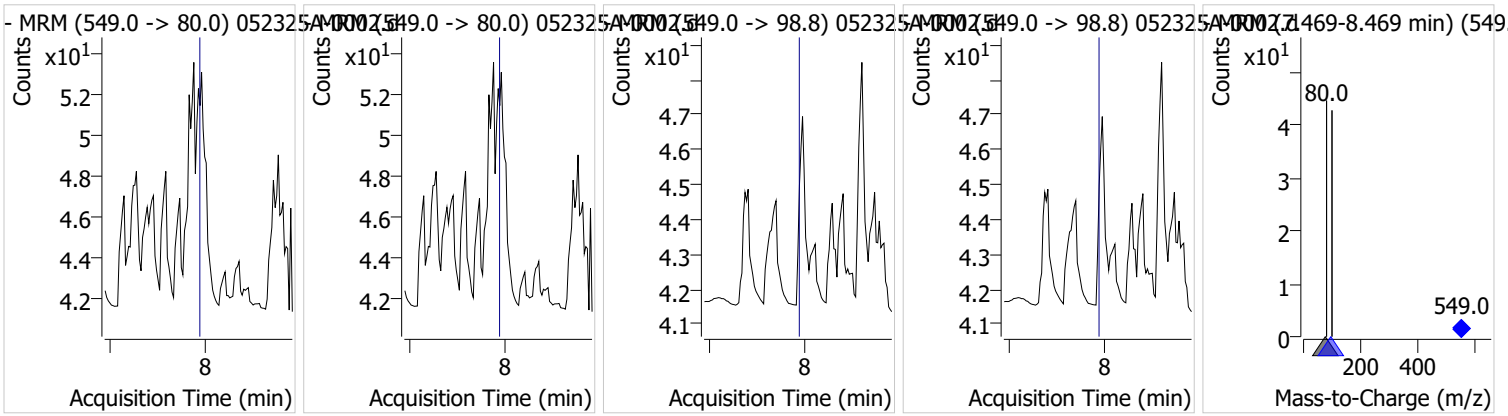
13C4-PFOA



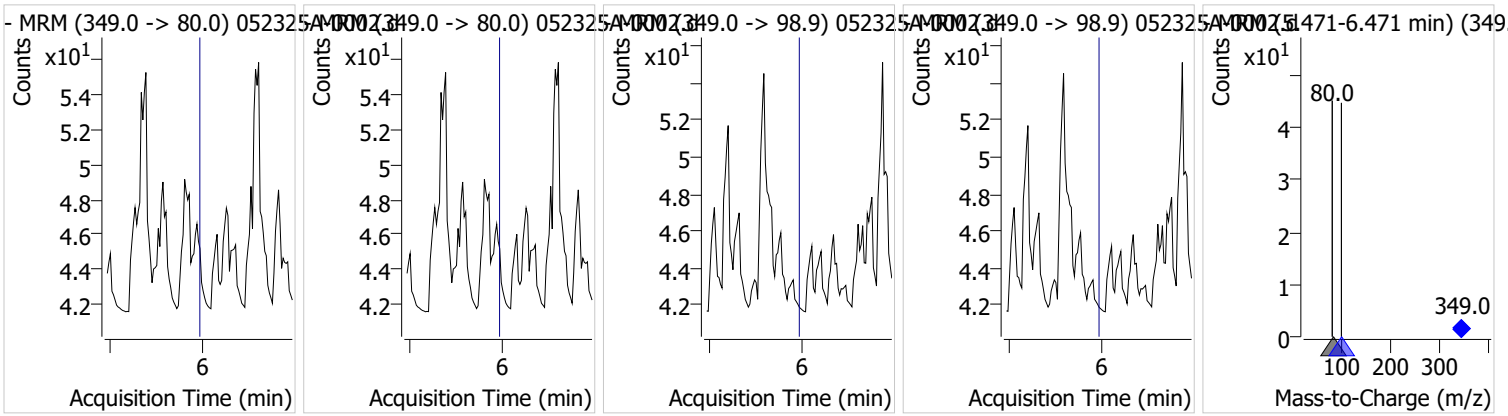
PFDS



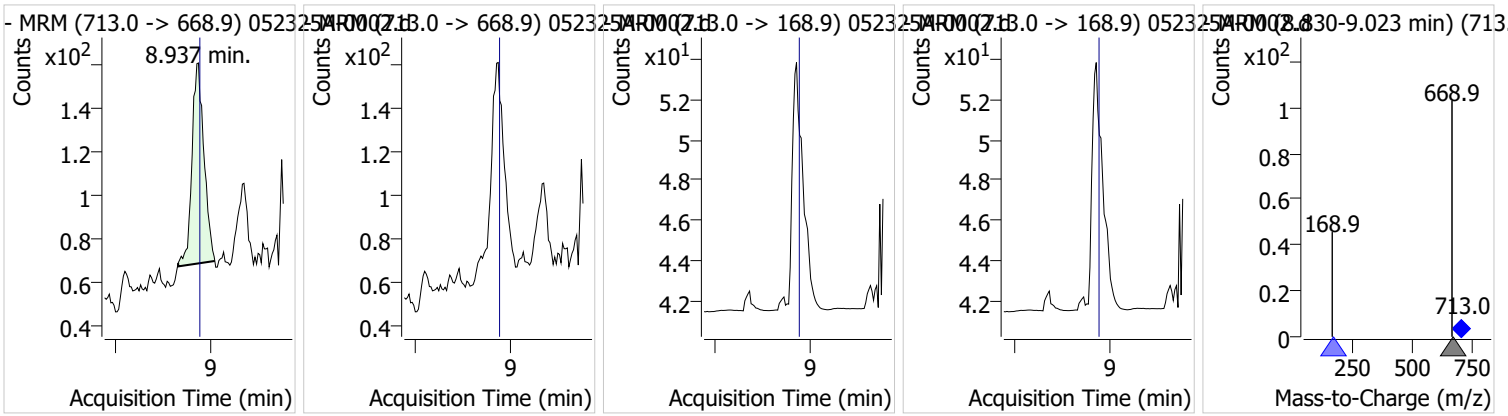
PFNS



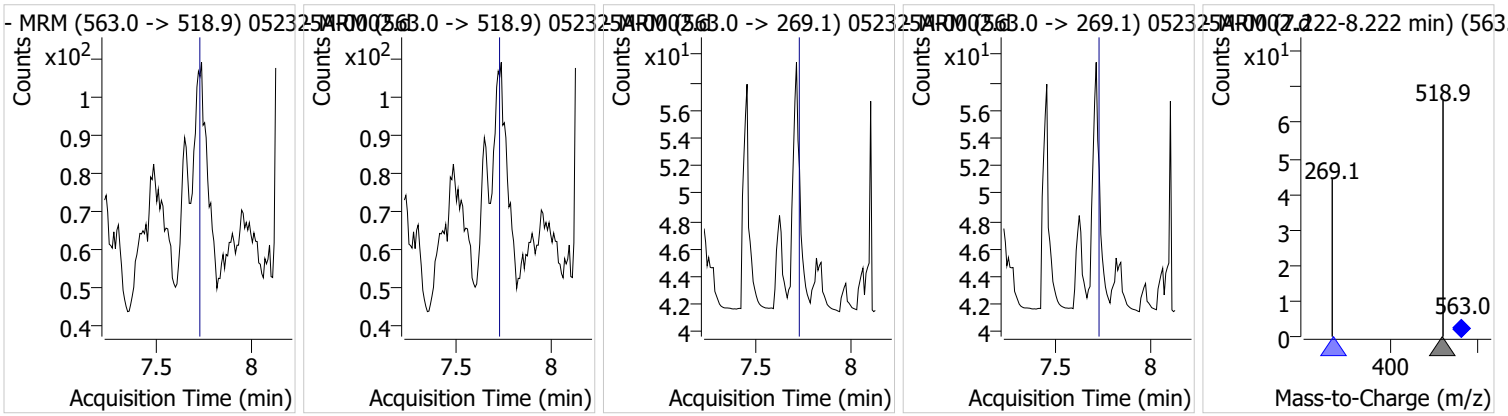
PFPeS



PFTeDA



PFUnA



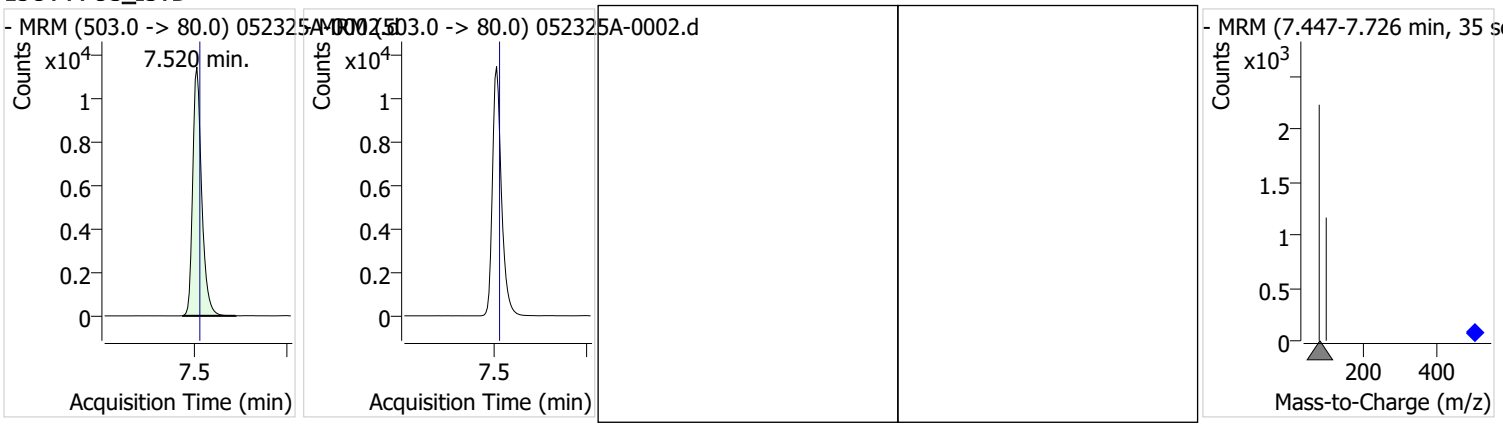
13C2-PFDA_ISTD



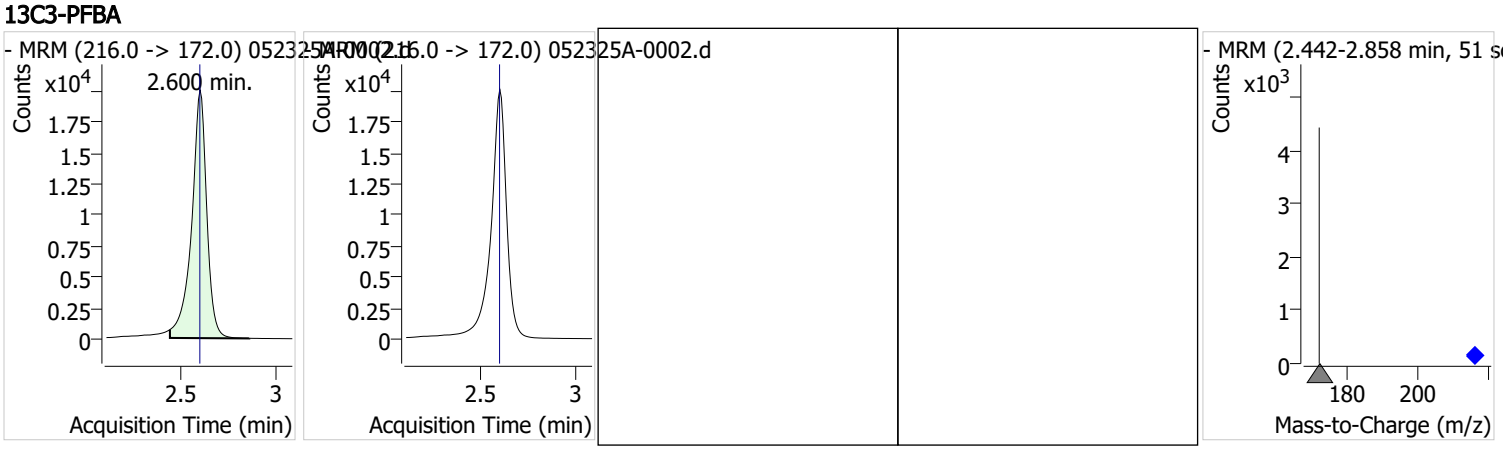
13C2-PFHxA_ISTD



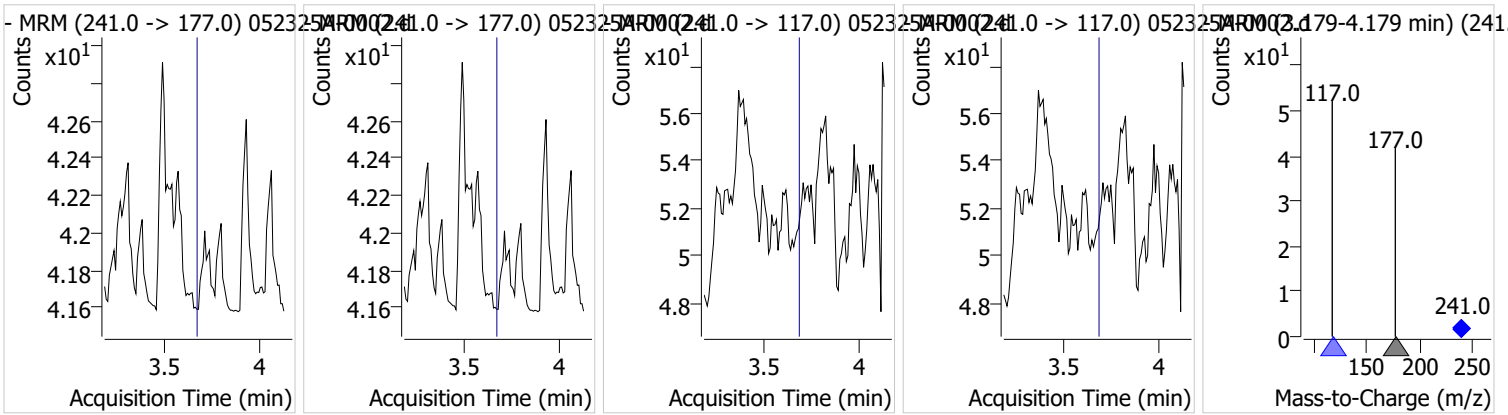
13C4-PFOS_ISTD



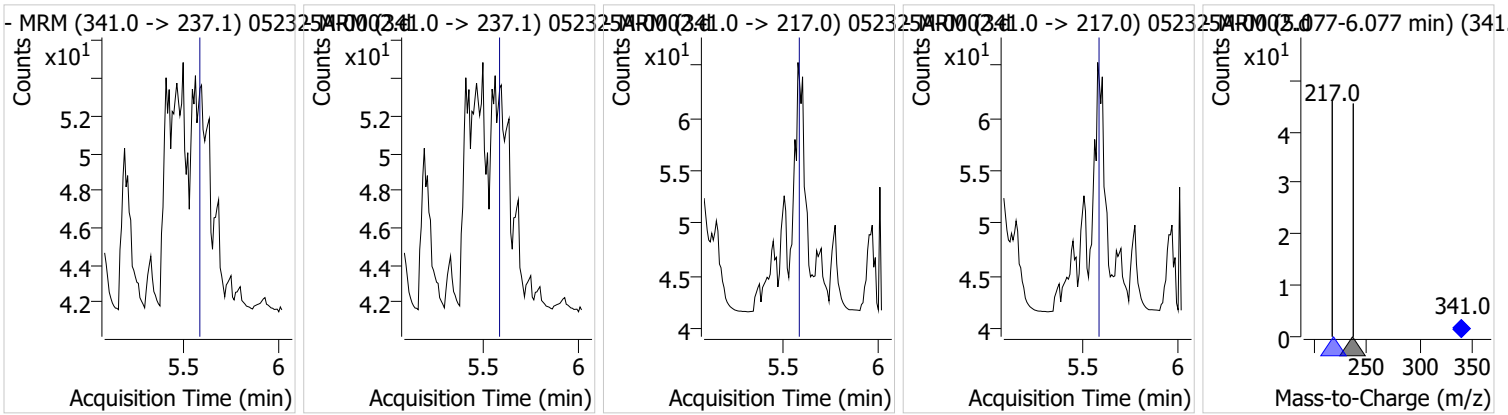
13C3-PFBA



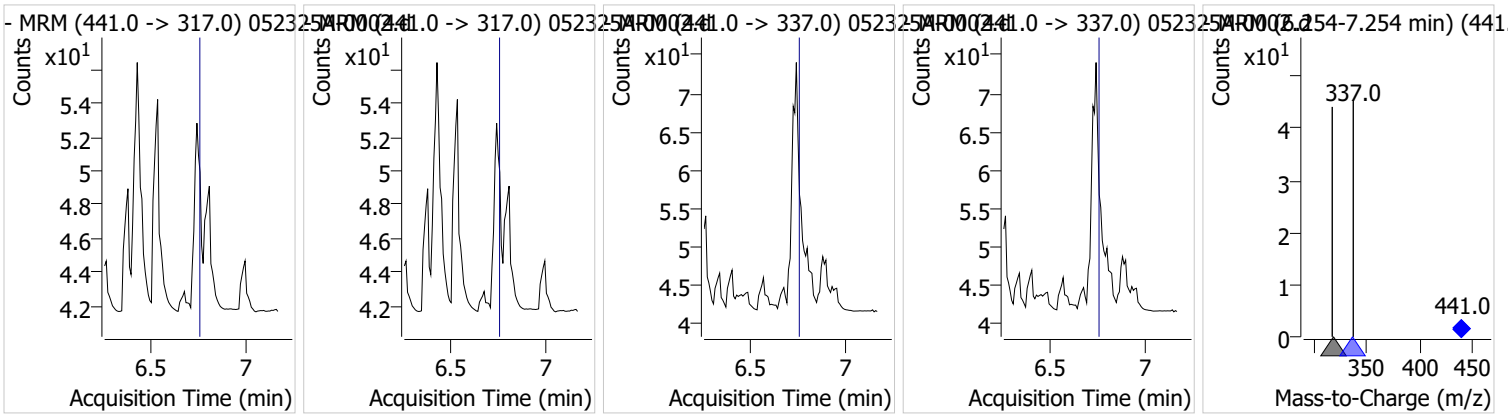
3:3FTCA



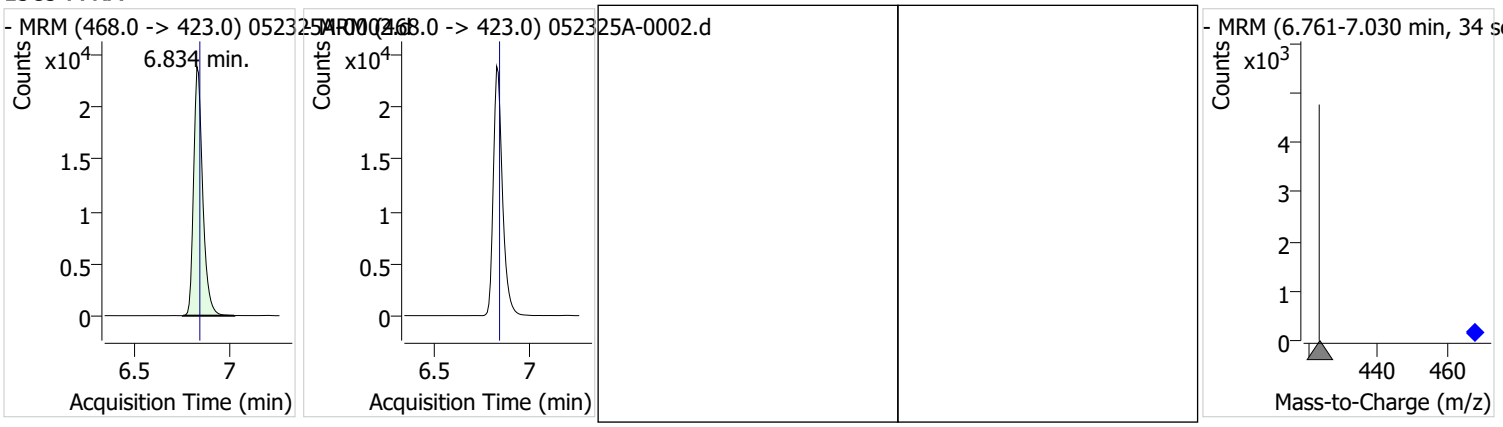
5:3FTCA



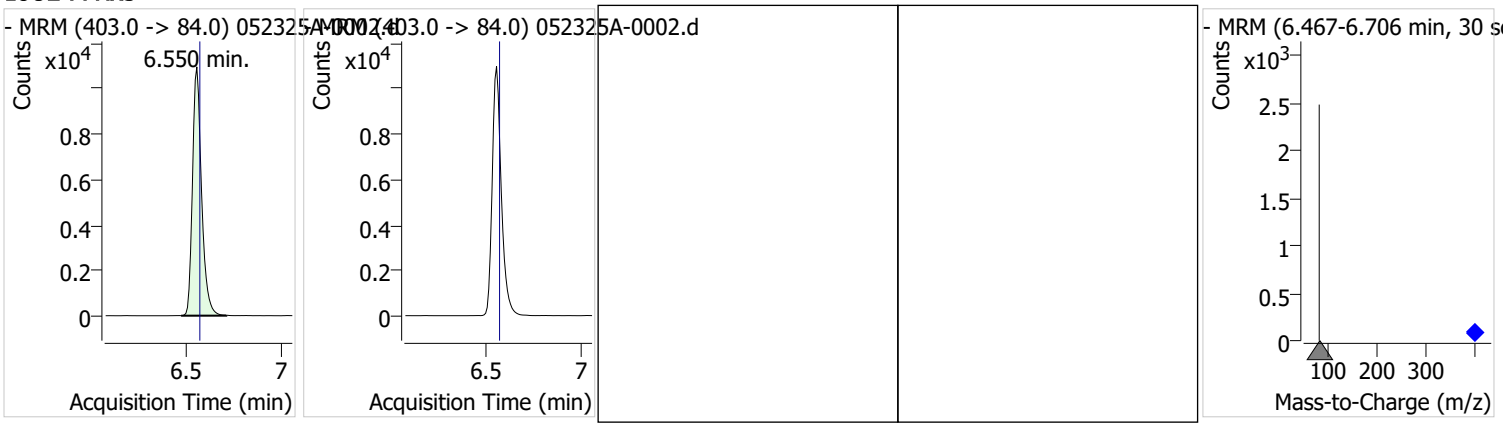
7:3FTCA



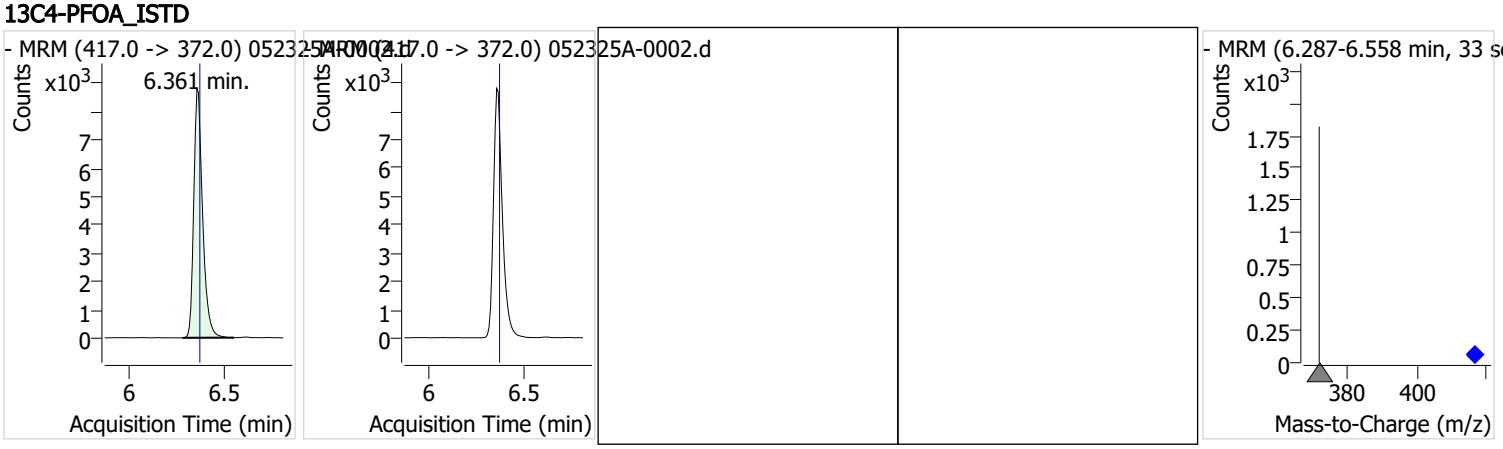
13C5-PFNA



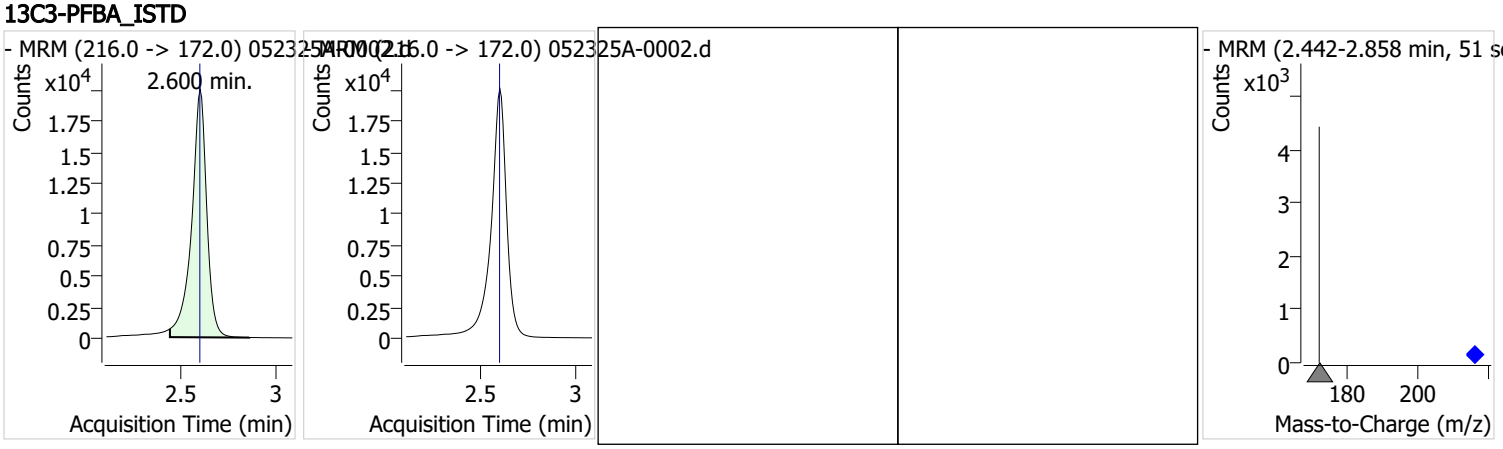
18O2-PFHxS



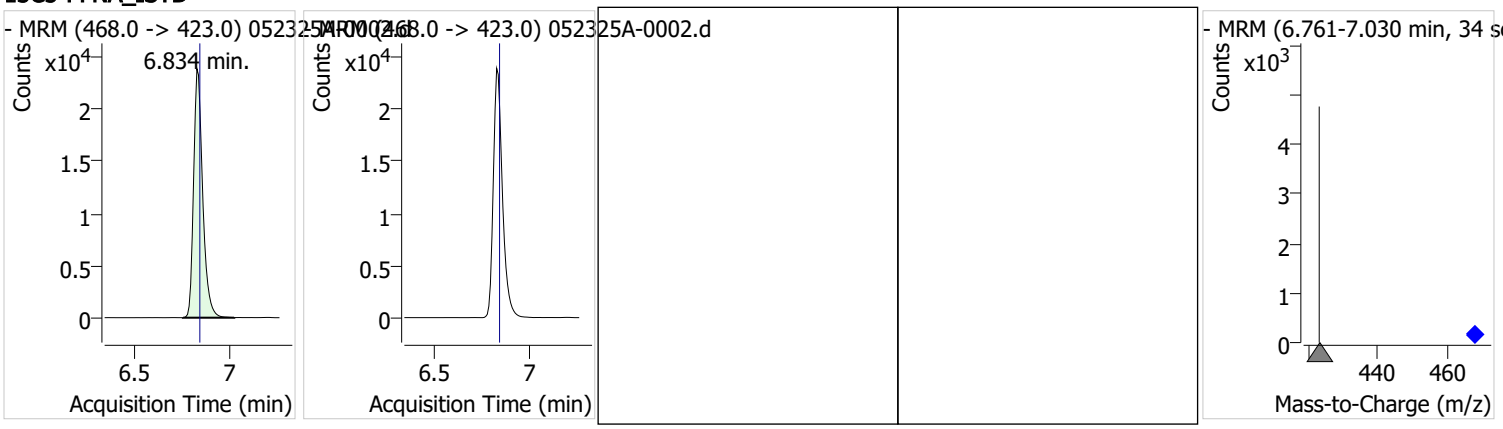
13C4-PFOA_ISTD



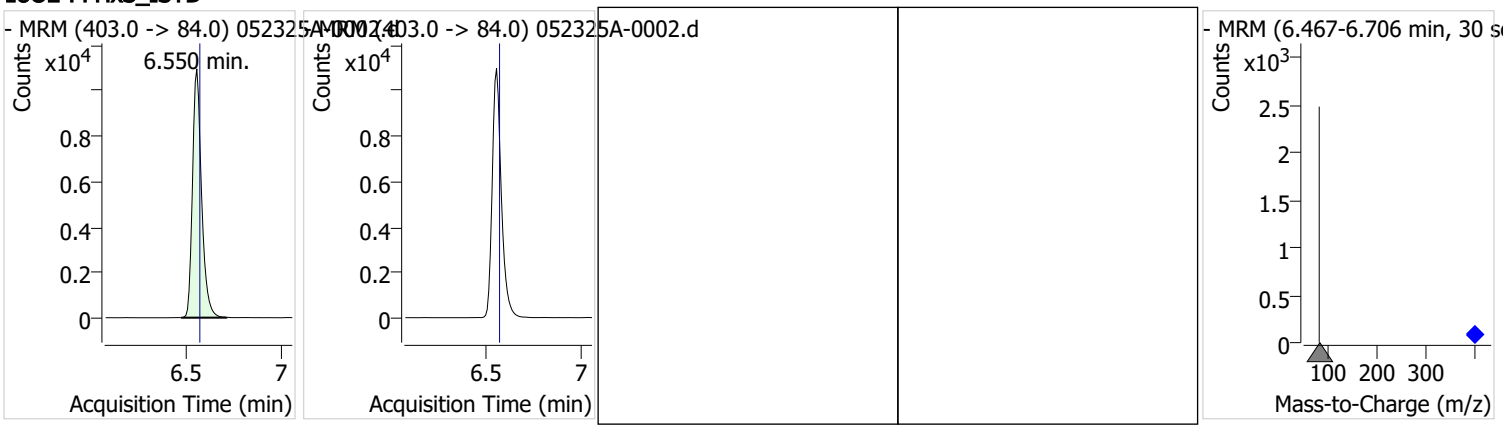
13C3-PFBA_ISTD



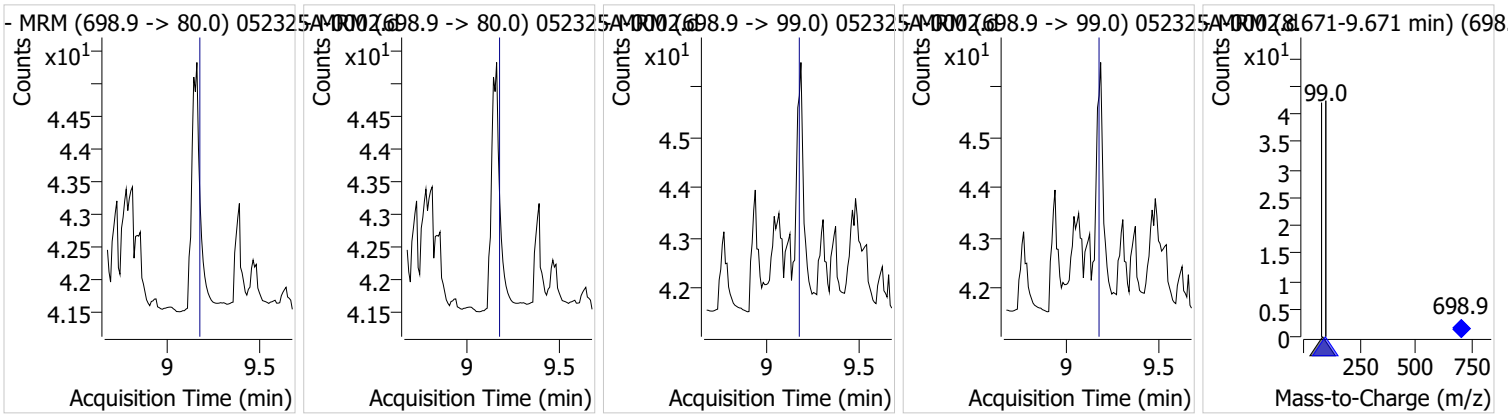
13C5-PFNA_ISTD



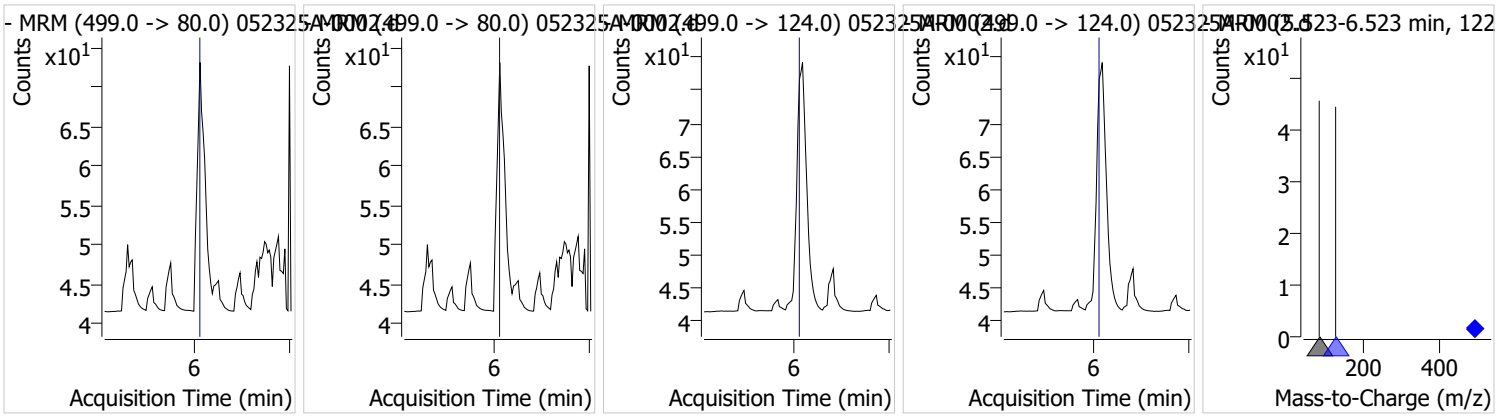
18O2-PFHxS_ISTD



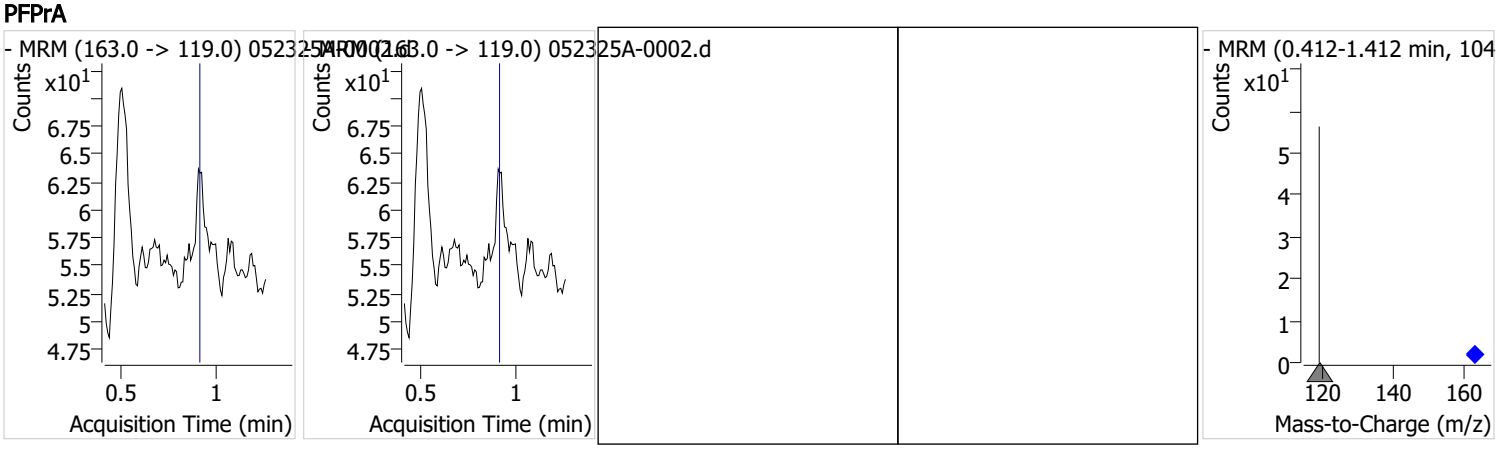
PFDoS



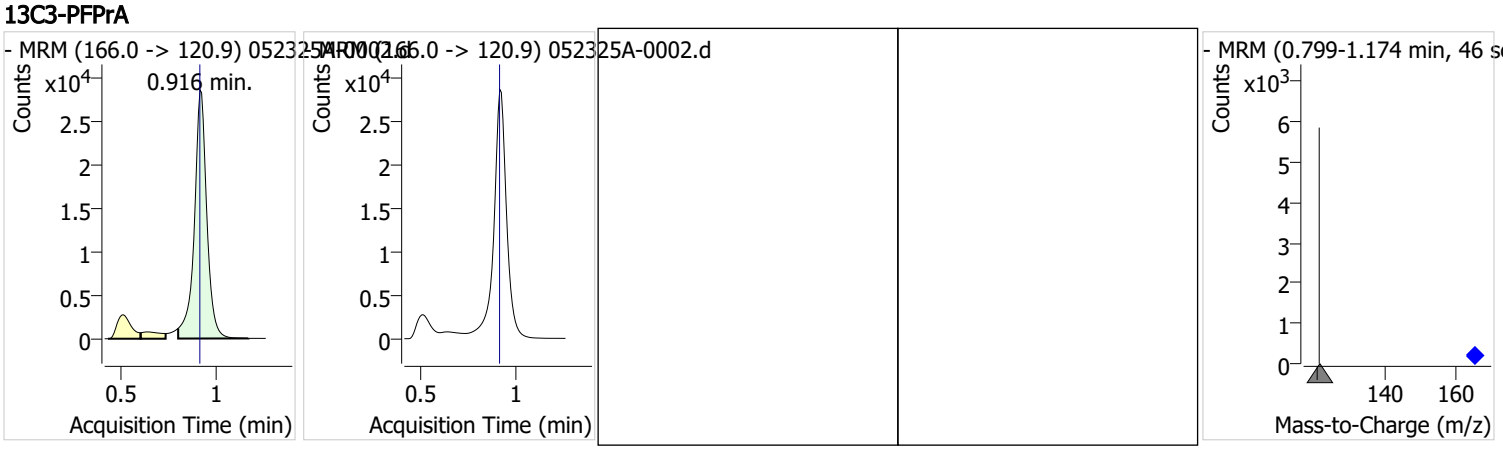
TDCA



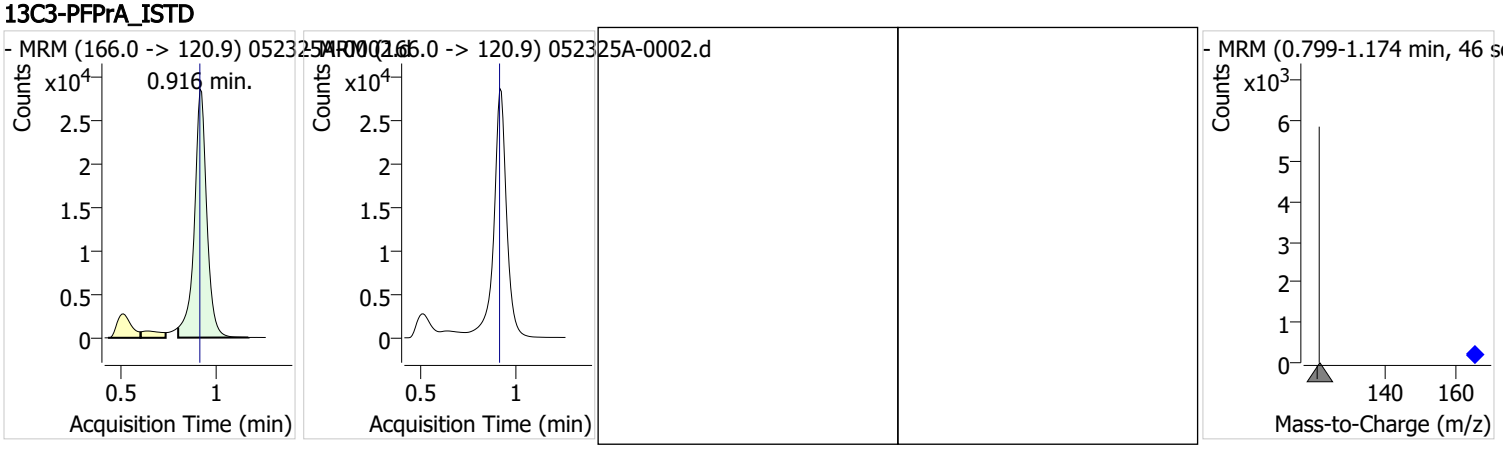
PFPrA



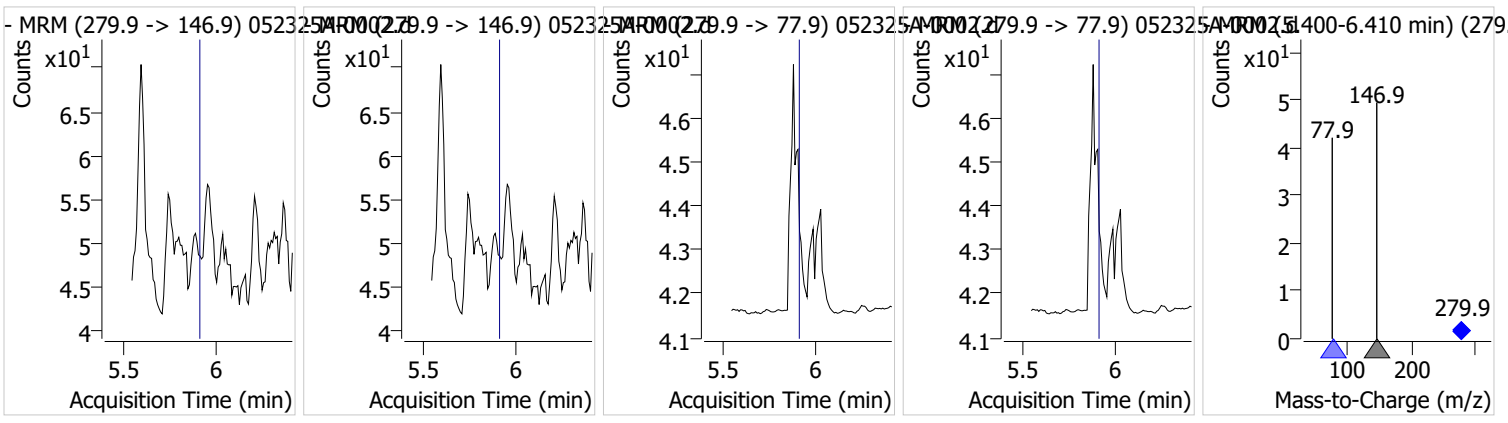
13C3-PFPrA



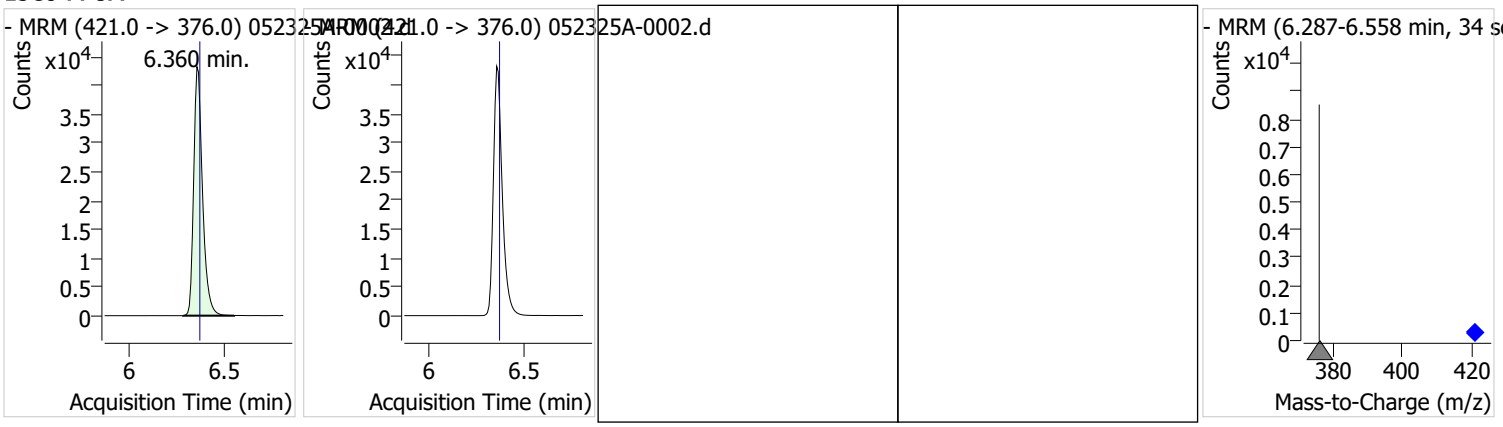
13C3-PFPrA_ISTD



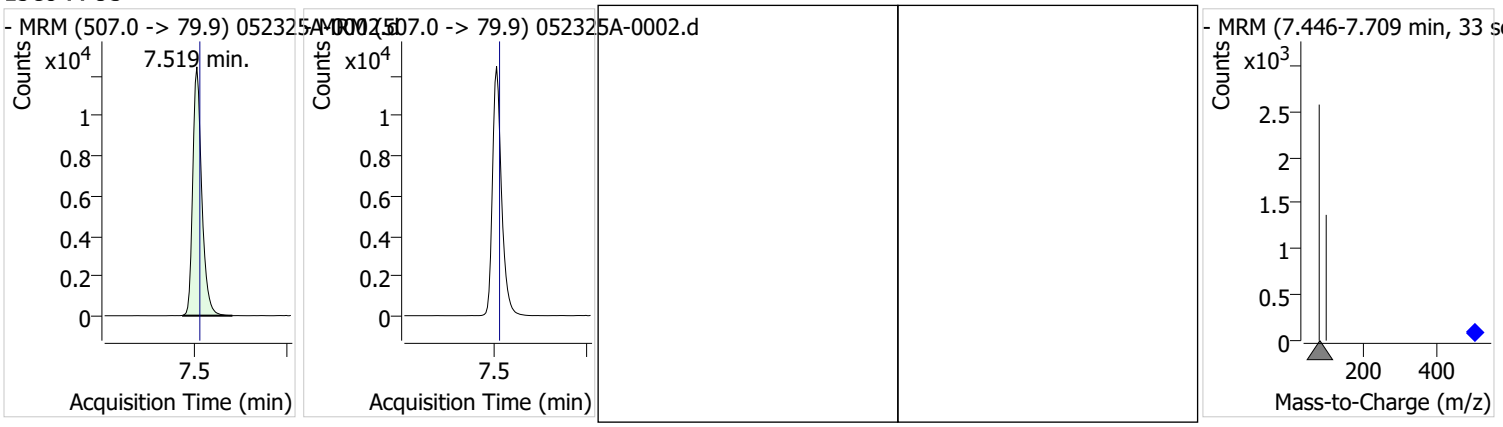
TFSI



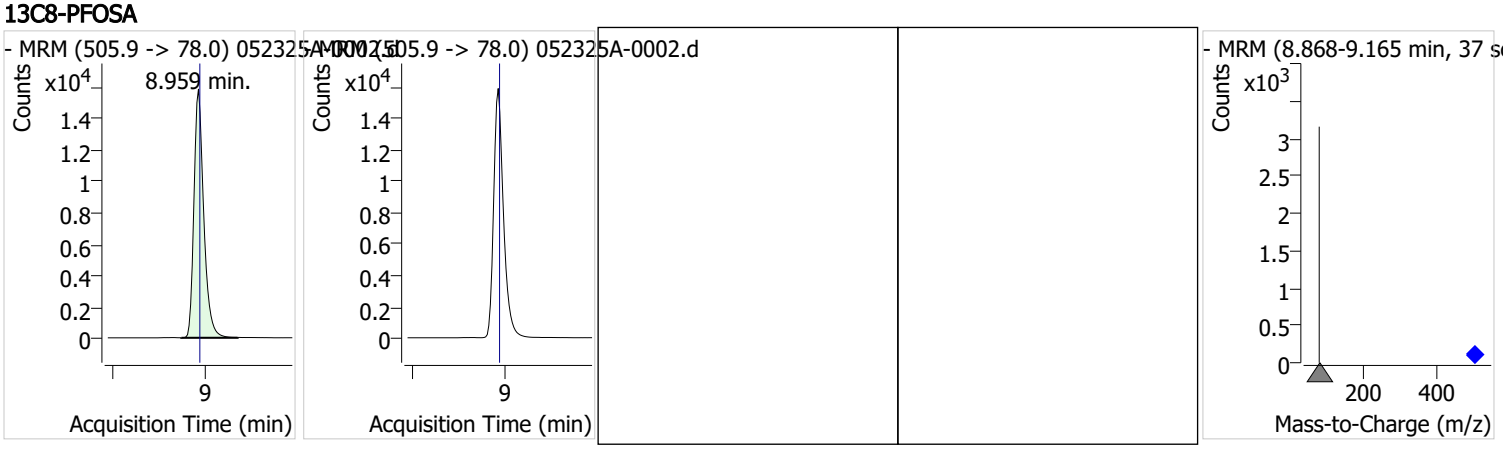
13C8-PFOA



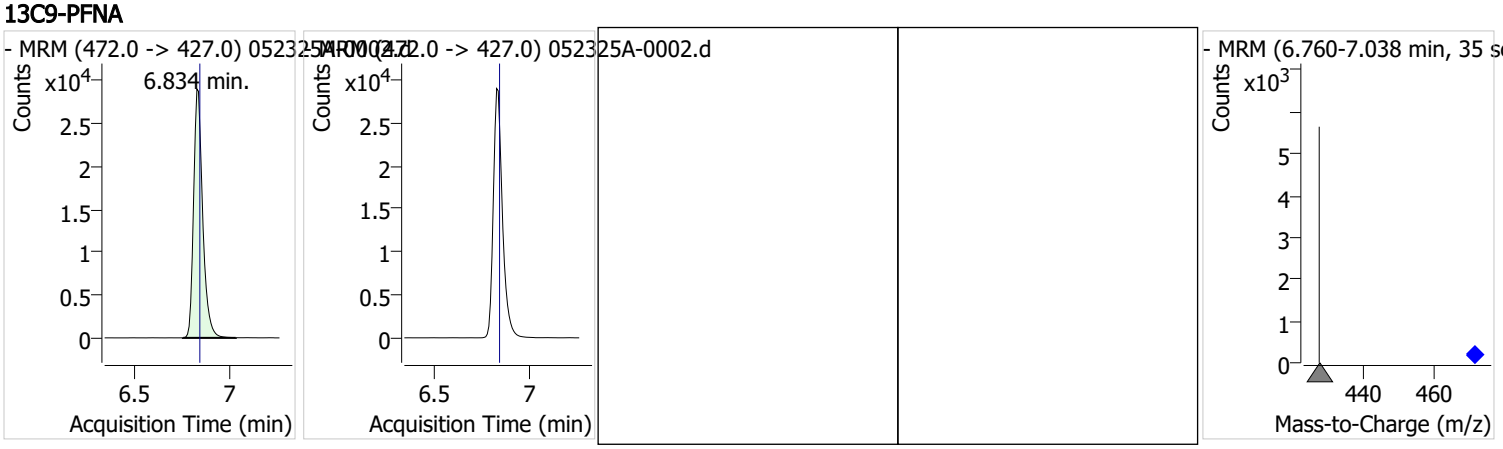
13C8-PFOS



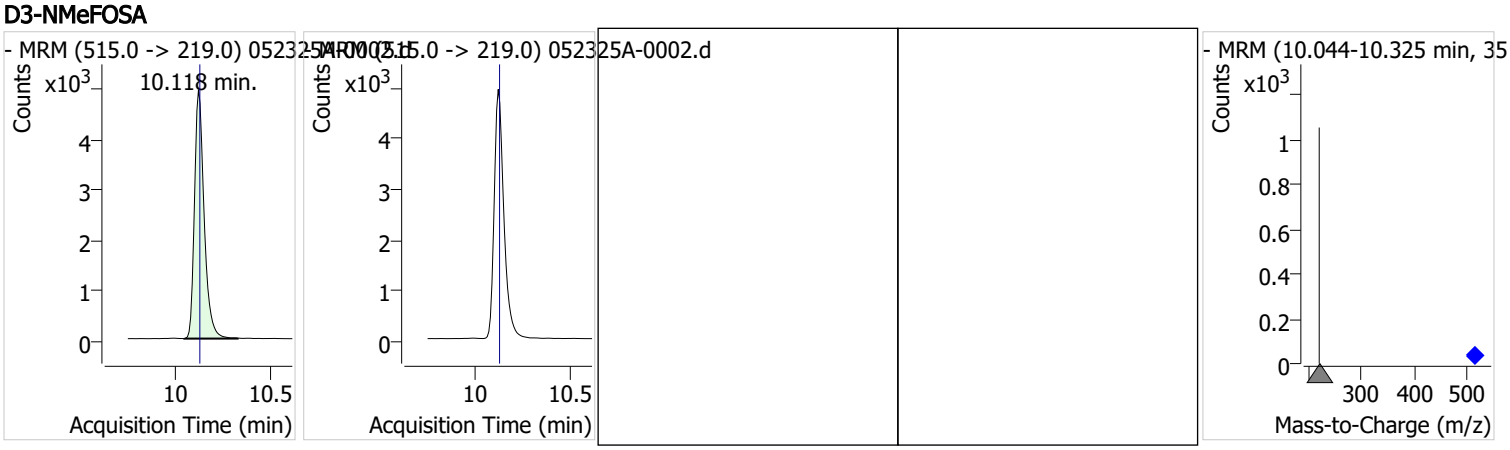
13C8-PFOSA



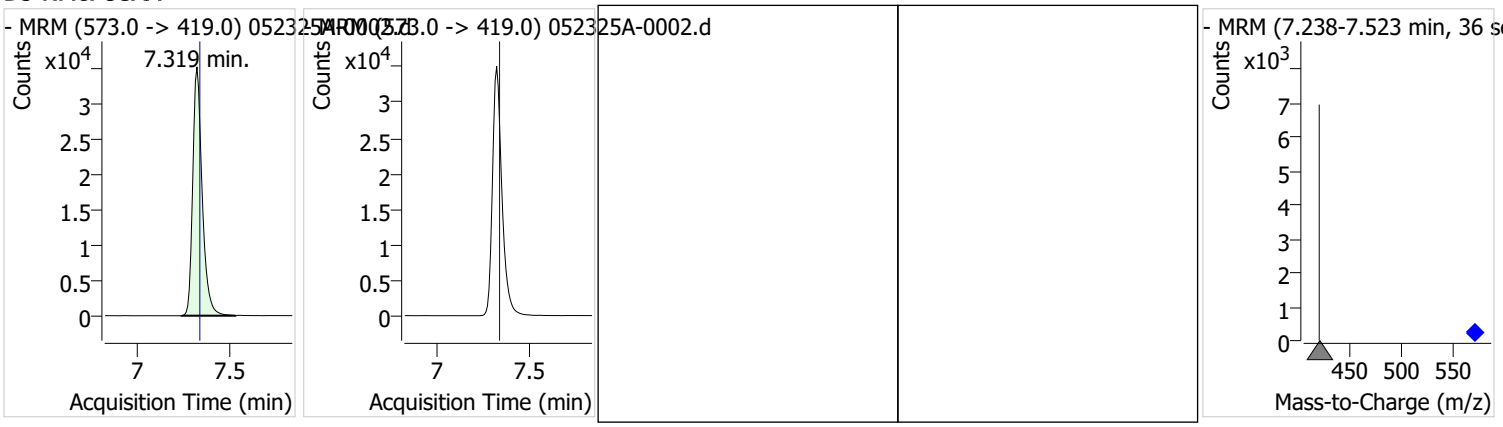
13C9-PFNA



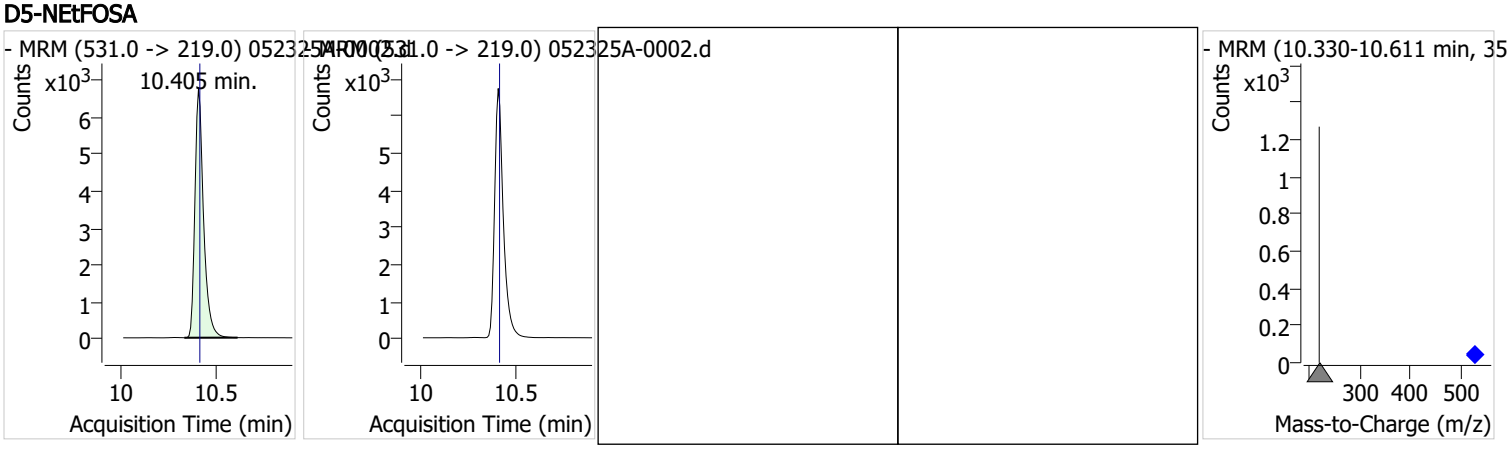
D3-NMeFOSA



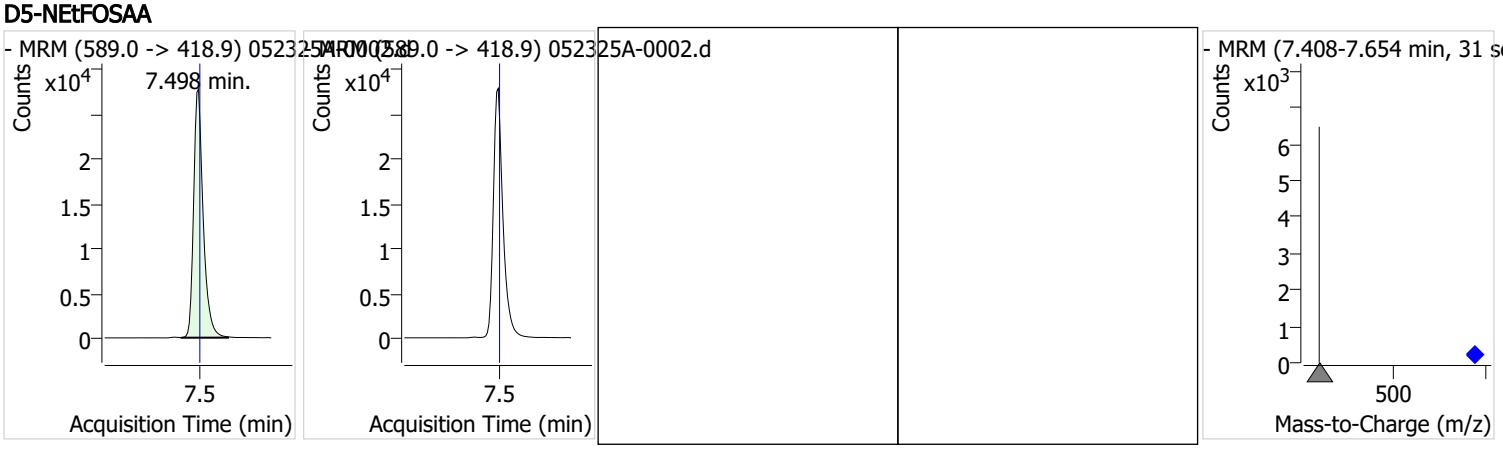
D3-NMeFOSAA



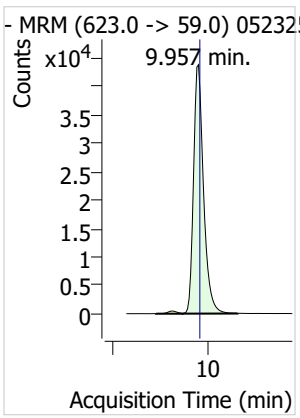
D5-NEtFOSA

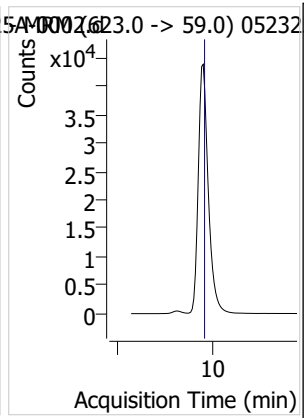


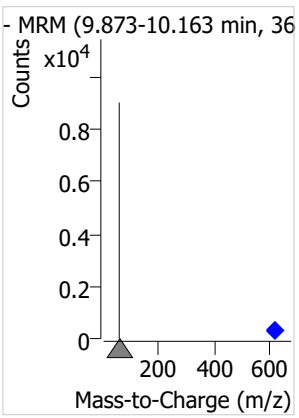
D5-NEtFOSAA



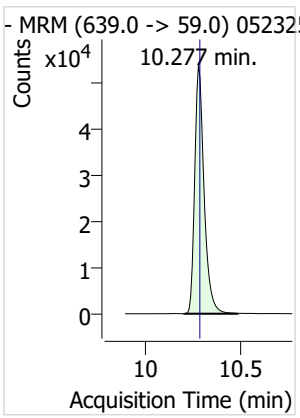
D7-NMeFOSE

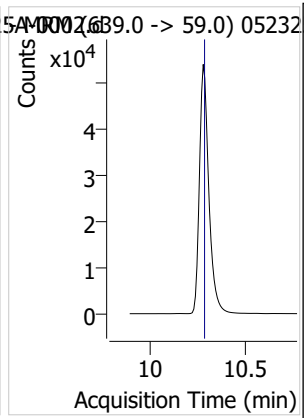


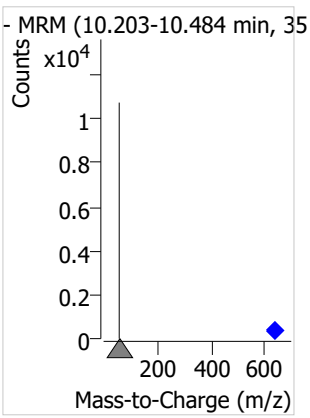




D9-NEtFOSE

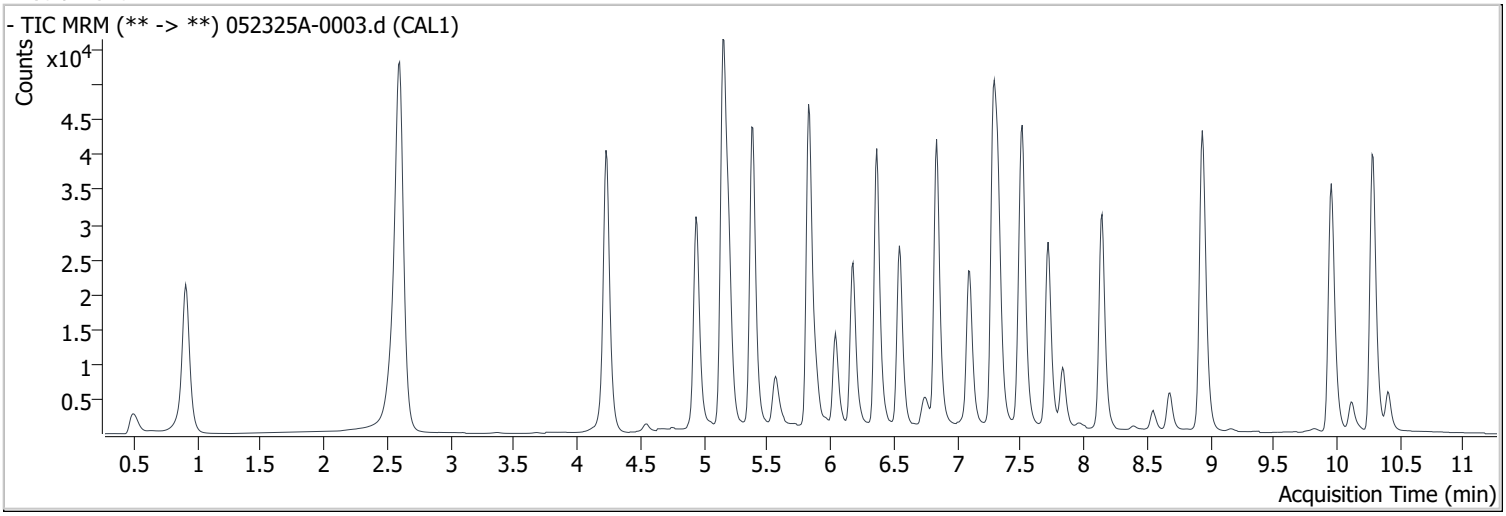






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 10:26 AM	**Data File**	052325A-0003.d
Sample Type	Cal	**Sample Name**	CAL1
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510285	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	2948	851.58		13C3-HFPODA_ISTD	5.386	89881	0.3341	ng/ml			
285.0 -> 184.9	5.386	1862	63.22	63.2								
4:2FTS	4.938	5748	1644.65		13C2-4:2FTS_ISTD	4.938	28365	0.3079	ng/ml			
327.0 -> 80.9	4.939	2308	724.53	40.1								
6:2FTS	6.172	3921	10755.52		13C2-6:2FTS_ISTD	6.180	20467	0.3557	ng/ml			
427.0 -> 80.9	6.172	1548	432.94	39.5								
ADONA	6.044	29879	9254.97		13C4-PFHpA_ISTD	5.831	143954	0.3201	ng/ml			
377.0 -> 85.1	6.044	12715	3865.58	42.6								
8:2FTS	7.092	3797	8335.09		13C2-8:2FTS_ISTD	7.100	19889	0.3483	ng/ml			
527.0 -> 81.0	7.093	1556	5955.10	41.0								
13C4-PFBA	2.597	205869	1331.59		13C3-PFBA_ISTD	2.592	85674	9.8729	ng/ml			
9Cl-PF3ONS	7.838	20967	1166.50		13C8-PFOS_ISTD	7.519	30267	0.3064	ng/ml			
533.0 -> 353.0	7.838	5903	136.38	28.2								
11Cl-PF3OUdS	8.685	14767	2010.18		13C8-PFOS_ISTD	7.519	30267	0.3082	ng/ml			
633.0 -> 453.0	8.684	3774	5702.23	25.6								
PFHpS	7.055	1378	74.81		13C8-PFOS_ISTD	7.519	30267	0.0821	ng/ml			
449.0 -> 98.8	7.064	634	202.01	46.0								
13C2-4:2FTS	4.938	28365	7144.13		18O2-PFHxS_ISTD	6.550	30120	5.4690	ng/ml			
13C2-6:2FTS	6.180	20467	52795.72		18O2-PFHxS_ISTD	6.550	30120	5.2377	ng/ml			
13C2-8:2FTS	7.100	19889	28628.75		18O2-PFHxS_ISTD	6.550	30120	5.0706	ng/ml			
13C2-PFDoA	8.146	96782	3172.57		13C2-PFDA_ISTD	7.290	64749	1.1964	ng/ml			
13C2-PFDA	7.290	64749	19675.35					1.3318	ng/ml			
13C2-PFHxA	5.154	82555	15753.51					2.6784	ng/ml			
13C2-PFTeDA	8.936	109689	17068.10		13C2-PFDA_ISTD	7.290	64749	1.2067	ng/ml			
13C4-PFOS	7.520	30068	25391.82					2.7277	ng/ml			
13C3-HFPODA	5.386	89881	151533.03		13C2-PFHxA_ISTD	5.154	82555	10.1900	ng/ml			
13C3-PFBS	5.196	51411	1617.39		18O2-PFHxS_ISTD	6.550	30120	2.5000	ng/ml			
13C3-PFHxS	6.551	36080	11173.60		18O2-PFHxS_ISTD	6.550	30120	2.5911	ng/ml			
NEtFOSAA	7.434	1117	116.13		D5-NEtFOSAA_ISTD	7.498	69360	0.0827	ng/ml			
584.0 -> 526.0	7.433	924	118.75	82.8								

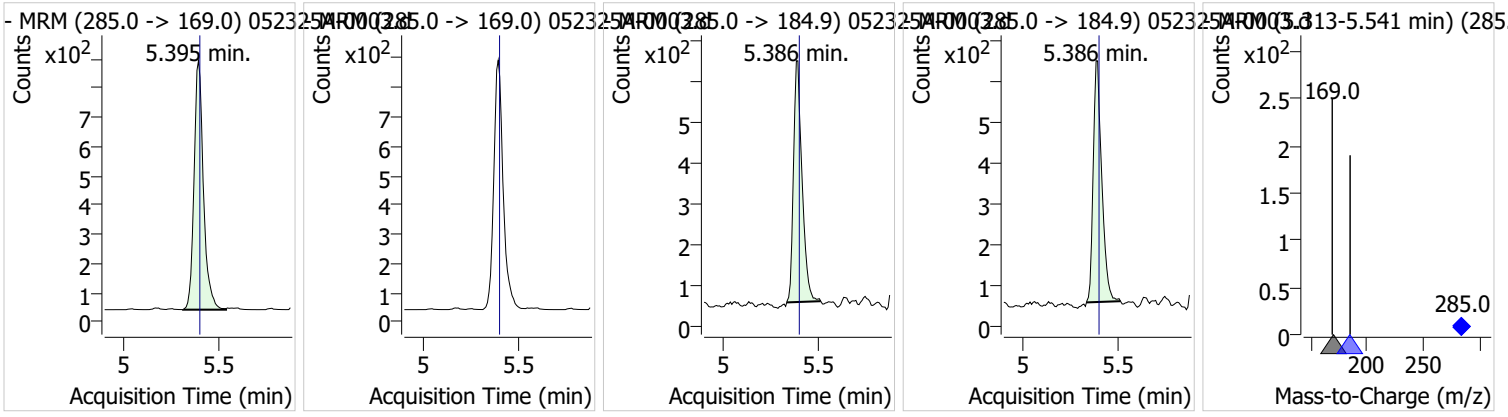
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	143954	43440.67		13C2-PFHxA_ISTD	5.154	82555	2.4555	ng/ml			
NMeFOSAA	7.247	669	3942.11		D3-NMeFOSAA_ISTD	7.327	90240	0.0997	ng/ml			
570.0 -> 483.0	7.246	584	99.68	87.4								
PFBA	2.594	6884	213.20		13C4-PFBA_ISTD	2.597	205869	0.3355	ng/ml			
13C5-PFHxA	5.153	90260	26538.97		13C2-PFHxA_ISTD	5.154	82555	2.4629	ng/ml			
PFBS	5.205	2046	192.48		13C3-PFBS_ISTD	5.196	51411	0.0755	ng/ml			
298.9 -> 98.8	5.197	812	230.57	39.7								
NMeFOSA	10.073	523	165.32		D3-NMeFOSA_ISTD	10.118	12877	0.0853	ng/ml			
512.0 -> 169.0	10.074	758	486.34	144.9								
PFDA	7.290	4383	68.83		13C6-PFDA_ISTD	7.289	76087	0.0704	ng/ml			
513.0 -> 219.0	7.290	968	4301.43	22.1								
PFDoA	8.146	7278	132.43		13C2-PFDoA_ISTD	8.146	96782	0.0835	ng/ml			
613.0 -> 319.0	8.139	938	98.45	12.9								
NEtFOSA	10.377	603	746.46		D5-NEtFOSA_ISTD	10.405	16082	0.0767	ng/ml			
526.0 -> 169.0	10.377	878	282.34	145.5								
PFHpA	5.831	5307	61.28		13C4-PFHpA_ISTD	5.831	143954	0.0822	ng/ml			
362.9 -> 169.0	5.831	962	282.77	18.1								
PFHxA	5.155	3602	3367.82		13C5-PFHxA_ISTD	5.153	90260	0.0855	ng/ml			
313.0 -> 118.9	5.155	169	419.54	4.7								
NMeFOSE	9.899	5152	788.42		D7-NMeFOSE_ISTD	9.957	124771	0.8388	ng/ml			
PFHxS	6.498	1516	290.97		13C3-PFHxS_ISTD	6.551	36080	0.0832	ng/ml			
398.9 -> 99.0	6.498	749	107.44	49.4								
PFNA	6.789	4236	142.47		13C9-PFNA_ISTD	6.842	66708	0.0907	ng/ml			
463.0 -> 219.0	6.789	1219	257.91	28.8								
NEtFOSE	10.249	6111	1156.34		D9-NEtFOSE_ISTD	10.277	136925	0.8237	ng/ml			
PFOA	6.300	4191	136.55		13C8-PFOA_ISTD	6.368	100225	0.0885	ng/ml			
413.0 -> 169.0	6.300	1211	130.11	28.9								
PFOS	7.399	1777	122.07		13C8-PFOS_ISTD	7.519	30267	0.0993	ng/ml			
499.0 -> 99.0	7.402	794	167.64	44.7								
PFPeA	4.231	5658	137.36		13C5-PFPeA_ISTD	4.229	148066	0.1697	ng/ml			
PFMPA	3.368	576	262.74		13C4-PFBA_ISTD	2.597	205869	0.1617	ng/ml			
13C5-PFPeA	4.229	148066	5412.78		13C2-PFHxA_ISTD	5.154	82555	5.0643	ng/ml			
PFMBA	4.547	4001	1084.85		13C5-PFPeA_ISTD	4.229	148066	0.1627	ng/ml			
PFTrDA	8.550	8714	430.97		13C2-PFDoA_ISTD	8.146	96782	0.0856	ng/ml			
663.0 -> 168.9	8.551	768	213.88	8.8								
PFEESA	5.562	10887	1142.49		13C5-PFHxA_ISTD	5.153	90260	0.1509	ng/ml			
315.0 -> 83.0	5.571	801	55.23	7.4								
13C6-PFDA	7.289	76087	22863.02		13C2-PFDA_ISTD	7.290	64749	1.2480	ng/ml			
NFDHA	5.058	943	1413.00		13C5-PFHxA_ISTD	5.153	90260	0.1932	ng/ml			
295.0 -> 85.0	5.058	398	2268.40	42.2								
PFOSA	8.899	1495	409.67		13C8-PFOSA_ISTD	8.959	40502	0.0839	ng/ml			
497.9 -> 478.0	8.902	52	299.12	3.5								
13C7-PFUnA	7.721	81292	7173.58		13C2-PFDA_ISTD	7.290	64749	1.1939	ng/ml			
13C4-PFOA	6.369	21859	6787.91					2.6437	ng/ml			
PFDS	8.398	1028	168.59		13C8-PFOS_ISTD	7.519	30267	0.0808	ng/ml			
599.0 -> 98.8	8.397	540	860.91	52.5								
PFNS	7.969	1426	2527.34		13C8-PFOS_ISTD	7.519	30267	0.0911	ng/ml			
549.0 -> 98.8	7.968	511	38.95	35.8								
PFPeS	5.971	1835	104.07		13C3-PFHxS_ISTD	6.551	36080	0.0811	ng/ml			
349.0 -> 98.9	5.971	739	3479.10	40.3								
PFTeDA	8.937	7956	215.93		13C2-PFTeDA_ISTD	8.936	109689	0.0786	ng/ml			

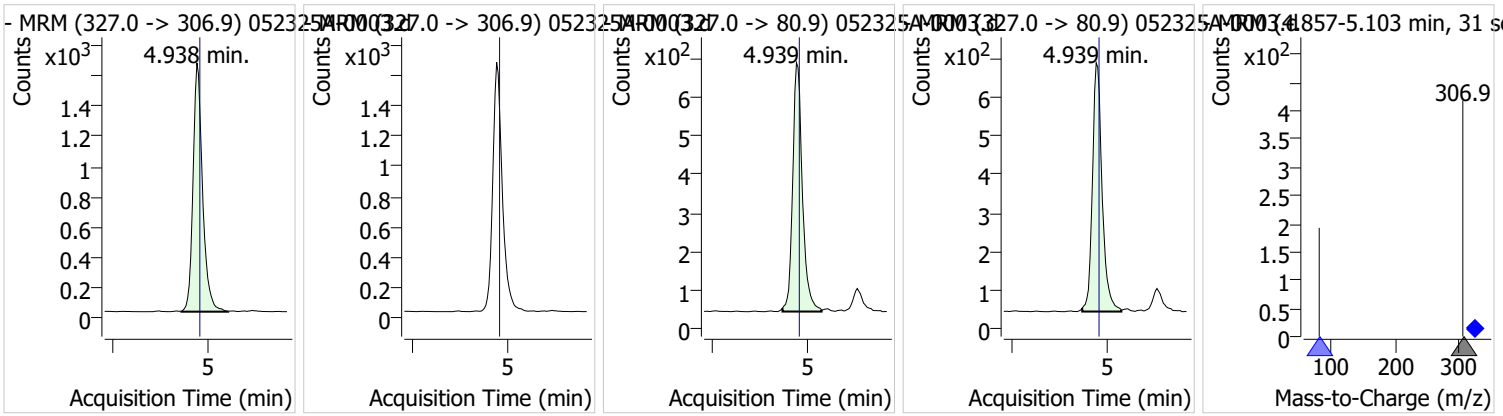
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	492	136.65	6.2								
PFUnA	7.722	5720	137.38		13C7-PFUnA_ISTD	7.721	81292	0.0843	ng/ml			
563.0 -> 269.1	7.722	893	204.33	15.6								
13C3-PFBA	2.592	85674	5144.10					5.6415	ng/ml			
3:3FTCA	3.679	367	89.17		13C5-PFPeA_ISTD	4.229	148066	0.4377	ng/ml			
241.0 -> 117.0	3.682	175	9.26	47.8								
5:3FTCA	5.577	6565	1793.61		13C5-PFHxA_ISTD	5.153	90260	1.9487	ng/ml			
341.0 -> 217.0	5.569	6164	567.57	93.9								
7:3FTCA	6.746	7442	334.12		13C9-PFNA_ISTD	6.842	66708	2.0853	ng/ml			
441.0 -> 337.0	6.754	8193	2210.71	110.1								
13C5-PFNA	6.842	61080	27293.32					1.2916	ng/ml			
18O2-PFHxS	6.550	30120	60485.11					2.6516	ng/ml			
PFDoS	9.163	640	182.54		13C8-PFOS_ISTD	7.519	30267	0.0748	ng/ml			
698.9 -> 99.0	9.162	432	283.28	67.6								
TDCA					13C8-PFOS_ISTD	7.519	30267	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	2632	401.46		13C3-PFPrA_ISTD	0.907	95757	0.3129	ng/ml			
13C3-PFPrA	0.907	95757	4408.08		13C3-PFBA_ISTD	2.592	85674	10.3318	ng/ml			
TFSI	5.891	11897	144.36		13C3-HFPODA_ISTD	5.386	89881	0.2075	ng/ml			
279.9 -> 77.9	5.892	7686	30963.83	64.6								
13C8-PFOA	6.368	100225	445557.16		13C4-PFOA_ISTD	6.369	21859	2.4472	ng/ml			
13C8-PFOS	7.519	30267	8940.29		13C4-PFOS_ISTD	7.520	30068	2.5739	ng/ml			
13C8-PFOSA	8.959	40502	11148.70		13C4-PFOS_ISTD	7.520	30068	2.3953	ng/ml			
13C9-PFNA	6.842	66708	63000.15		13C5-PFNA_ISTD	6.842	61080	1.2361	ng/ml			
D3-NMeFOSA	10.118	12877	3856.64		13C4-PFOS_ISTD	7.520	30068	2.3902	ng/ml			
D3-NMeFOSAA	7.327	90240	25411.12		13C4-PFOS_ISTD	7.520	30068	4.8252	ng/ml			
D5-NEtFOSA	10.405	16082	3621.19		13C4-PFOS_ISTD	7.520	30068	2.4833	ng/ml			
D5-NEtFOSAA	7.498	69360	2857.39		13C4-PFOS_ISTD	7.520	30068	4.8834	ng/ml			
D7-NMeFOSE	9.957	124771	172466.13		13C4-PFOS_ISTD	7.520	30068	24.1245	ng/ml			
D9-NEtFOSE	10.277	136925	38963.19		13C4-PFOS_ISTD	7.520	30068	23.8417	ng/ml			

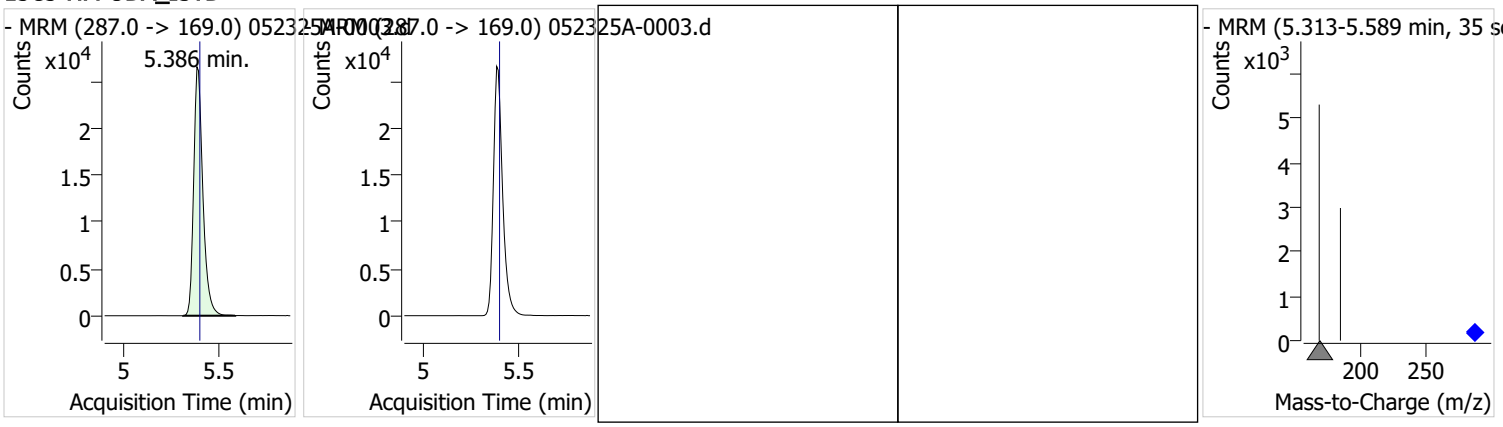
HFPO-DA



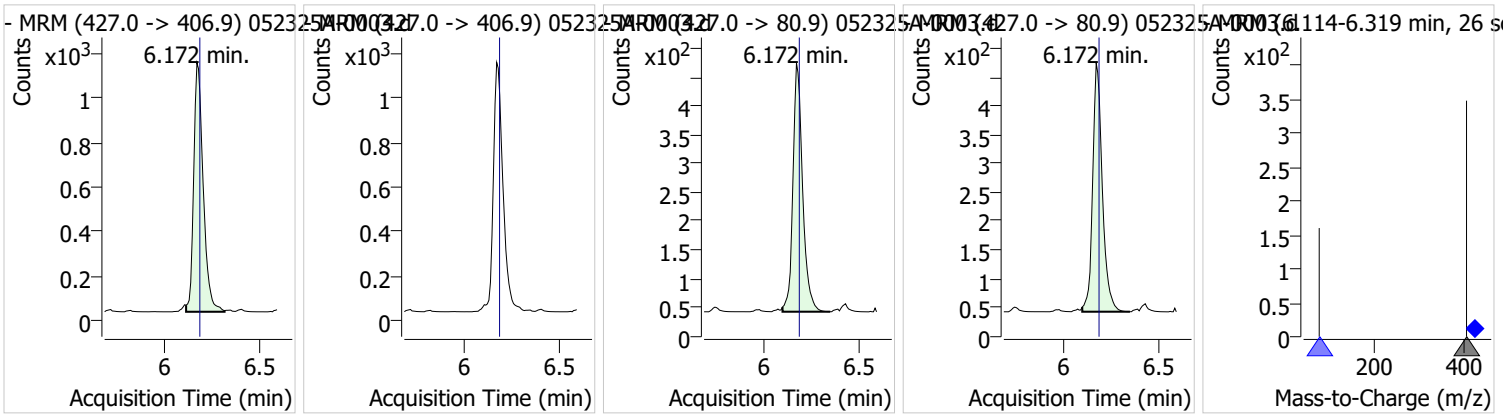
4:2FTS



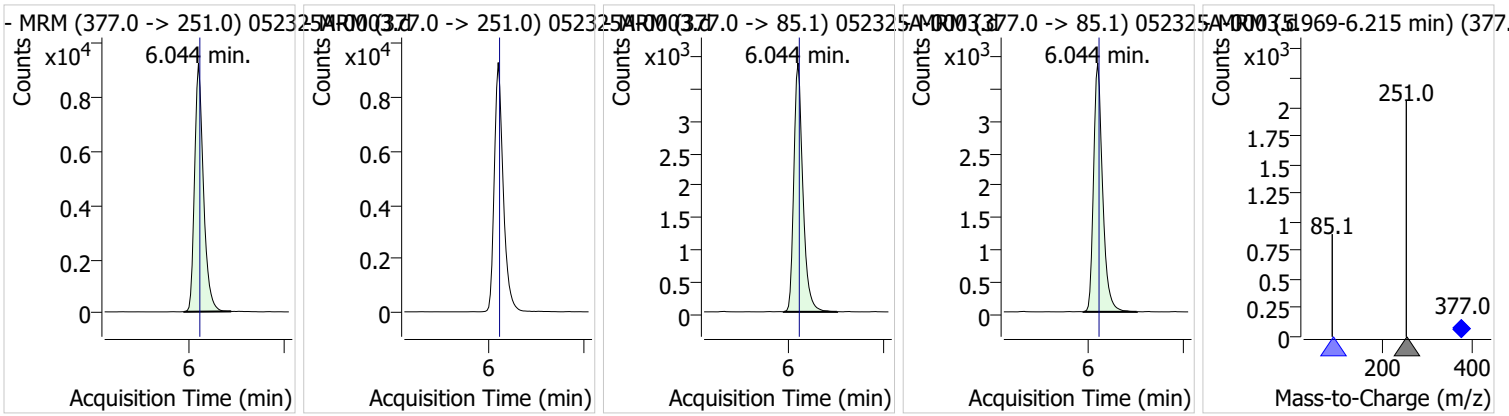
13C3-HFPODA_ISTD



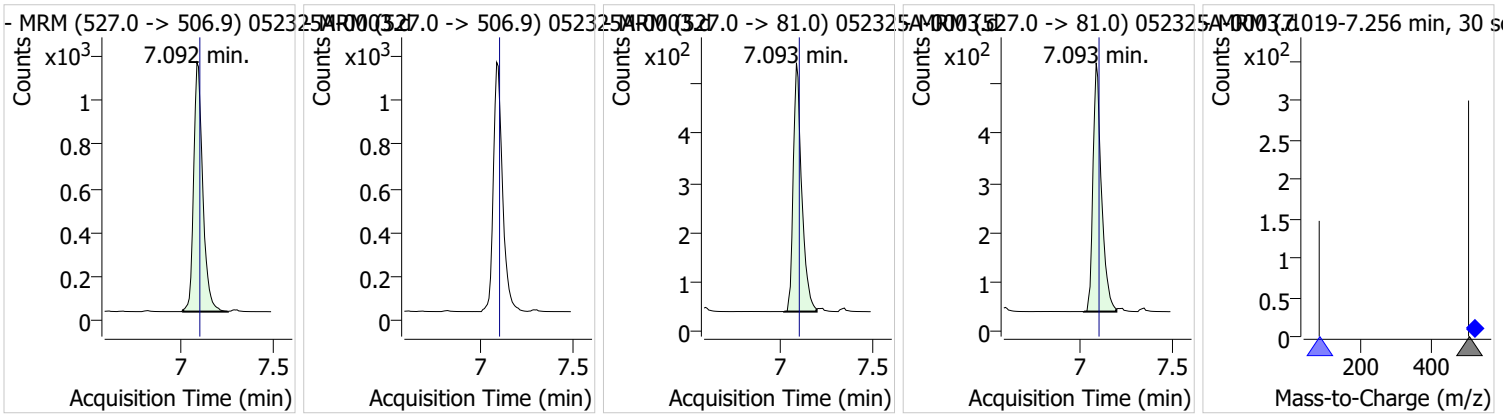
6:2FTS



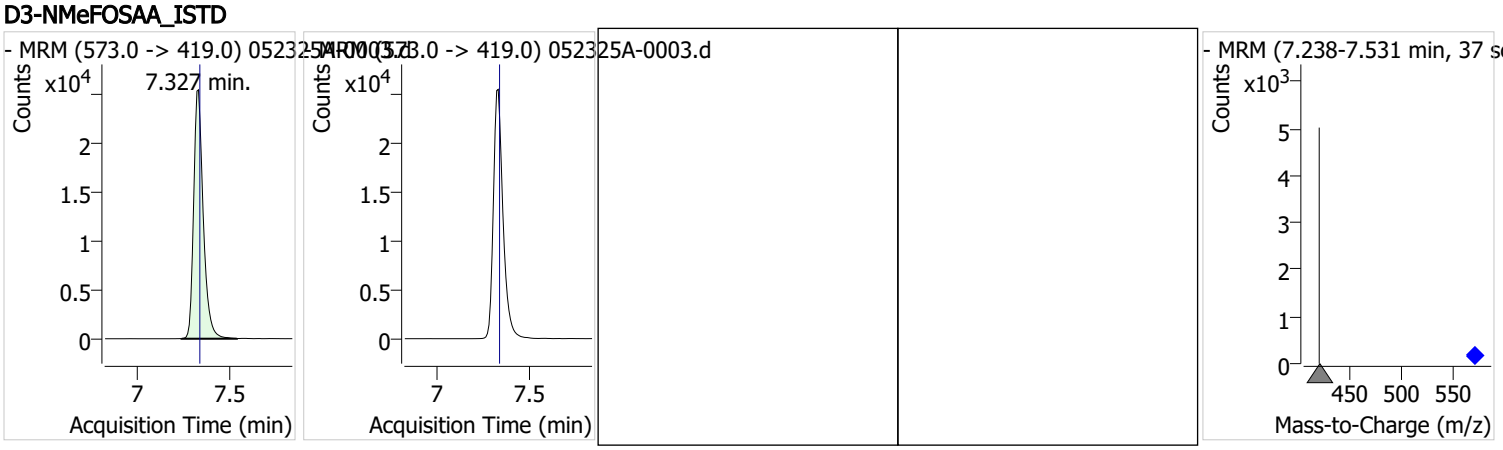
ADONA



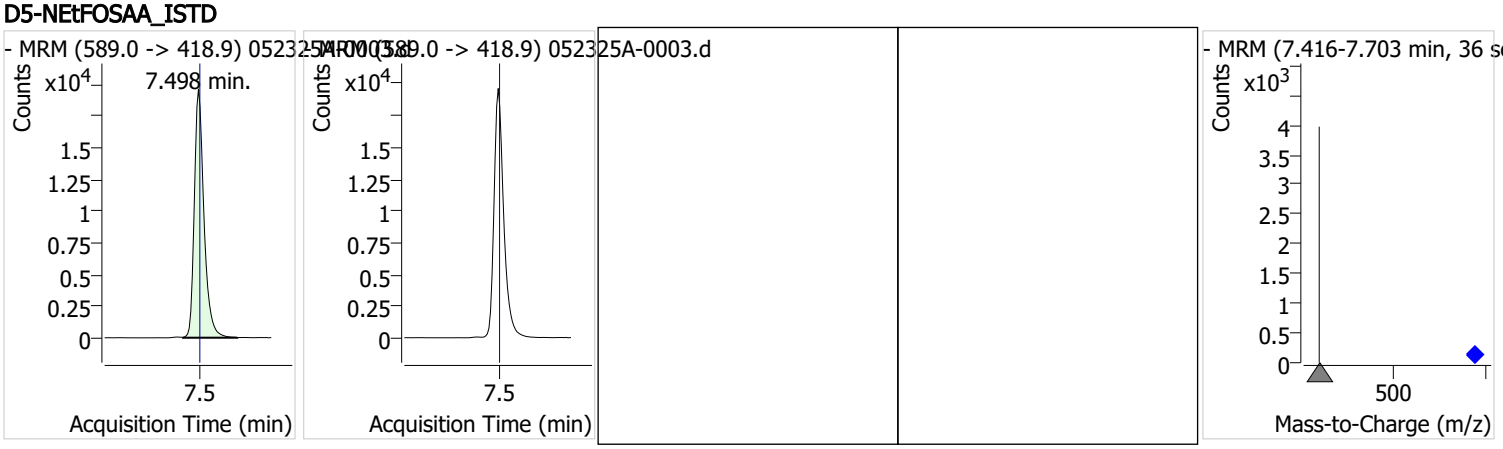
8:2FTS



D3-NMeFOSAA_ISTD



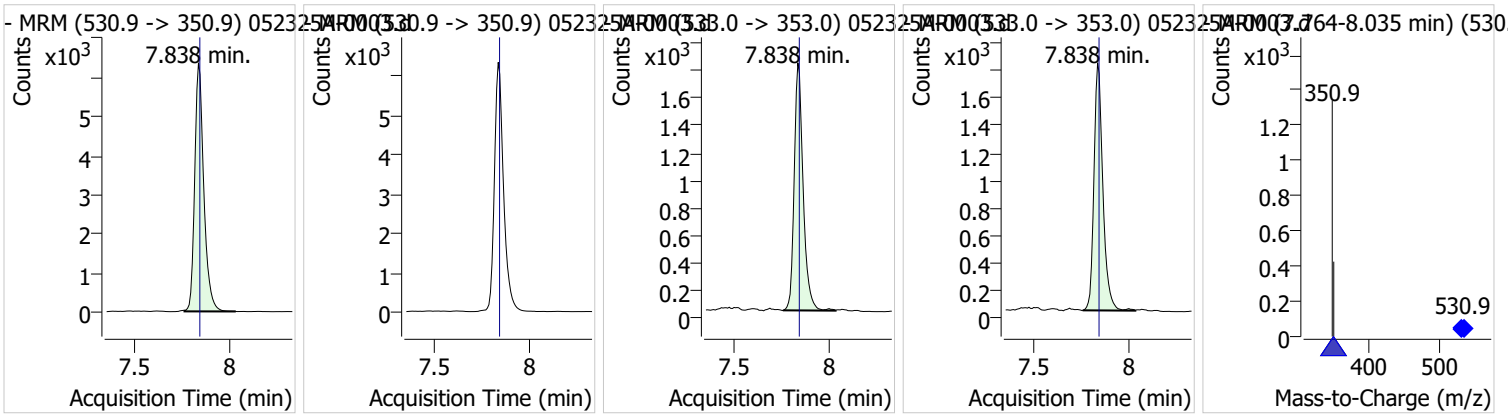
D5-NEtFOSAA_ISTD



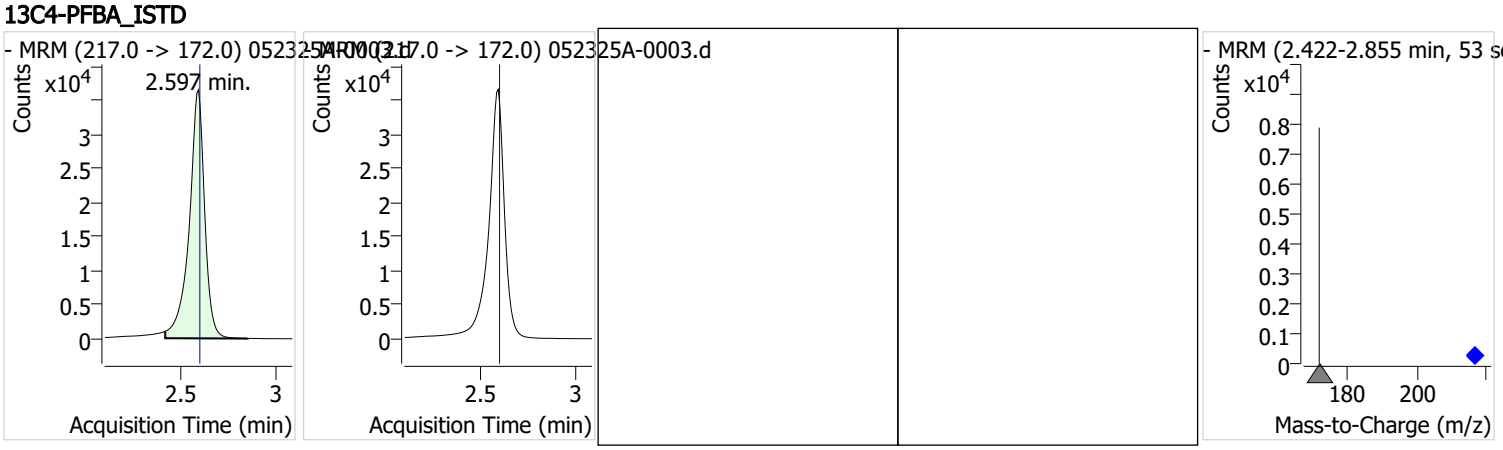
13C4-PFBA



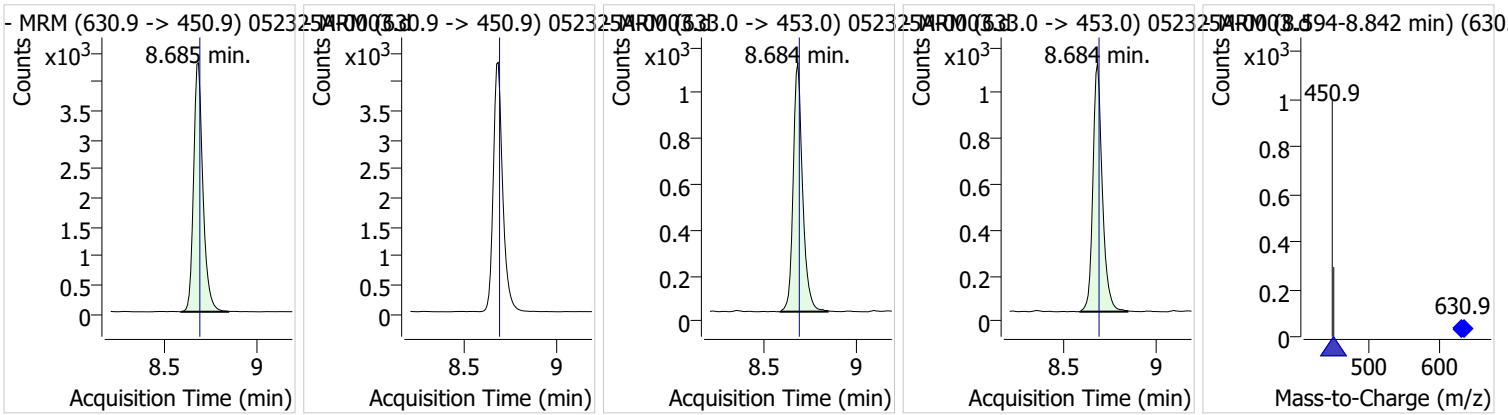
9Cl-PF3ONS



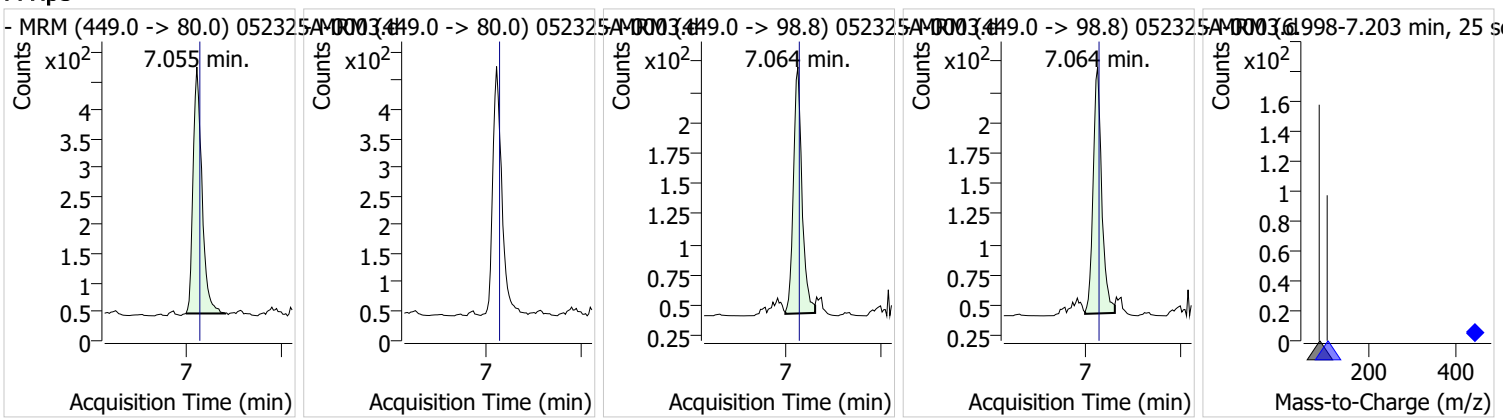
13C4-PFBA_ISTD



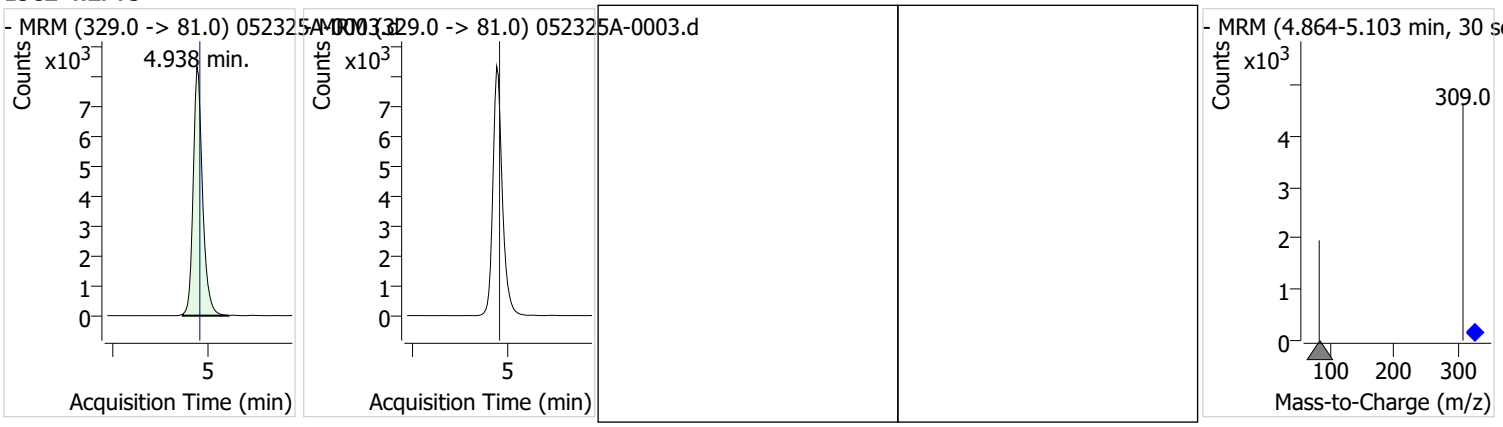
11Cl-PF3OUdS



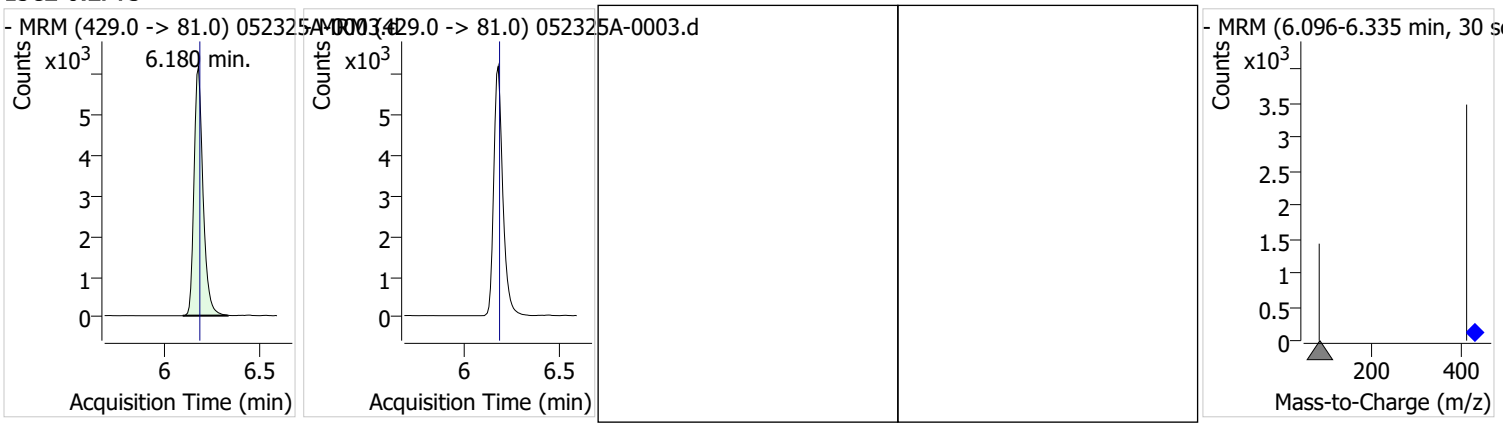
PFHpS



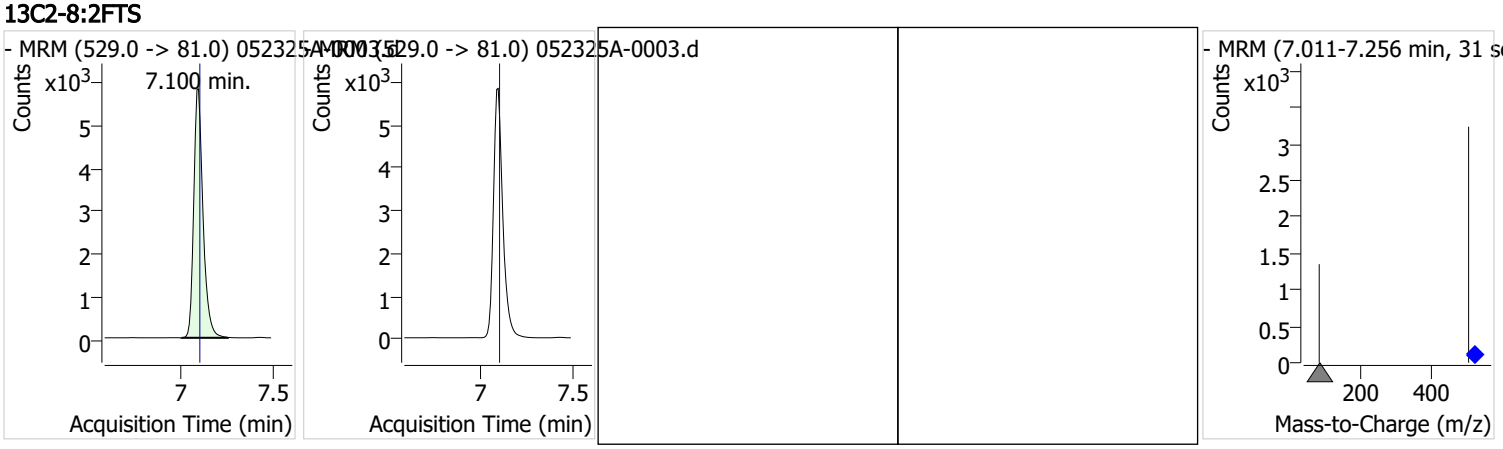
13C2-4:2FTS



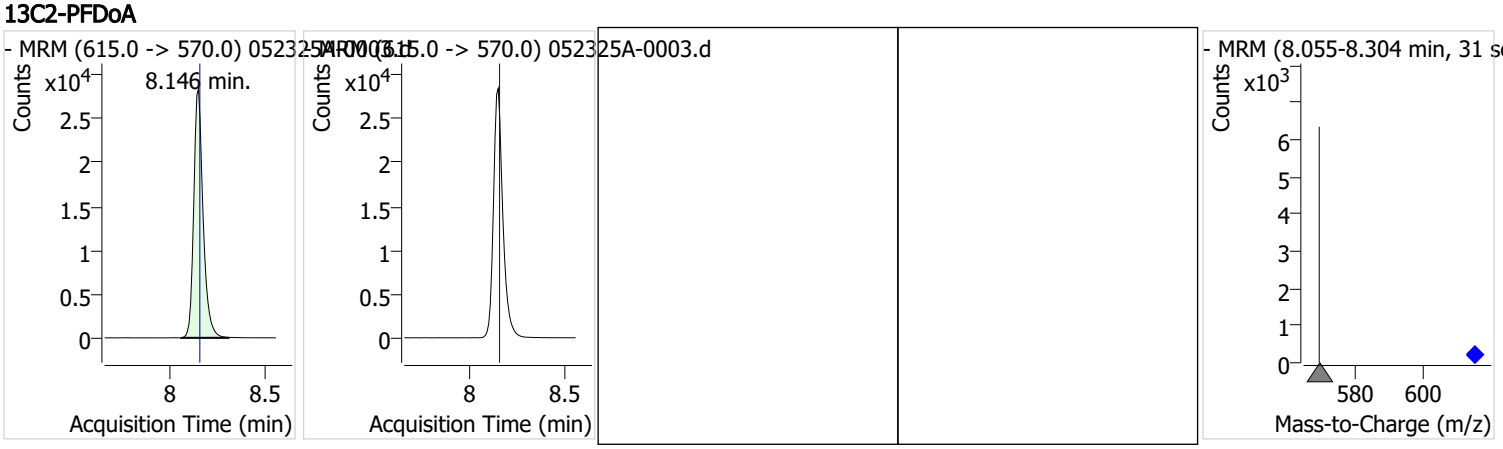
13C2-6:2FTS



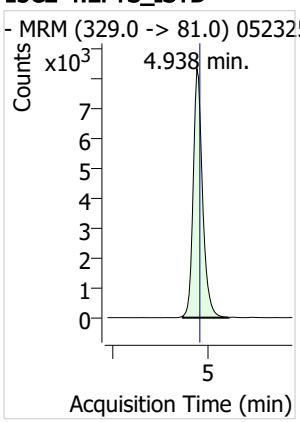
13C2-8:2FTS

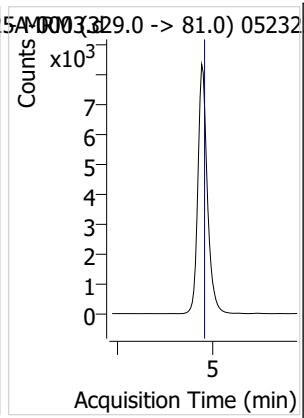


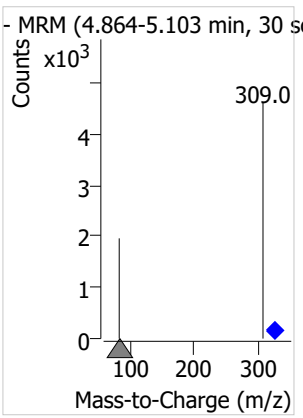
13C2-PFDoA



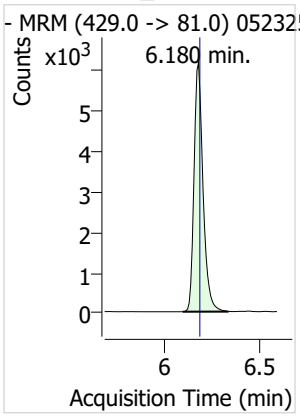
13C2-4:2FTS_ISTD

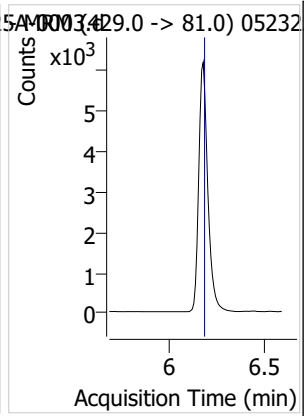


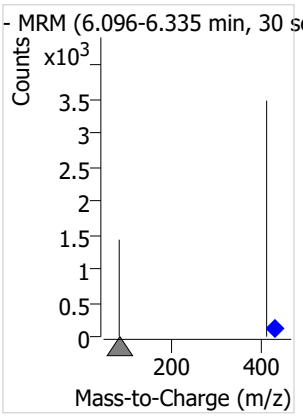




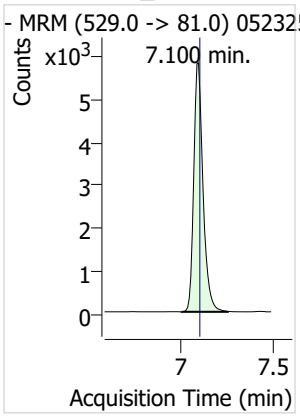
13C2-6:2FTS_ISTD

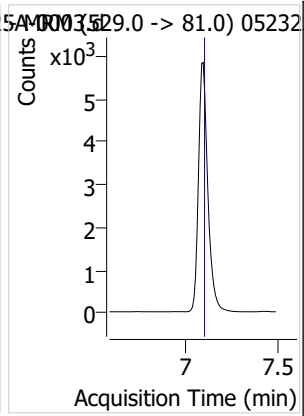


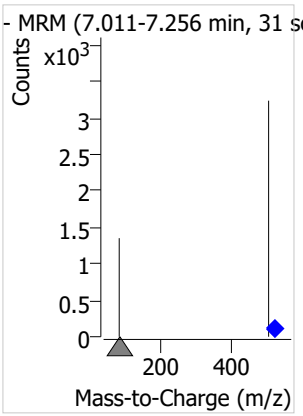




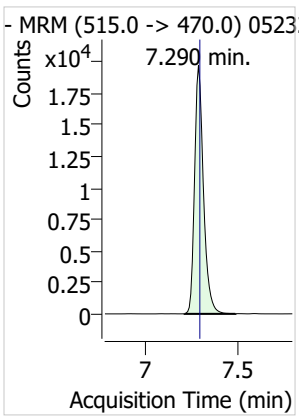
13C2-8:2FTS_ISTD

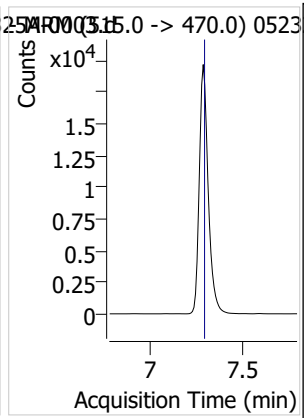


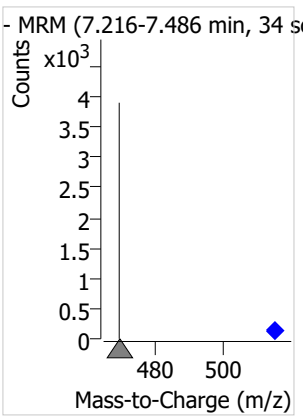




13C2-PFDA



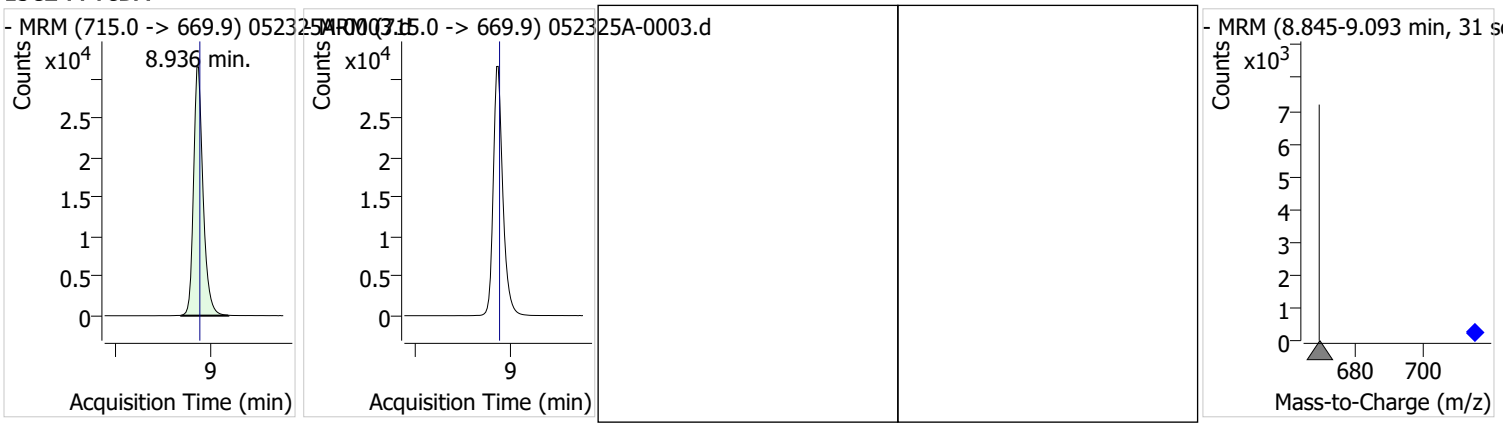




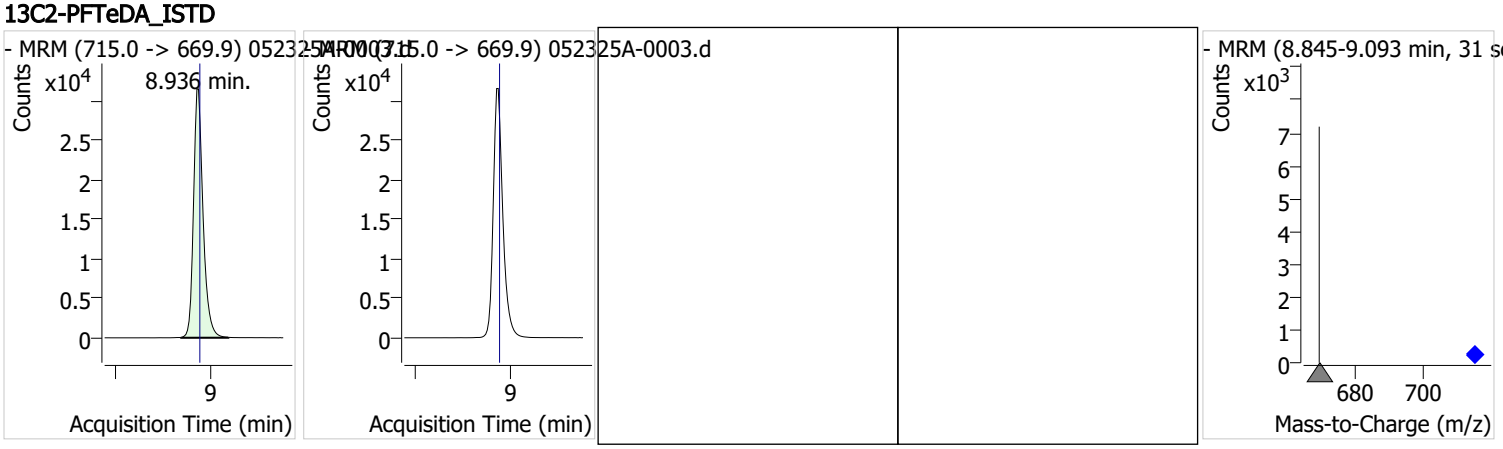
13C2-PFHxA



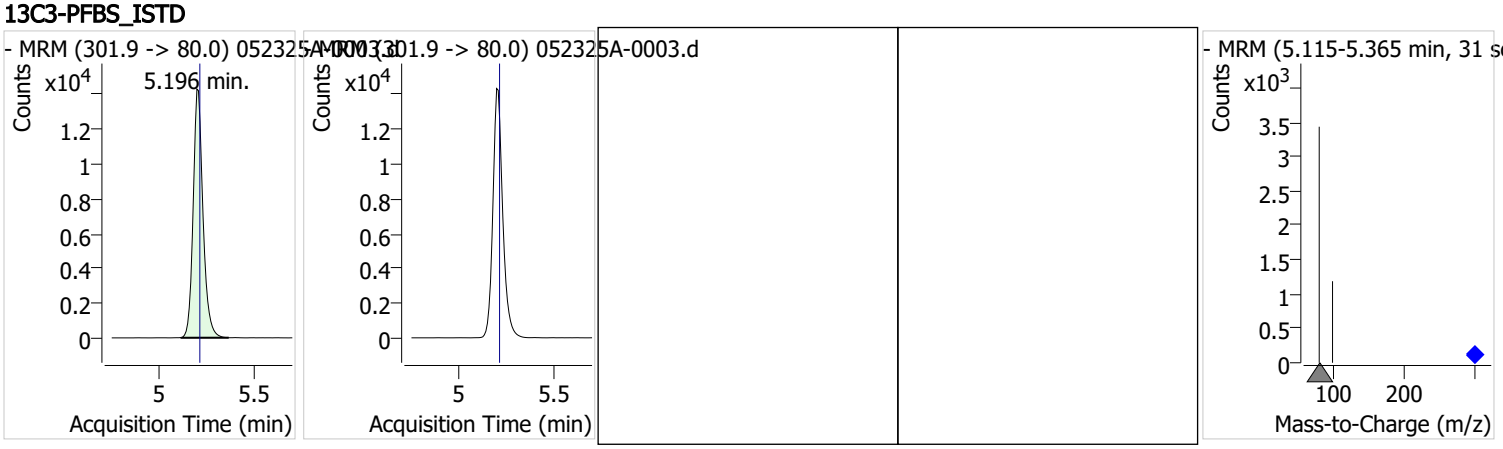
13C2-PFTeDA



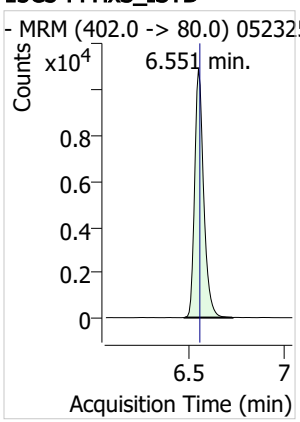
13C2-PFTeDA_ISTD

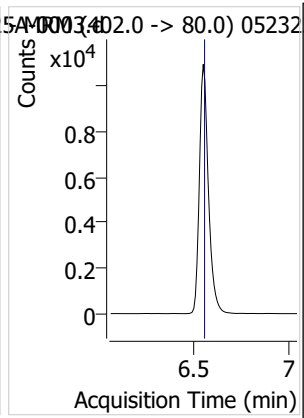


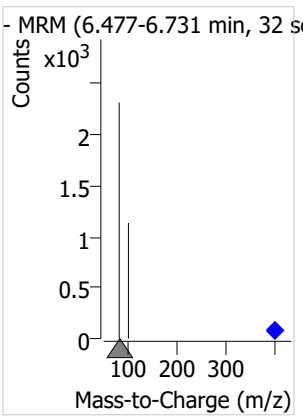
13C3-PFBS_ISTD



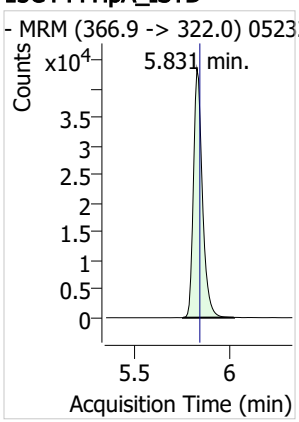
13C3-PFHxS_ISTD

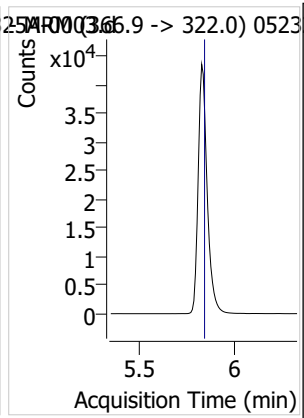


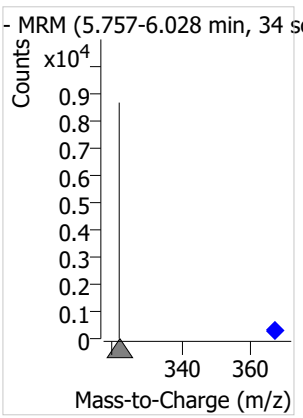




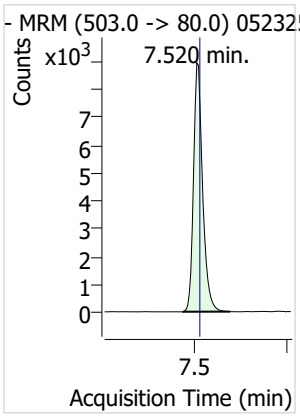
13C4-PFHpA_ISTD

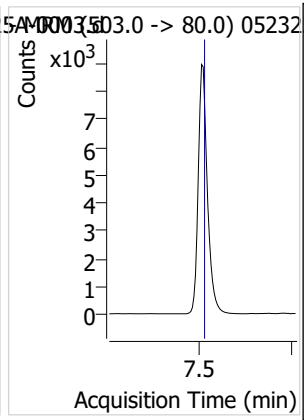


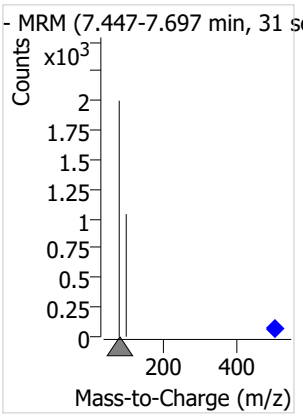




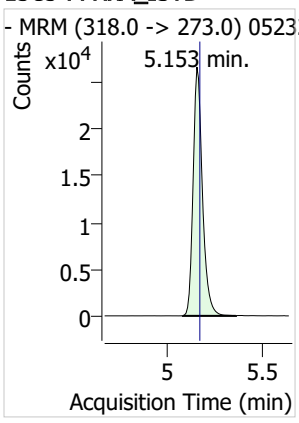
13C4-PFOS

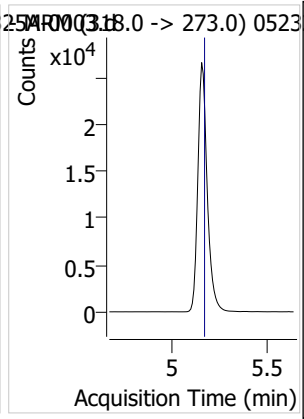


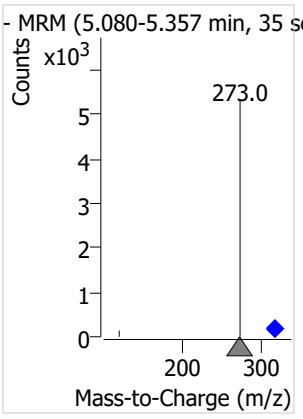




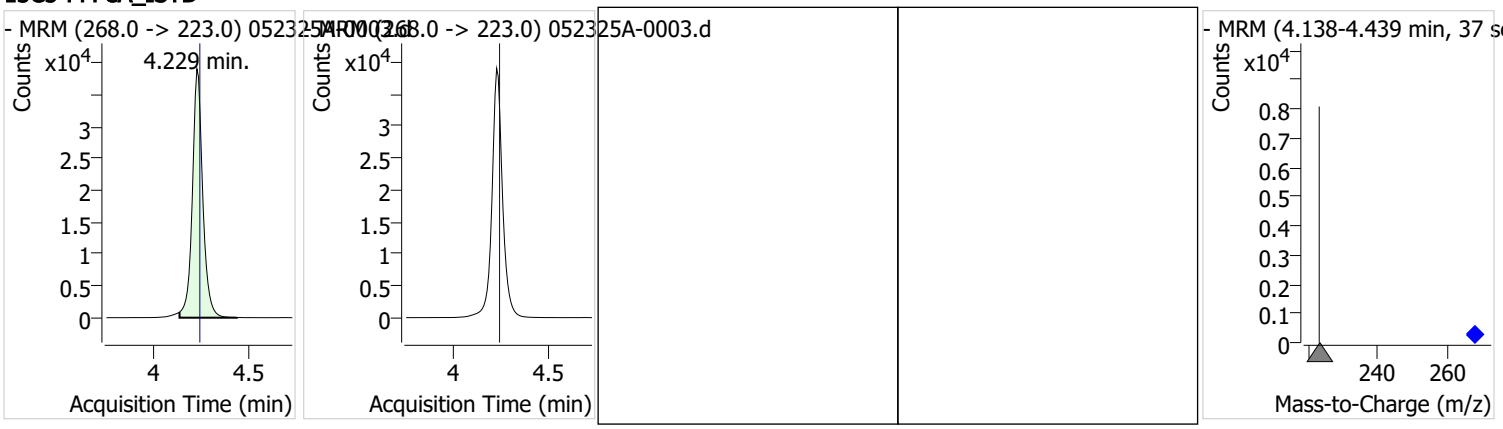
13C5-PFHxA_ISTD







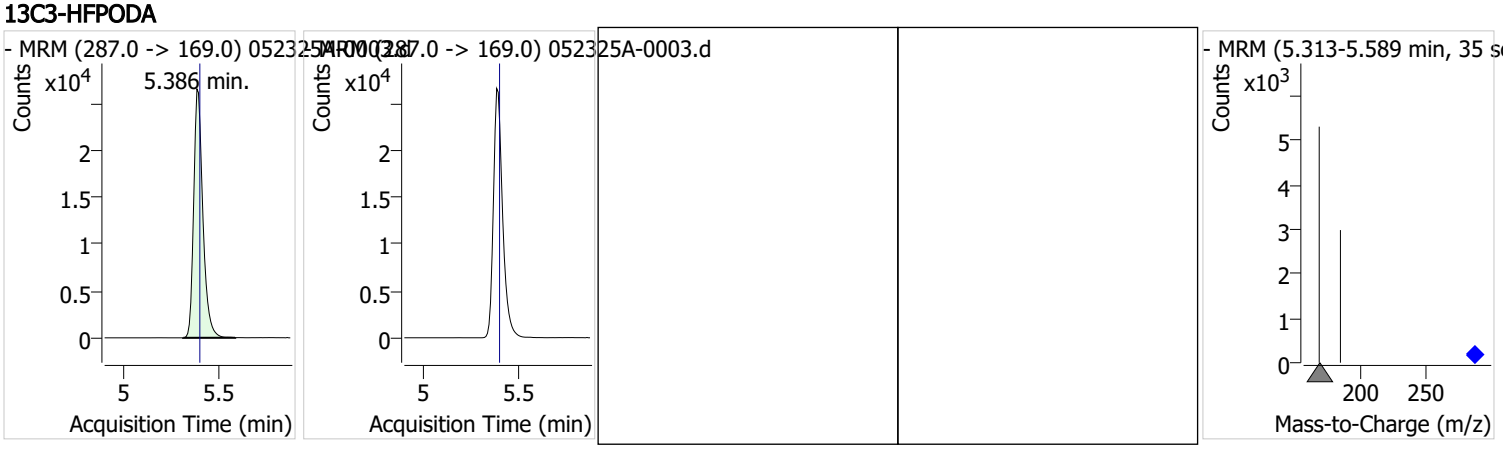
13C5-PFPeA_ISTD



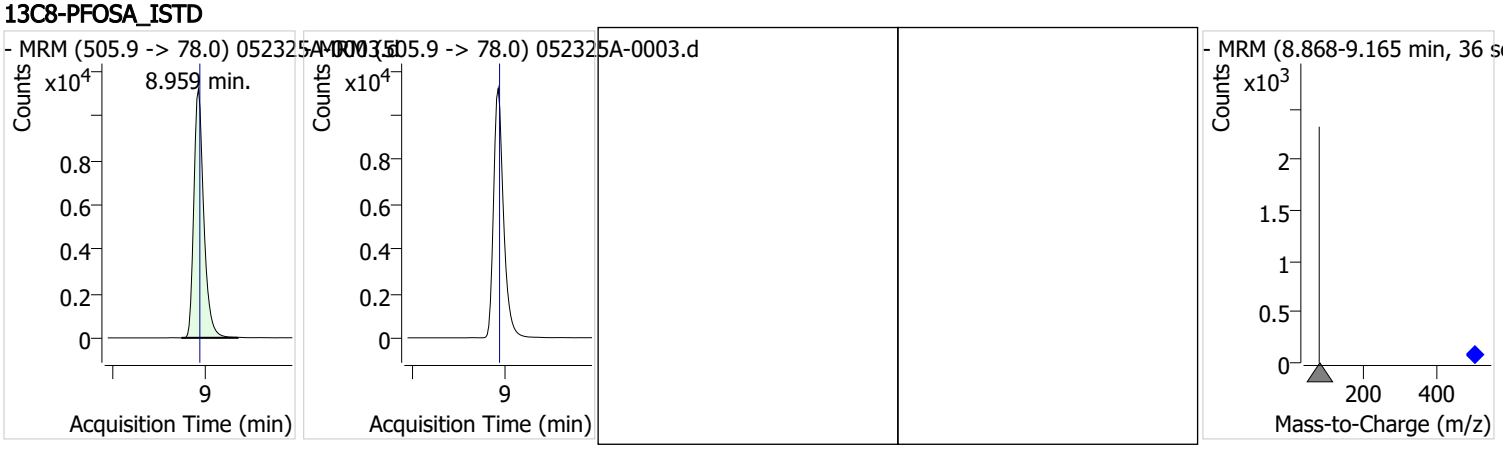
13C6-PFDA_ISTD



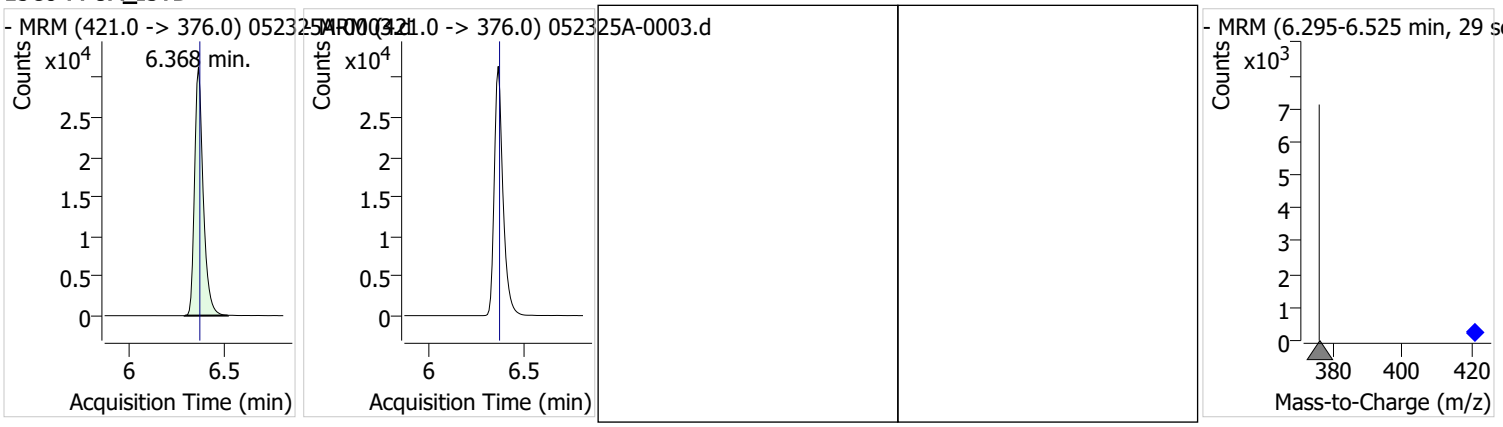
13C3-HFPODA



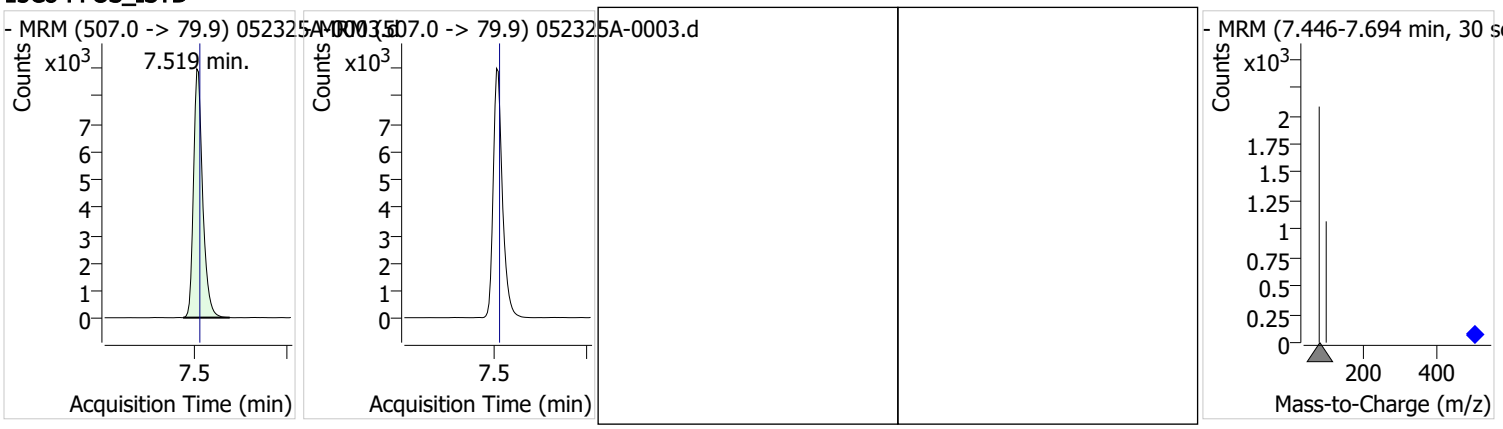
13C8-PFOSA_ISTD



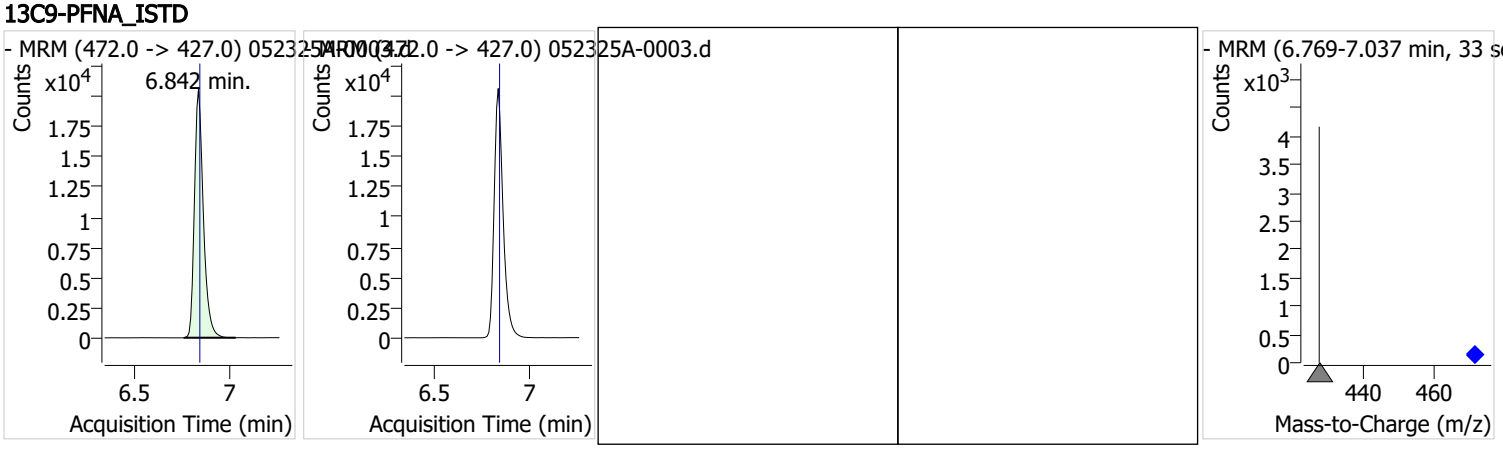
13C8-PFOA_ISTD



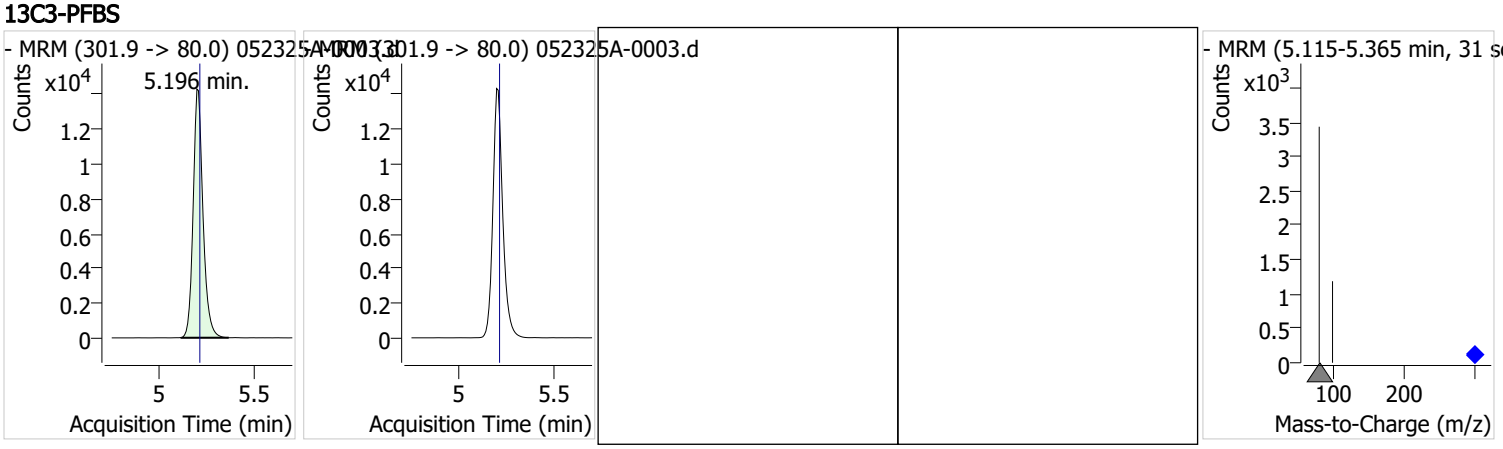
13C8-PFOS_ISTD



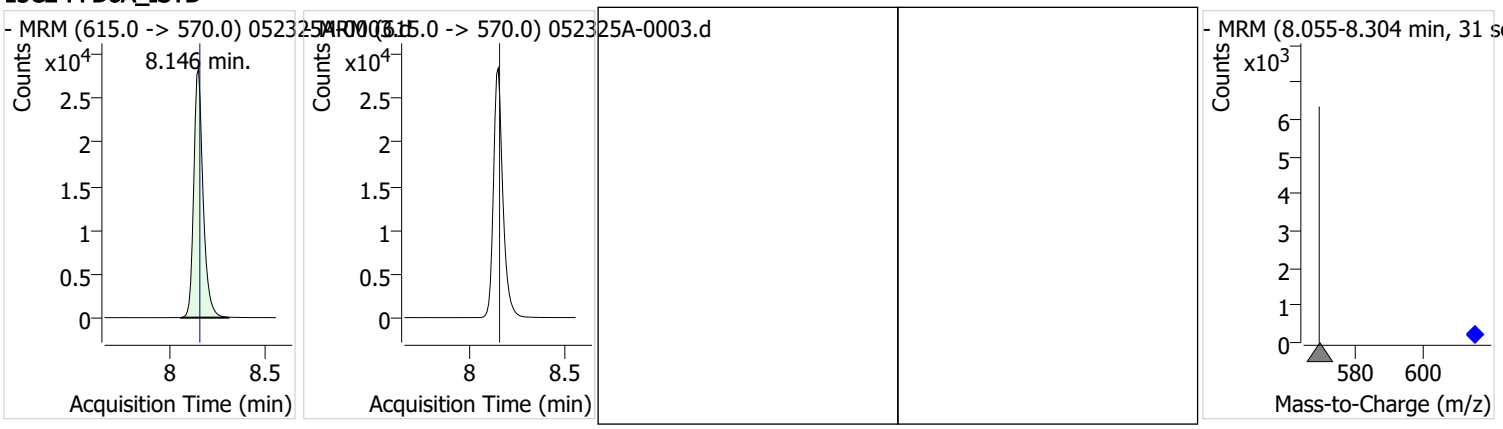
13C9-PFNA_ISTD



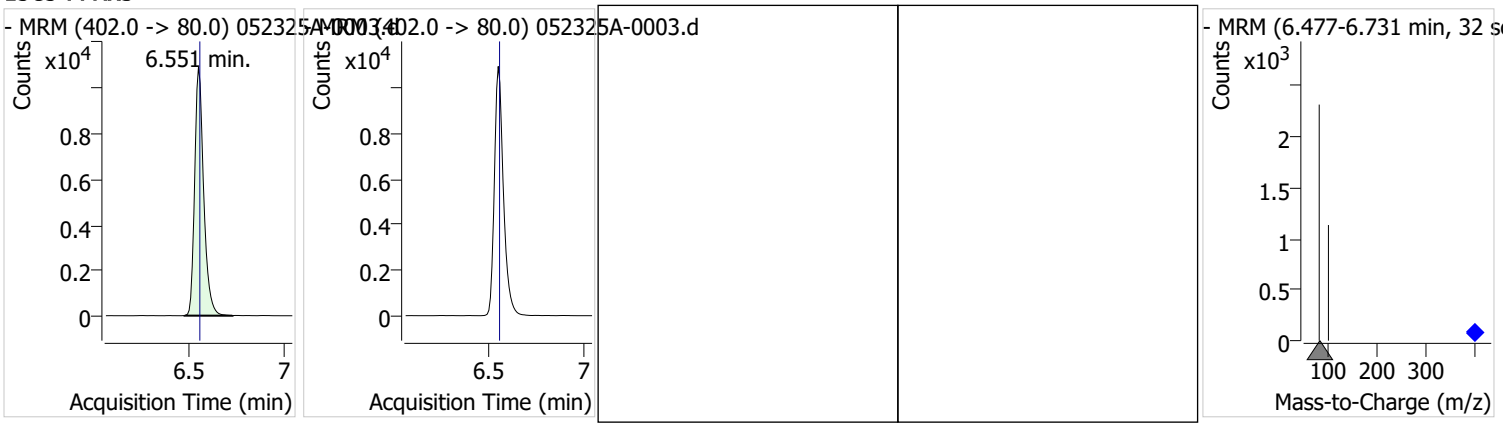
13C3-PFBS



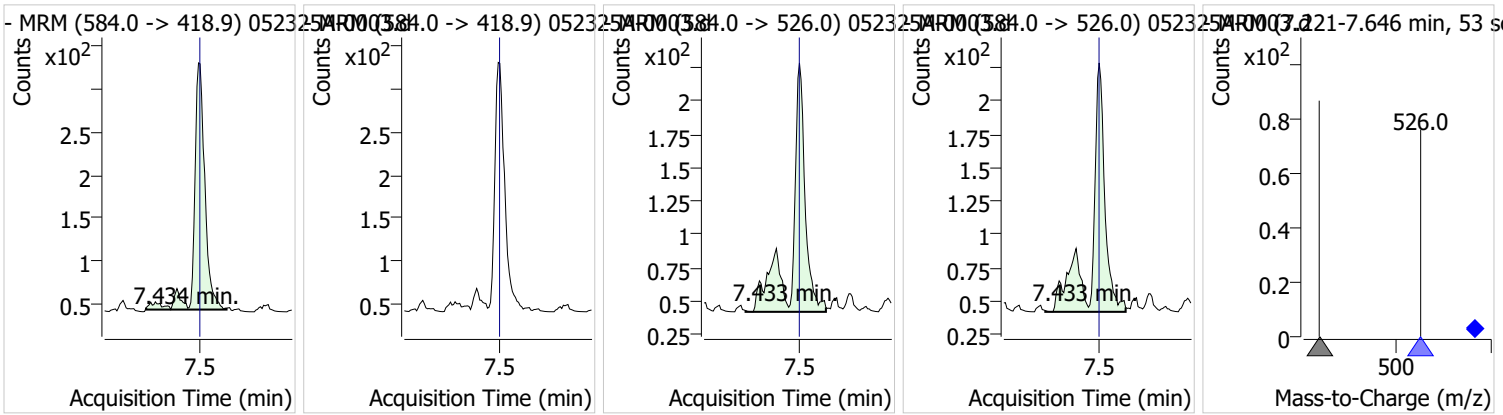
13C2-PFDoA_ISTD



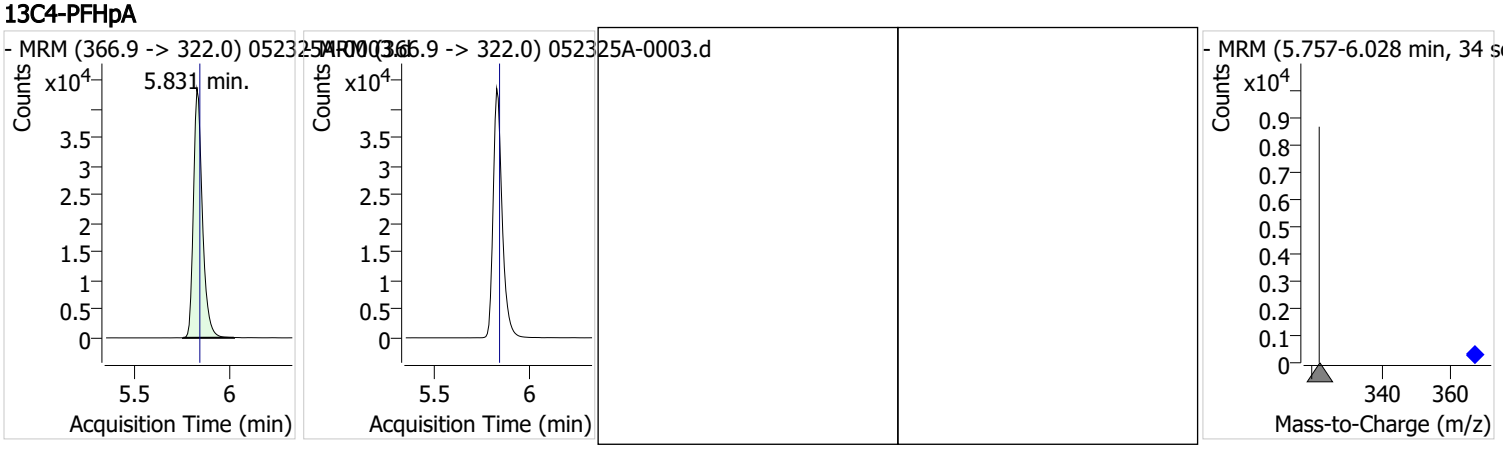
13C3-PFHxS



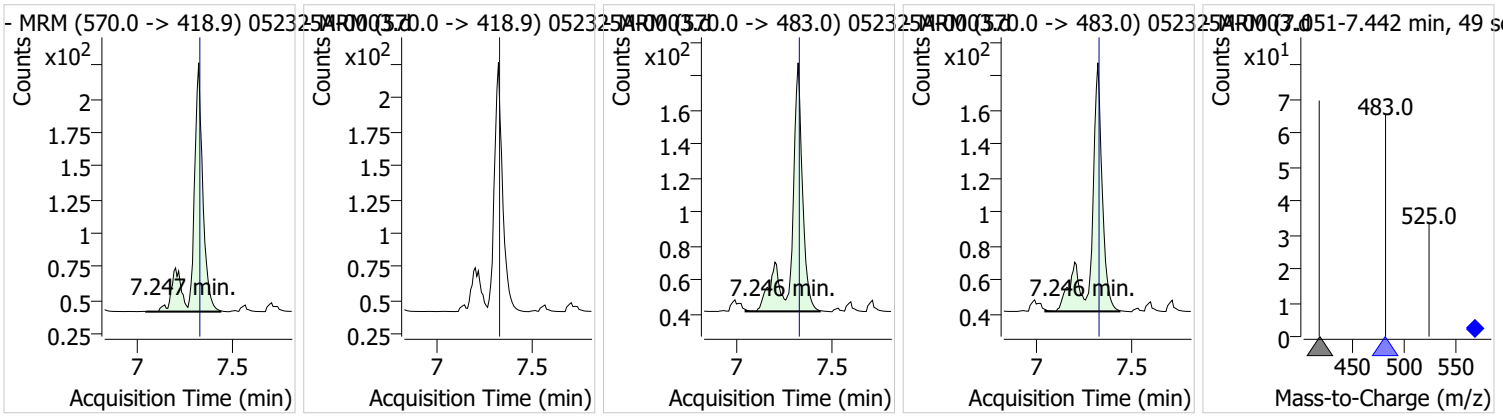
NEtFOSAA



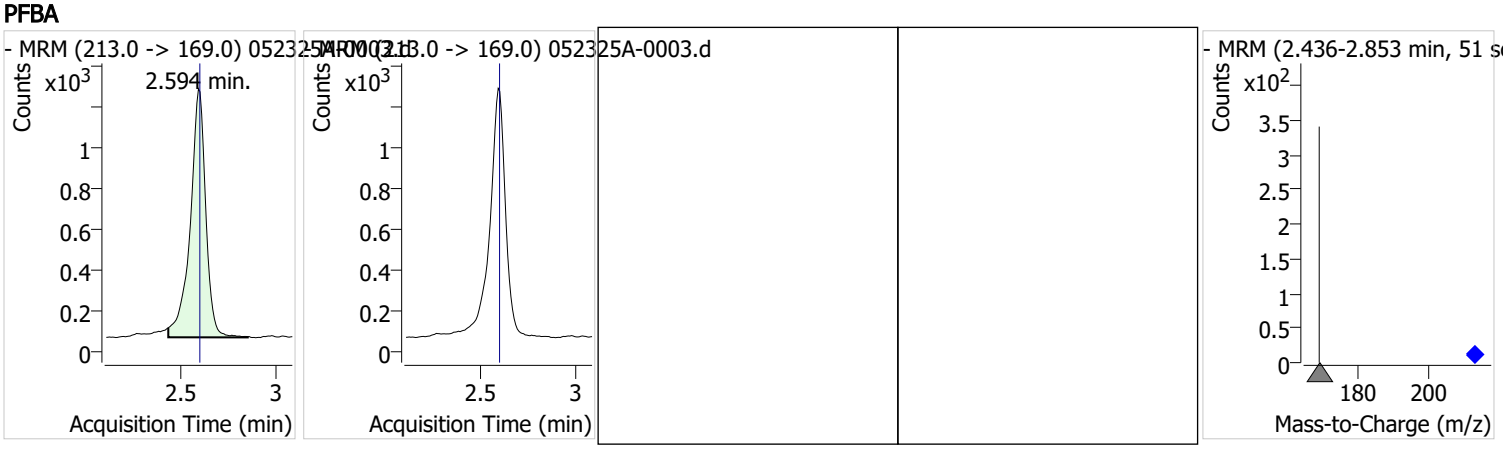
13C4-PFHpA



NMeFOSAA



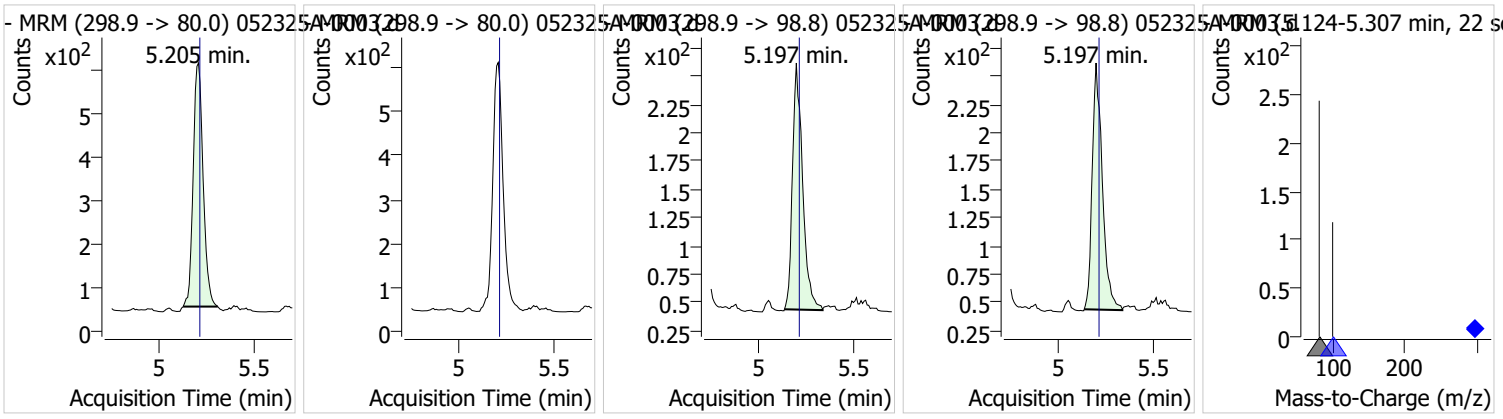
PFBA



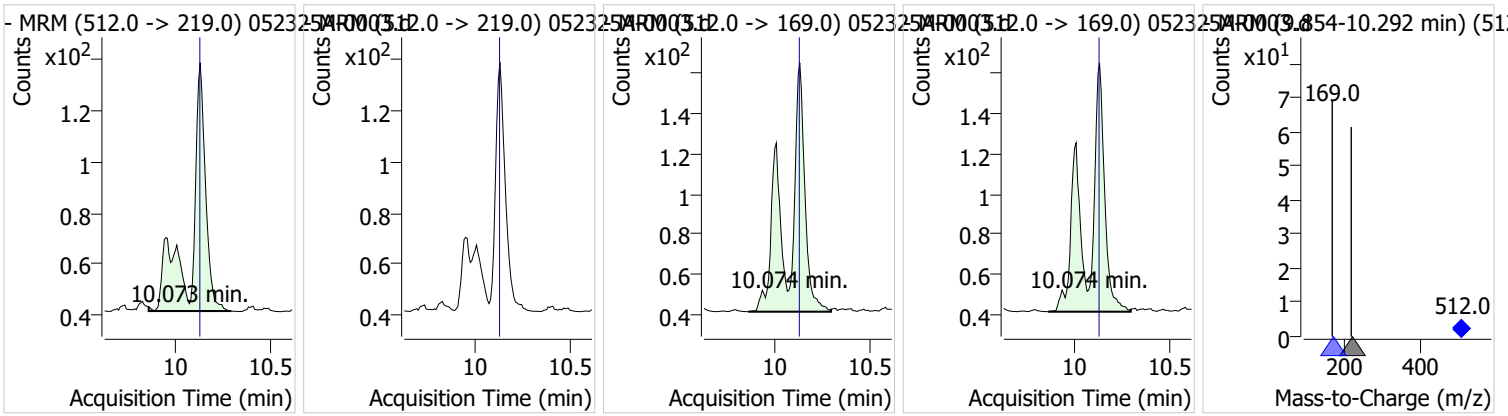
13C5-PFHxA



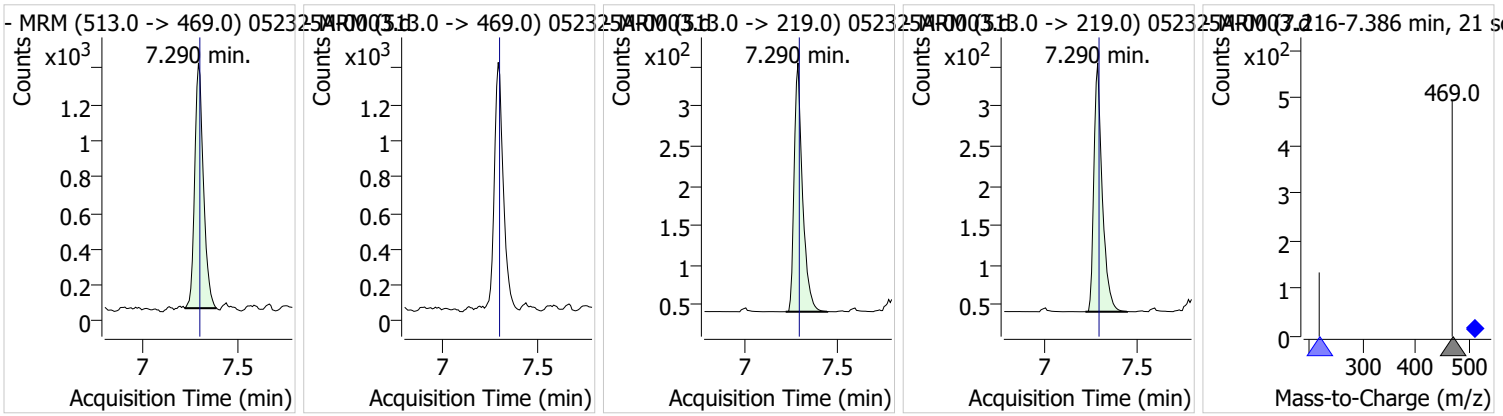
PFBS



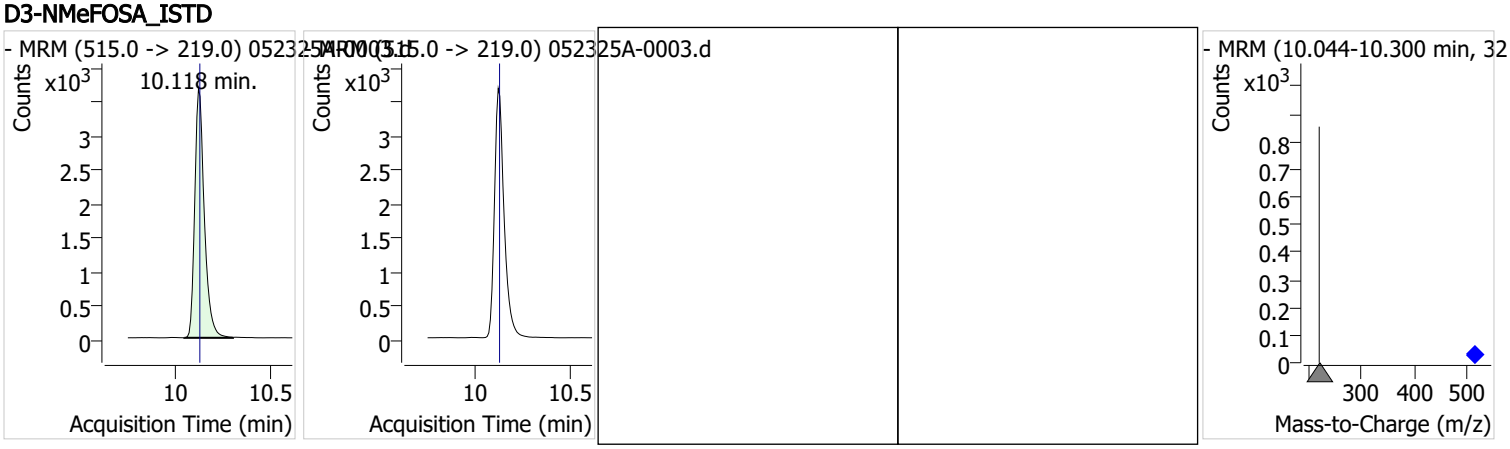
NMeFOSA



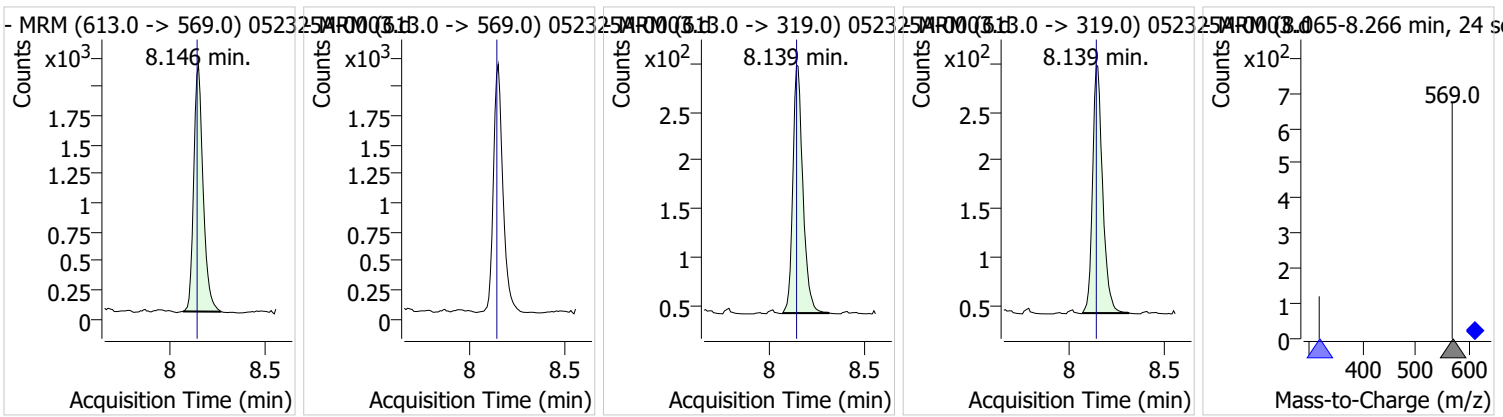
PFDA



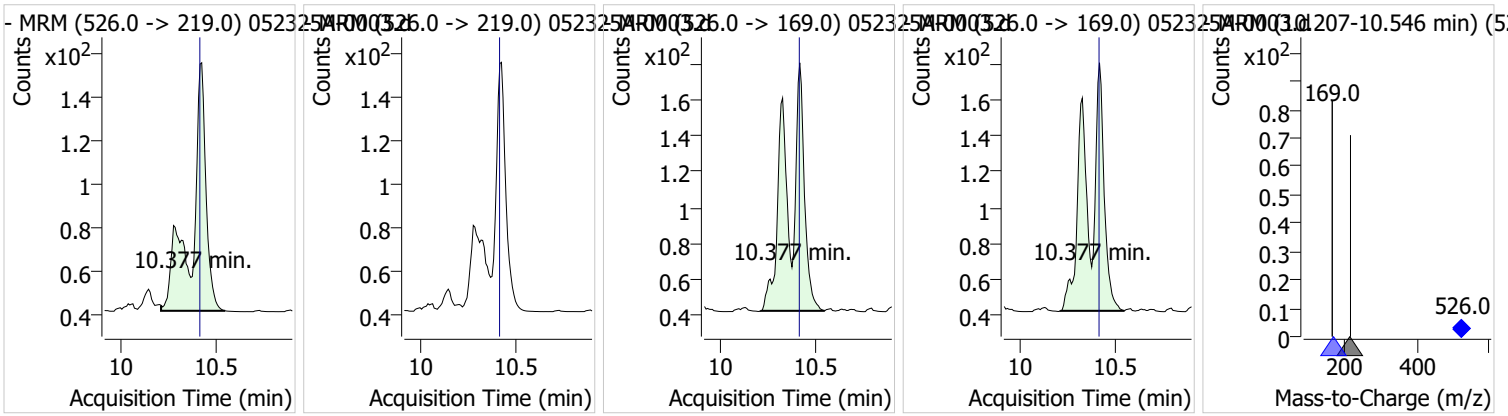
D3-NMeFOSA_ISTD



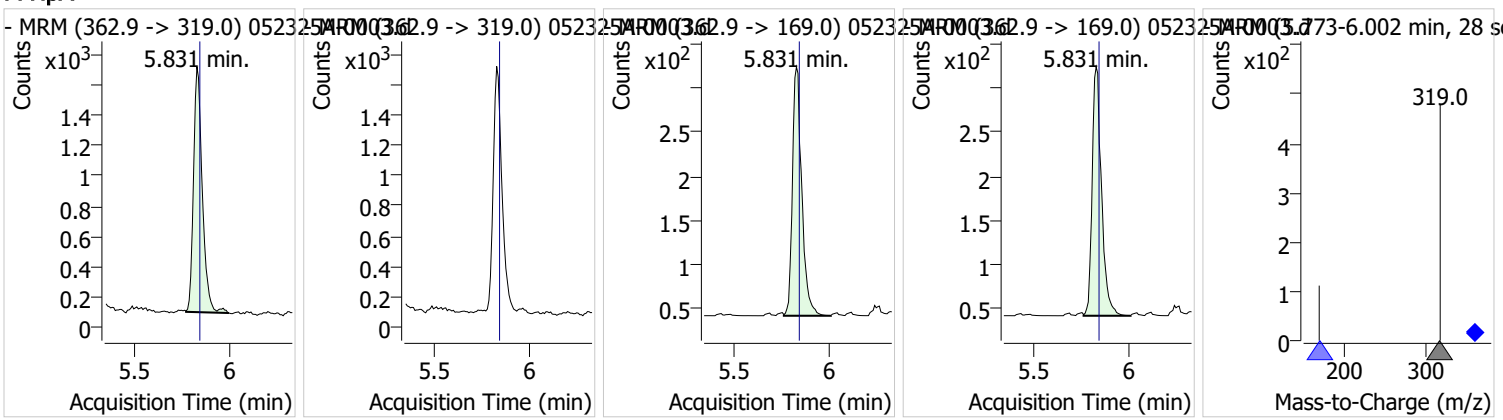
PFDoA



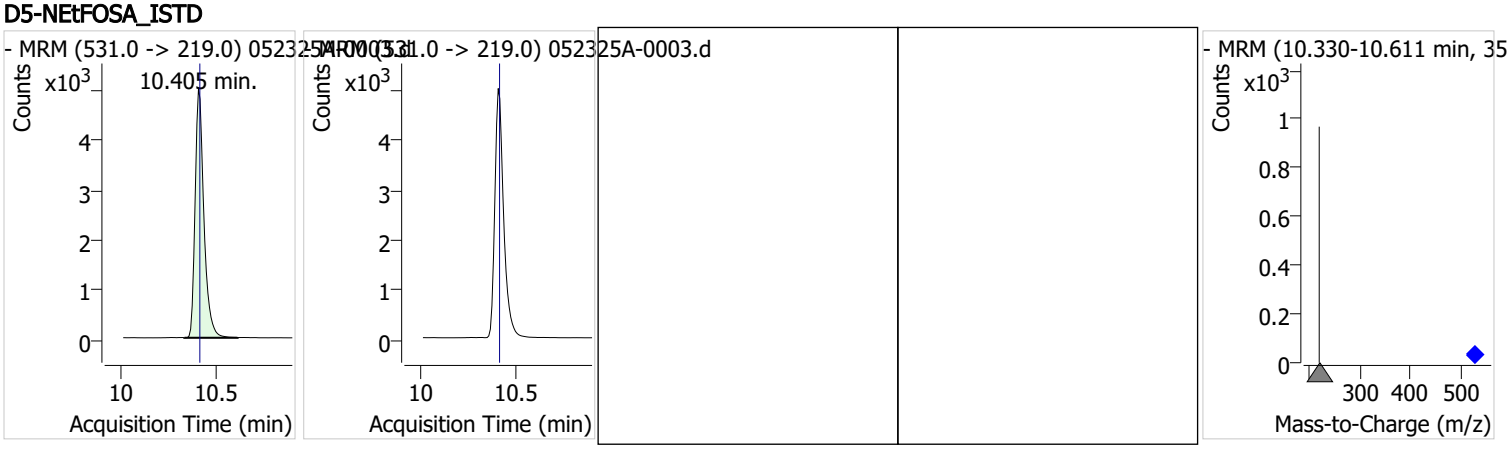
NEtFOSA



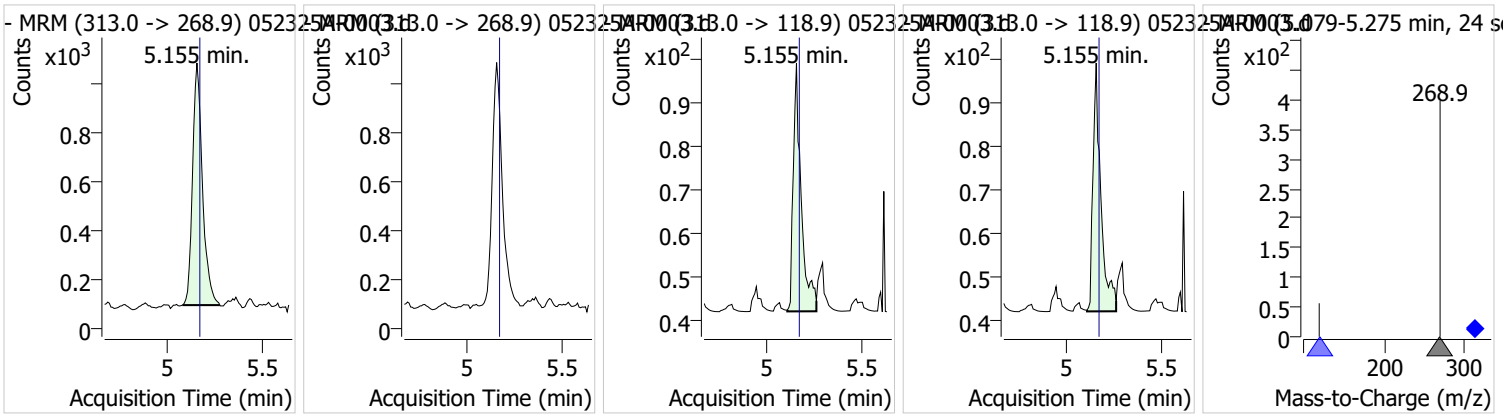
PFHpA



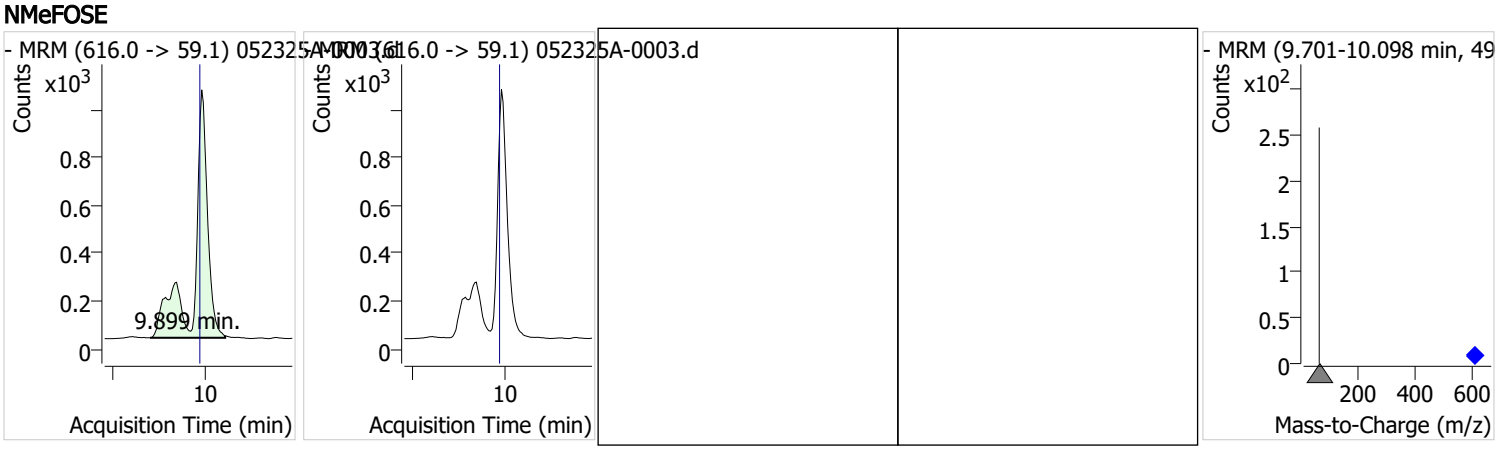
D5-NEtFOSA_ISTD



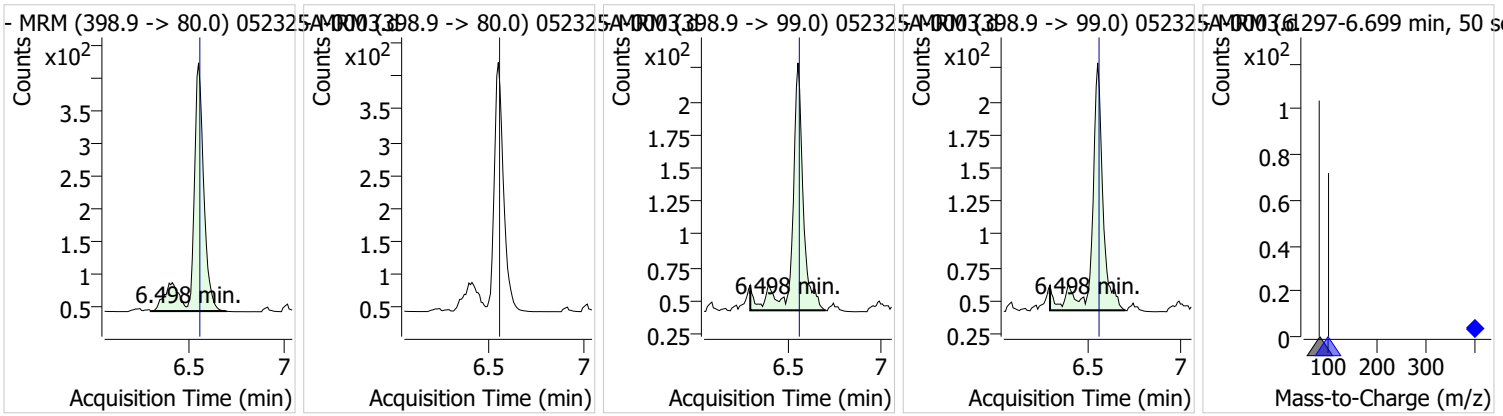
PFHxA



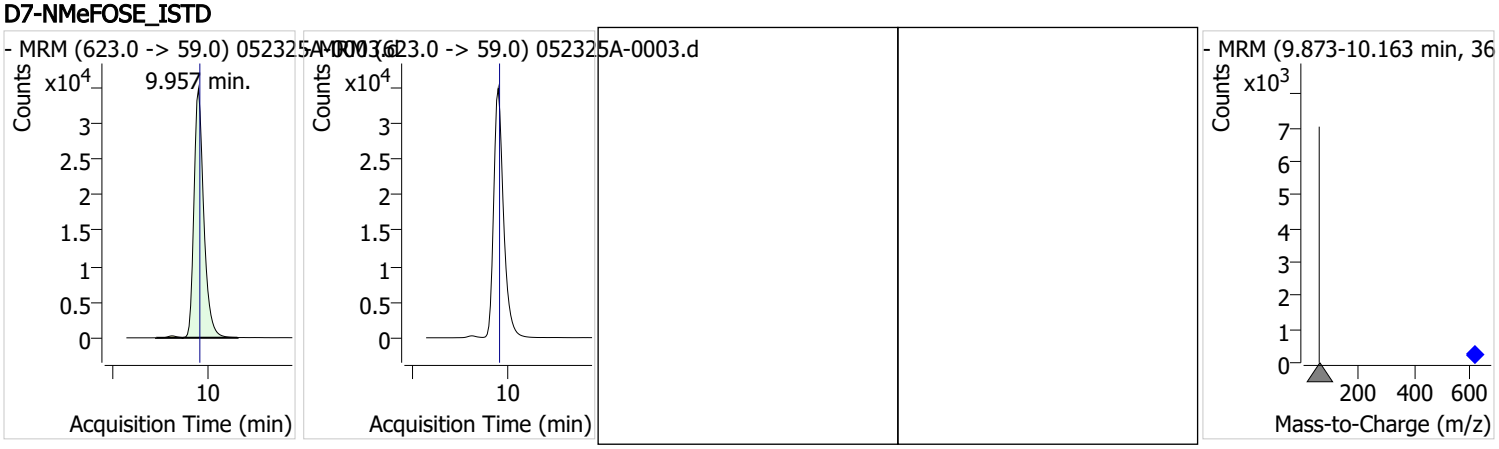
NMeFOSE



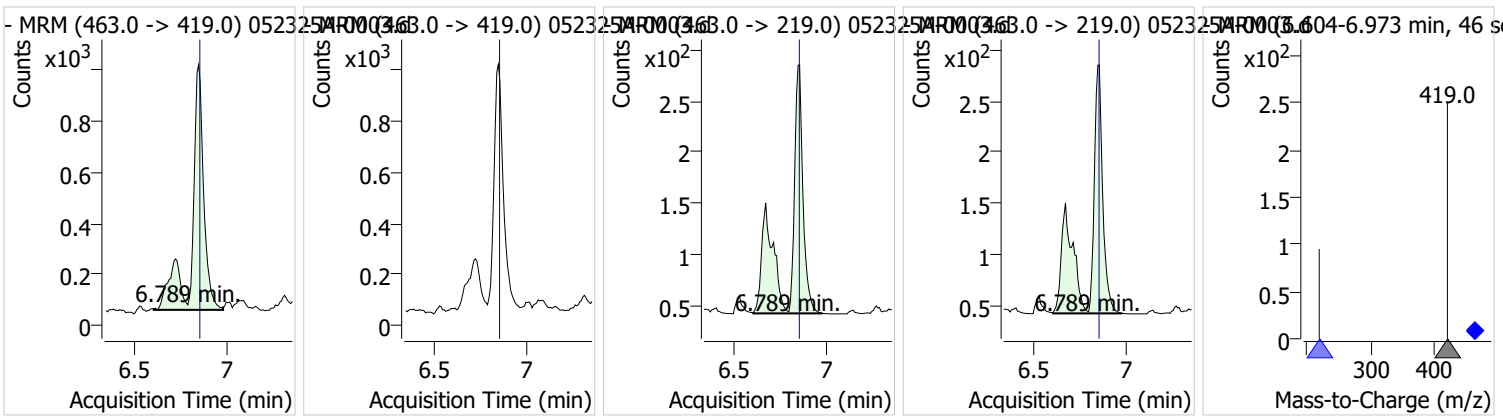
PFHxS



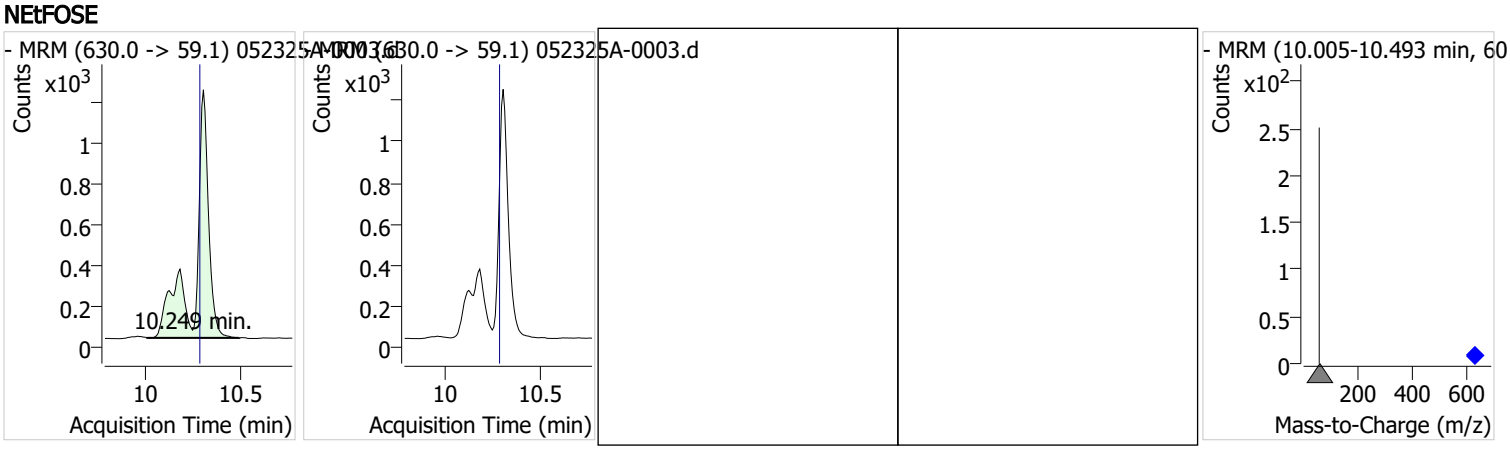
D7-NMeFOSE_ISTD



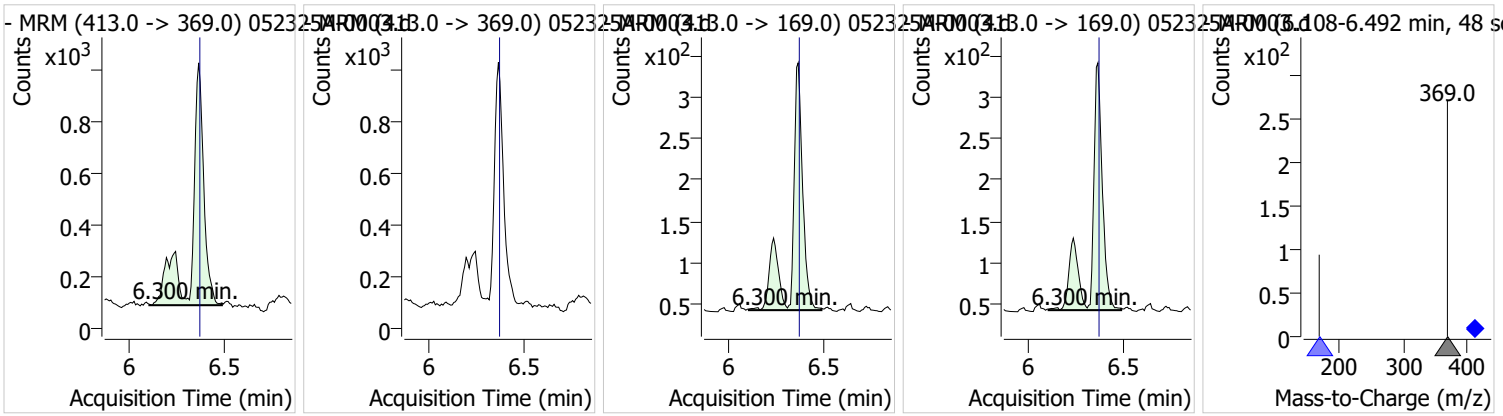
PFNA



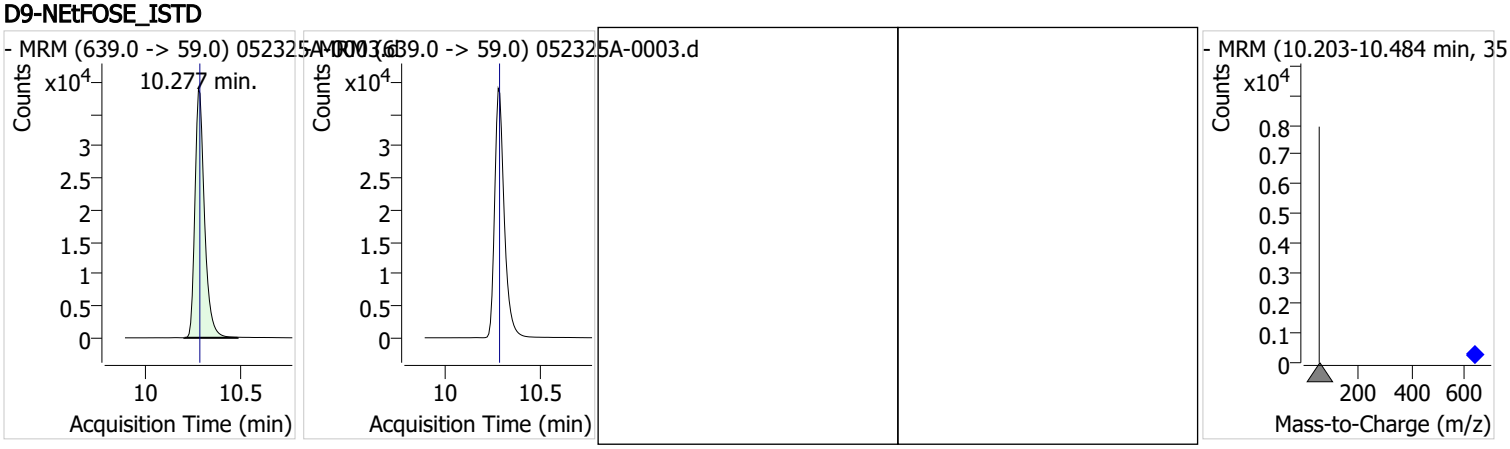
NEtFOSE



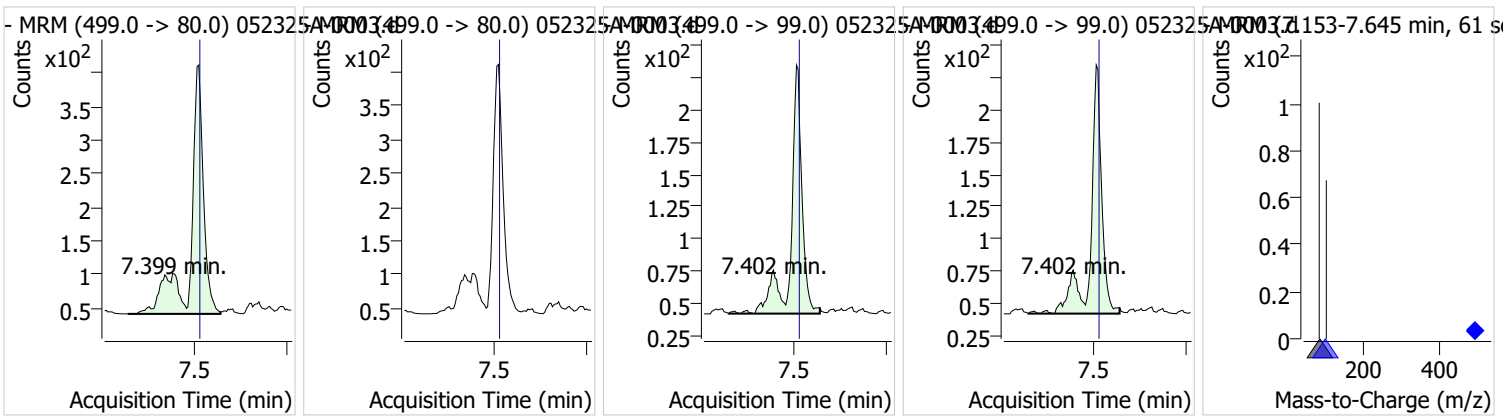
PFOA



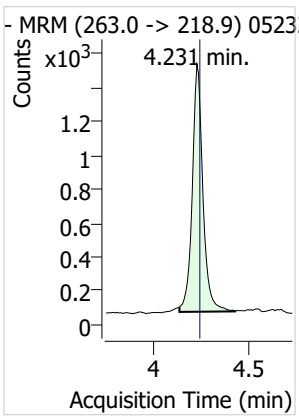
D9-NEtFOSE_ISTD

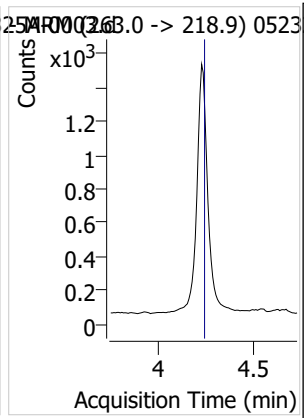


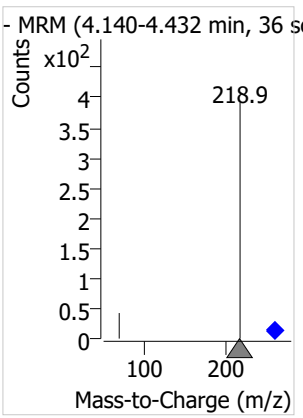
PFOS



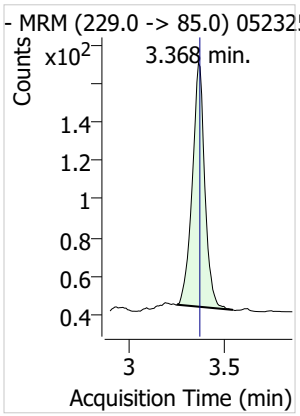
PFPeA

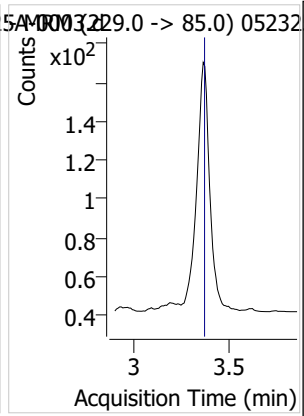


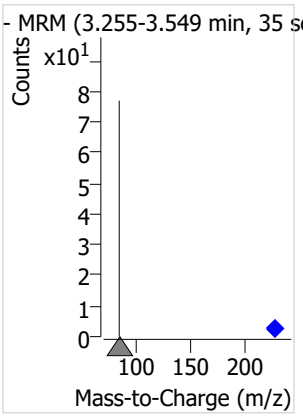




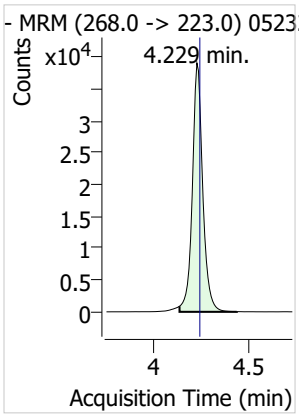
PFMPA

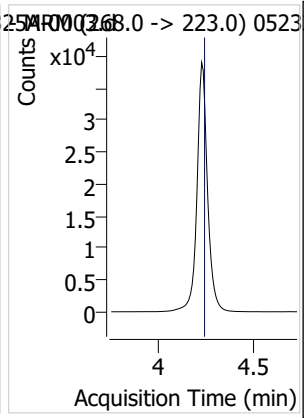


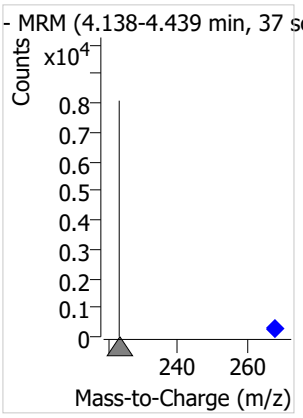




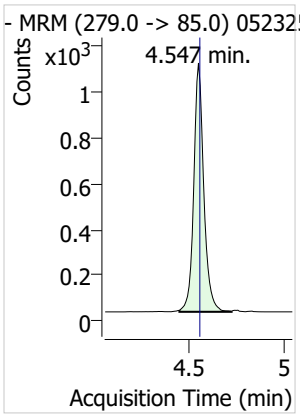
13C5-PFPeA

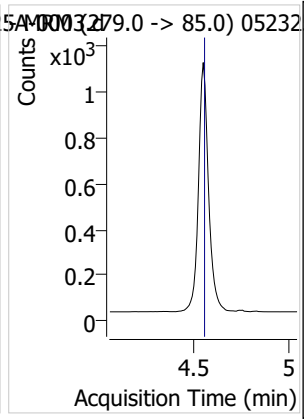


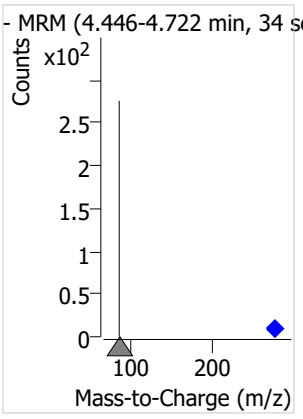




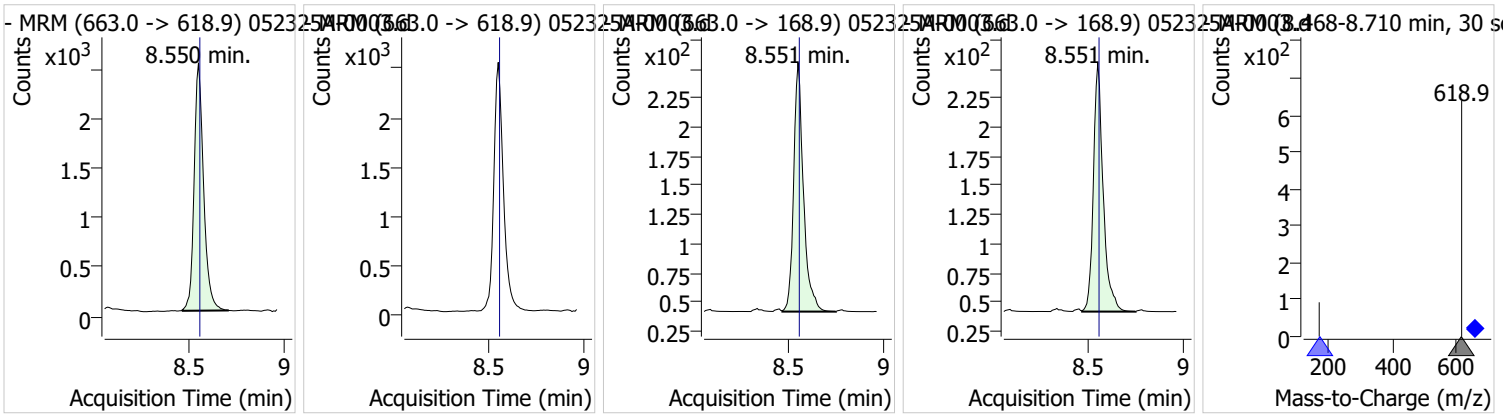
PFMBA



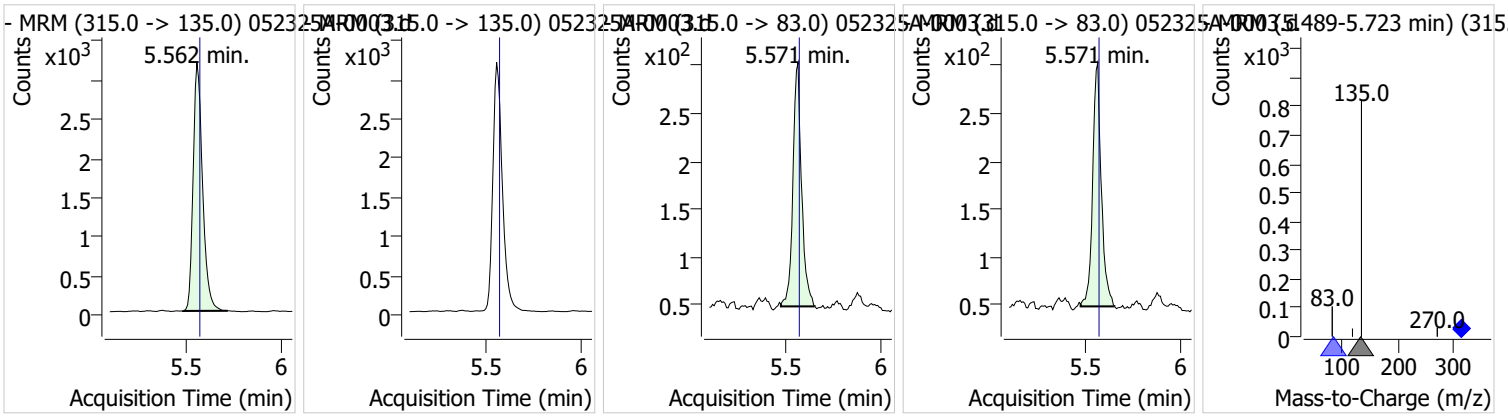




PFTrDA



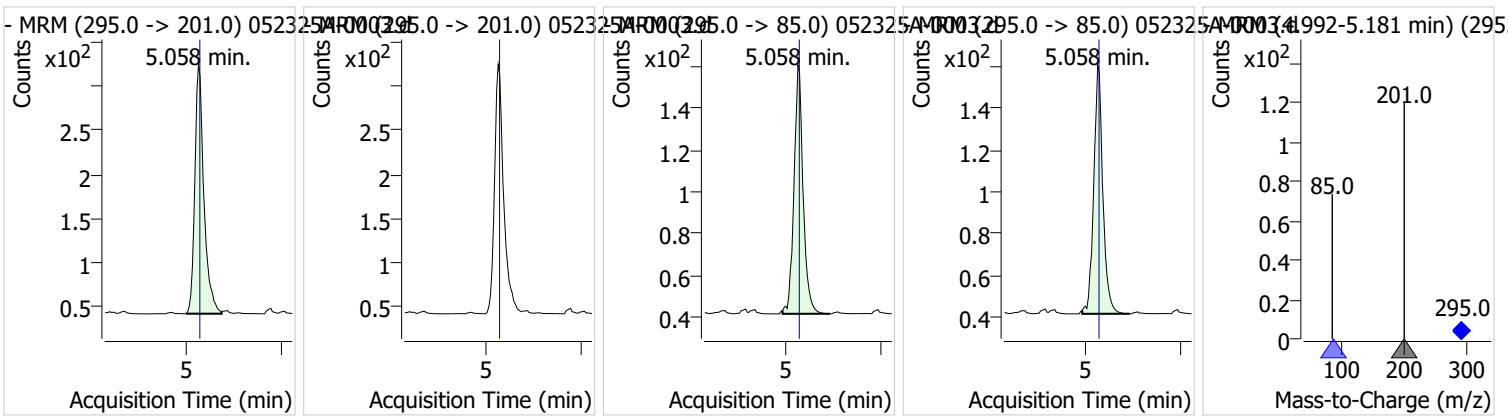
PFEESA



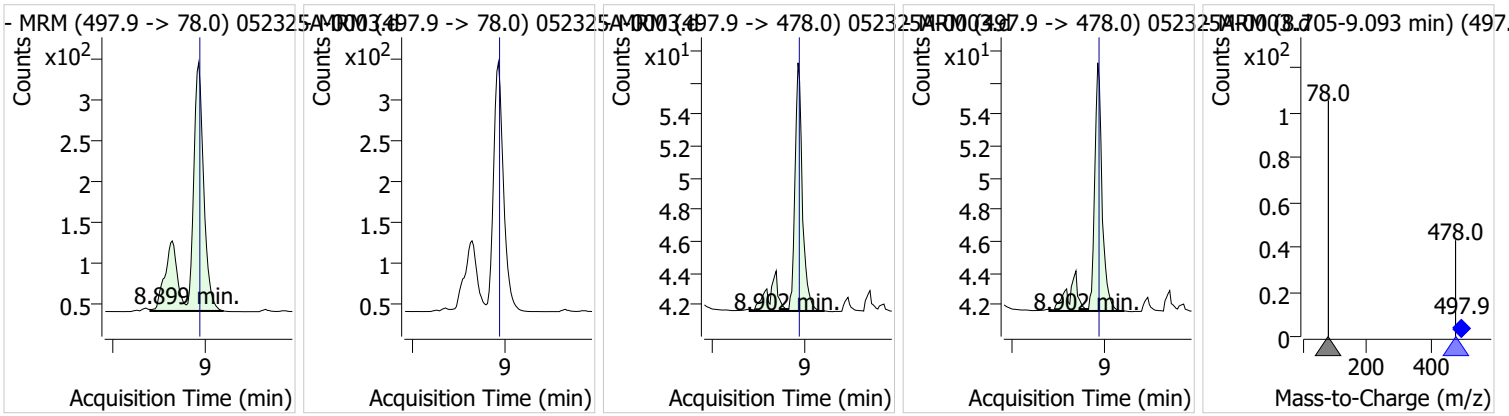
13C6-PFDA



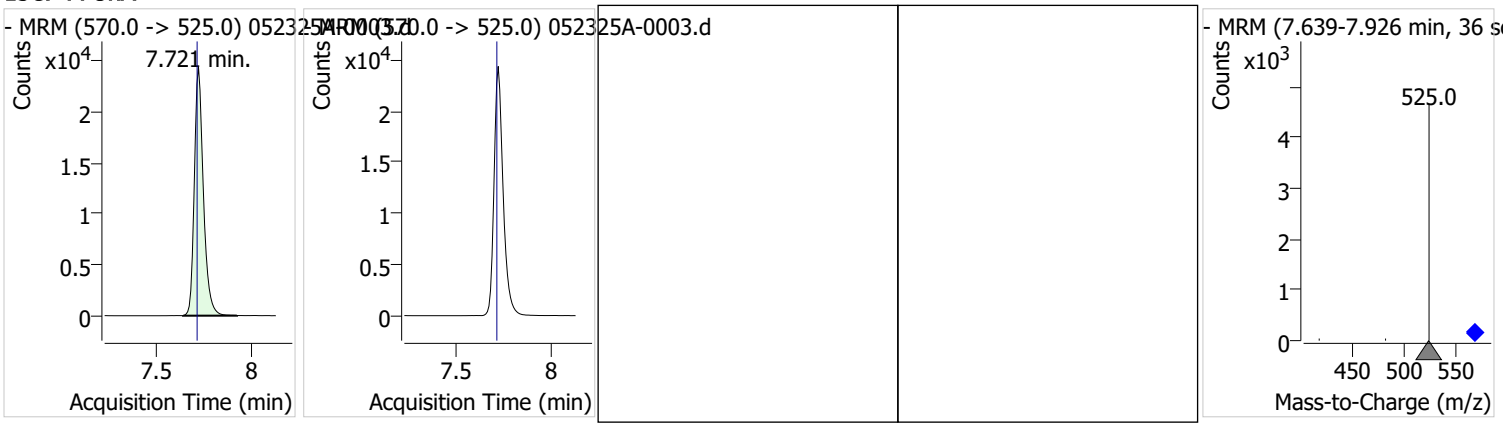
NFDHA



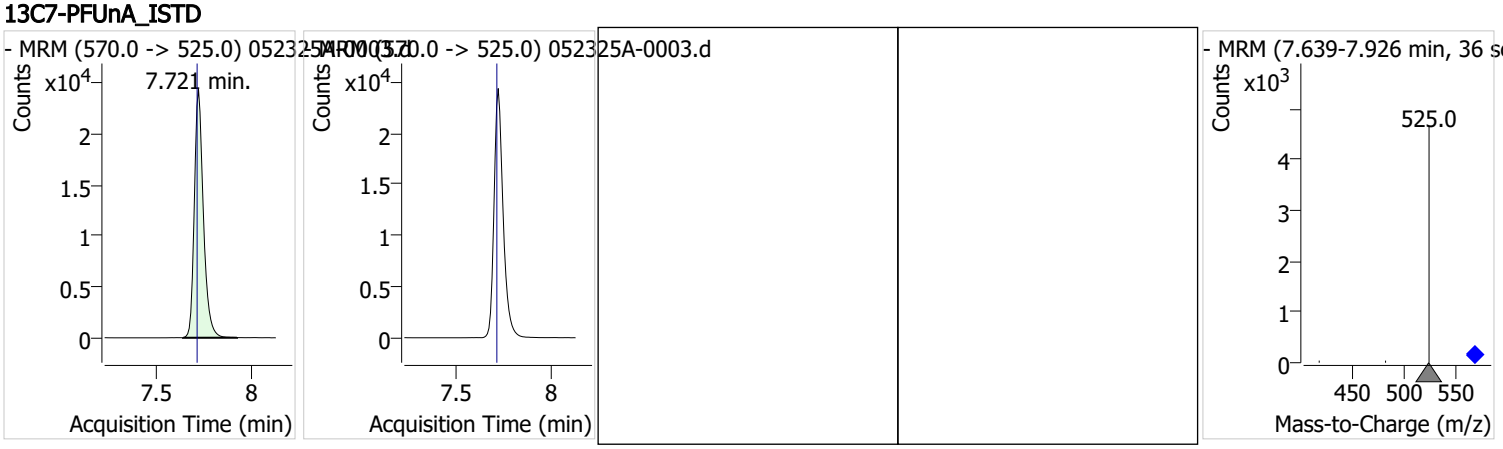
PFOSA



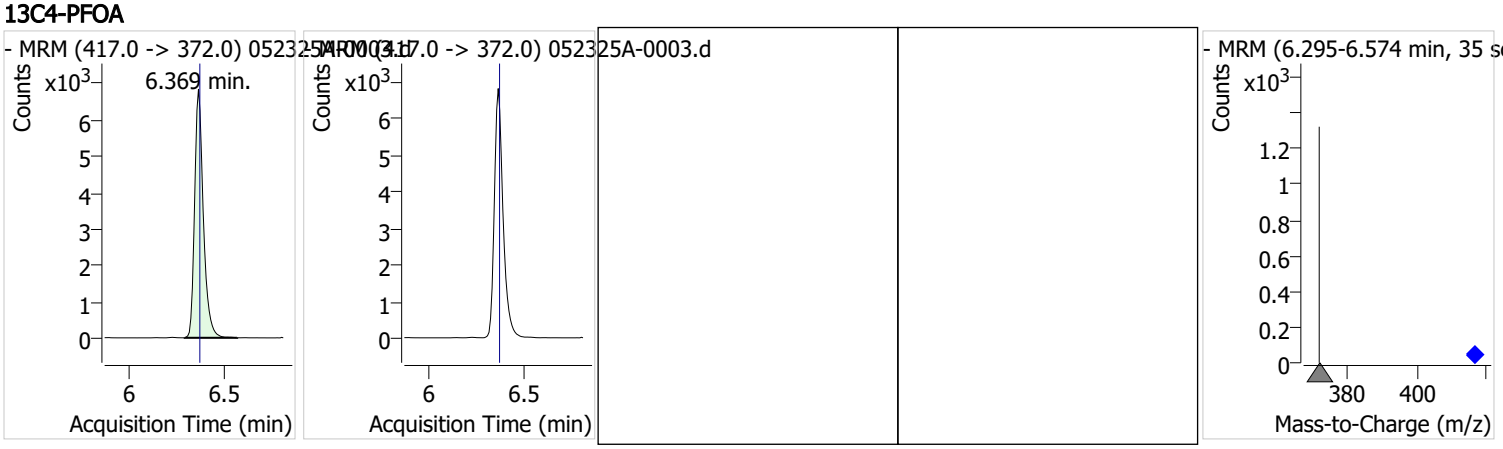
13C7-PFUnA



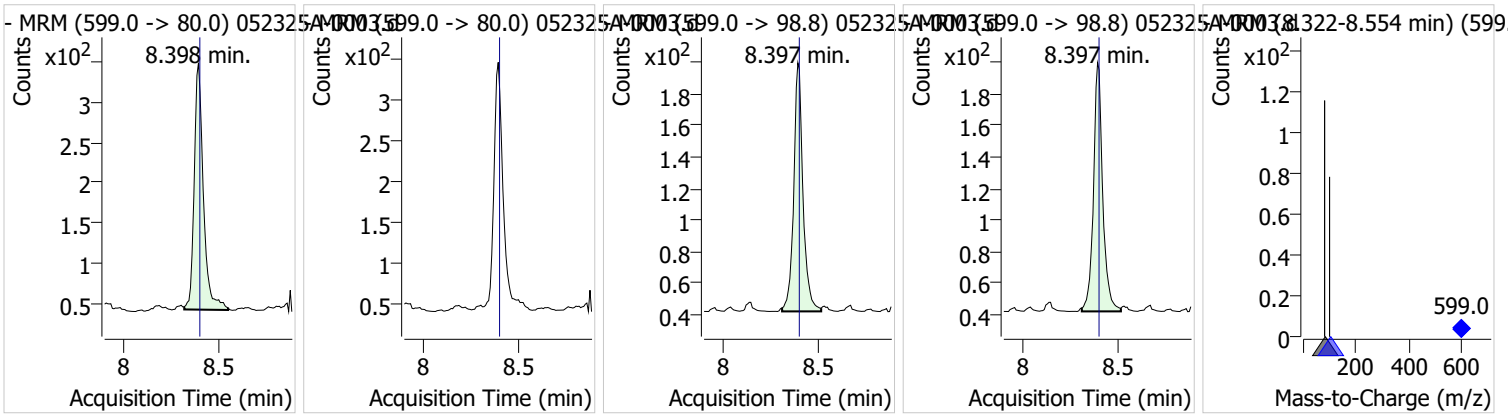
13C7-PFUnA_ISTD



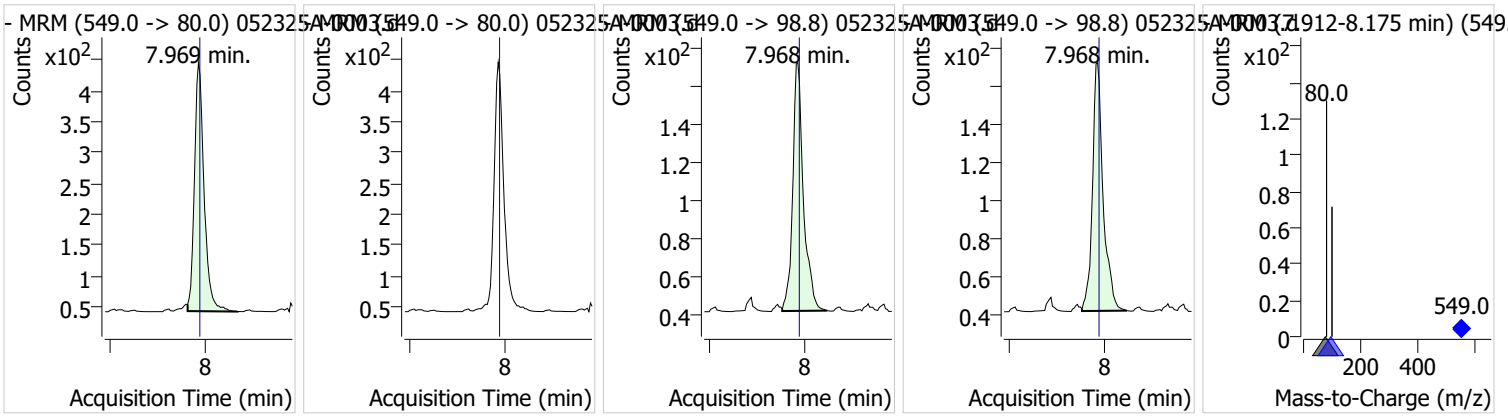
13C4-PFOA



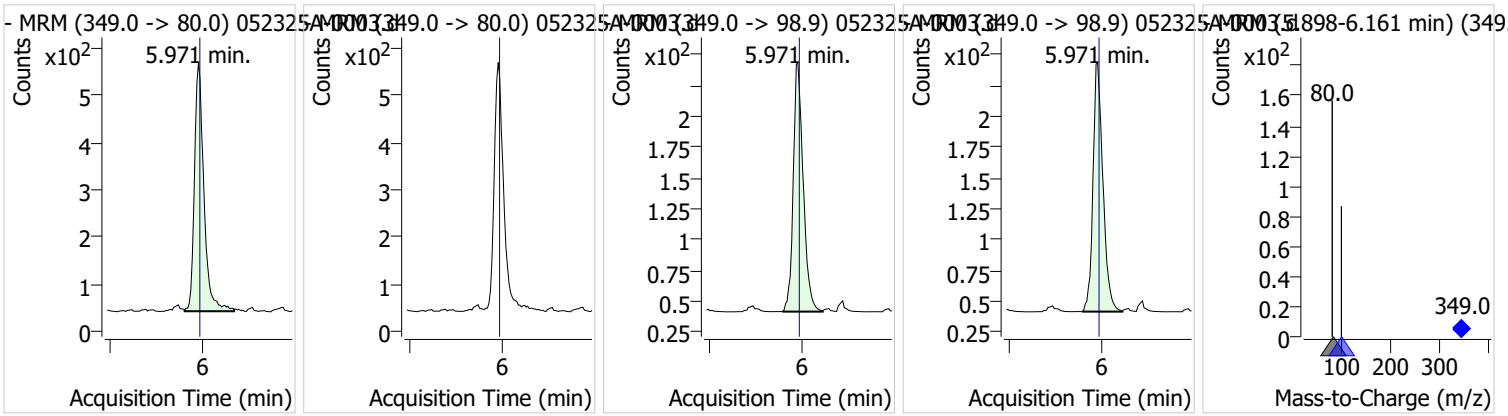
PFDS



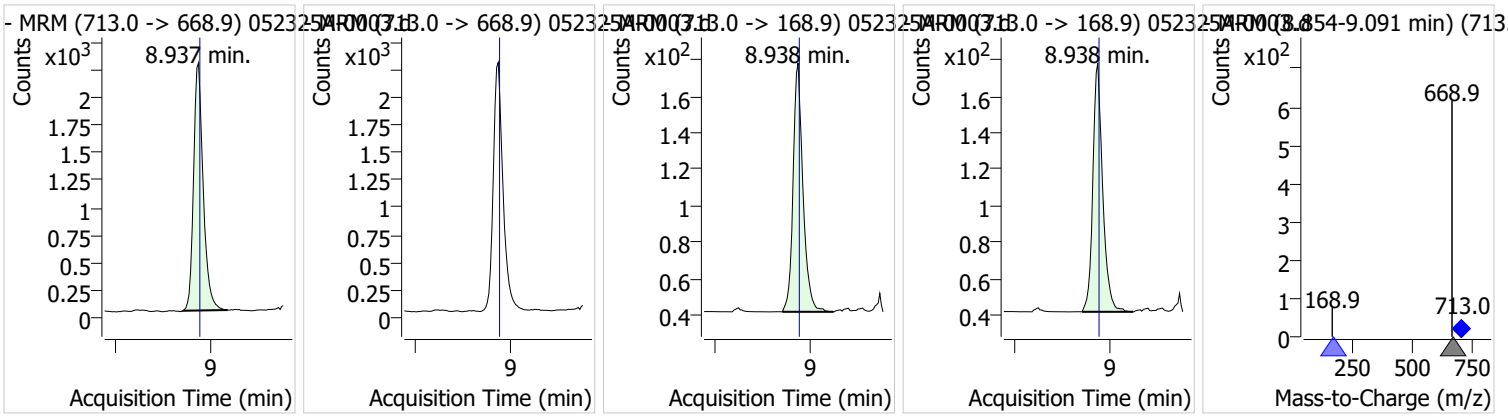
PFNS



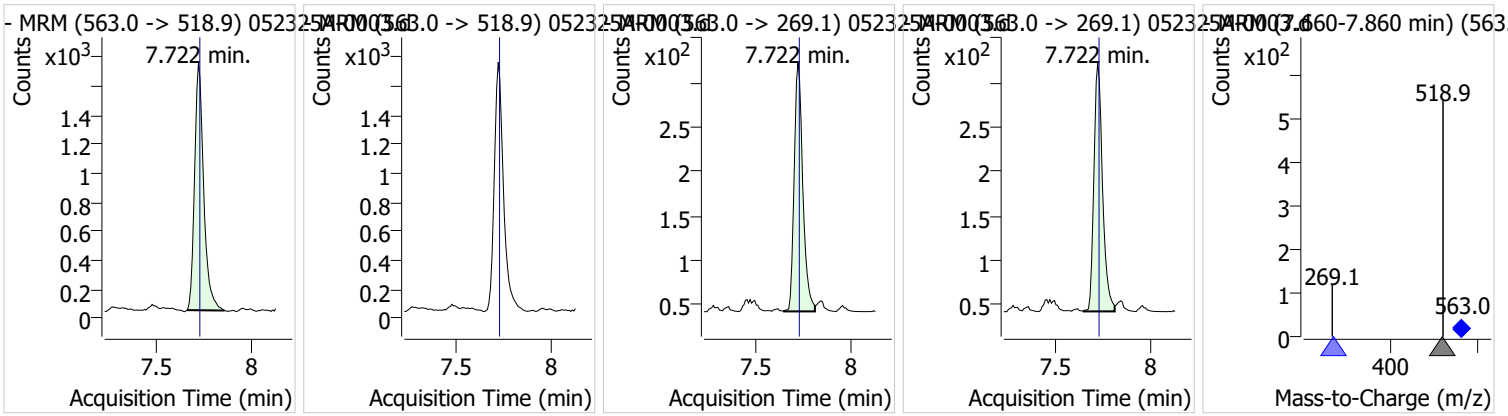
PFPeS



PFTeDA



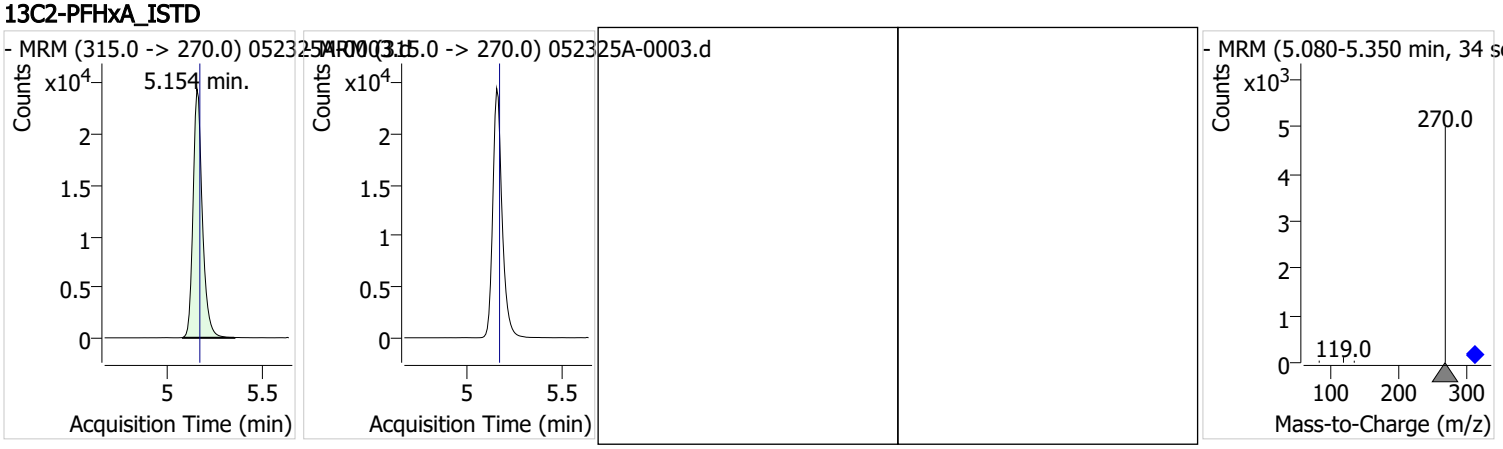
PFUnA



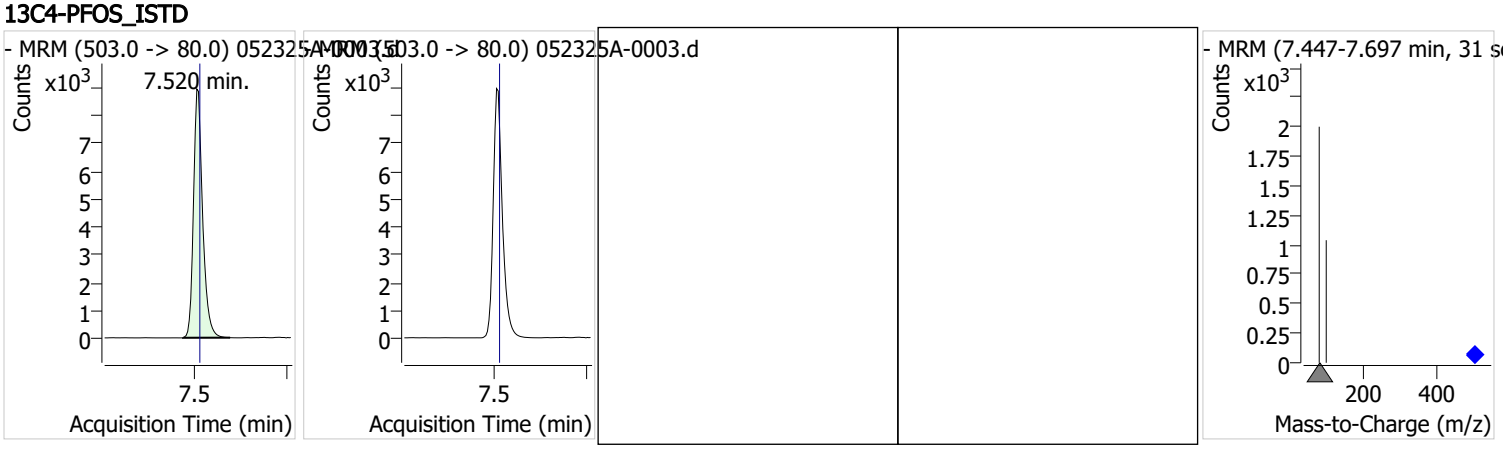
13C2-PFDA_ISTD



13C2-PFHxA_ISTD



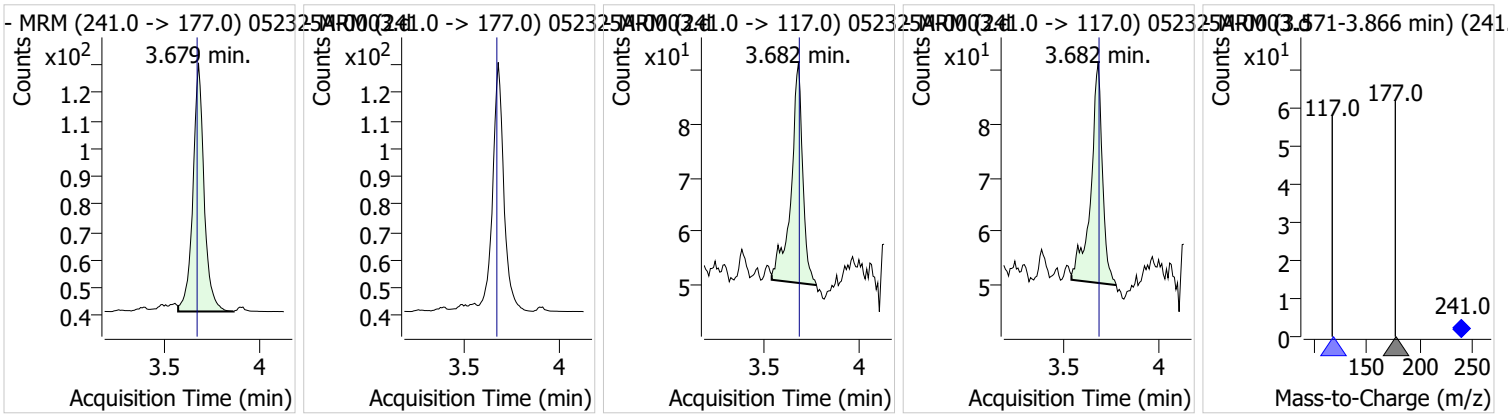
13C4-PFOS_ISTD



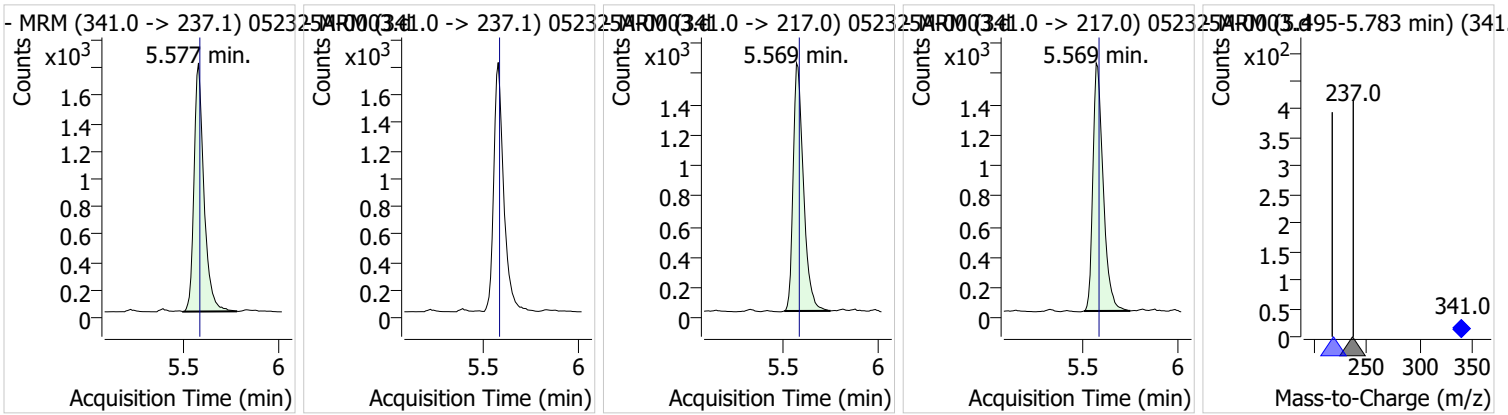
13C3-PFBA



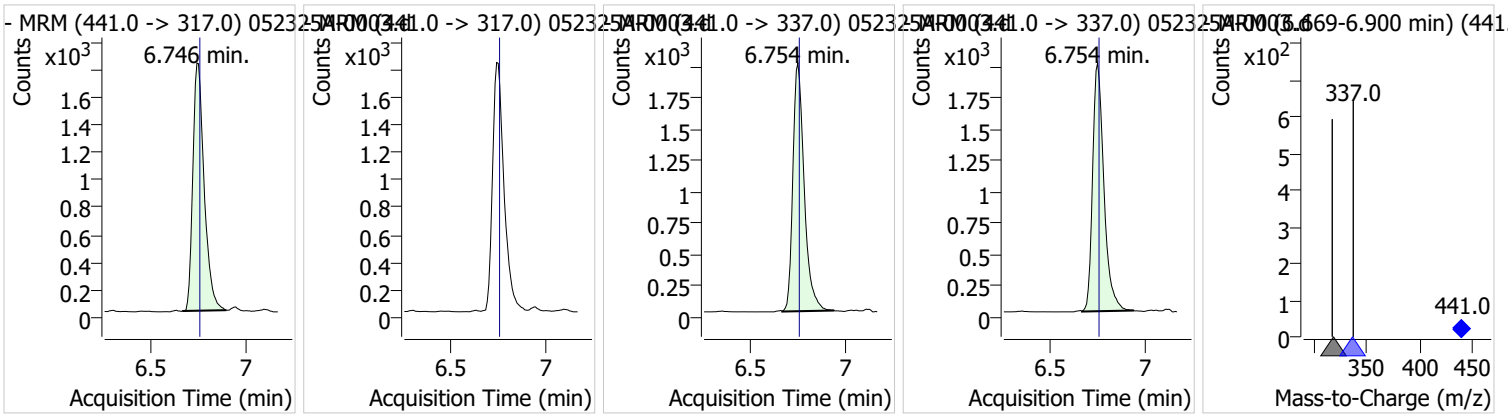
3:3FTCA



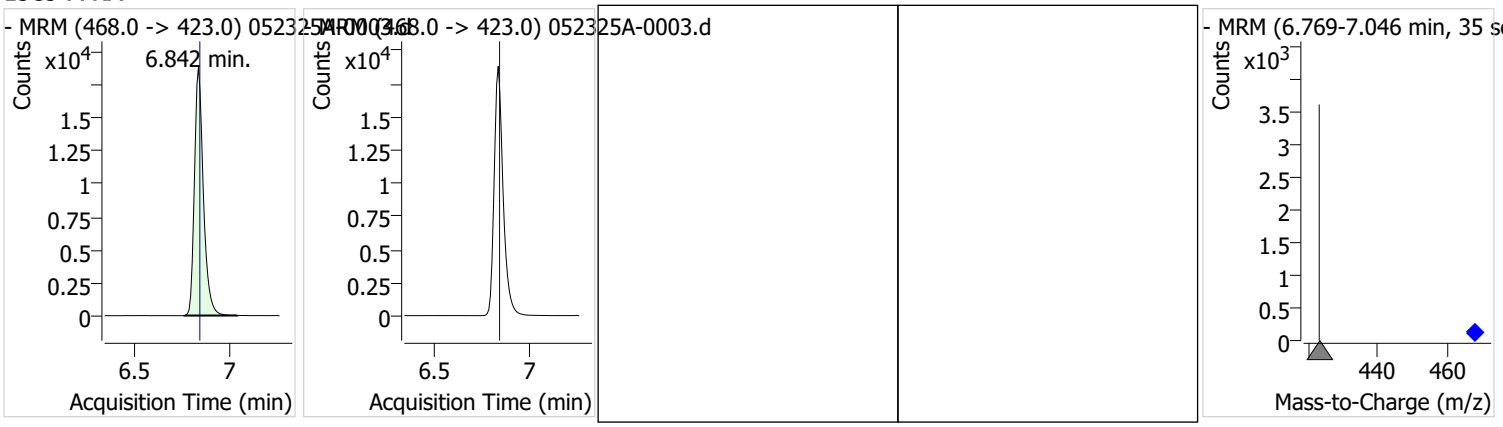
5:3FTCA



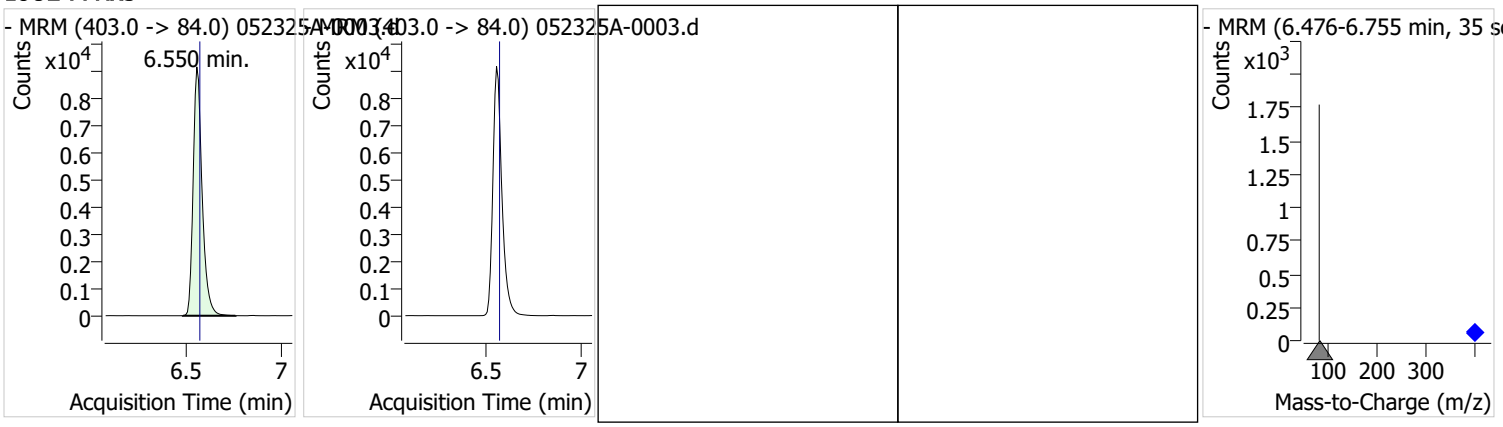
7:3FTCA



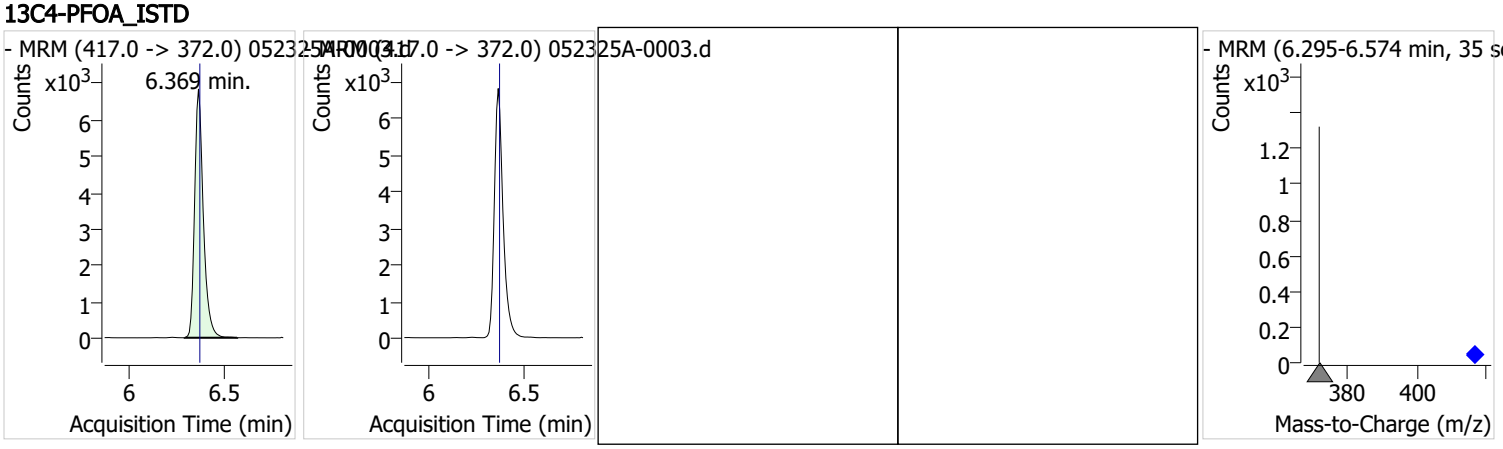
13C5-PFNA



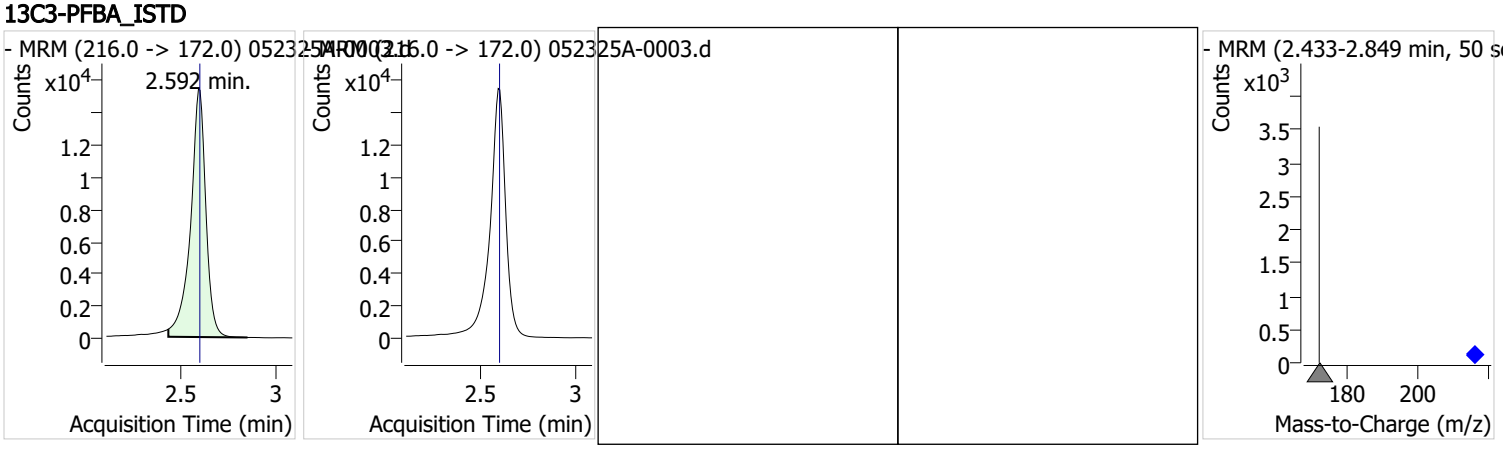
18O2-PFHxS



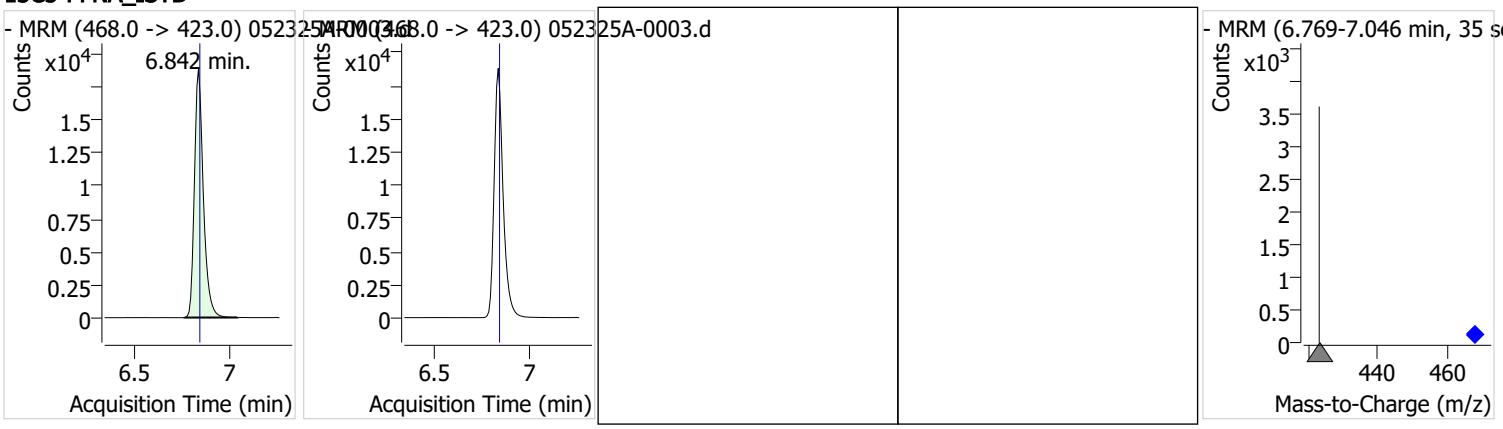
13C4-PFOA_ISTD



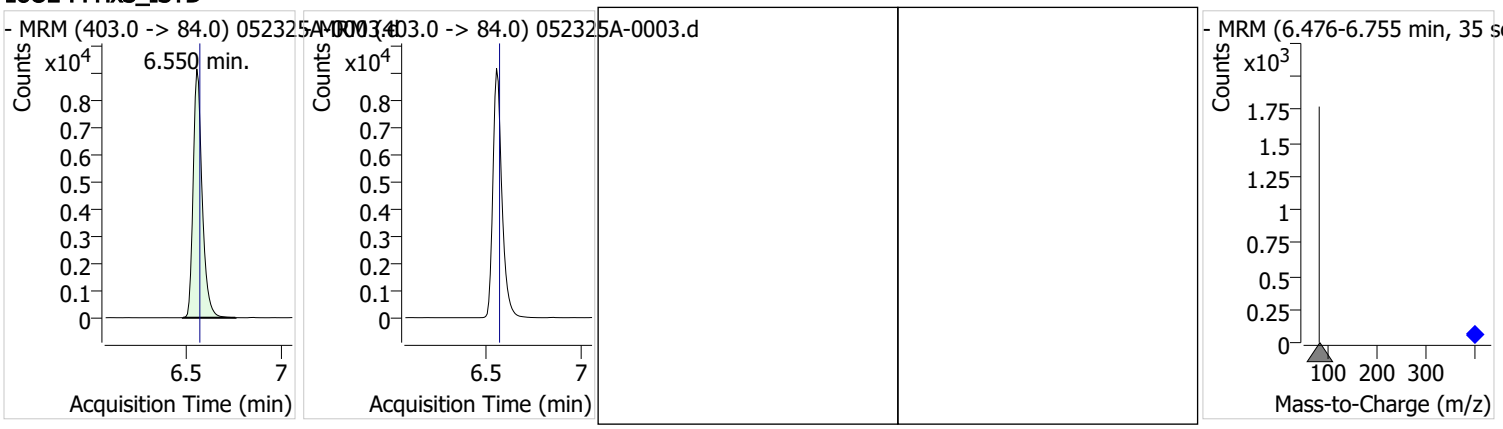
13C3-PFBA_ISTD



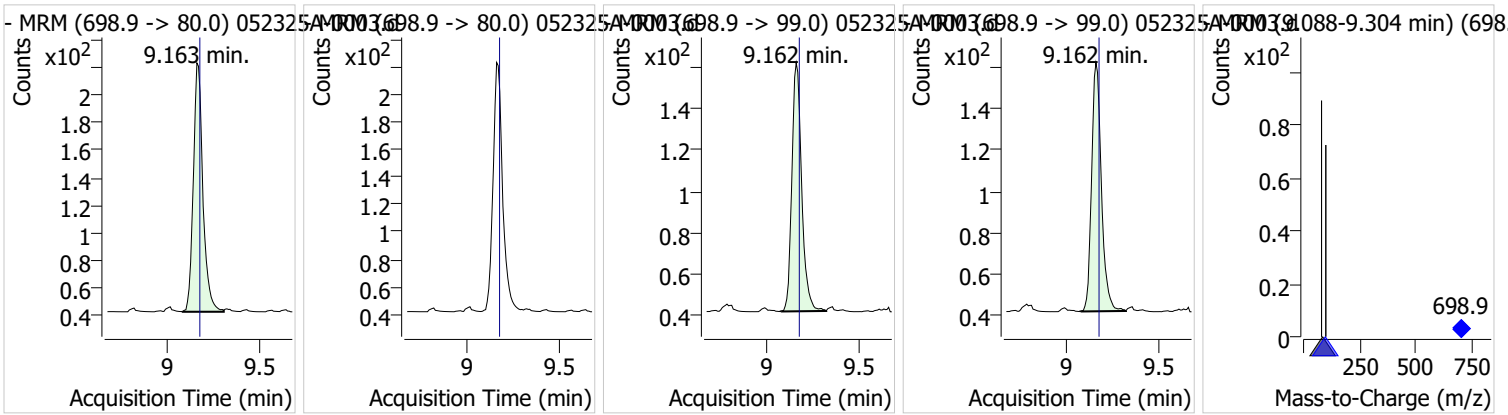
13C5-PFNA_ISTD



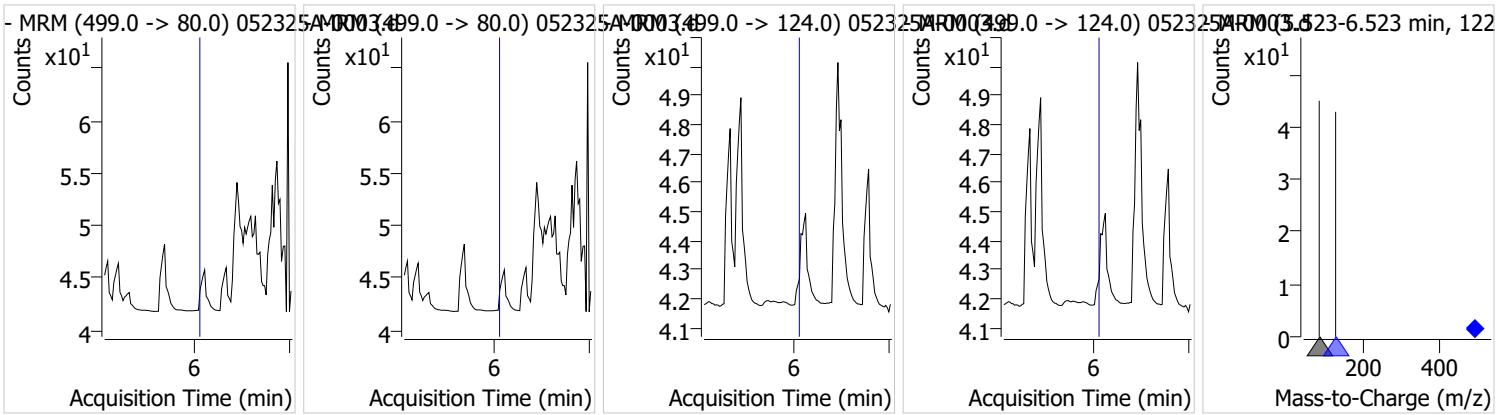
18O2-PFHxS_ISTD



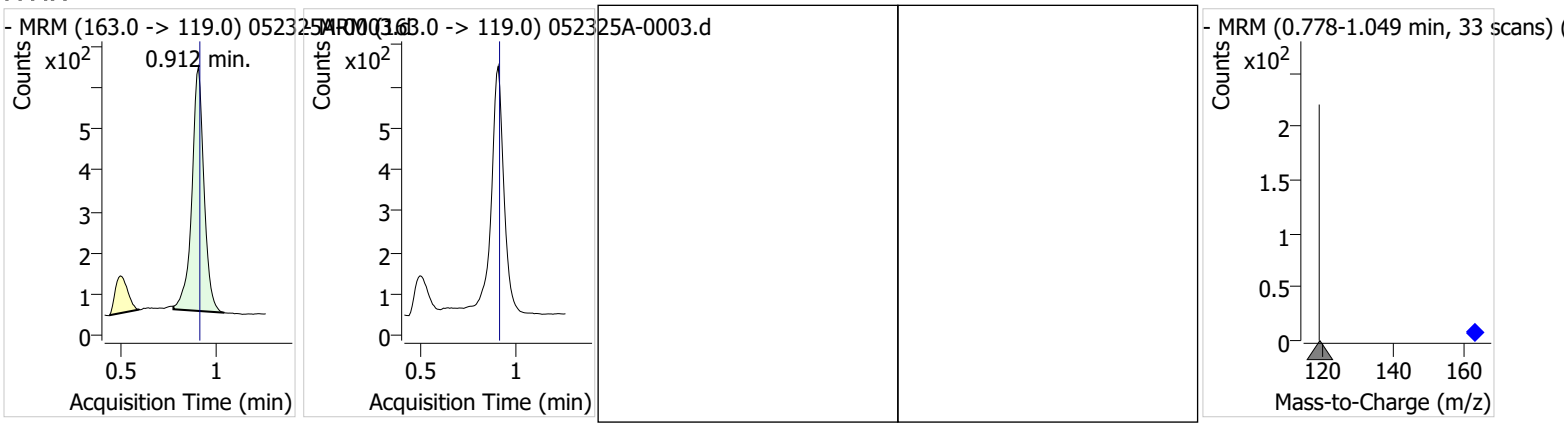
PFDoS



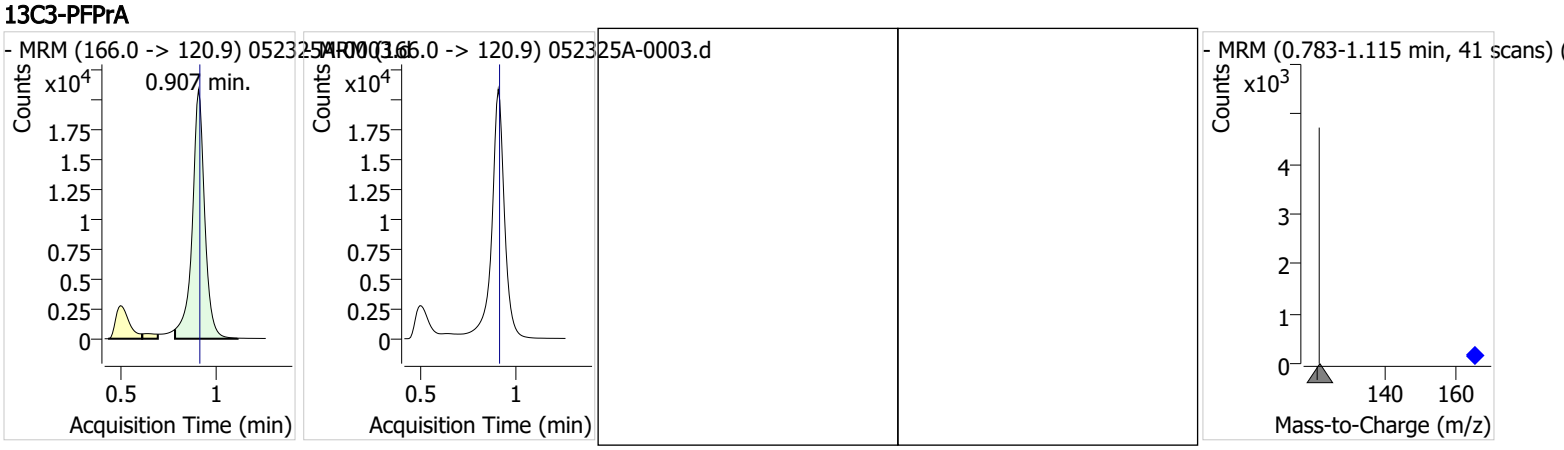
TDCA



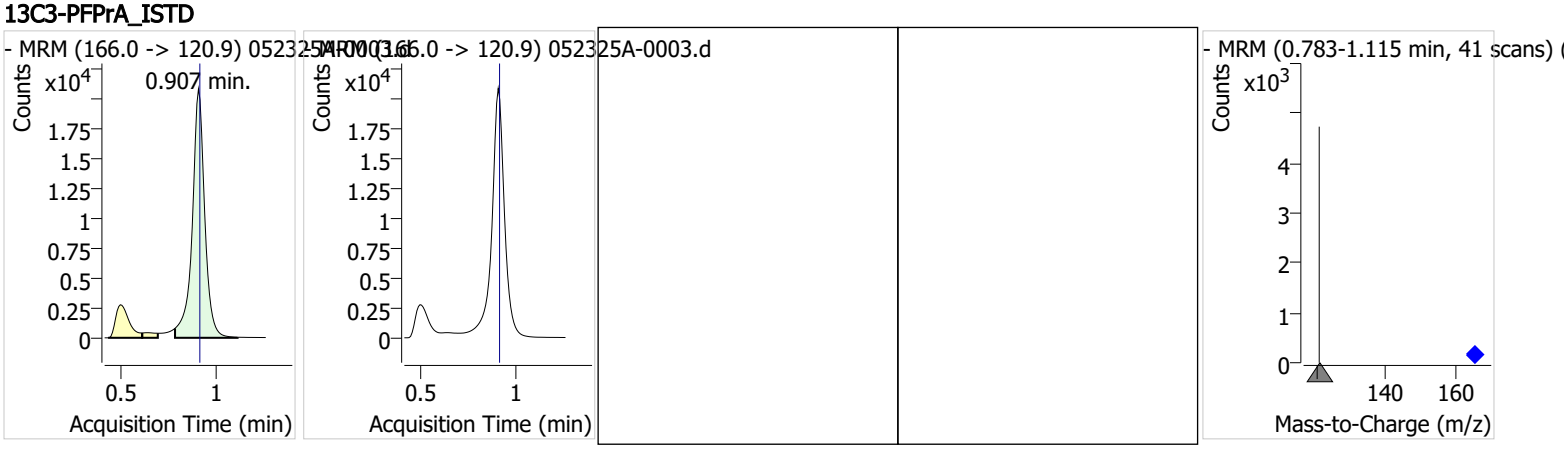
PFPrA



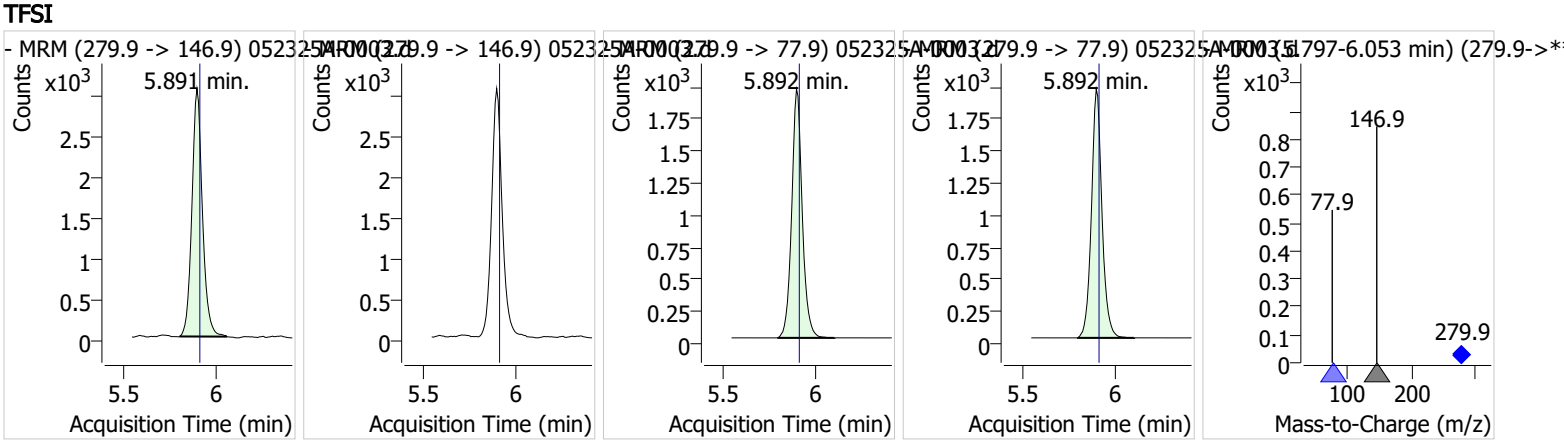
13C3-PFPrA



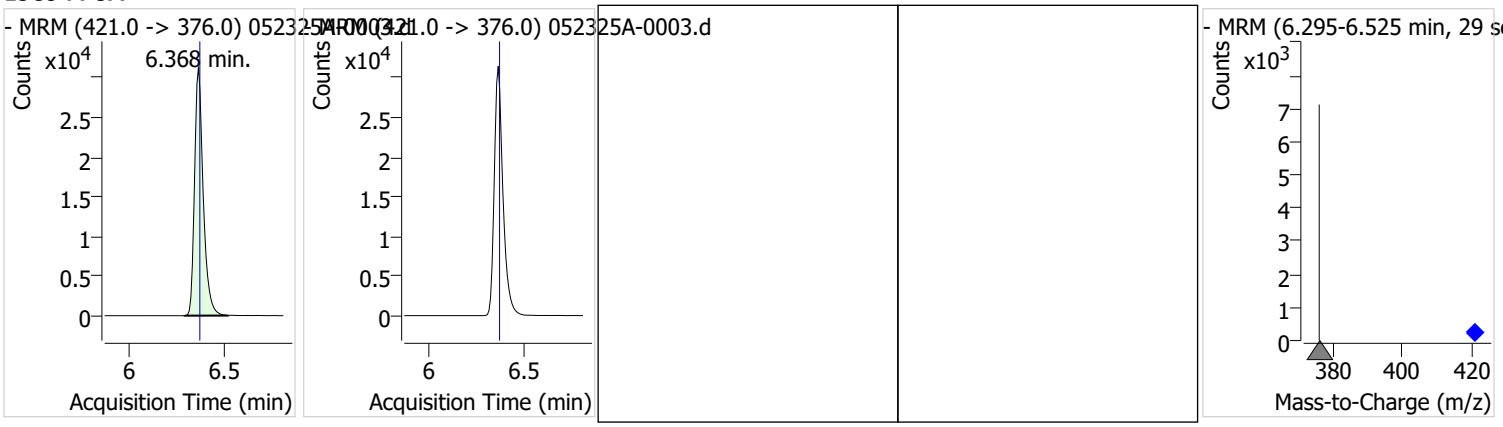
13C3-PFPrA_ISTD



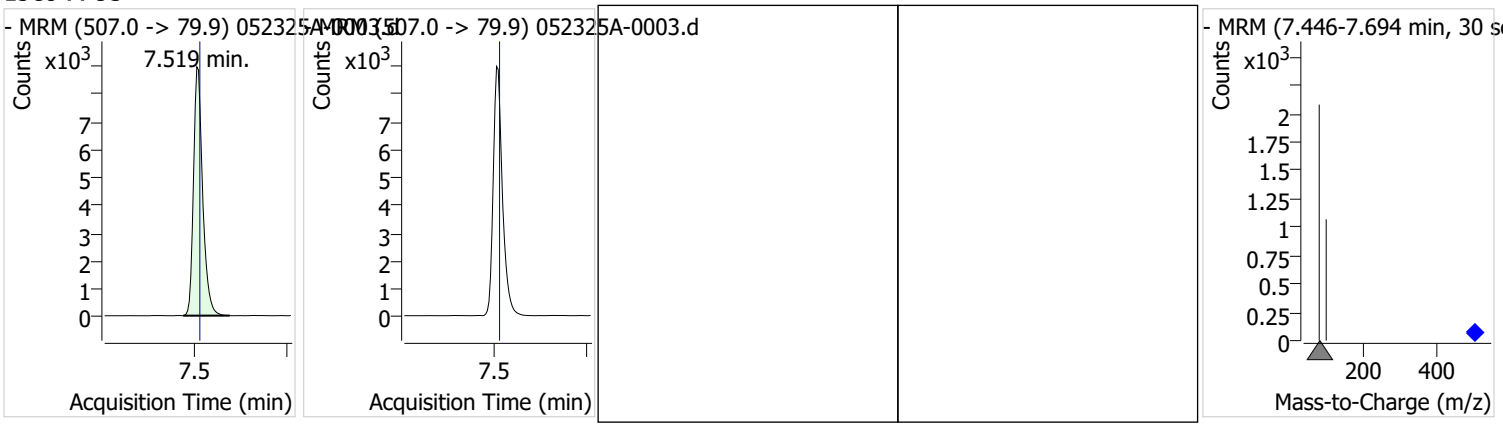
TFSI



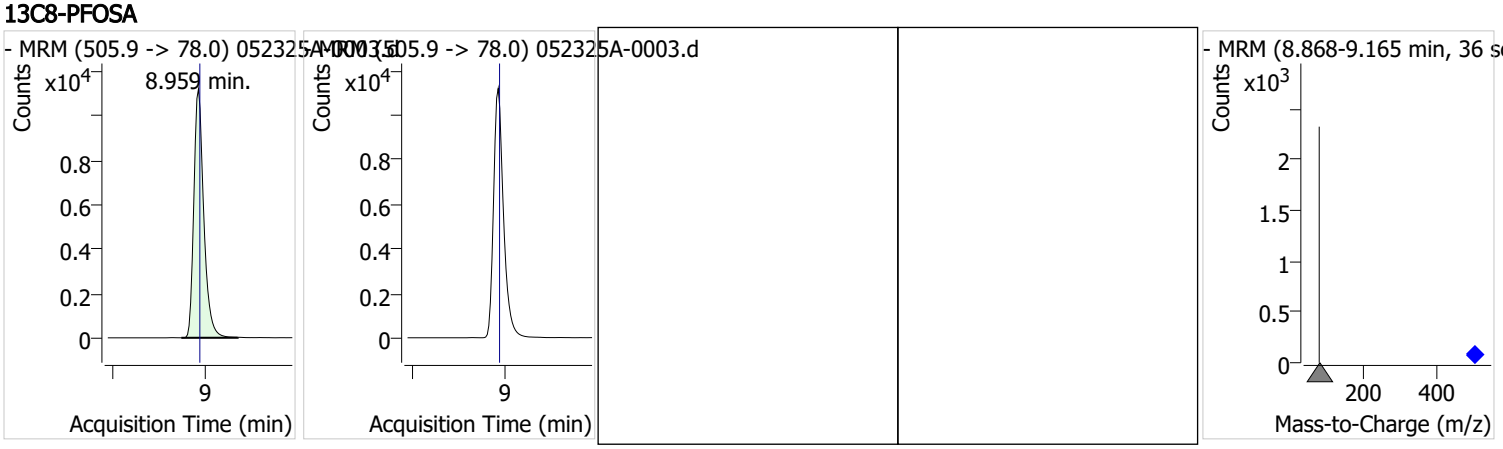
13C8-PFOA



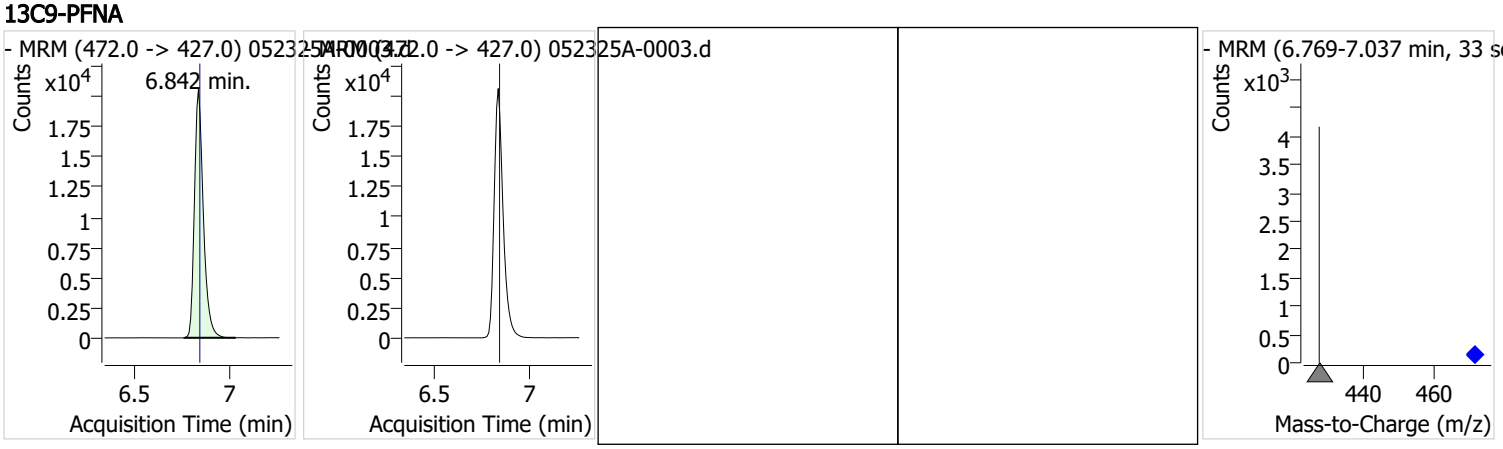
13C8-PFOS



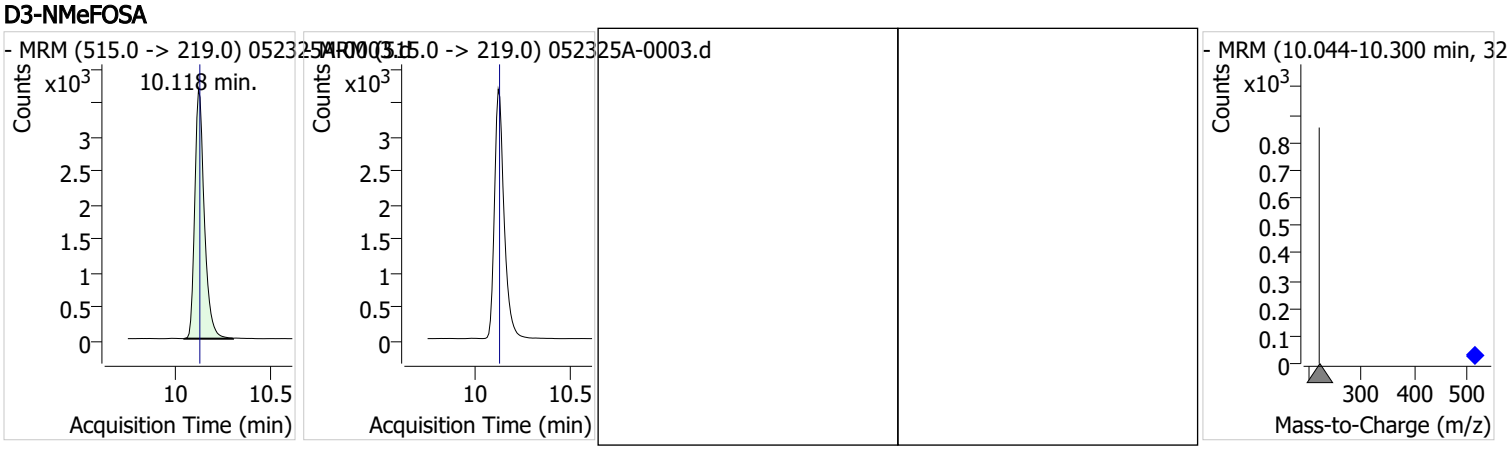
13C8-PFOSA



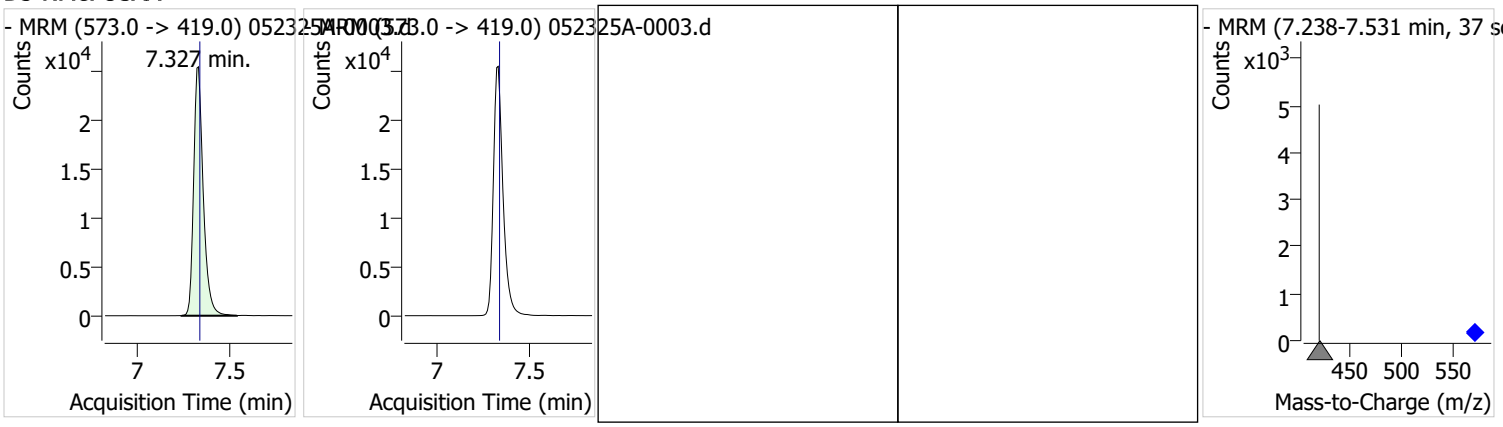
13C9-PFNA



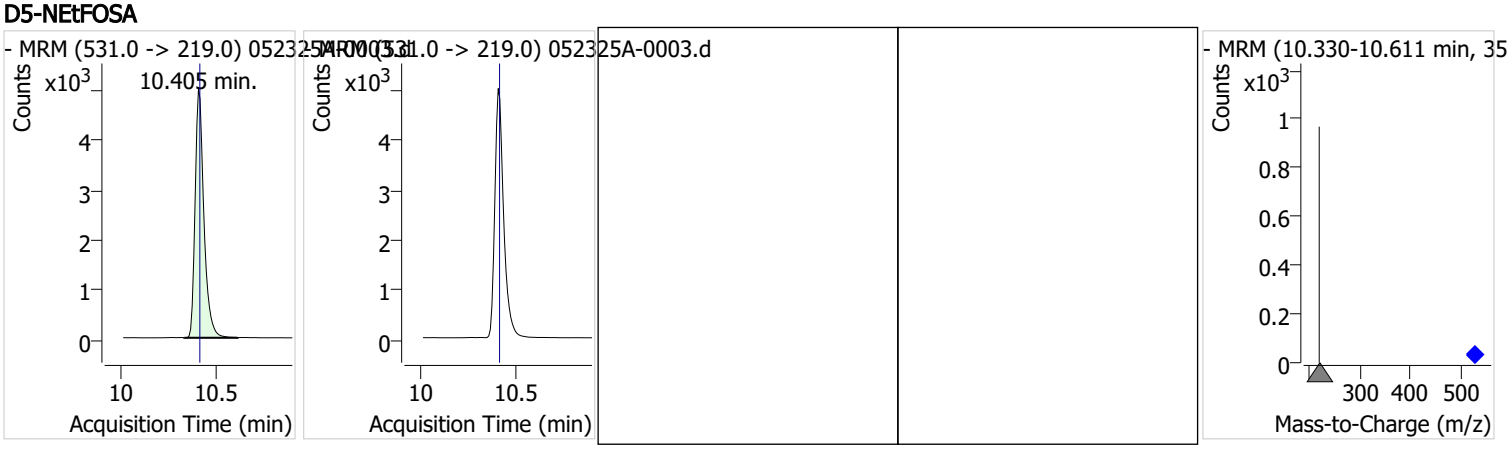
D3-NMeFOSA



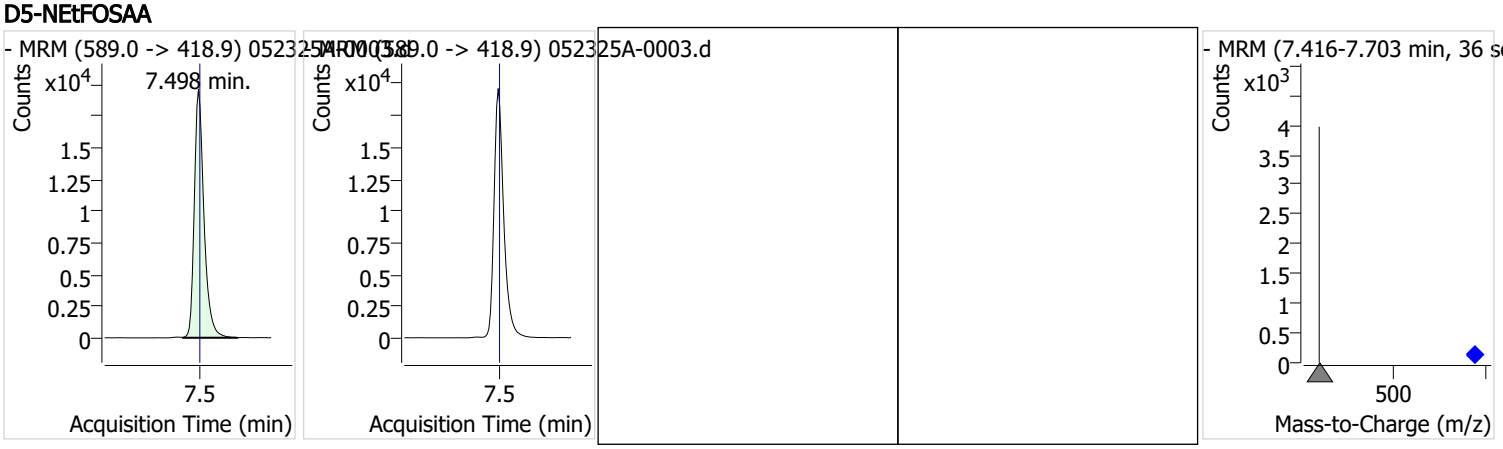
D3-NMeFOSAA



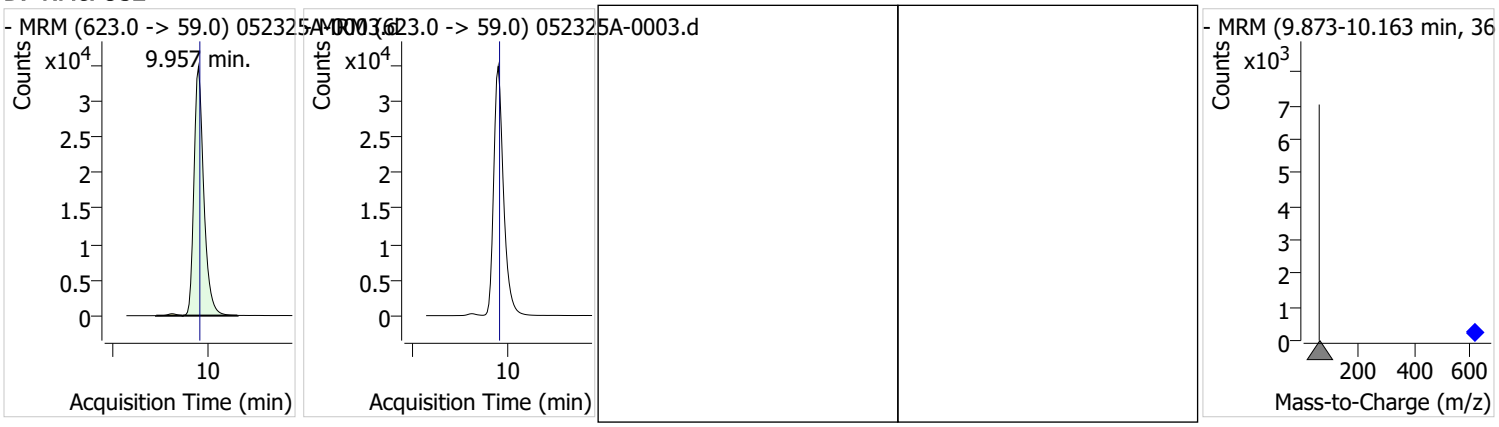
D5-NEtFOSA



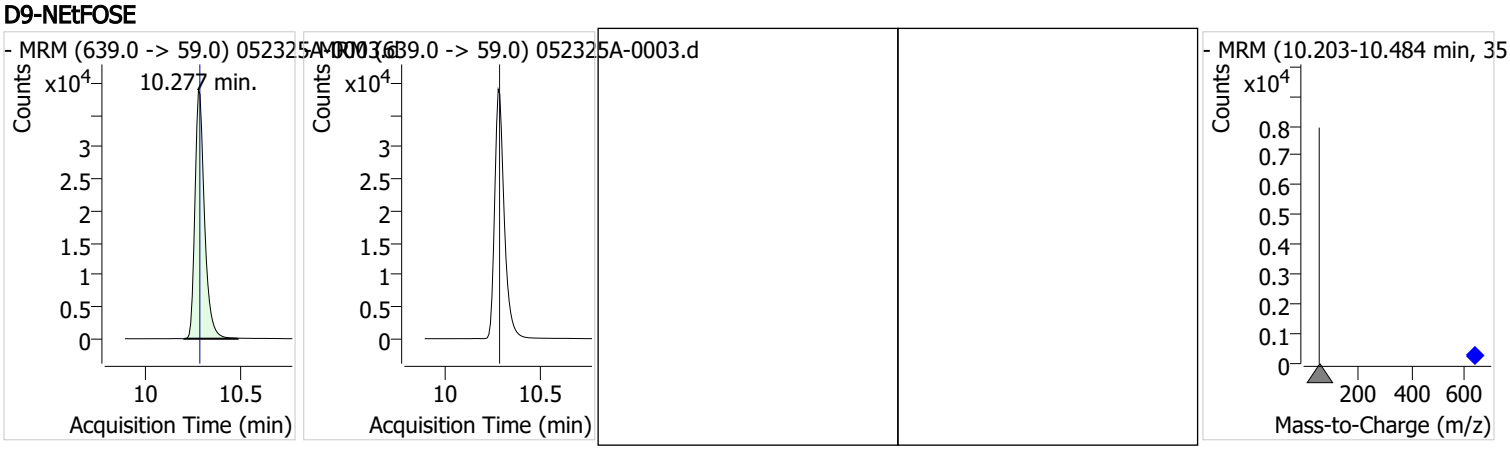
D5-NEtFOSAA



D7-NMeFOSE

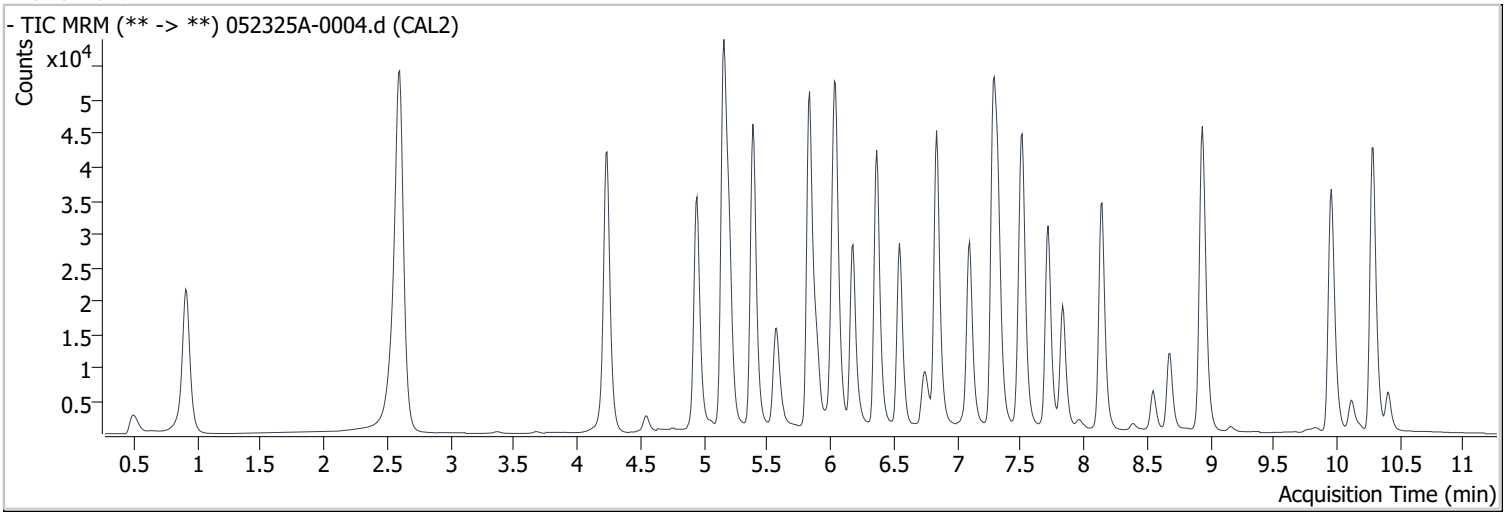


D9-NEtFOSE



Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 10:40 AM	**Data File**	052325A-0004.d
Sample Type	Cal	**Sample Name**	CAL2
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510286	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	6680	26929.67		13C3-HFPODA_ISTD	5.394	91326	0.7451	ng/ml			
285.0 -> 184.9	5.394	3742	107.31	56.0								
4:2FTS	4.947	12983	12244.87		13C2-4:2FTS_ISTD	4.946	30409	0.6487	ng/ml			
327.0 -> 80.9	4.947	4699	3964.86	36.2								
6:2FTS	6.180	8054	2358.79		13C2-6:2FTS_ISTD	6.180	22488	0.6649	ng/ml			
427.0 -> 80.9	6.181	3628	1083.40	45.0								
ADONA	6.044	58142	38847.52		13C4-PFHpA_ISTD	5.839	147847	0.6065	ng/ml			
377.0 -> 85.1	6.044	24537	7299.71	42.2								
8:2FTS	7.100	8391	2509.34		13C2-8:2FTS_ISTD	7.100	22444	0.6820	ng/ml			
527.0 -> 81.0	7.101	3109	9926.42	37.1								
13C4-PFBA	2.597	204808	5209.94		13C3-PFBA_ISTD	2.592	87435	9.6242	ng/ml			
9Cl-PF3ONS	7.838	46984	16609.92		13C8-PFOS_ISTD	7.519	29205	0.7115	ng/ml			
533.0 -> 353.0	7.838	13028	1418.00	27.7								
11Cl-PF3OUdS	8.685	31608	6147.27		13C8-PFOS_ISTD	7.519	29205	0.6836	ng/ml			
633.0 -> 453.0	8.684	8073	441.43	25.5								
PFHpS	7.064	2491	716.62		13C8-PFOS_ISTD	7.519	29205	0.1537	ng/ml			
449.0 -> 98.8	7.055	1239	2381.10	49.7								
13C2-4:2FTS	4.946	30409	4707.77		18O2-PFHxS_ISTD	6.550	31872	5.5409	ng/ml			
13C2-6:2FTS	6.180	22488	70697.63		18O2-PFHxS_ISTD	6.550	31872	5.4386	ng/ml			
13C2-8:2FTS	7.100	22444	6765.35		18O2-PFHxS_ISTD	6.550	31872	5.4075	ng/ml			
13C2-PFDoA	8.146	100448	9563.32		13C2-PFDA_ISTD	7.290	66823	1.2031	ng/ml			
13C2-PFDA	7.290	66823	3592.77					1.3744	ng/ml			
13C2-PFHxA	5.162	84540	27457.23					2.7428	ng/ml			
13C2-PFTeDA	8.928	106651	17630.88		13C2-PFDA_ISTD	7.290	66823	1.1369	ng/ml			
13C4-PFOS	7.520	30739	40035.03					2.7886	ng/ml			
13C3-HFPODA	5.394	91326	355669.56		13C2-PFHxA_ISTD	5.162	84540	10.1107	ng/ml			
13C3-PFBS	5.205	53885	434399.68		18O2-PFHxS_ISTD	6.550	31872	2.4763	ng/ml			
13C3-PFHxS	6.551	35957	8513.86		18O2-PFHxS_ISTD	6.550	31872	2.4404	ng/ml			
NEtFOSAA	7.434	2398	569.50		D5-NEtFOSAA_ISTD	7.498	68097	0.1809	ng/ml			
584.0 -> 526.0	7.433	1772	136.26	73.9								

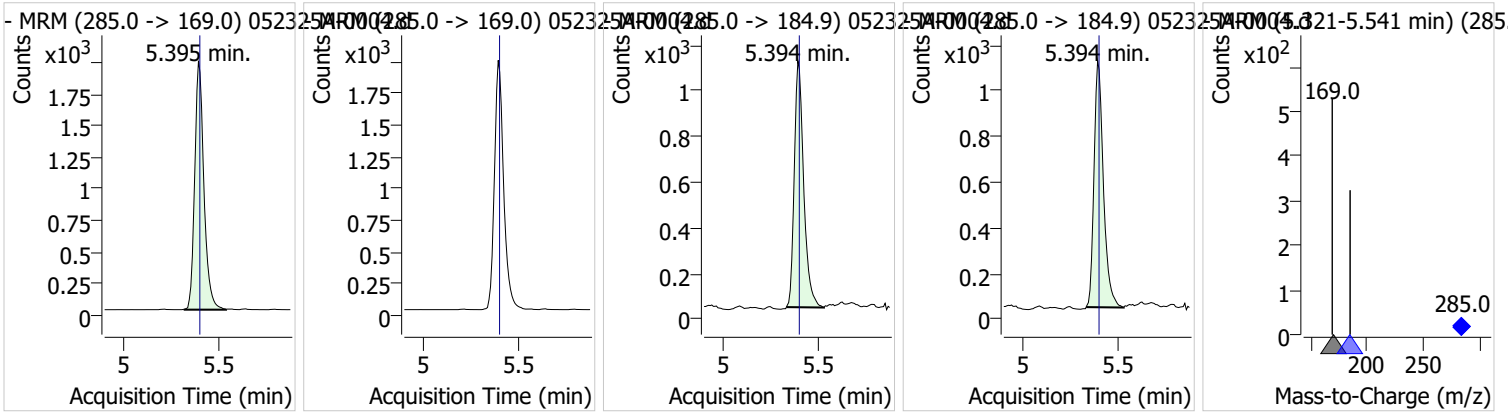
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	147847	44677.57		13C2-PFHxA_ISTD	5.162	84540	2.4627	ng/ml			
NMeFOSAA	7.247	1069	4064.77		D3-NMeFOSAA_ISTD	7.319	88736	0.1620	ng/ml			
570.0 -> 483.0	7.246	1193	252.81	111.6								
PFBA	2.594	13637	694.37		13C4-PFBA_ISTD	2.597	204808	0.6682	ng/ml			
13C5-PFHxA	5.161	89785	9168.37		13C2-PFHxA_ISTD	5.162	84540	2.3924	ng/ml			
PFBS	5.205	4236	790.19		13C3-PFBS_ISTD	5.205	53885	0.1491	ng/ml			
298.9 -> 98.8	5.213	1586	445.84	37.4								
NMeFOSA	10.073	1138	636.81		D3-NMeFOSA_ISTD	10.118	12787	0.1870	ng/ml			
512.0 -> 169.0	10.074	1519	559.02	133.4								
PFDA	7.290	10463	419.13		13C6-PFDA_ISTD	7.289	77472	0.1650	ng/ml			
513.0 -> 219.0	7.290	2103	6315.29	20.1								
PFDoA	8.146	15083	182.22		13C2-PFDoA_ISTD	8.146	100448	0.1667	ng/ml			
613.0 -> 319.0	8.147	1799	39747.47	11.9								
NEtFOSA	10.377	1399	558.89		D5-NEtFOSA_ISTD	10.405	15766	0.1814	ng/ml			
526.0 -> 169.0	10.377	1834	448.85	131.1								
PFHpA	5.839	11236	288.17		13C4-PFHpA_ISTD	5.839	147847	0.1694	ng/ml			
362.9 -> 169.0	5.839	1844	9627.59	16.4								
PFHxA	5.155	7340	120.65		13C5-PFHxA_ISTD	5.161	89785	0.1752	ng/ml			
313.0 -> 118.9	5.171	313	78.15	4.3								
NMeFOSE	9.899	10687	1539.22		D7-NMeFOSE_ISTD	9.957	125230	1.7337	ng/ml			
PFHxS	6.498	2782	608.88		13C3-PFHxS_ISTD	6.551	35957	0.1532	ng/ml			
398.9 -> 99.0	6.498	1395	314.02	50.1								
PFNA	6.789	8794	246.52		13C9-PFNA_ISTD	6.842	69101	0.1818	ng/ml			
463.0 -> 219.0	6.789	2386	381.49	27.1								
NEtFOSE	10.249	13227	1652.34		D9-NEtFOSE_ISTD	10.277	142103	1.7179	ng/ml			
PFOA	6.300	8281	181.09		13C8-PFOA_ISTD	6.368	101013	0.1735	ng/ml			
413.0 -> 169.0	6.300	2658	238.79	32.1								
PFOS	7.399	2963	222.84		13C8-PFOS_ISTD	7.519	29205	0.1716	ng/ml			
499.0 -> 99.0	7.402	1510	2182.55	51.0								
PFPeA	4.239	11418	1000.69		13C5-PFPeA_ISTD	4.237	150316	0.3374	ng/ml			
PFMPA	3.377	1219	243.45		13C4-PFBA_ISTD	2.597	204808	0.3442	ng/ml			
13C5-PFPeA	4.237	150316	6993.61		13C2-PFHxA_ISTD	5.162	84540	5.0205	ng/ml			
PFMBA	4.547	8771	2380.24		13C5-PFPeA_ISTD	4.237	150316	0.3513	ng/ml			
PFTrDA	8.550	18197	994.24		13C2-PFDoA_ISTD	8.146	100448	0.1722	ng/ml			
663.0 -> 168.9	8.551	1604	7219.85	8.8								
PFEESA	5.570	23271	13145.24		13C5-PFHxA_ISTD	5.161	89785	0.3242	ng/ml			
315.0 -> 83.0	5.571	1768	84.71	7.6								
13C6-PFDA	7.289	77472	23303.72		13C2-PFDA_ISTD	7.290	66823	1.2313	ng/ml			
NFDHA	5.066	1663	13110.51		13C5-PFHxA_ISTD	5.161	89785	0.3425	ng/ml			
295.0 -> 85.0	5.067	557	2279.40	33.5								
PFOSA	8.899	3257	1601.03		13C8-PFOSA_ISTD	8.959	41949	0.1765	ng/ml			
497.9 -> 478.0	8.902	79	75.08	2.4								
13C7-PFUnA	7.721	86319	2442.11		13C2-PFDA_ISTD	7.290	66823	1.2283	ng/ml			
13C4-PFOA	6.369	23604	7242.23					2.8547	ng/ml			
PFDS	8.398	2075	525.61		13C8-PFOS_ISTD	7.519	29205	0.1689	ng/ml			
599.0 -> 98.8	8.397	913	328.81	44.0								
PFNS	7.969	2555	1573.07		13C8-PFOS_ISTD	7.519	29205	0.1692	ng/ml			
549.0 -> 98.8	7.968	1276	4515.99	49.9								
PFPeS	5.971	3342	3369.96		13C3-PFHxS_ISTD	6.551	35957	0.1482	ng/ml			
349.0 -> 98.9	5.971	1603	1790.89	48.0								
PFTeDA	8.929	17974	395.29		13C2-PFTeDA_ISTD	8.928	106651	0.1826	ng/ml			

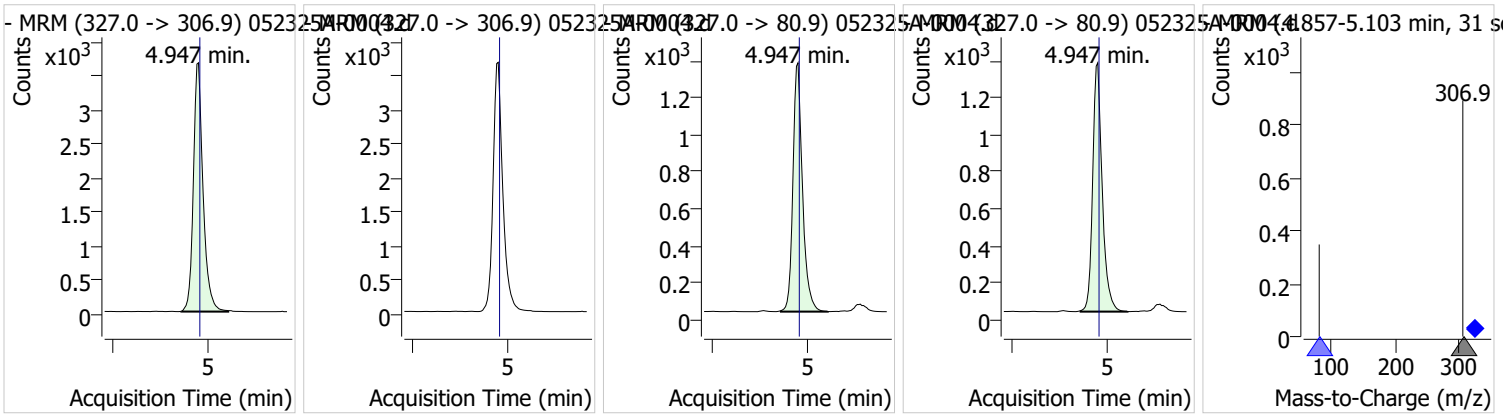
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.929	829	19470.66	4.6								
PFUnA	7.722	11299	188.72		13C7-PFUnA_ISTD	7.721	86319	0.1567	ng/ml			
563.0 -> 269.1	7.722	2030	10664.77	18.0								
13C3-PFBA	2.592	87435	3301.53					5.7574	ng/ml			
3:3FTCA	3.679	712	197.65		13C5-PFPeA_ISTD	4.237	150316	0.8370	ng/ml			
241.0 -> 117.0	3.673	389	21.06	54.7								
5:3FTCA	5.577	15597	27755.12		13C5-PFHxA_ISTD	5.161	89785	4.6545	ng/ml			
341.0 -> 217.0	5.577	13329	772.20	85.5								
7:3FTCA	6.754	15198	665.61		13C9-PFNA_ISTD	6.842	69101	4.1111	ng/ml			
441.0 -> 337.0	6.745	16616	4046.51	109.3								
13C5-PFNA	6.842	64615	12586.67					1.3663	ng/ml			
18O2-PFHxS	6.550	31872	9612.53					2.8058	ng/ml			
PFDoS	9.163	1467	558.11		13C8-PFOS_ISTD	7.519	29205	0.1777	ng/ml			
698.9 -> 99.0	9.162	771	683.34	52.6								
TDCA	6.023	44662	5318.59		13C8-PFOS_ISTD	7.519	29205	9.5949	ng/ml			
499.0 -> 124.0	6.023	77118	13363.80	172.7								
PFPrA	0.912	5361	1275.67		13C3-PFPrA_ISTD	0.907	94790	0.6436	ng/ml			
13C3-PFPrA	0.907	94790	44112.68		13C3-PFBA_ISTD	2.592	87435	10.0214	ng/ml			
TFSI	5.900	23680	339.04		13C3-HFPODA_ISTD	5.394	91326	0.3720	ng/ml			
279.9 -> 77.9	5.892	16385	37209.66	69.2								
13C8-PFOA	6.368	101013	69792.53		13C4-PFOA_ISTD	6.369	23604	2.2841	ng/ml			
13C8-PFOS	7.519	29205	8354.45		13C4-PFOS_ISTD	7.520	30739	2.4294	ng/ml			
13C8-PFOSA	8.959	41949	11544.69		13C4-PFOS_ISTD	7.520	30739	2.4267	ng/ml			
13C9-PFNA	6.842	69101	4546.32		13C5-PFNA_ISTD	6.842	64615	1.2104	ng/ml			
D3-NMeFOSA	10.118	12787	933.35		13C4-PFOS_ISTD	7.520	30739	2.3217	ng/ml			
D3-NMeFOSAA	7.319	88736	25656.99		13C4-PFOS_ISTD	7.520	30739	4.6412	ng/ml			
D5-NEtFOSA	10.405	15766	5323.86		13C4-PFOS_ISTD	7.520	30739	2.3813	ng/ml			
D5-NEtFOSAA	7.498	68097	1003.04		13C4-PFOS_ISTD	7.520	30739	4.6898	ng/ml			
D7-NMeFOSE	9.957	125230	34875.42		13C4-PFOS_ISTD	7.520	30739	23.6848	ng/ml			
D9-NEtFOSE	10.277	142103	41014.66		13C4-PFOS_ISTD	7.520	30739	24.2031	ng/ml			

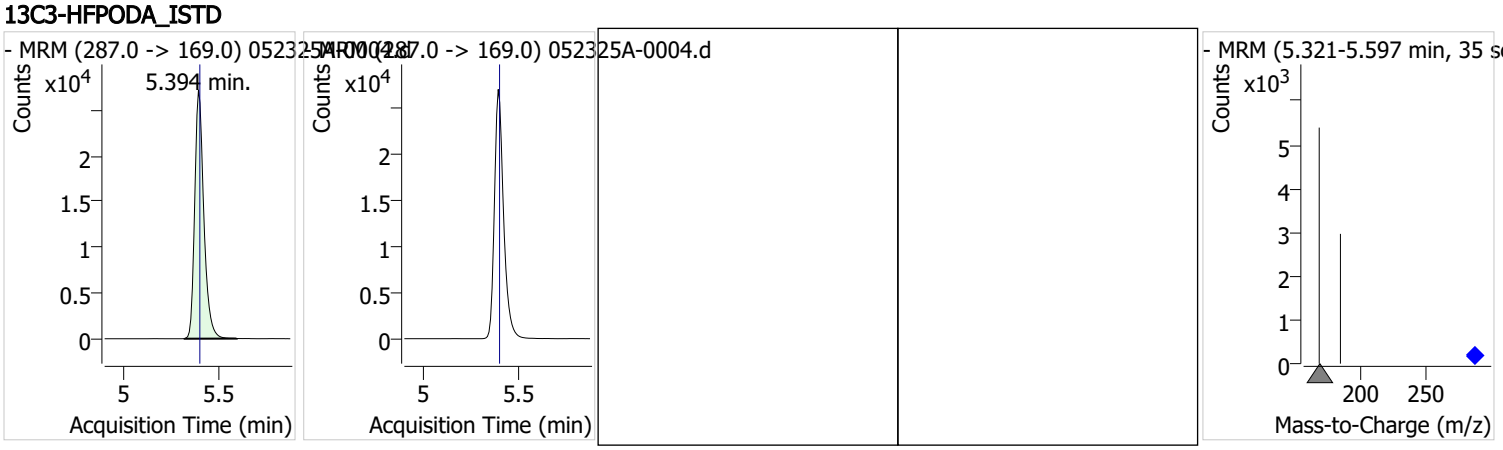
HFPO-DA



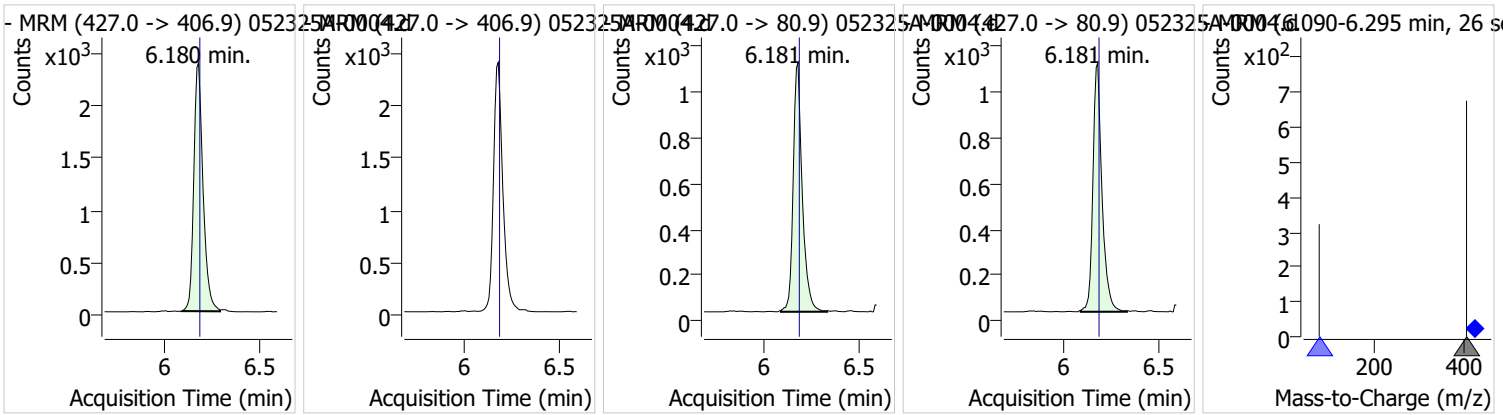
4:2FTS



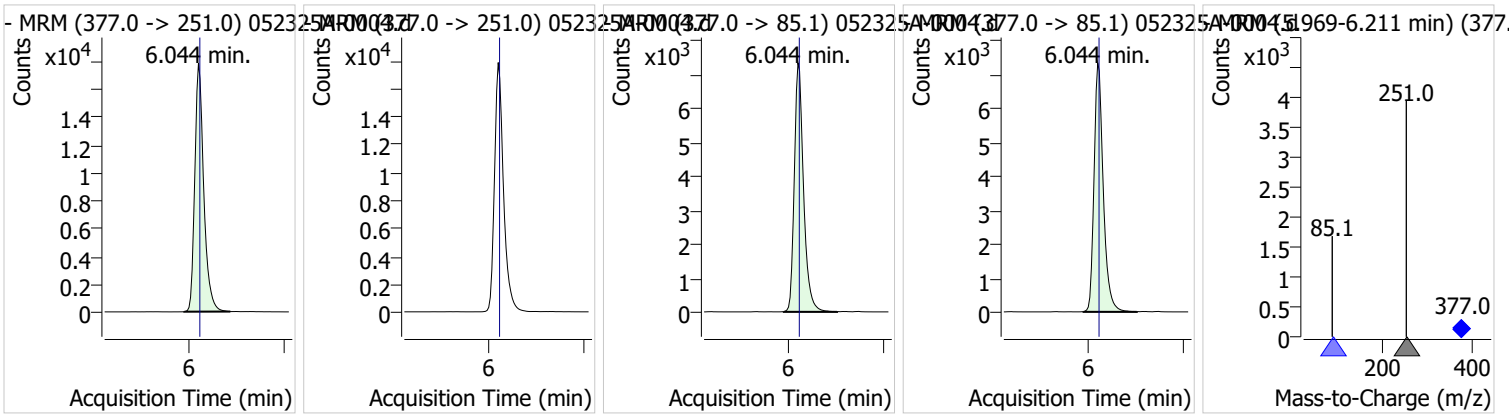
13C3-HFPODA_ISTD



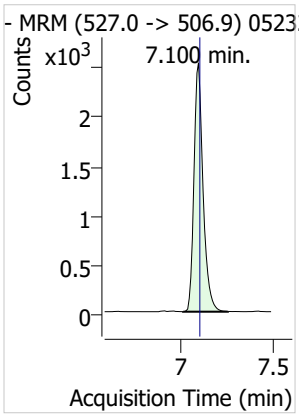
6:2FTS

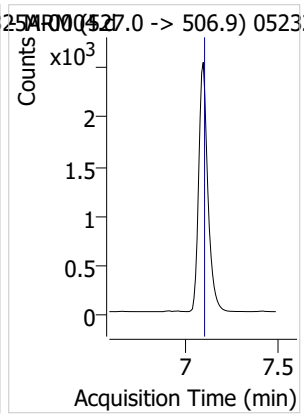


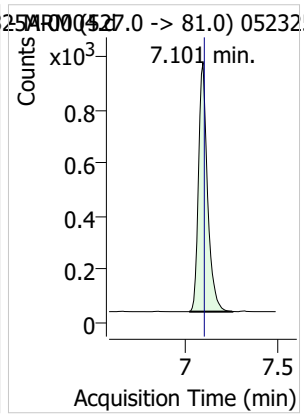
ADONA

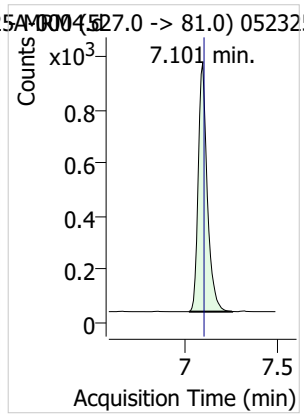


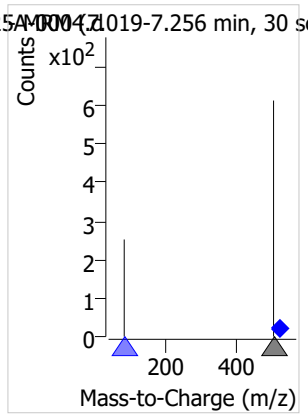
8:2FTS



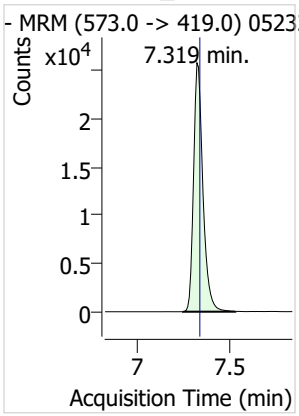


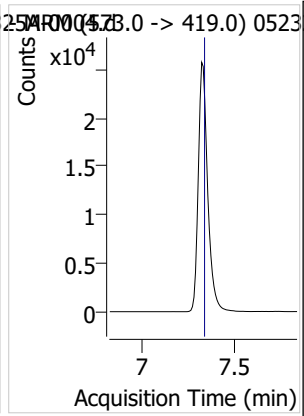


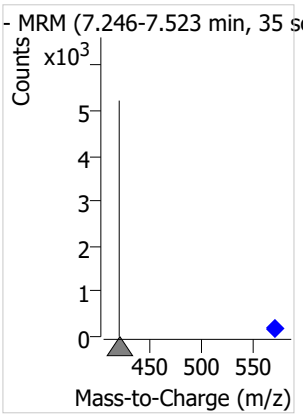




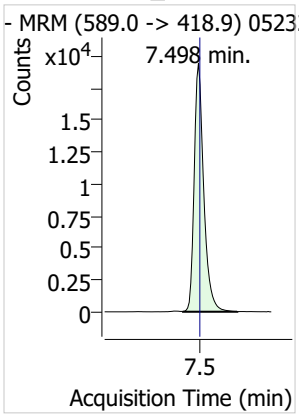
D3-NMeFOSAA_ISTD

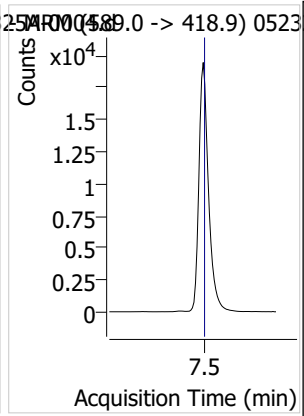


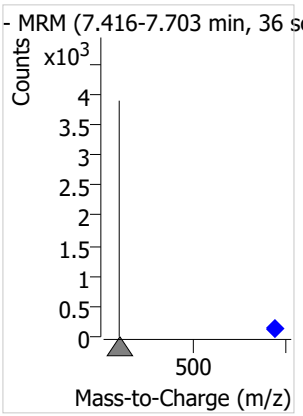




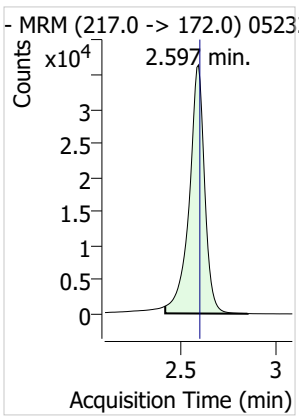
D5-NEtFOSAA_ISTD

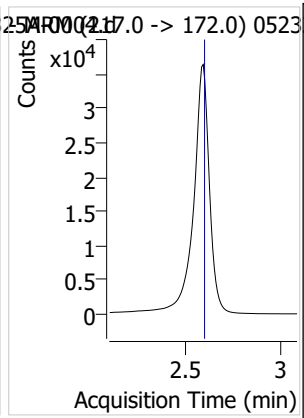


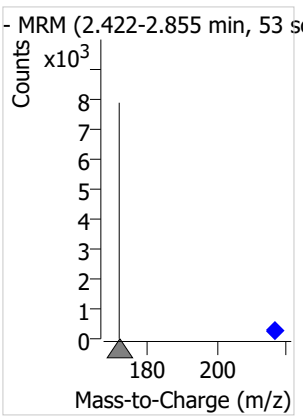




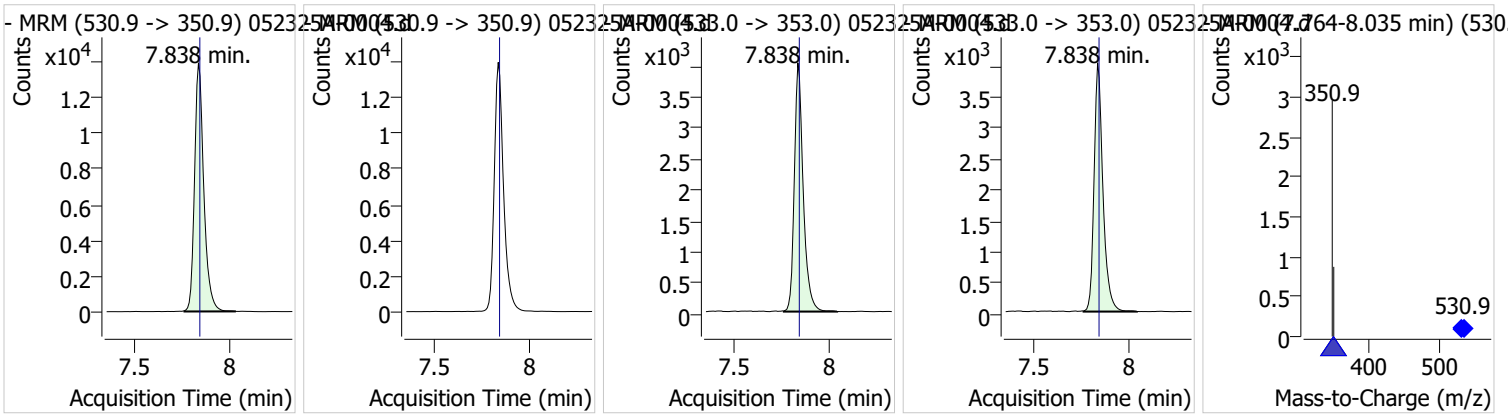
13C4-PFBA



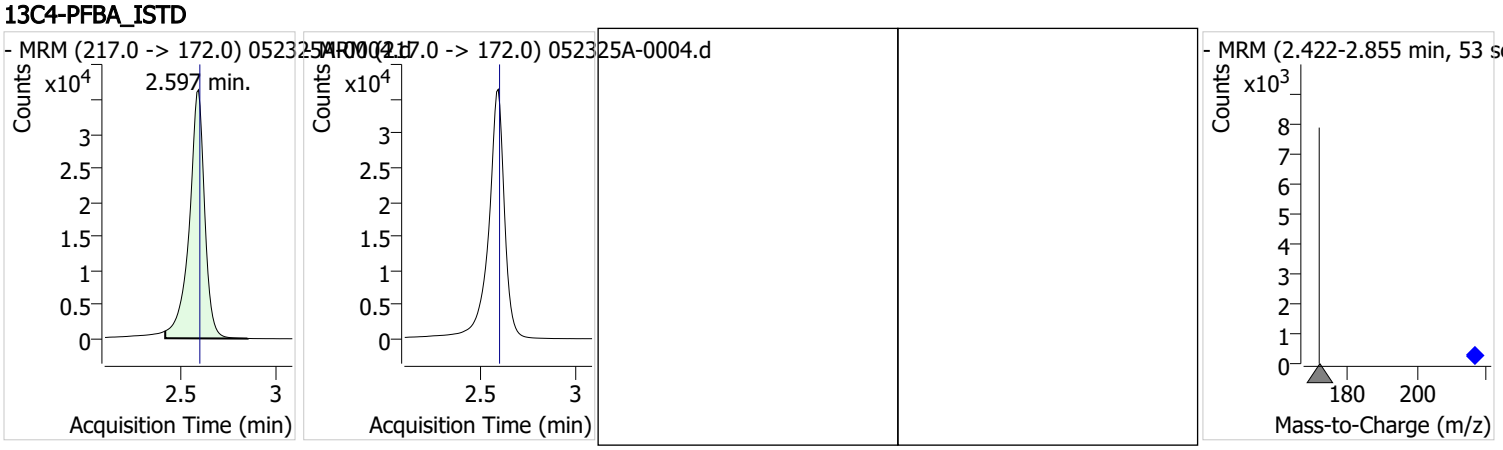




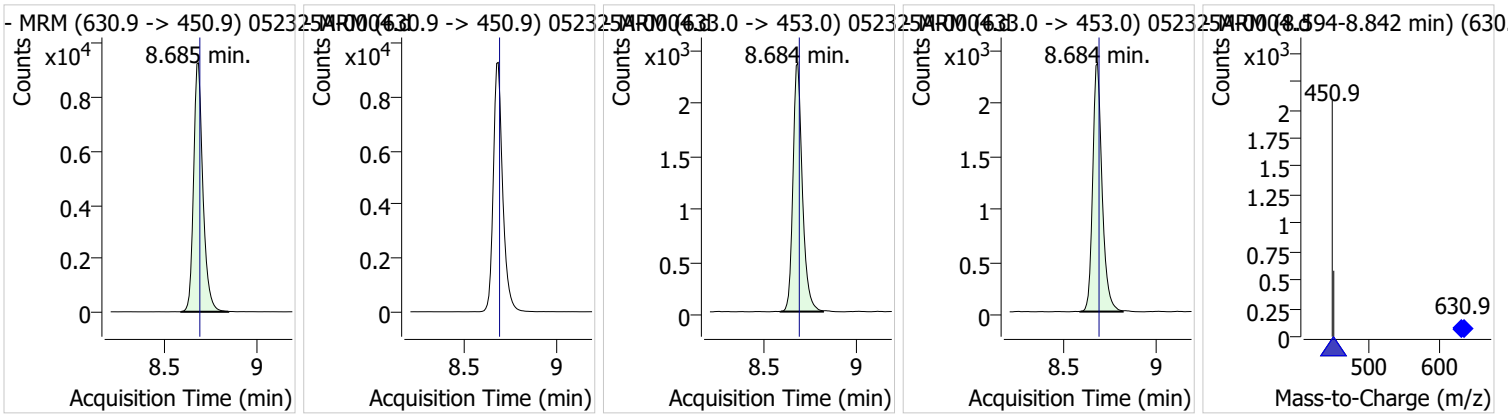
9Cl-PF3ONS



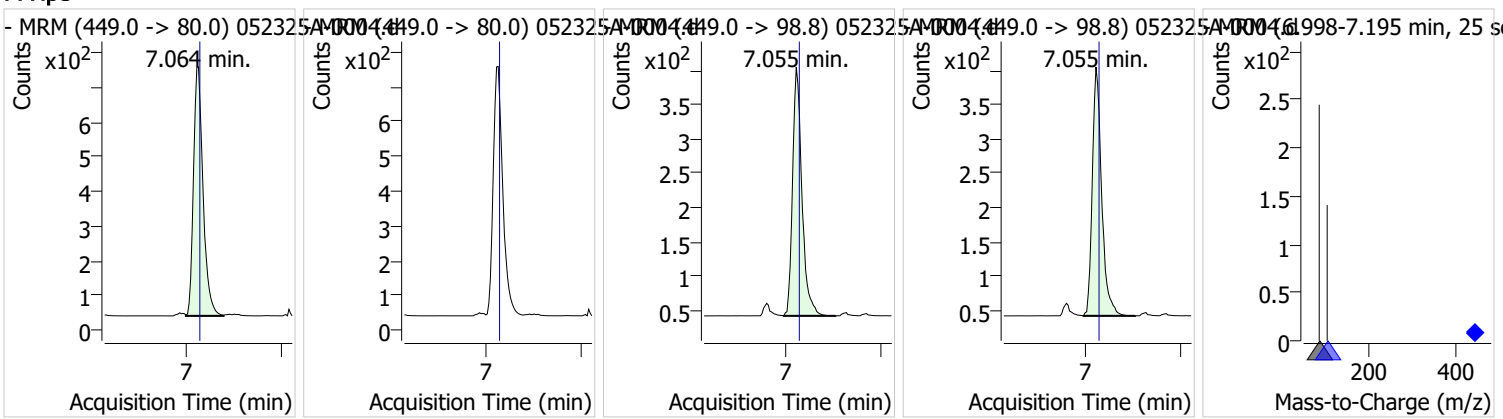
13C4-PFBA_ISTD



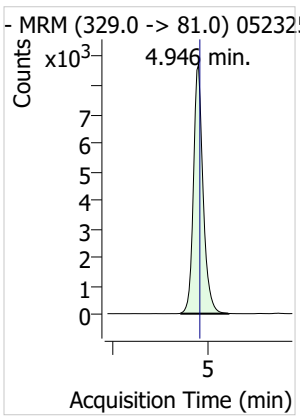
11Cl-PF3OUdS

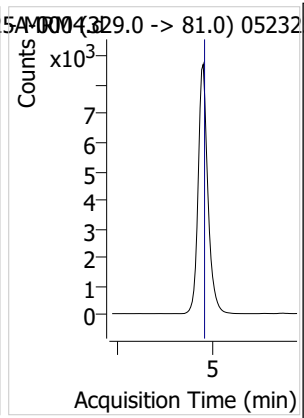


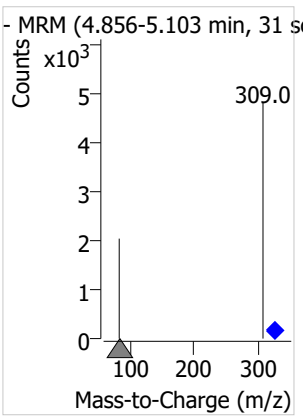
PFHpS



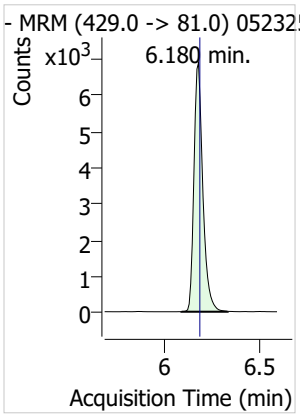
13C2-4:2FTS

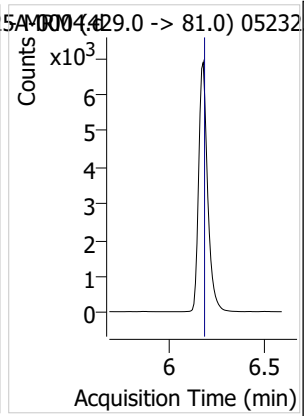


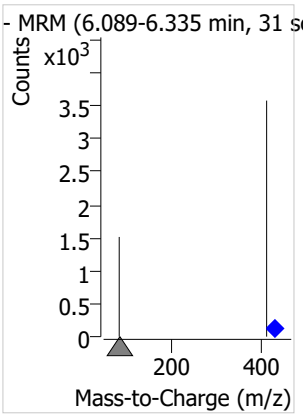




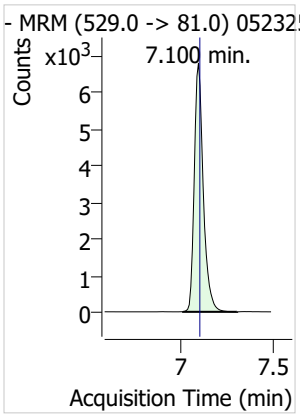
13C2-6:2FTS

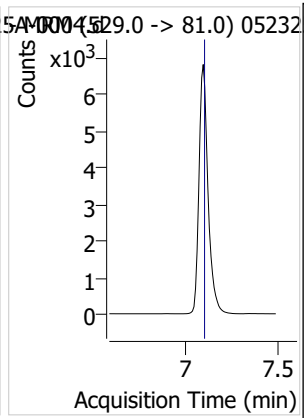


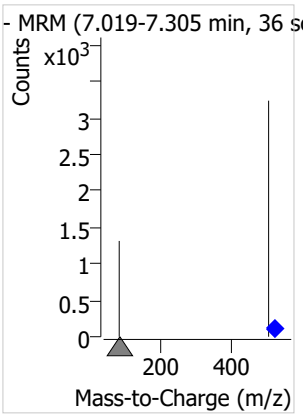




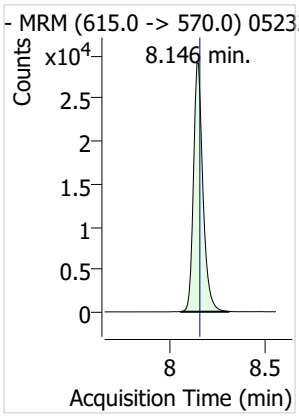
13C2-8:2FTS

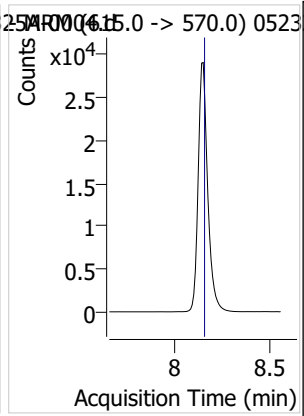


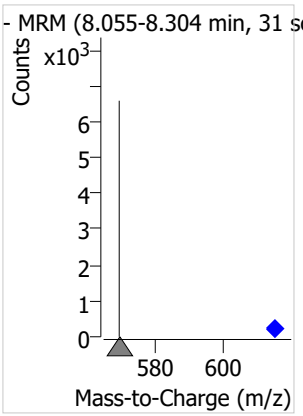




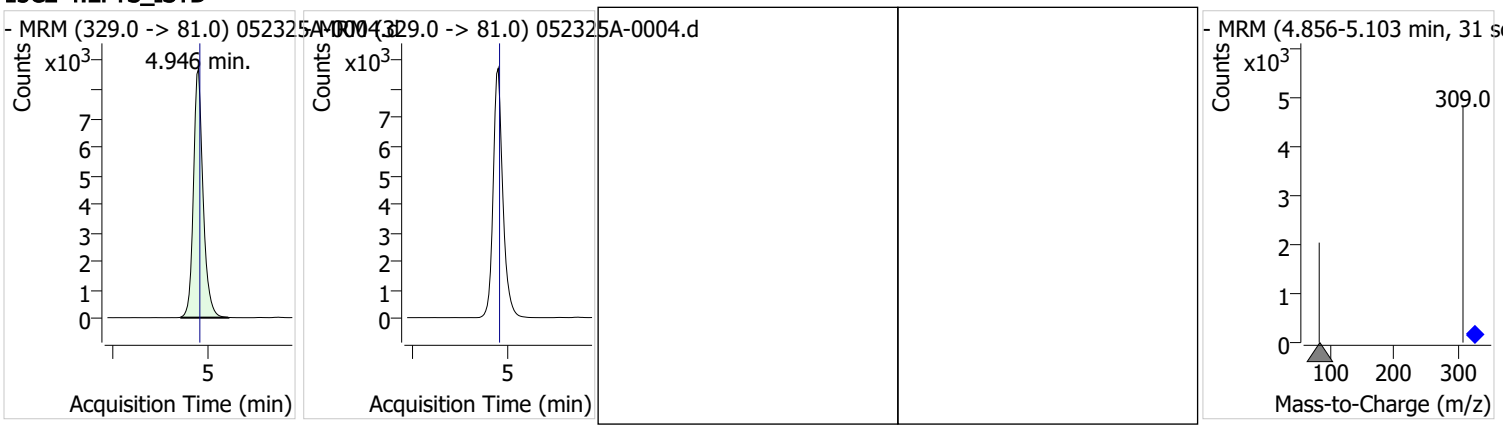
13C2-PFDoA



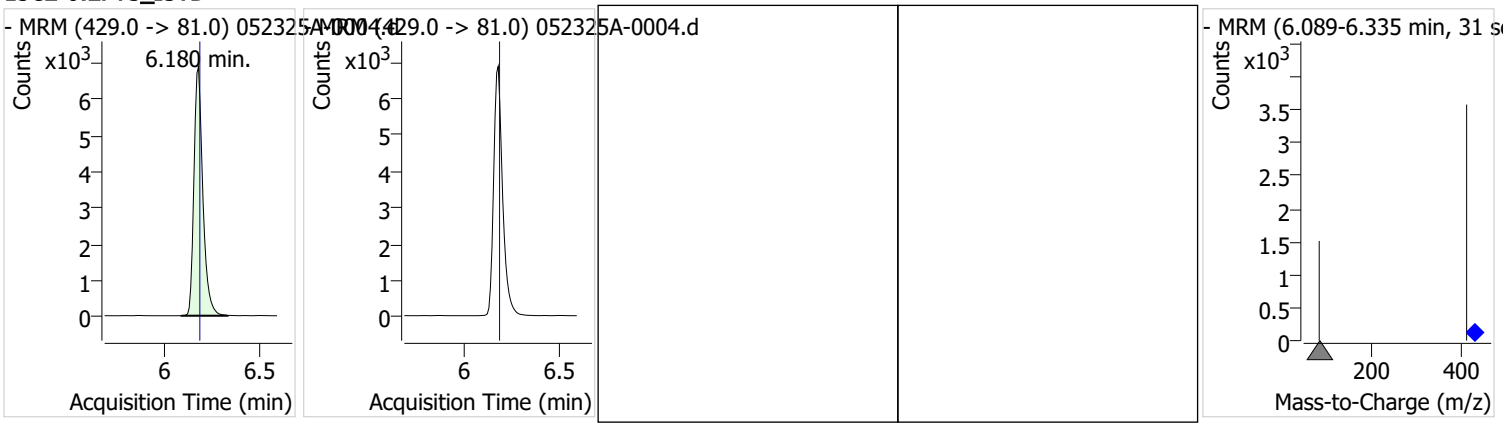




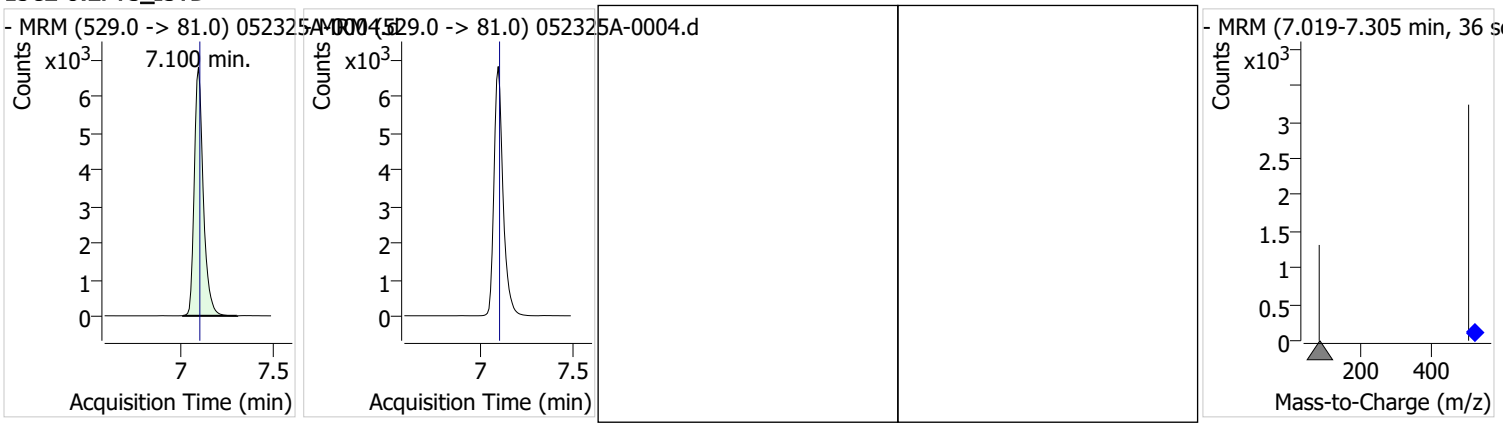
13C2-4:2FTS_ISTD



13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



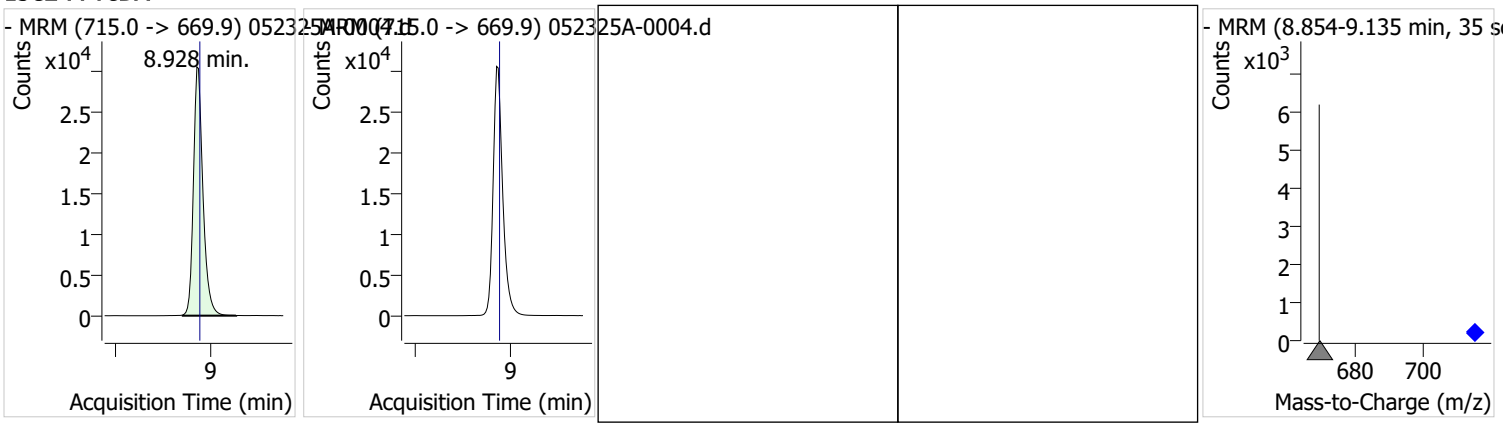
13C2-PFDA



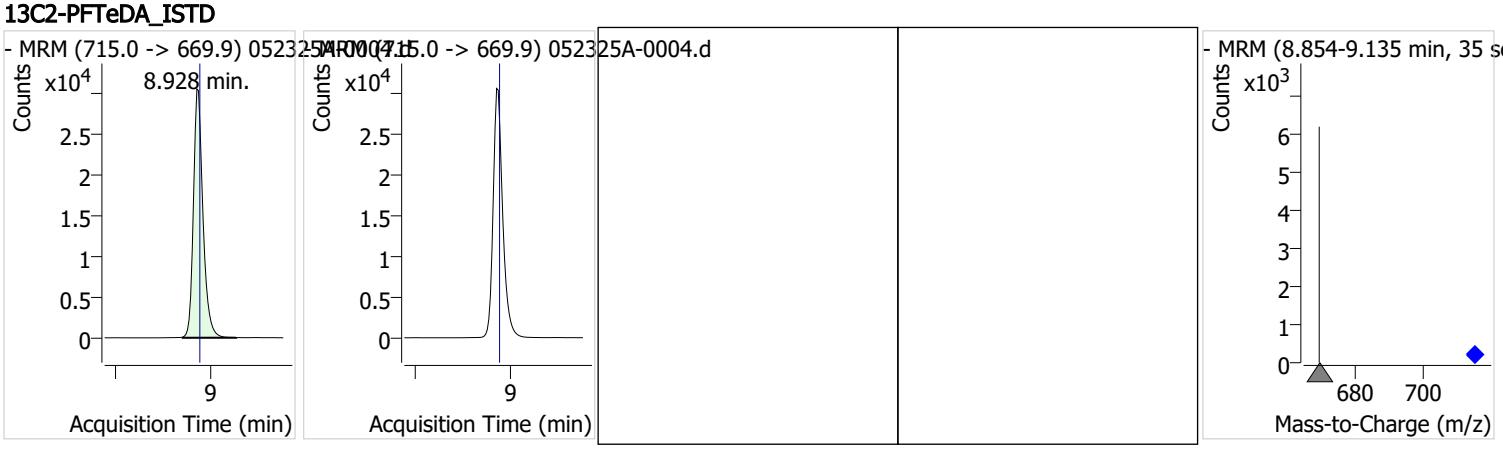
13C2-PFHxA



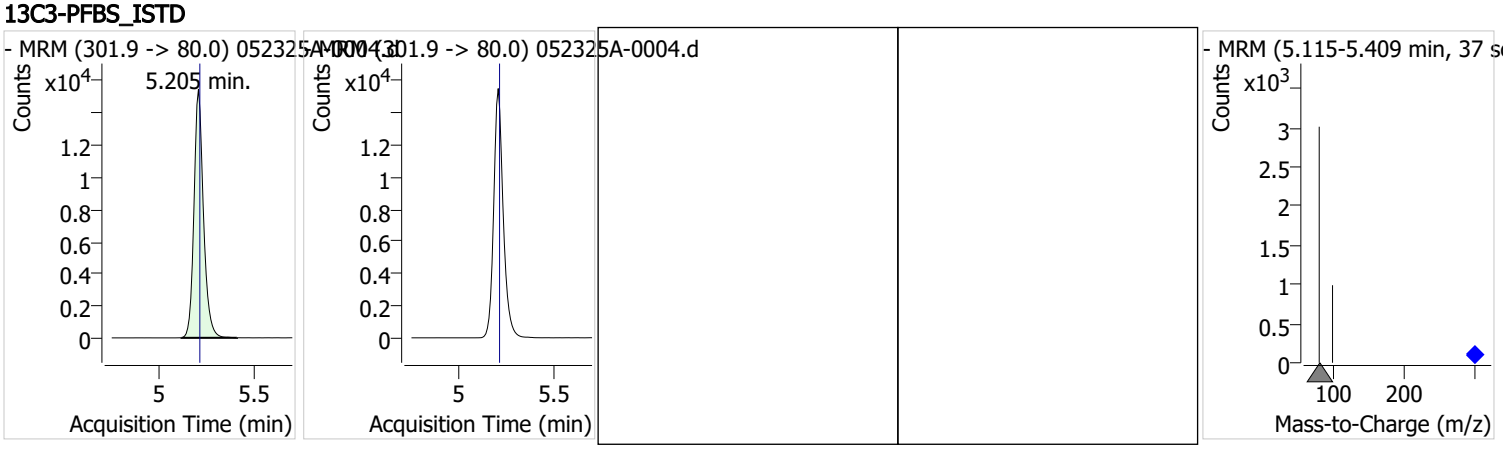
13C2-PFTeDA



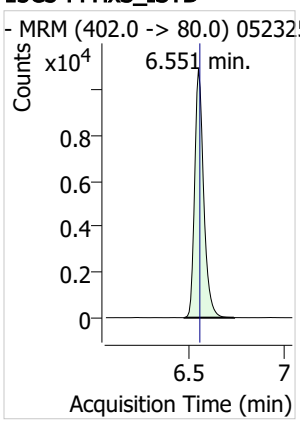
13C2-PFTeDA_ISTD

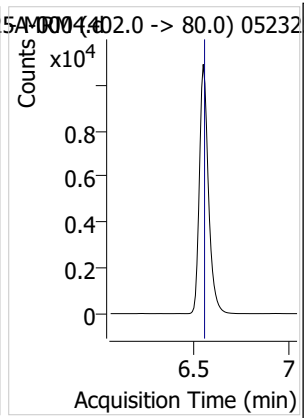


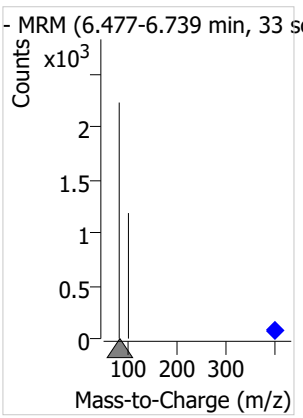
13C3-PFBS_ISTD



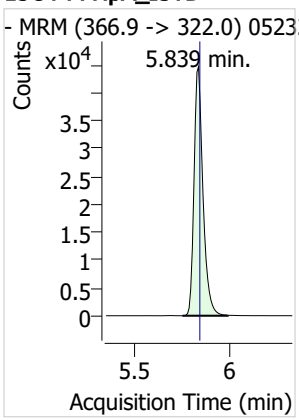
13C3-PFHxS_ISTD

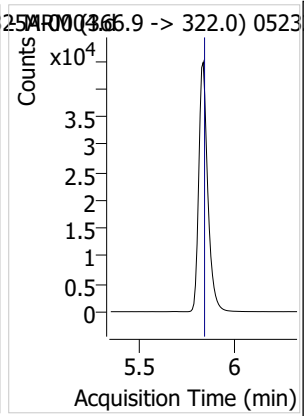


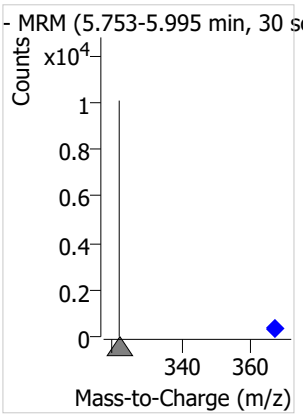




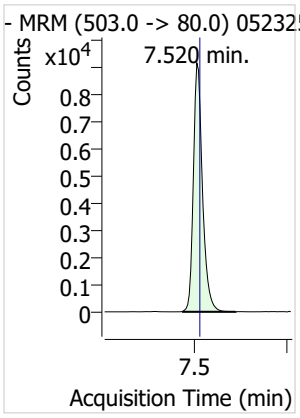
13C4-PFHpA_ISTD

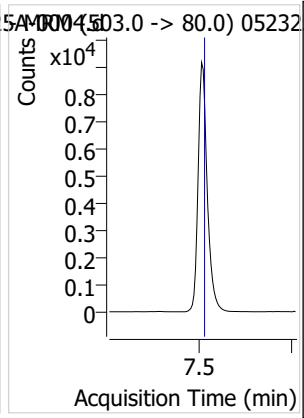


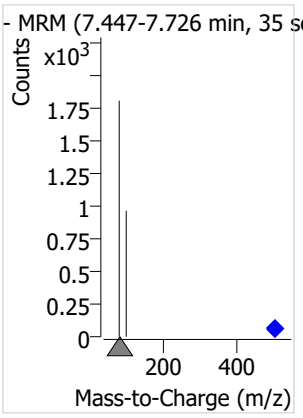




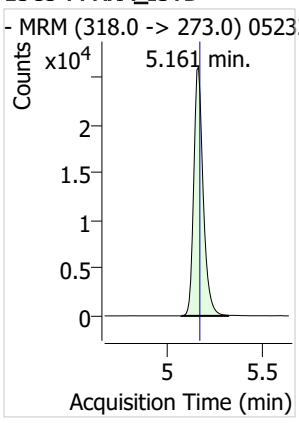
13C4-PFOS

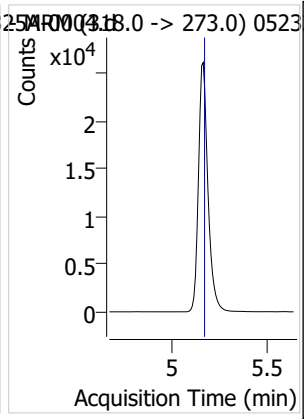


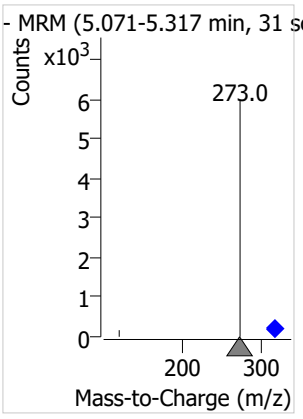




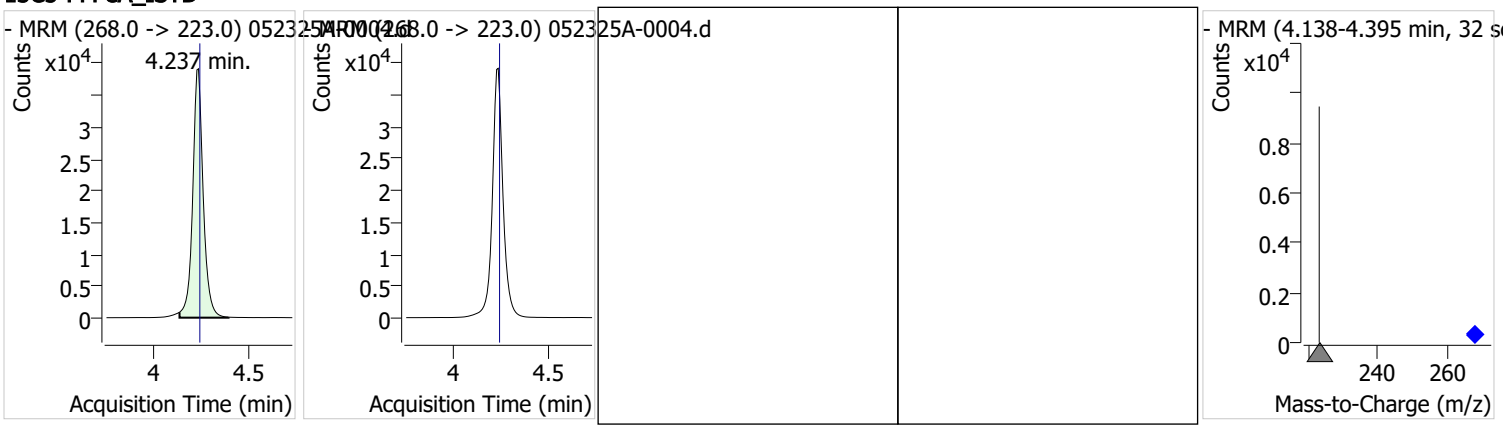
13C5-PFHxA_ISTD



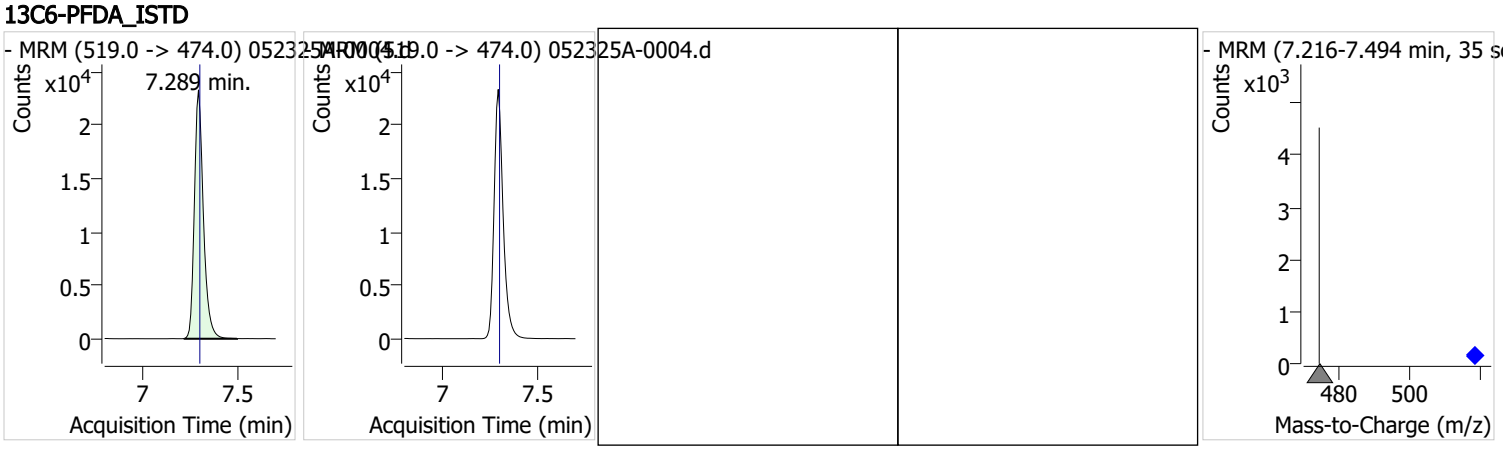




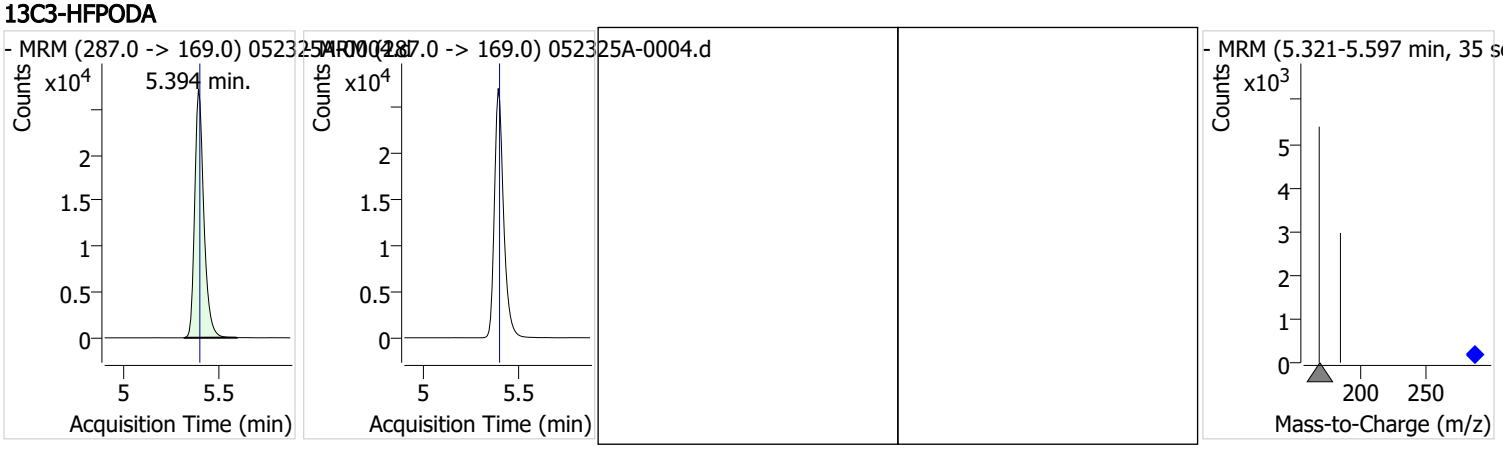
13C5-PFPeA_ISTD



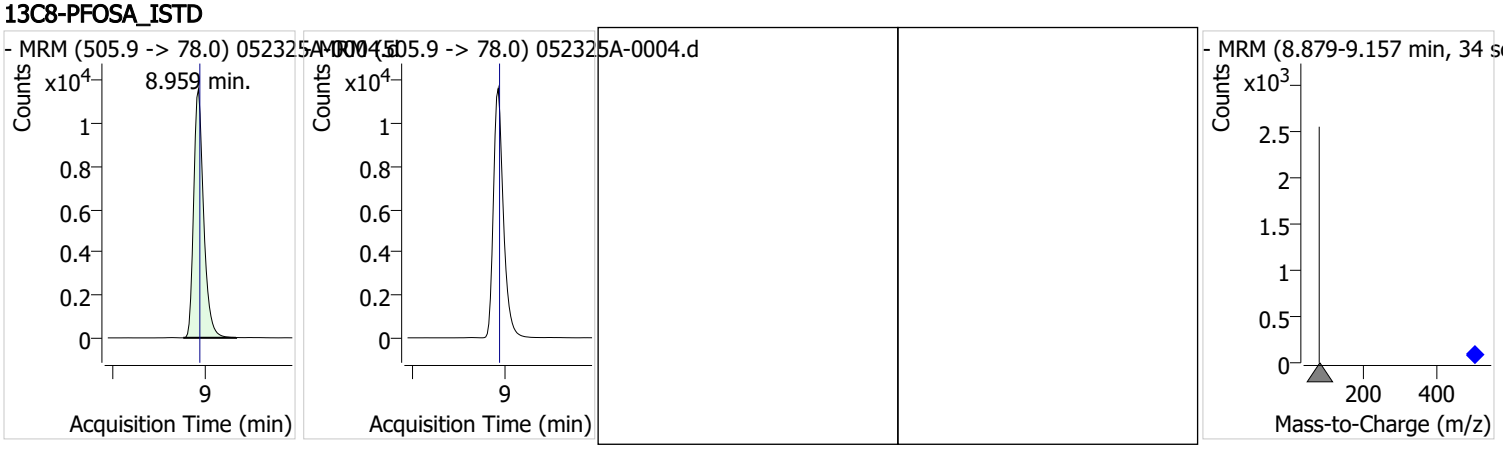
13C6-PFDA_ISTD



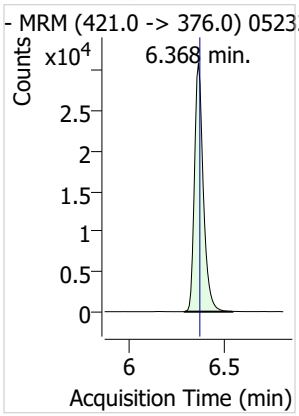
13C3-HFPODA

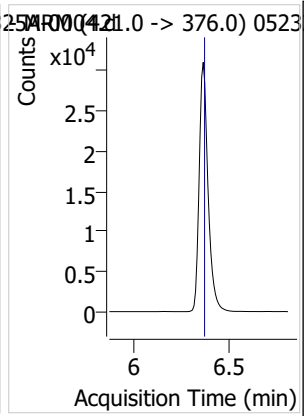


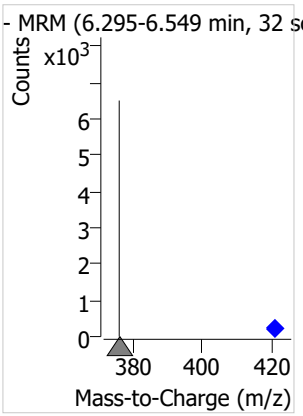
13C8-PFOSA_ISTD



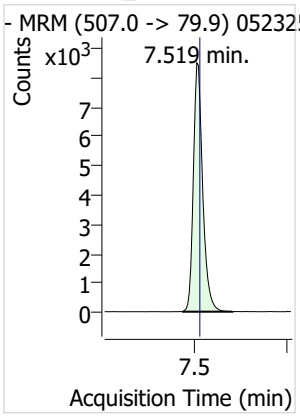
13C8-PFOA_ISTD

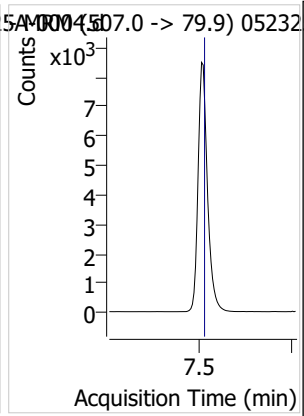


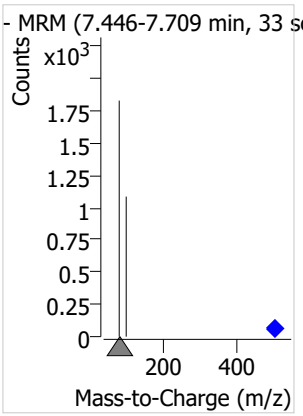




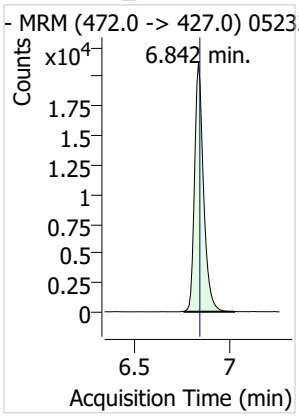
13C8-PFOS_ISTD

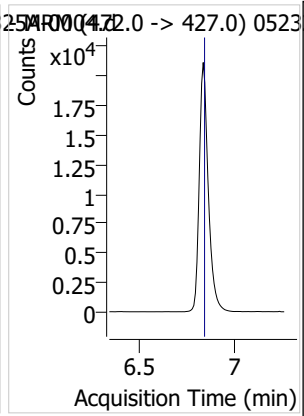


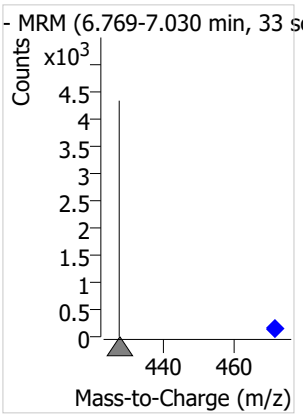




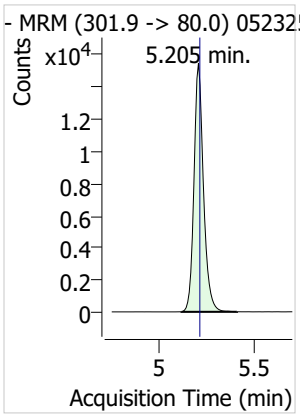
13C9-PFNA_ISTD

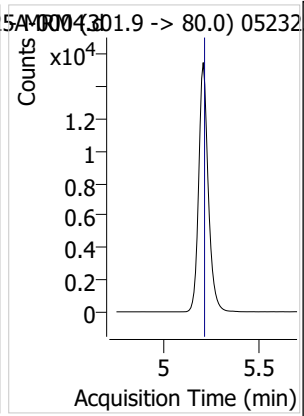


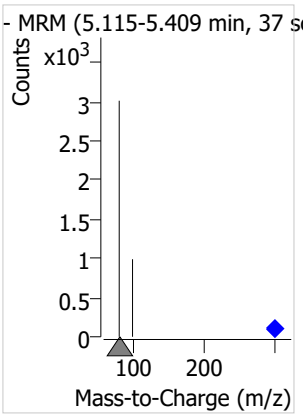




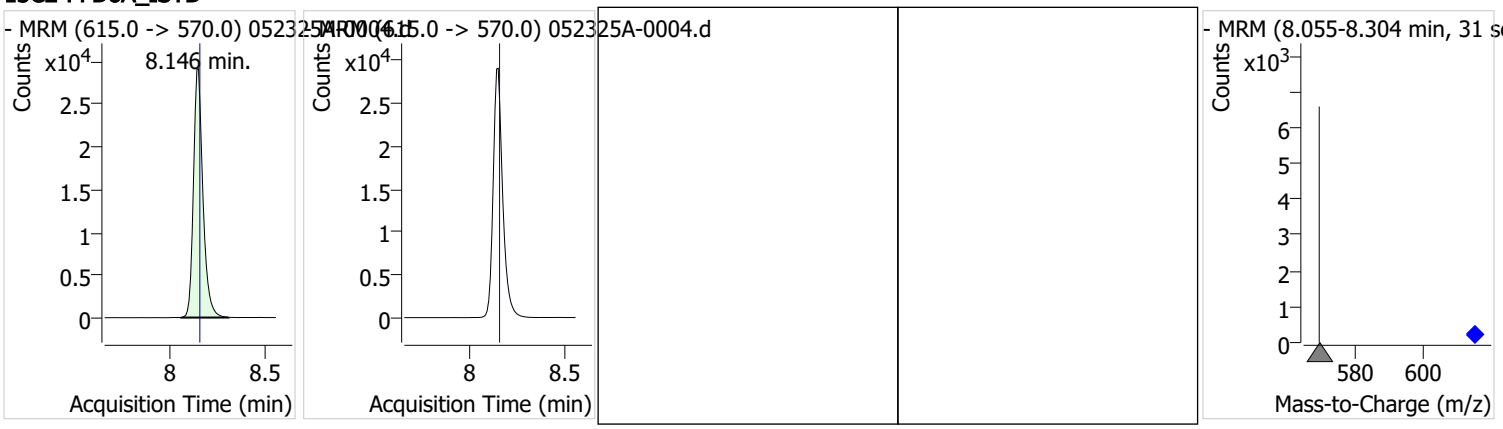
13C3-PFBS



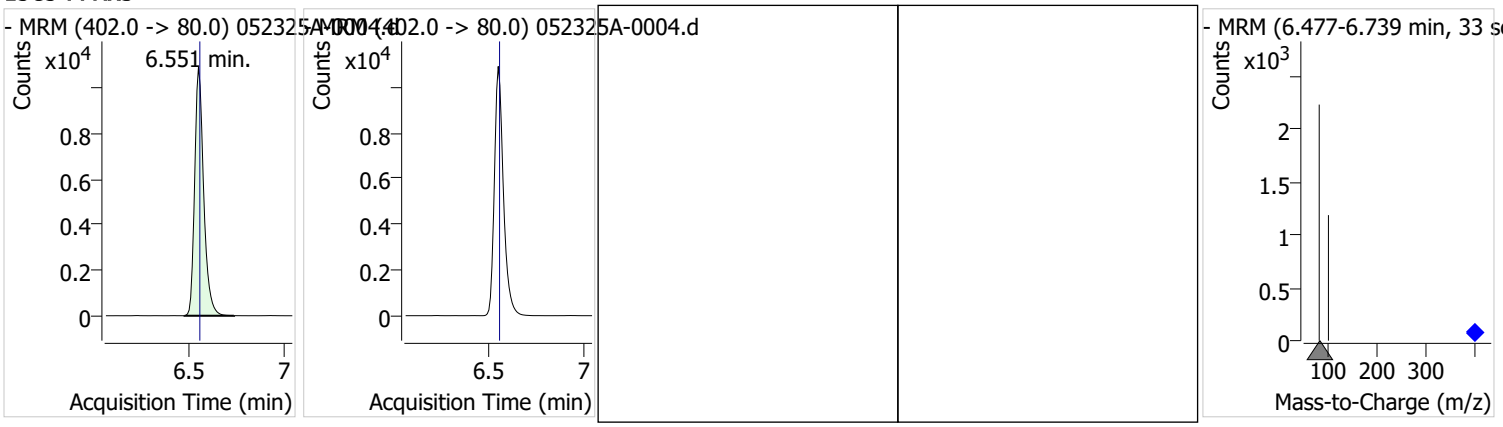




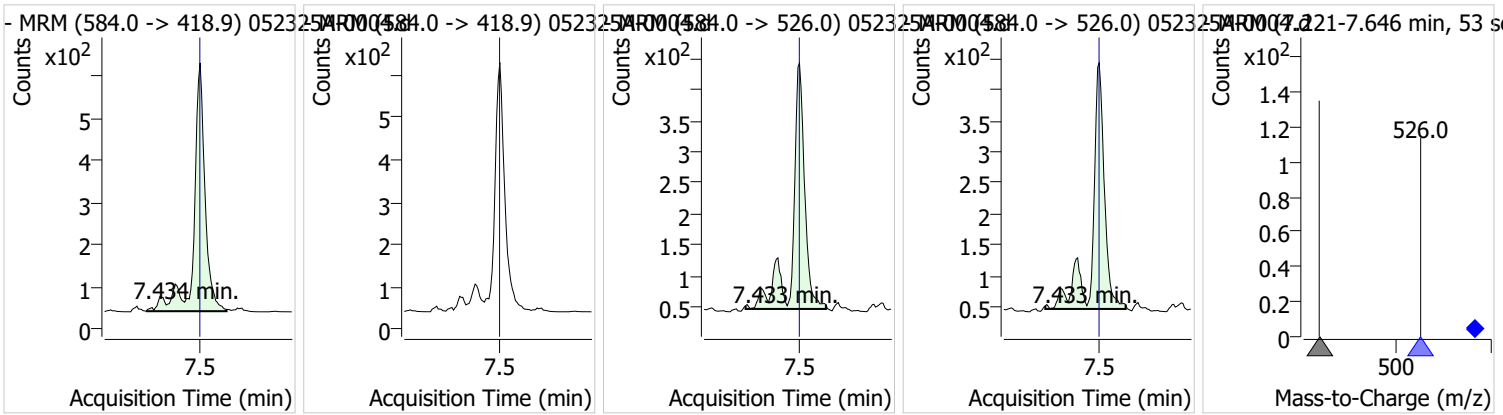
13C2-PFDoA_ISTD



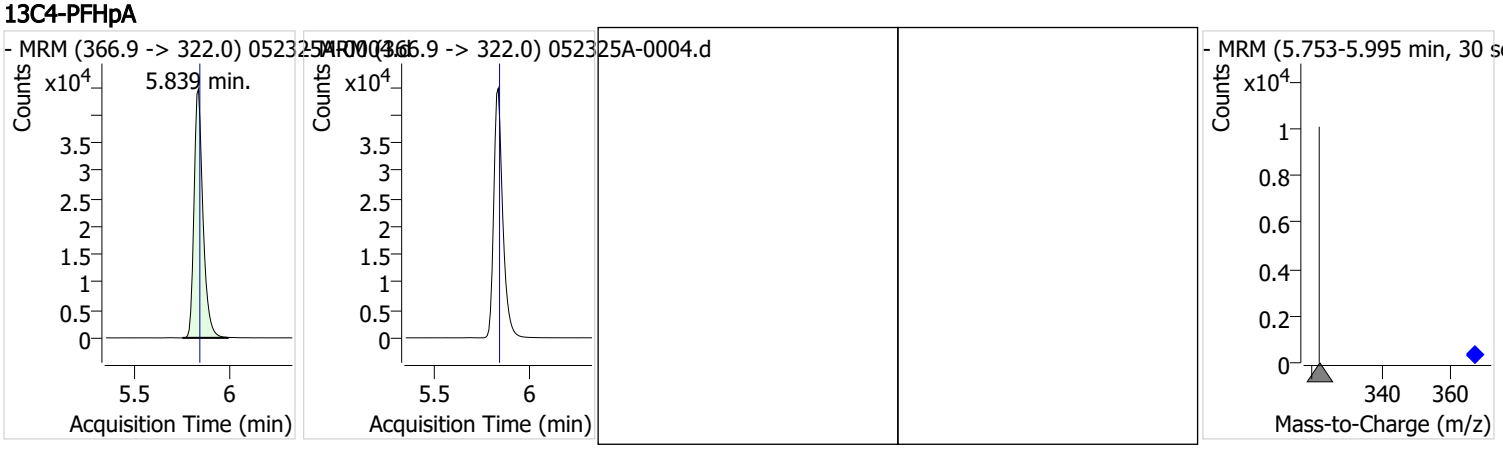
13C3-PFHxS



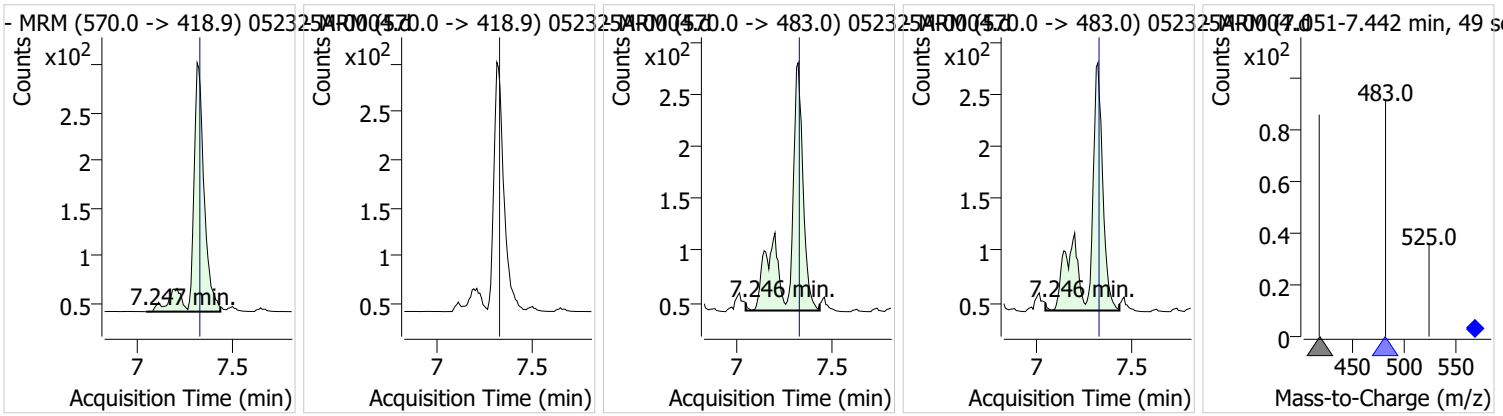
NEtFOSAA



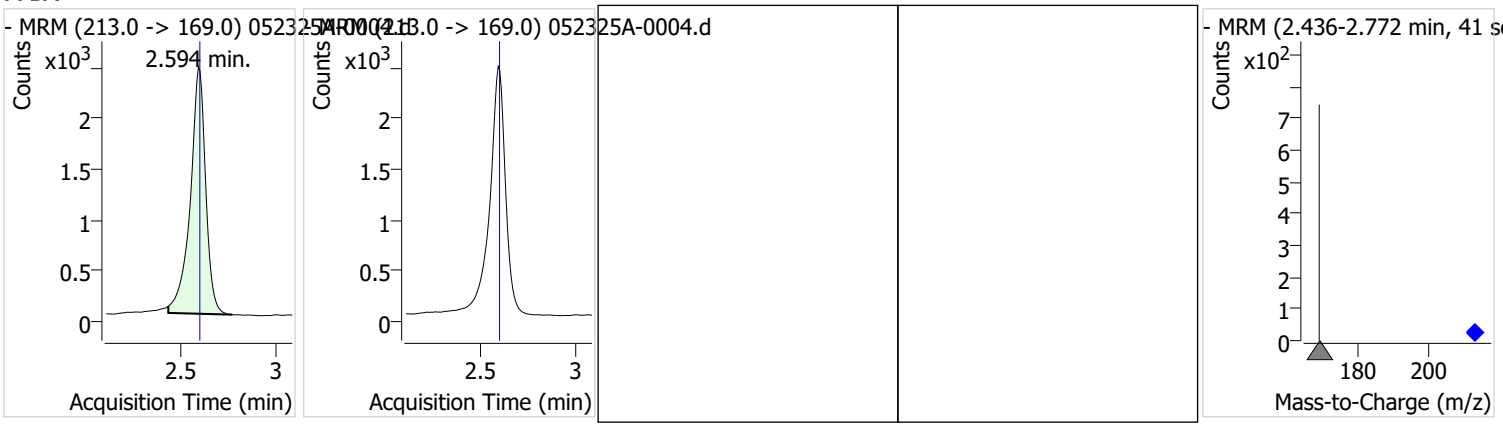
13C4-PFHpA



NMeFOSAA



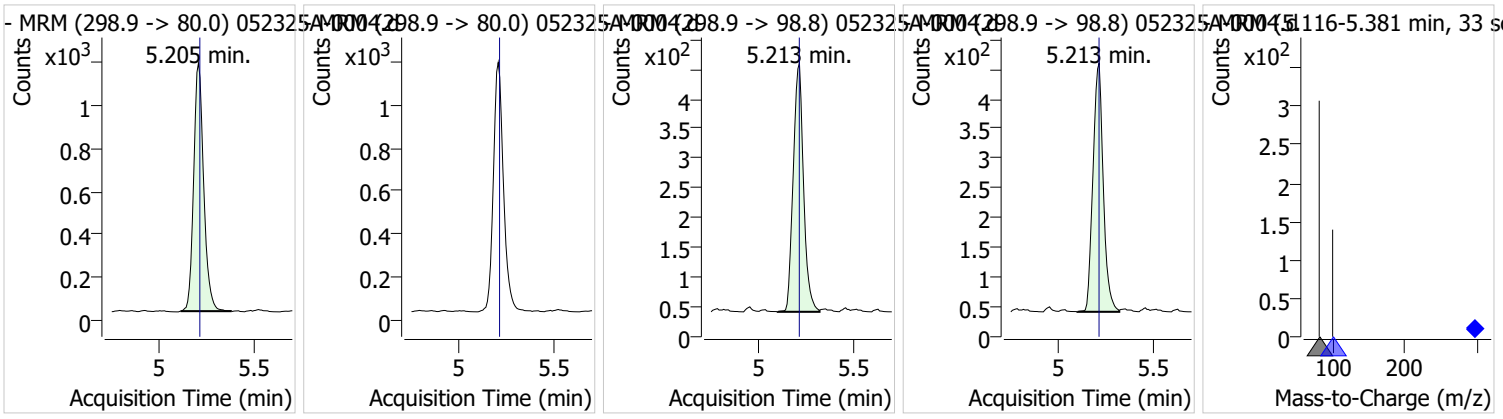
PFBA



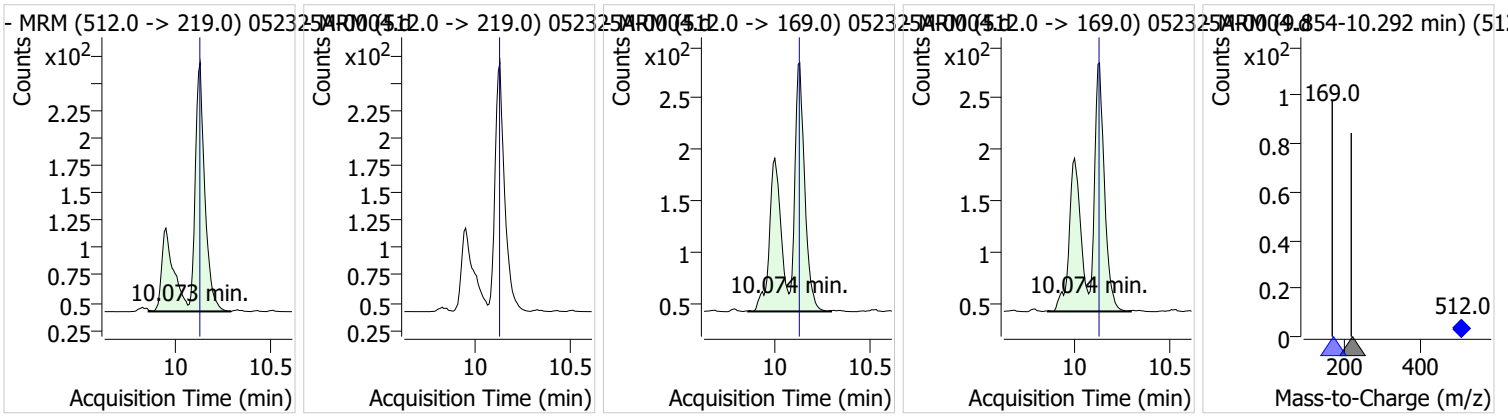
13C5-PFHxA



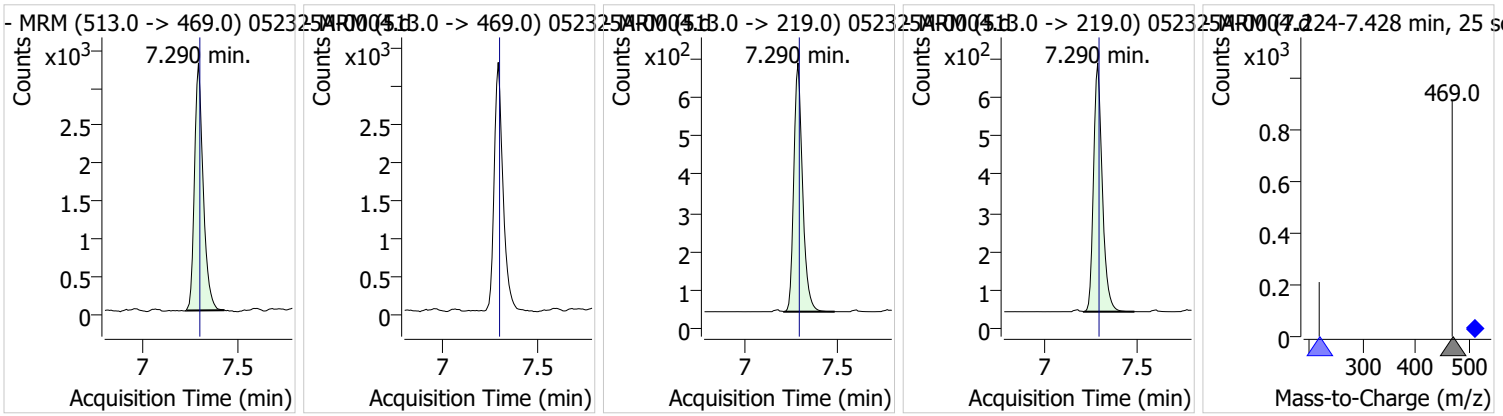
PFBS



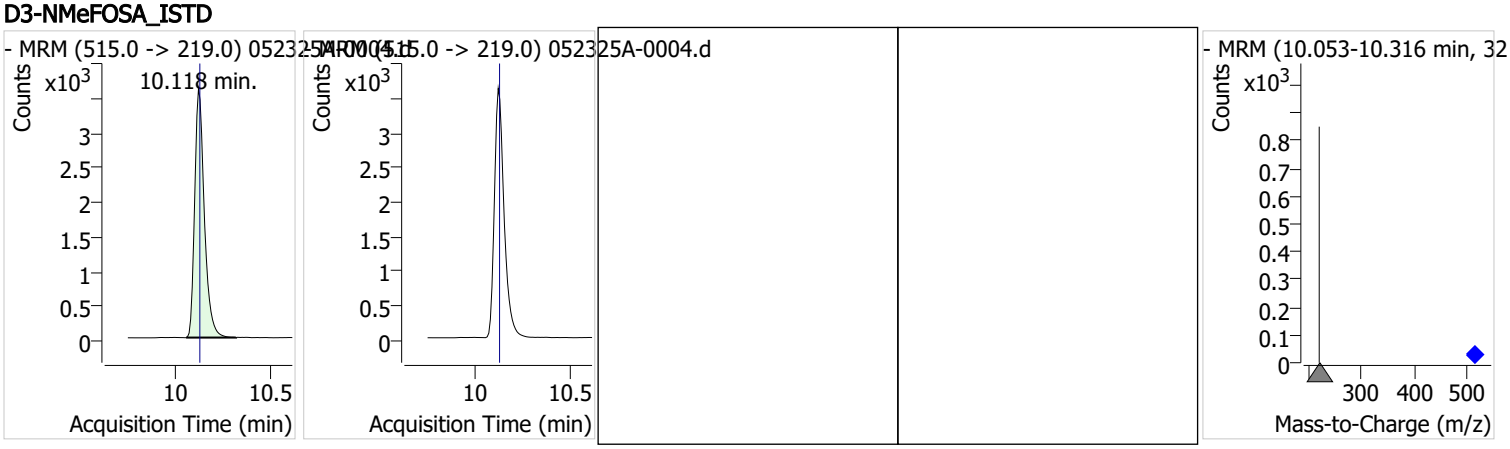
NMeFOSA



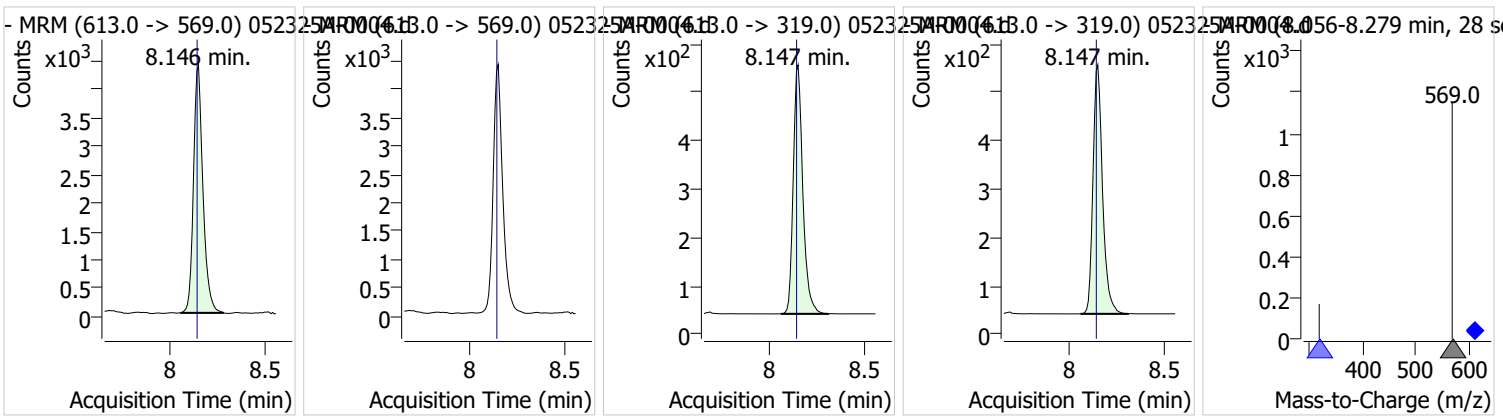
PFDA



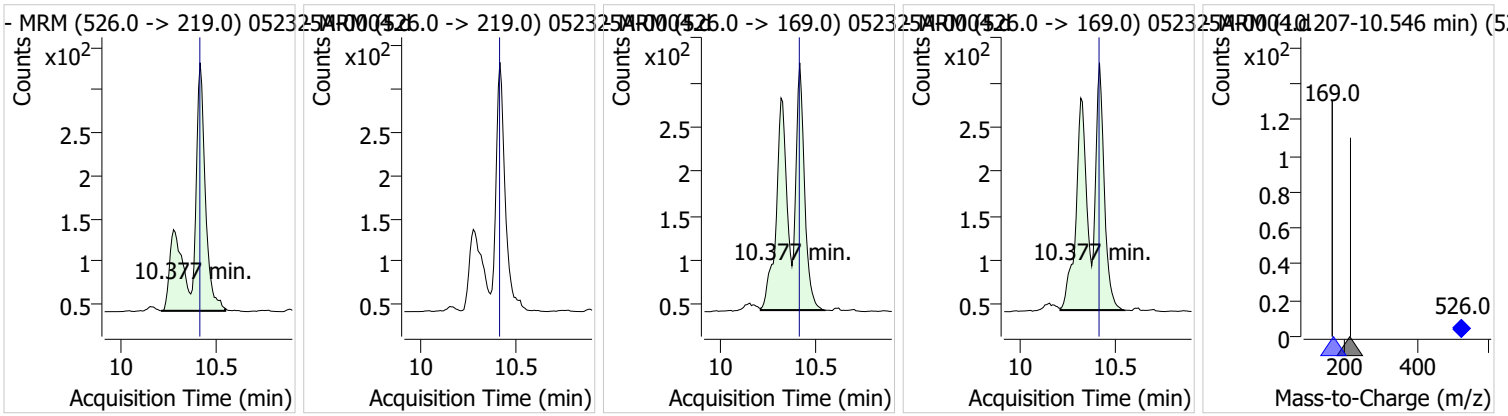
D3-NMeFOSA_ISTD



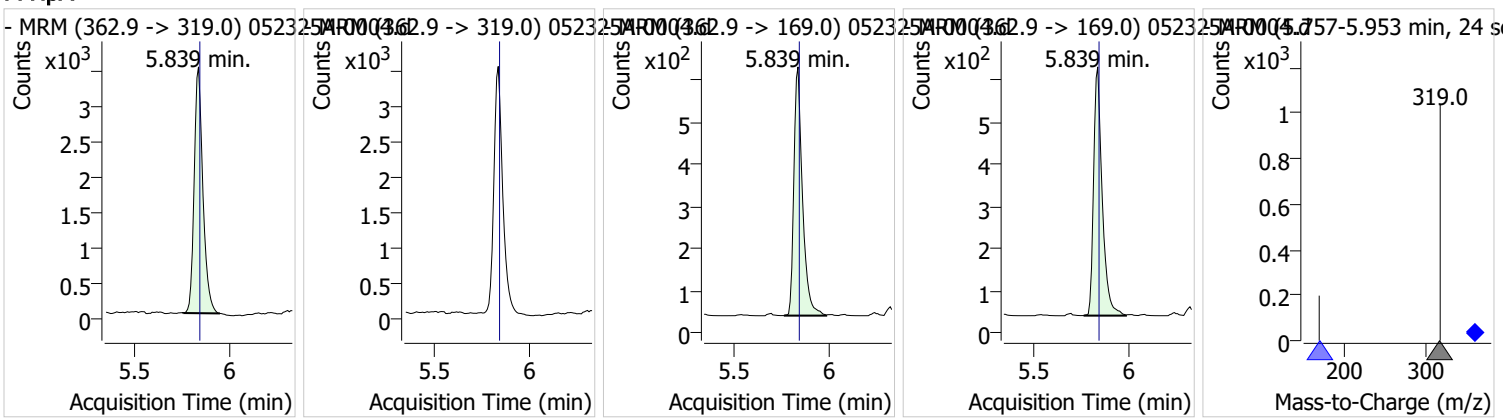
PFDoA



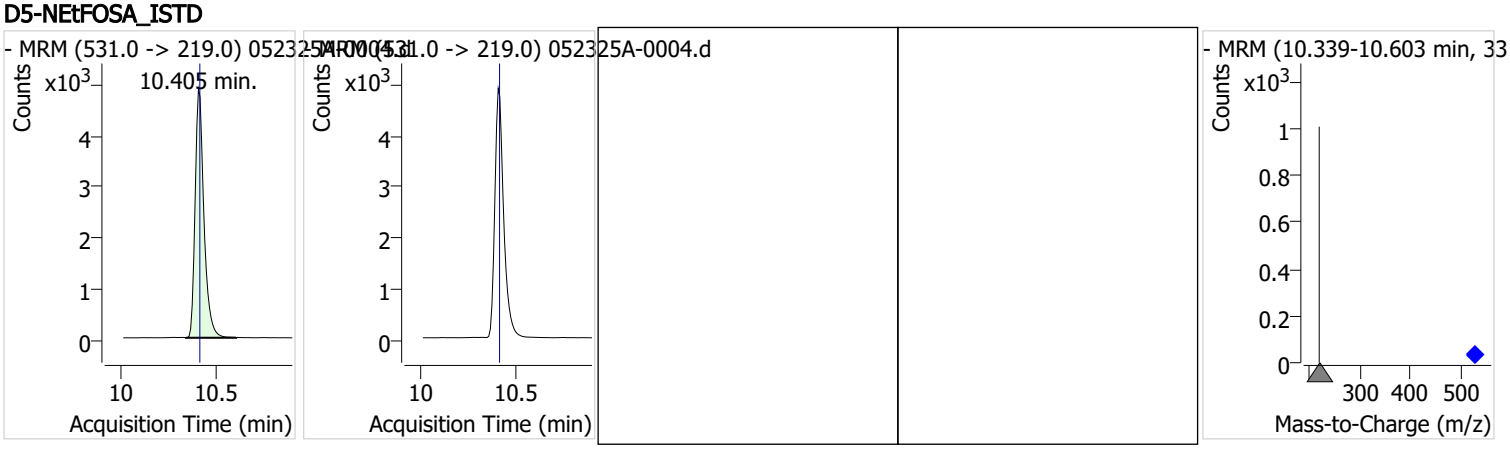
NEtFOSA



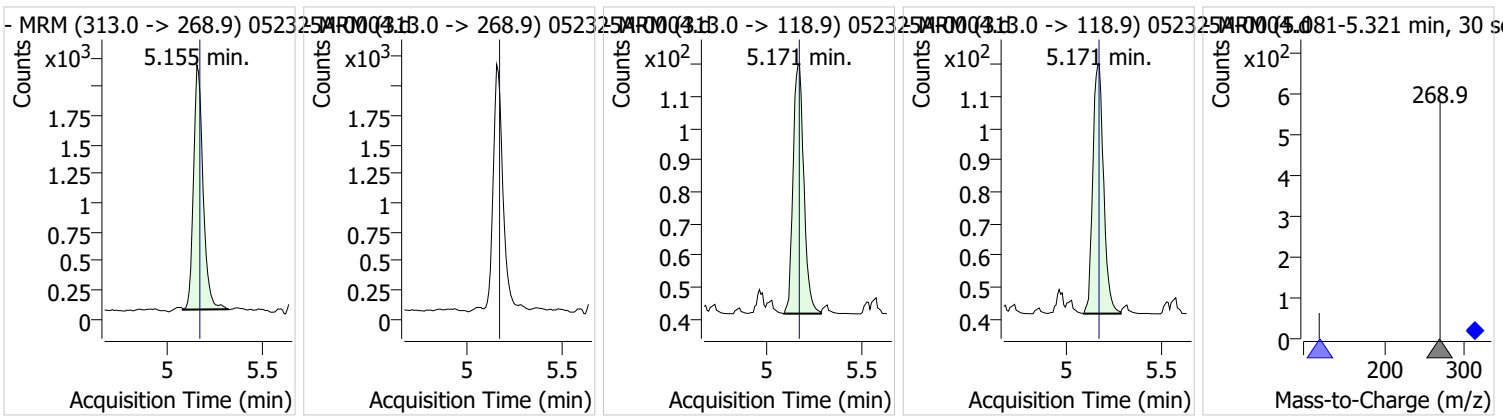
PFHpA



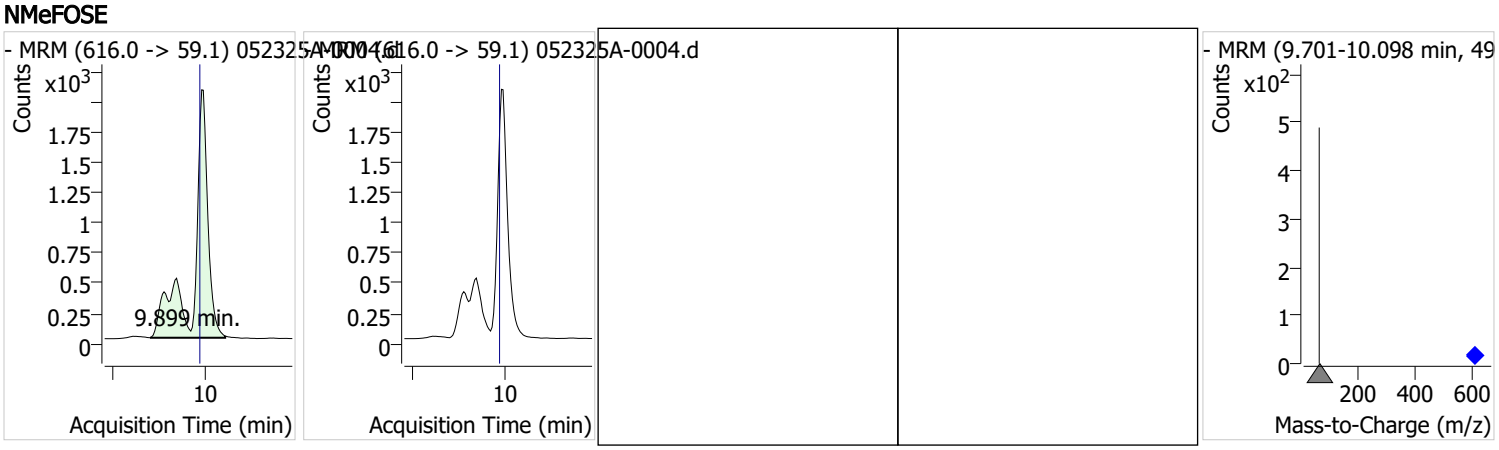
D5-NEtFOSA_ISTD



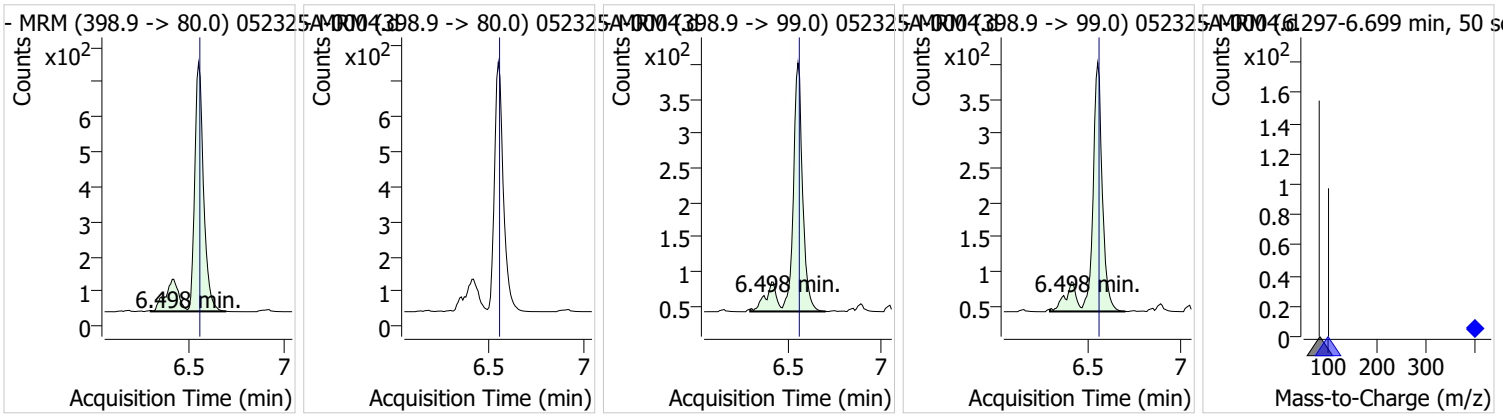
PFHxA



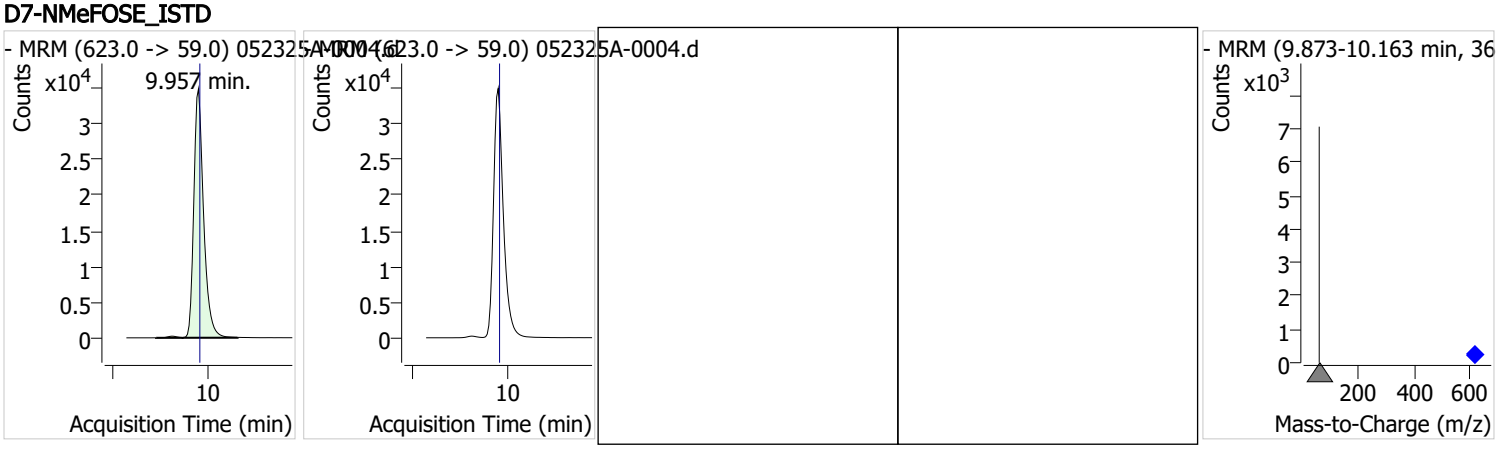
NMeFOSE



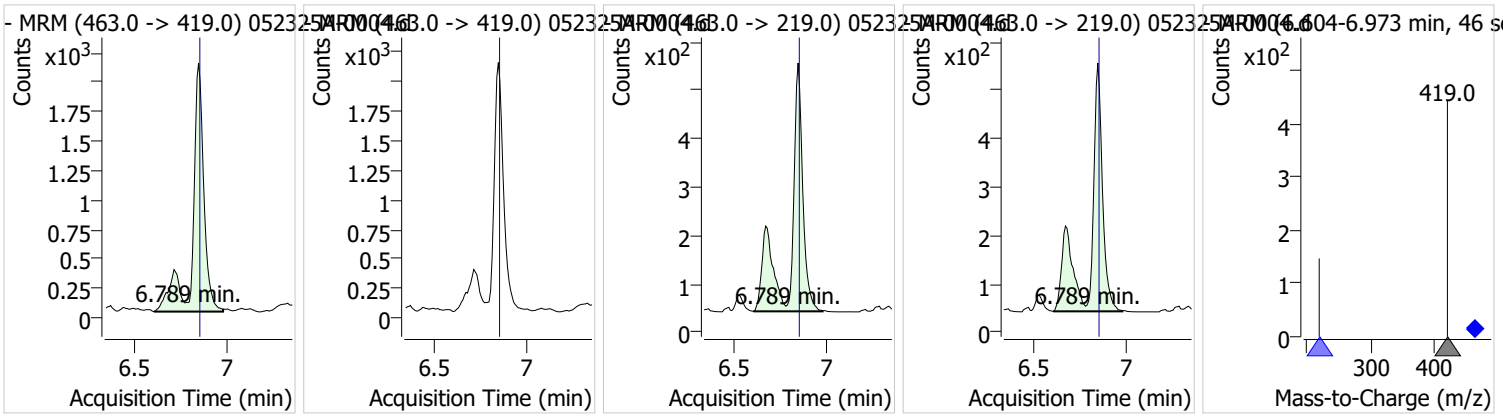
PFHxS



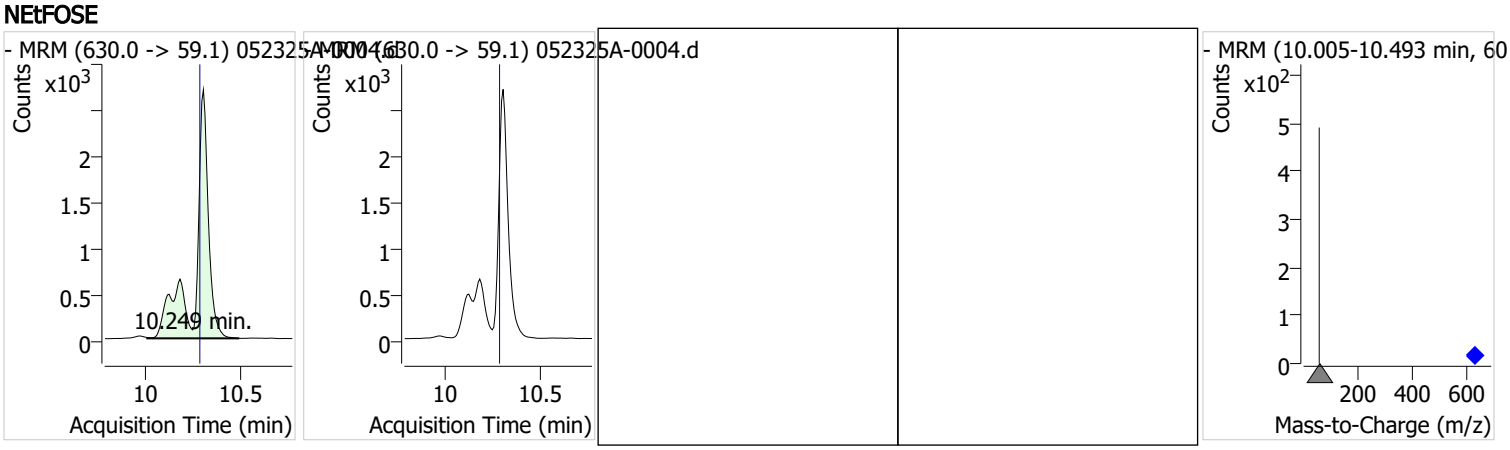
D7-NMeFOSE_ISTD



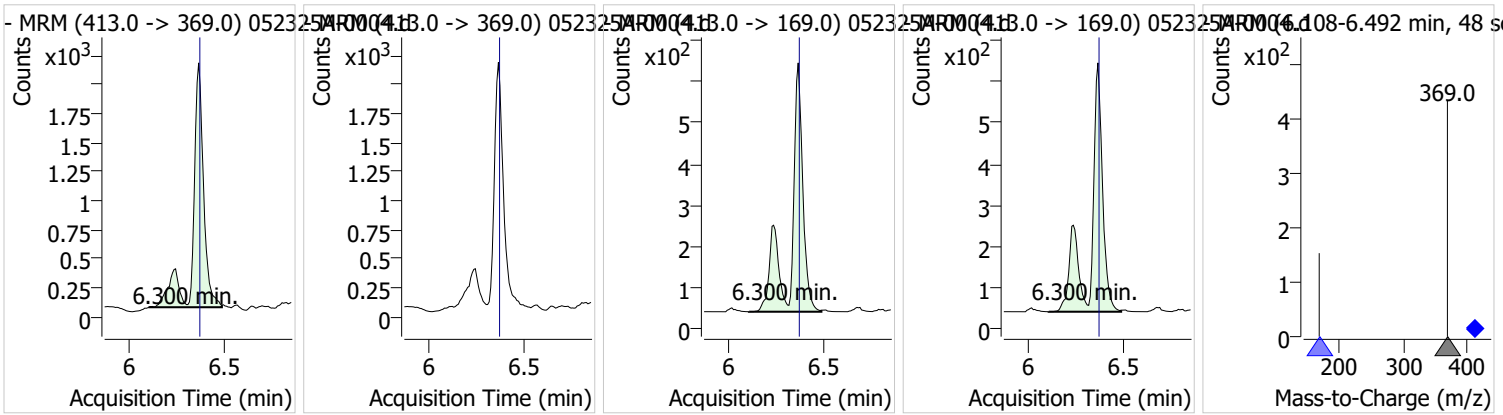
PFNA



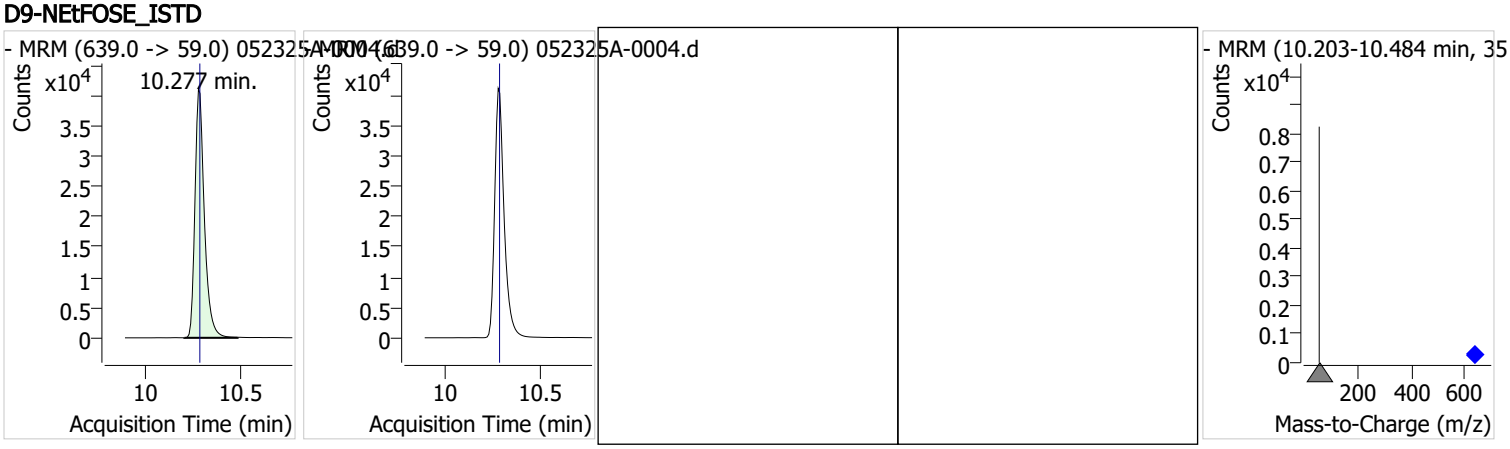
NEtFOSE



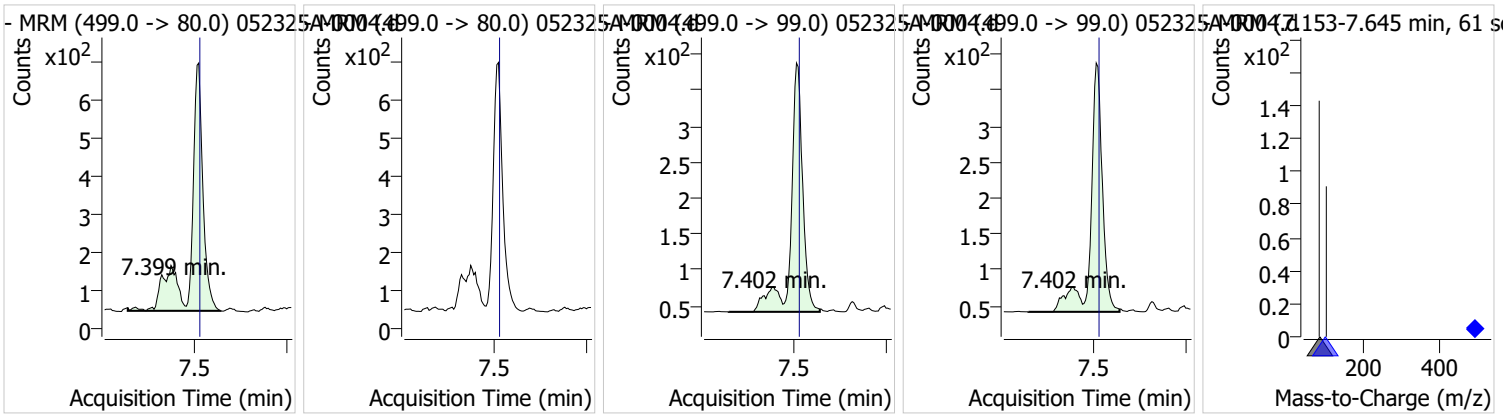
PFOA



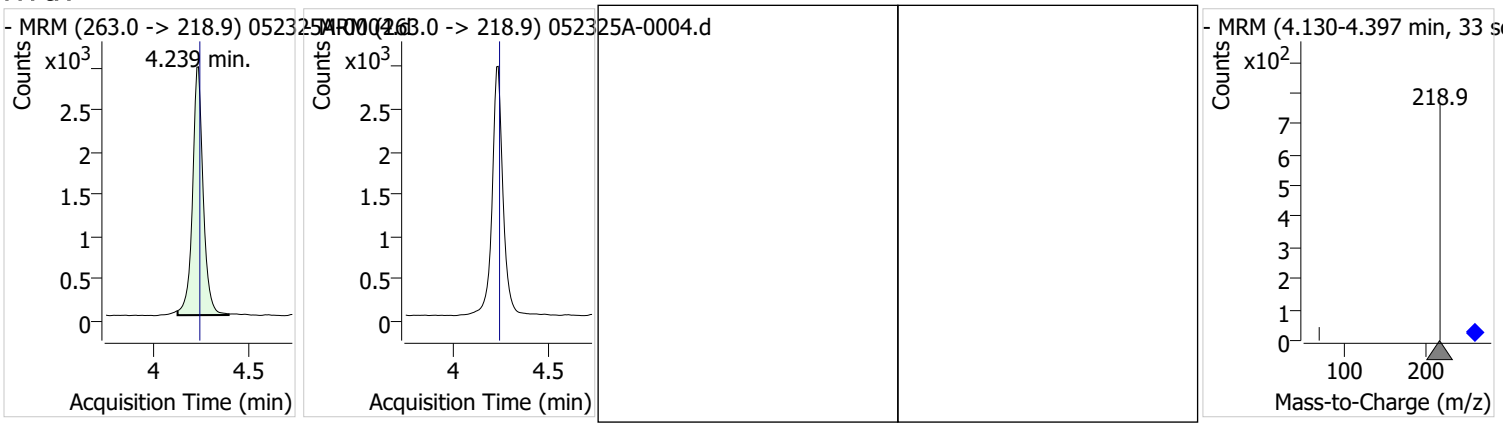
D9-NEtFOSE_ISTD



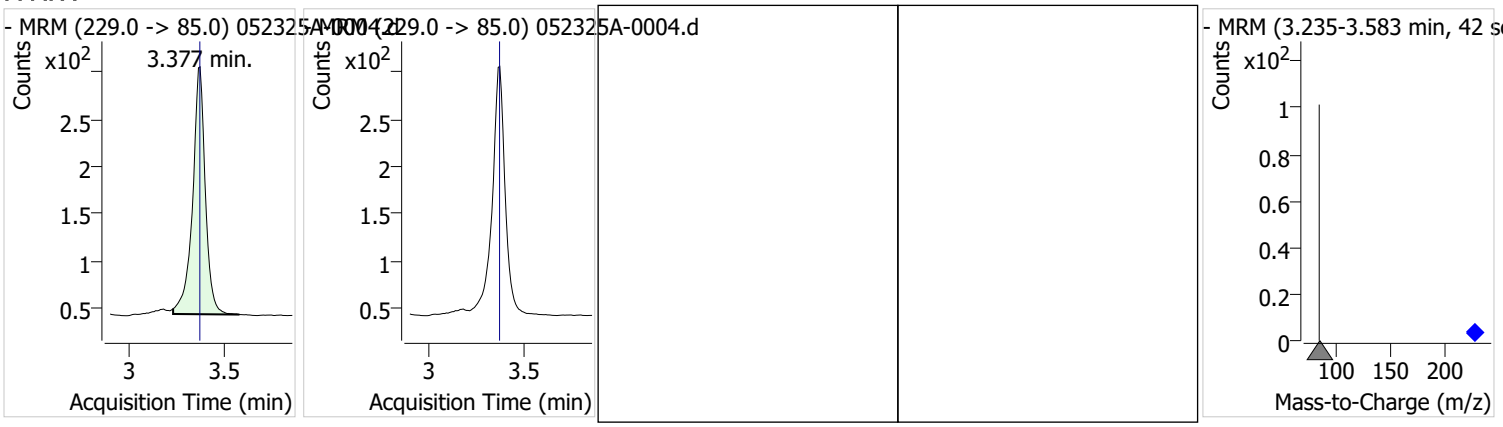
PFOS



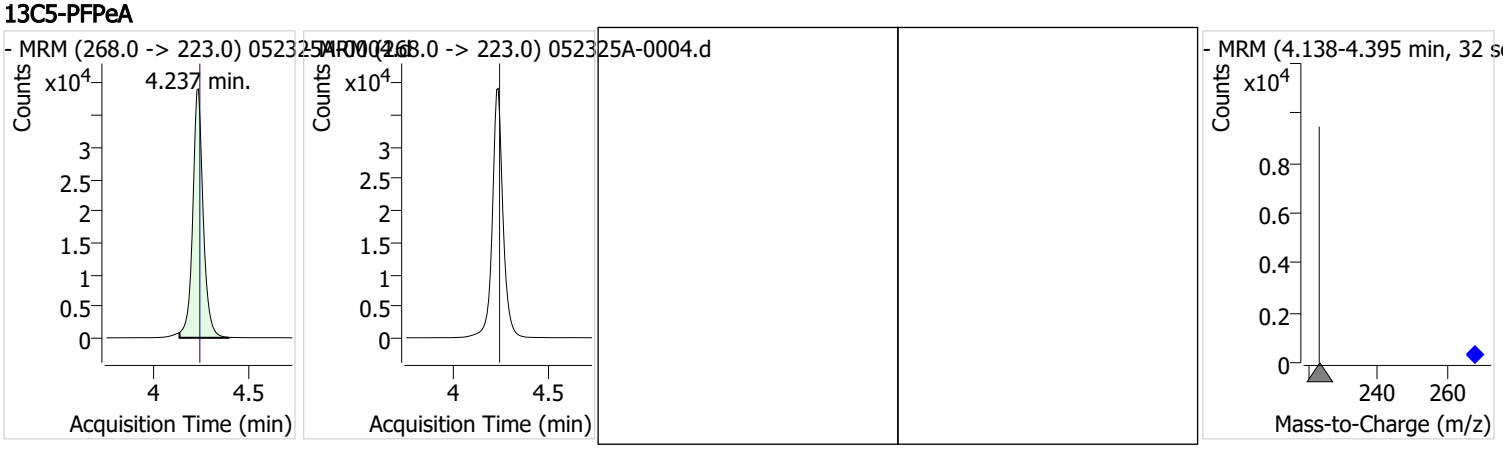
PFPeA



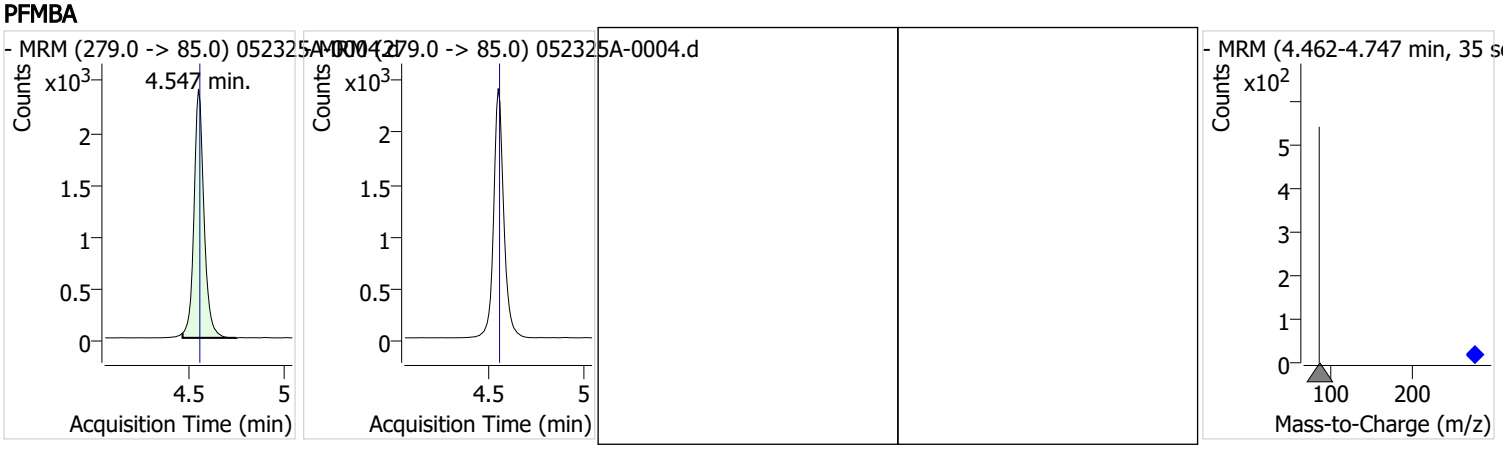
PFMPA



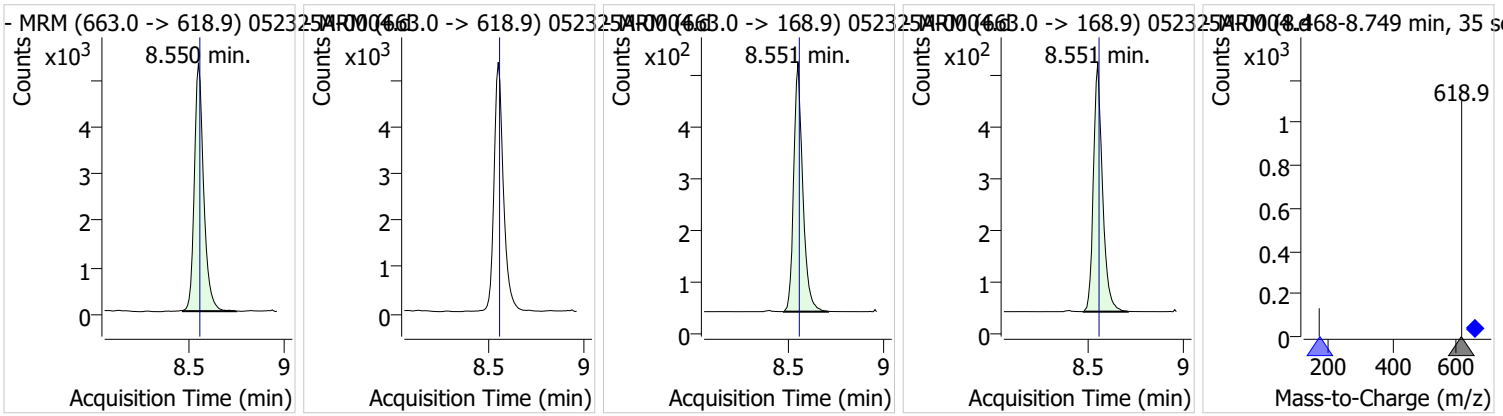
13C5-PFPeA



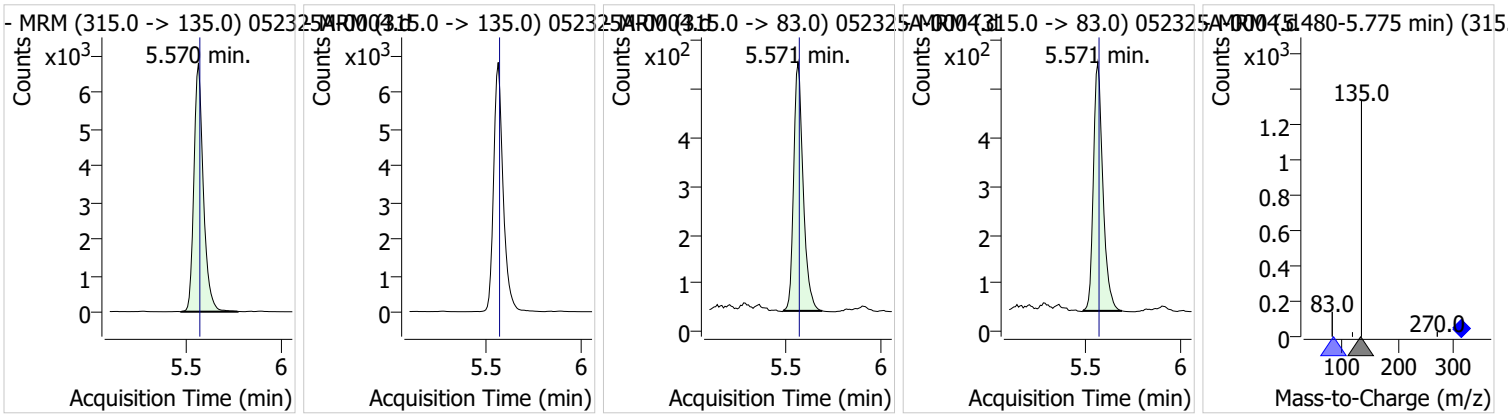
PFMBA



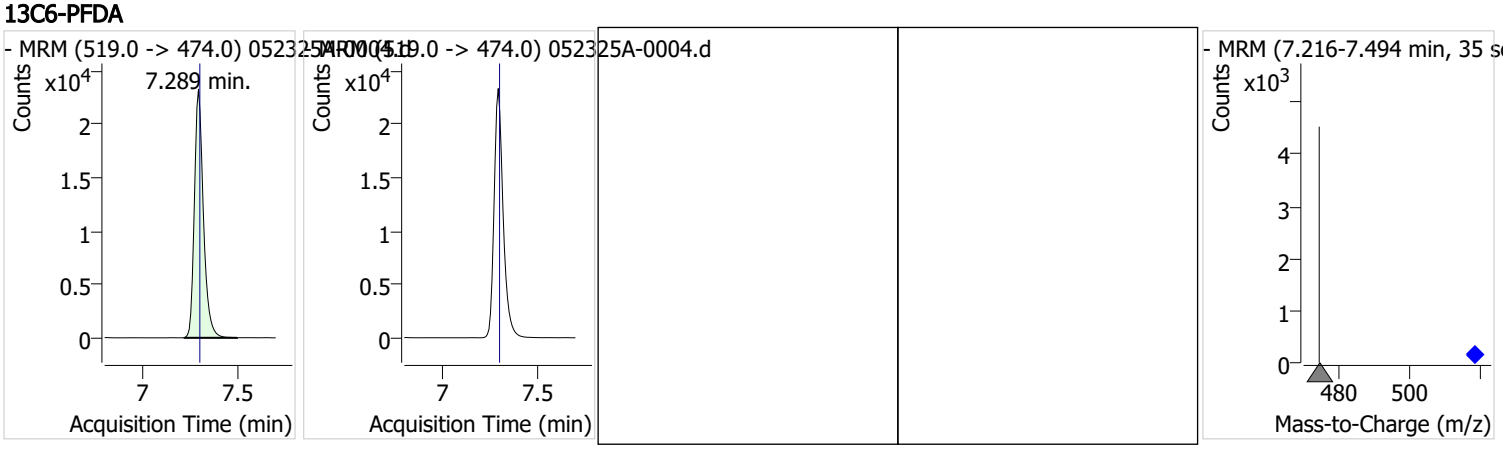
PFTrDA



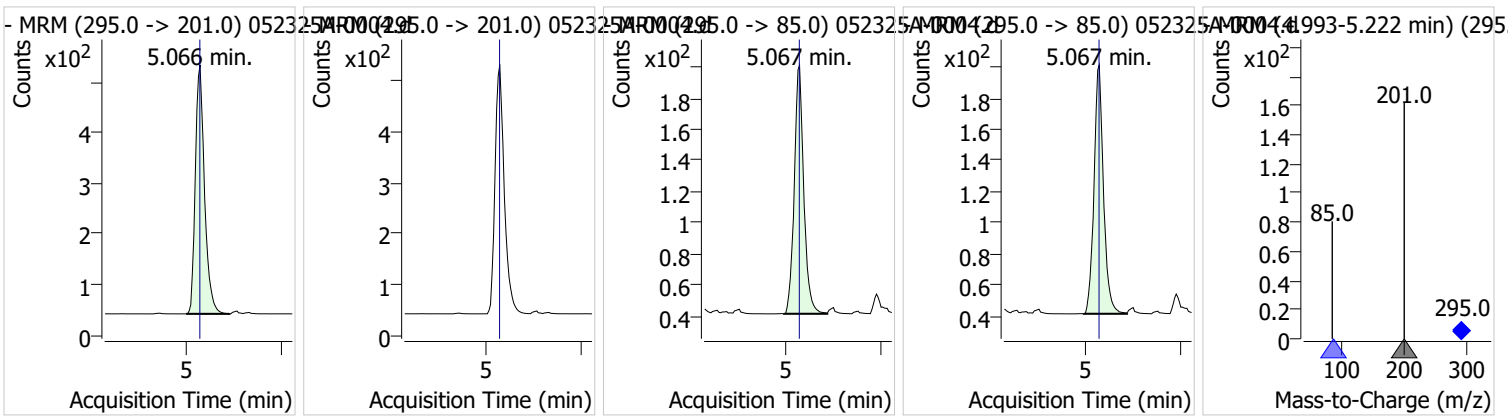
PFEESA



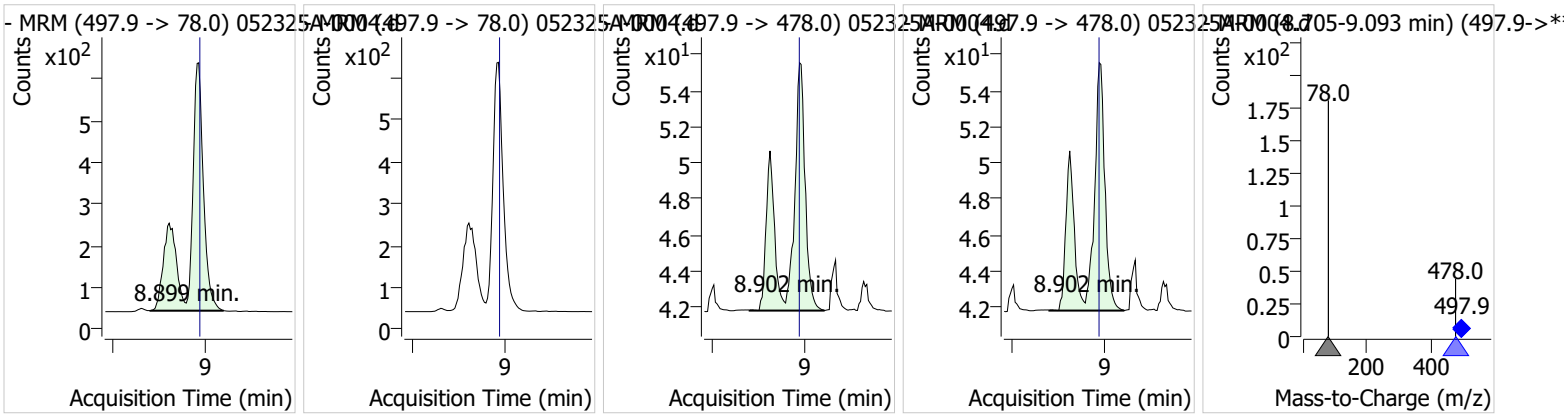
13C6-PFDA



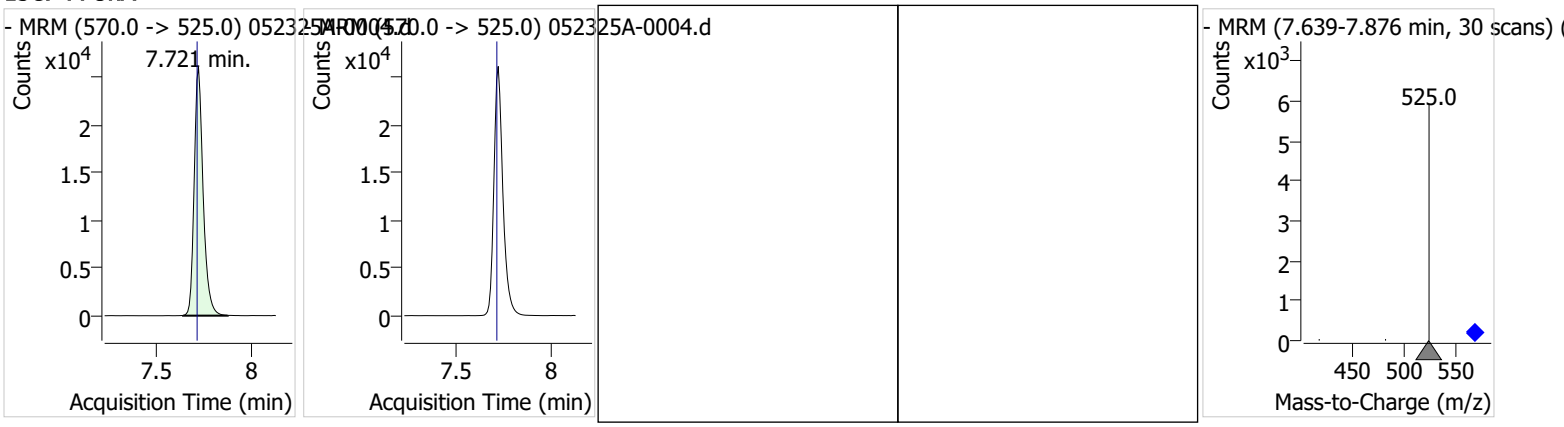
NFDHA



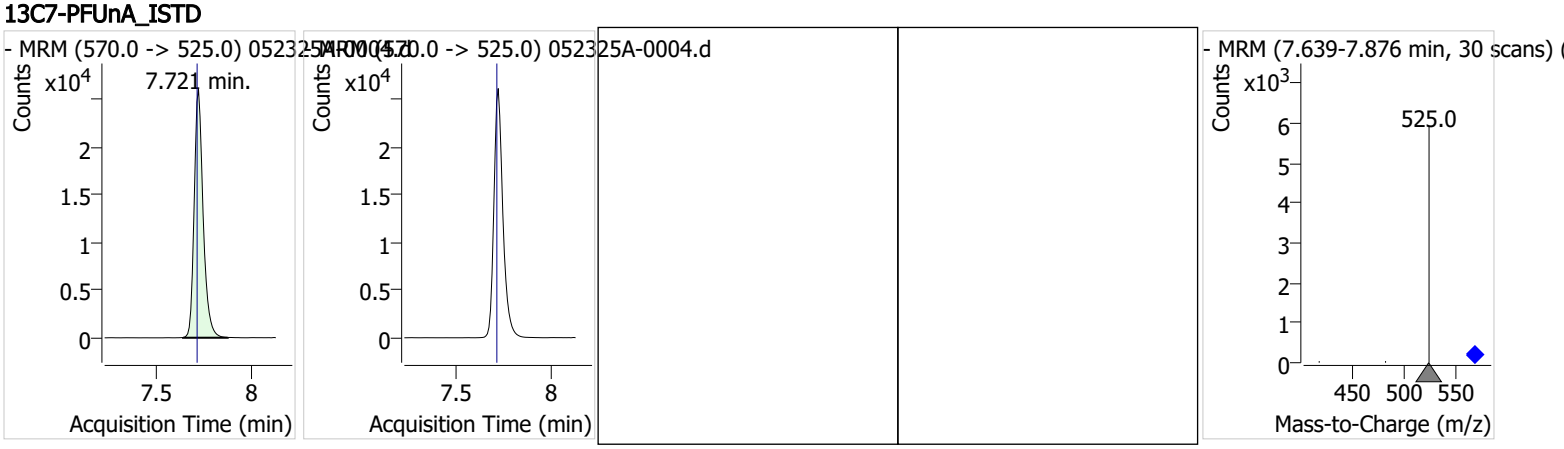
PFOSA



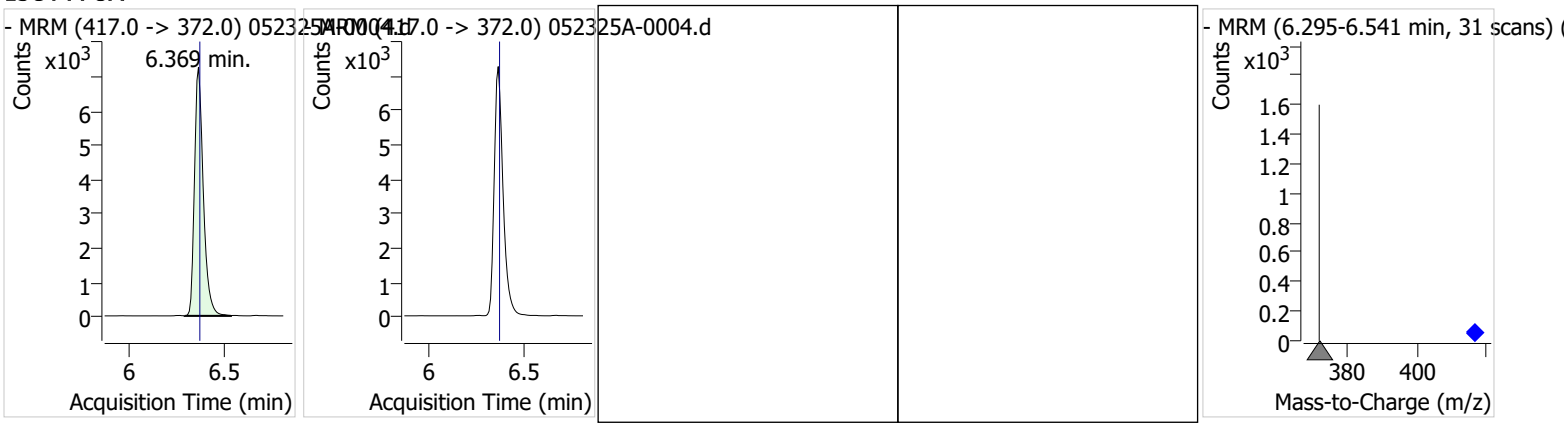
13C7-PFUnA



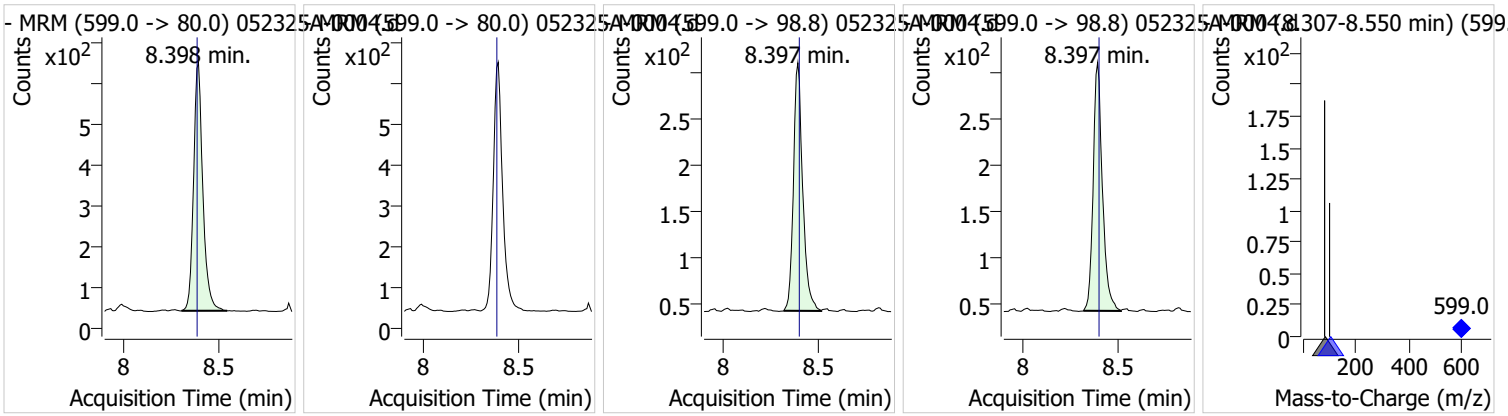
13C7-PFUnA_ISTD



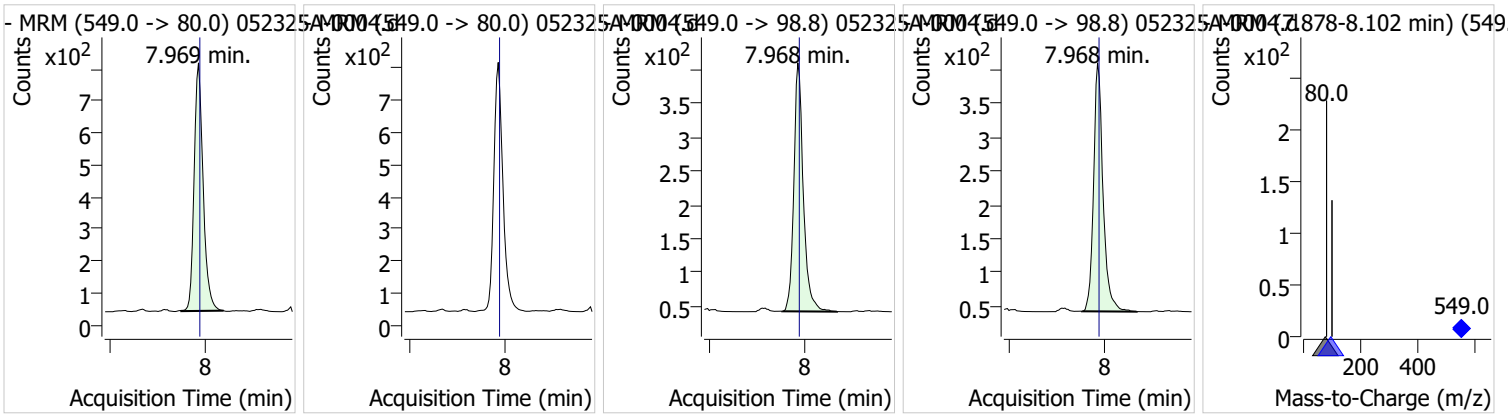
13C4-PFOA



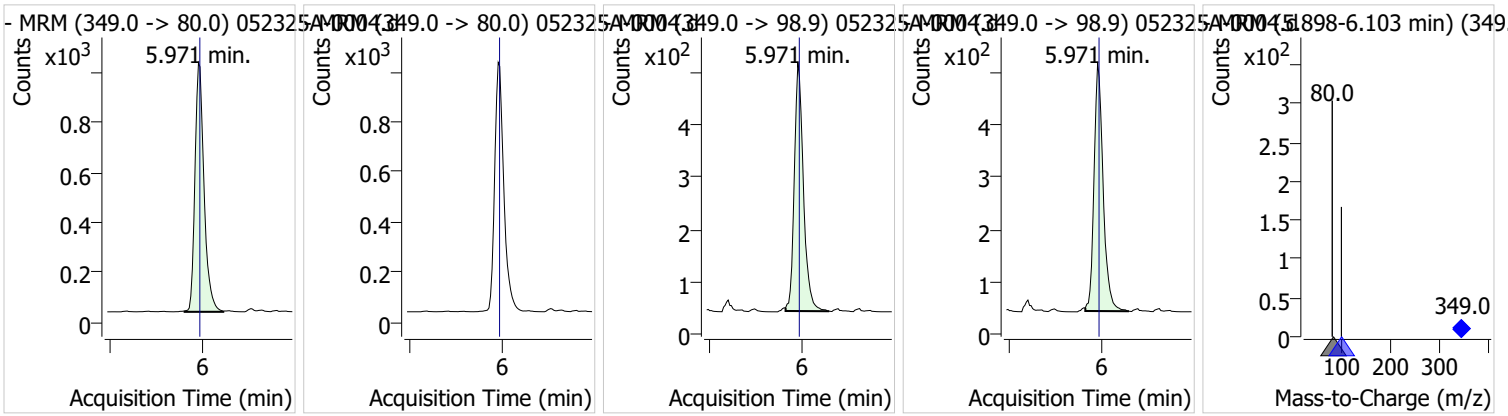
PFDS



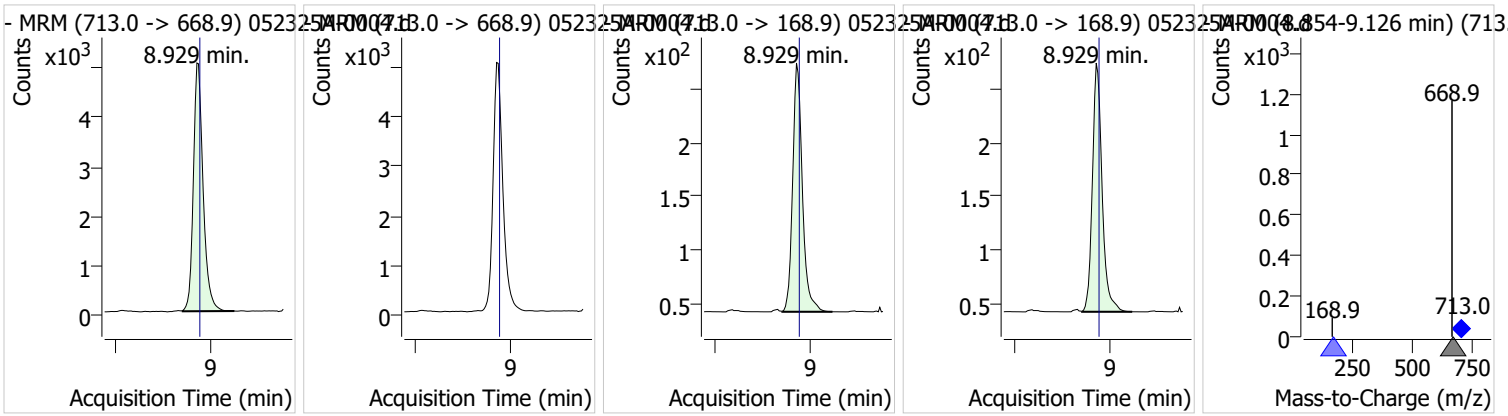
PFNS



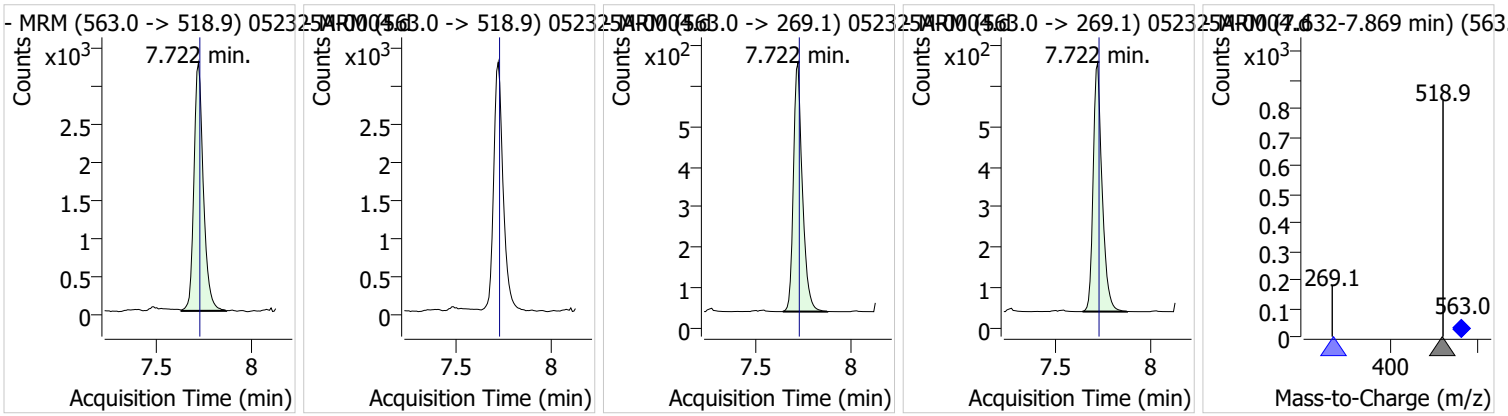
PFPeS



PFTeDA



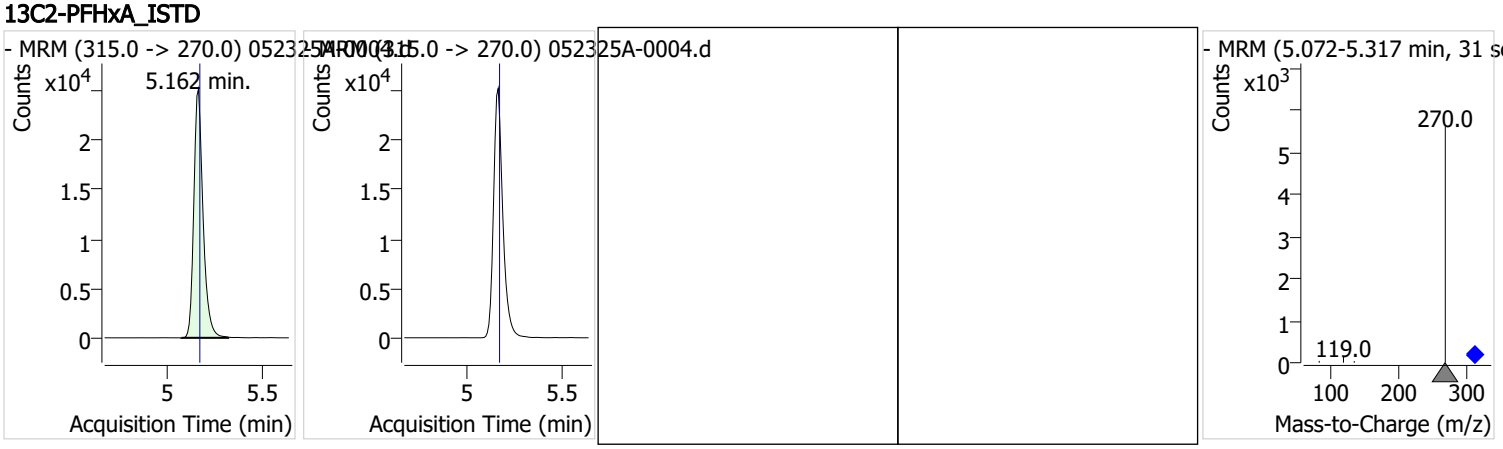
PFUnA



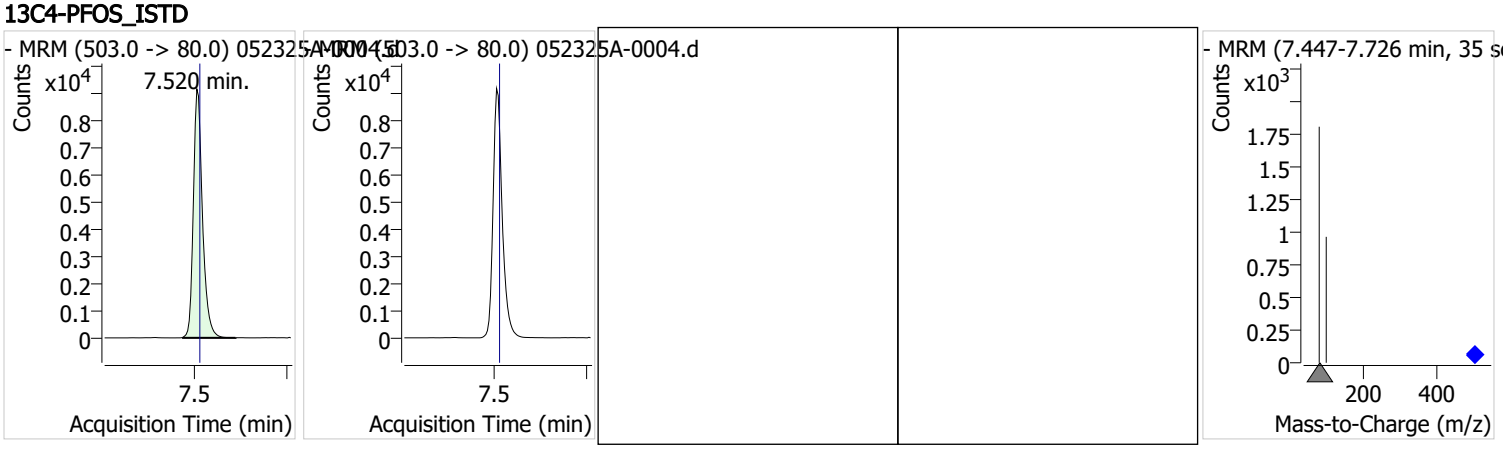
13C2-PFDA_ISTD



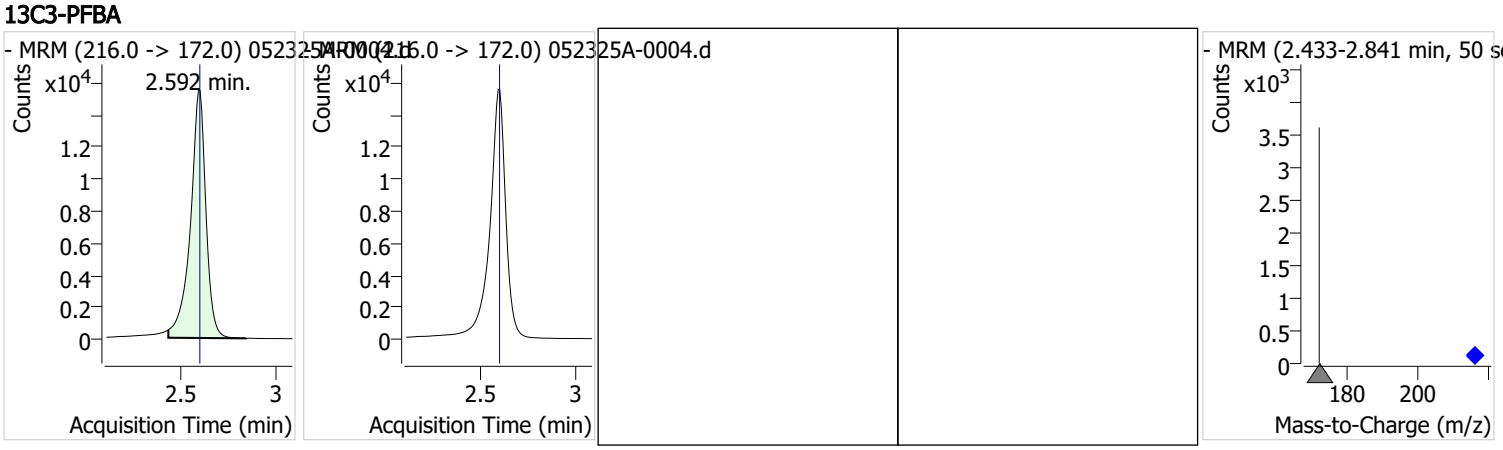
13C2-PFHxA_ISTD



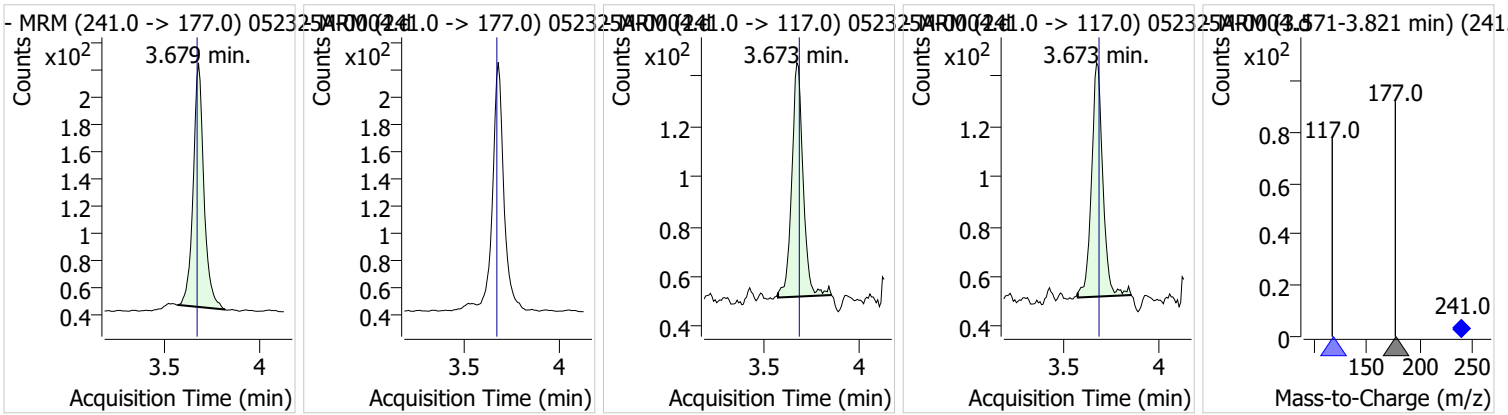
13C4-PFOS_ISTD



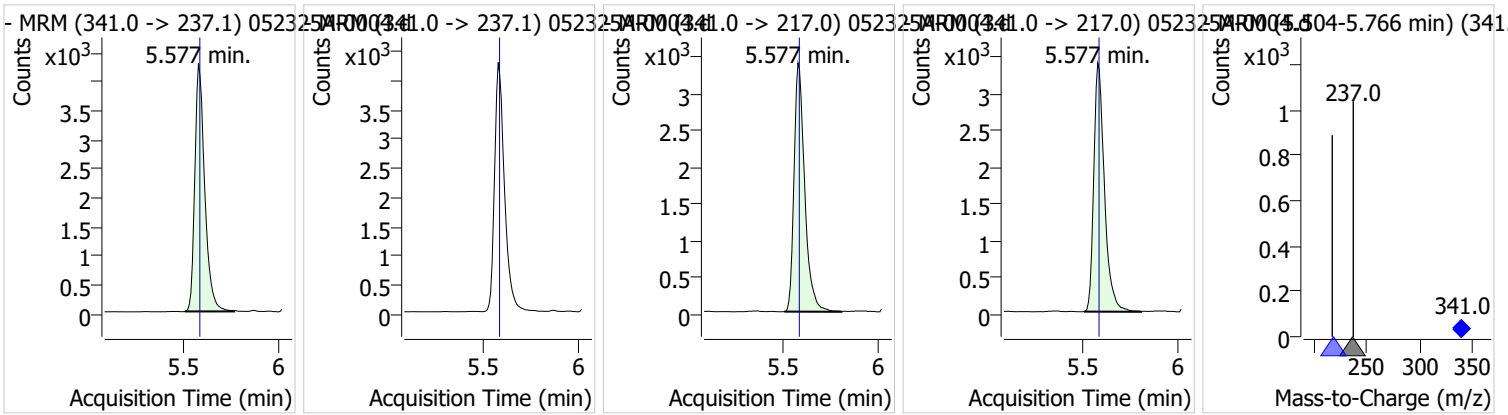
13C3-PFBA



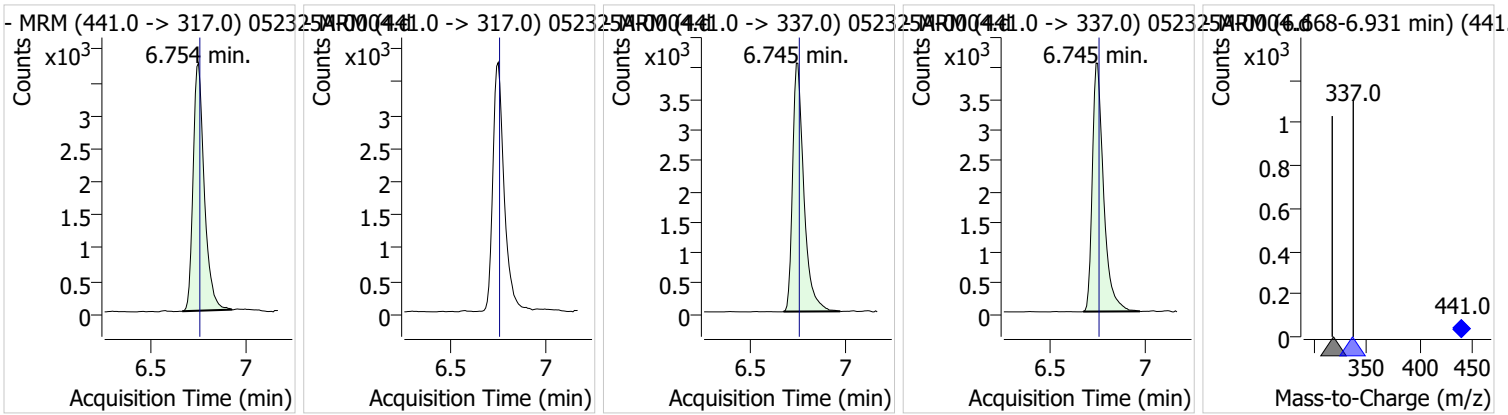
3:3FTCA



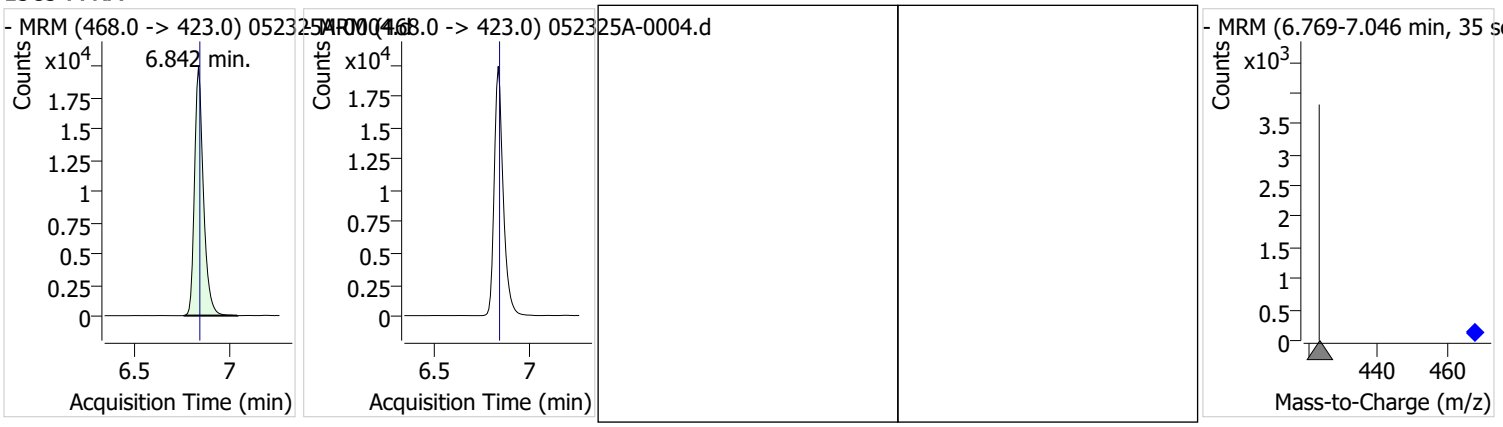
5:3FTCA



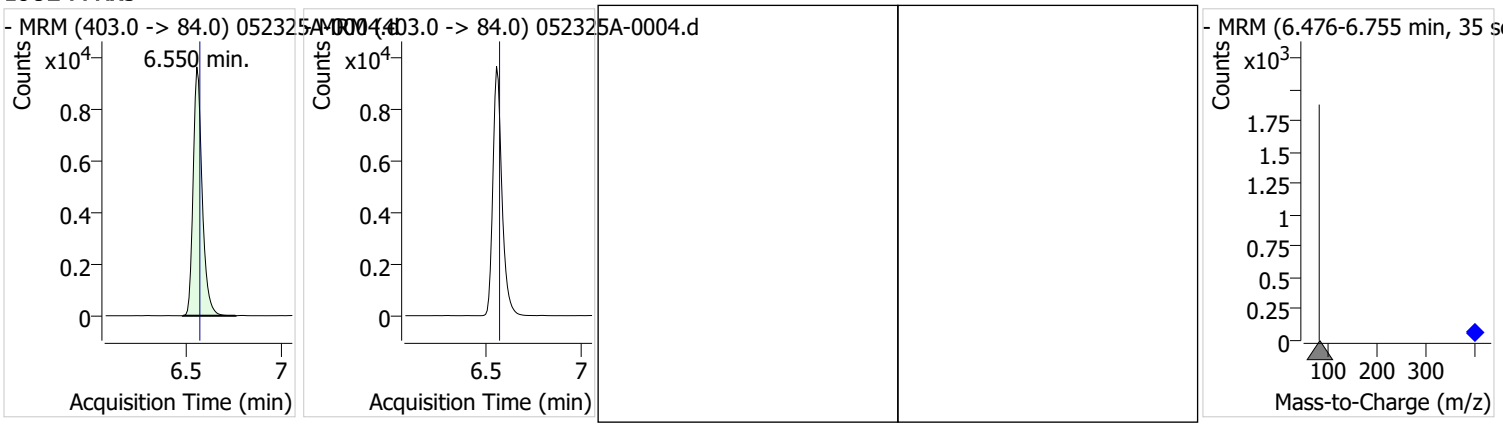
7:3FTCA



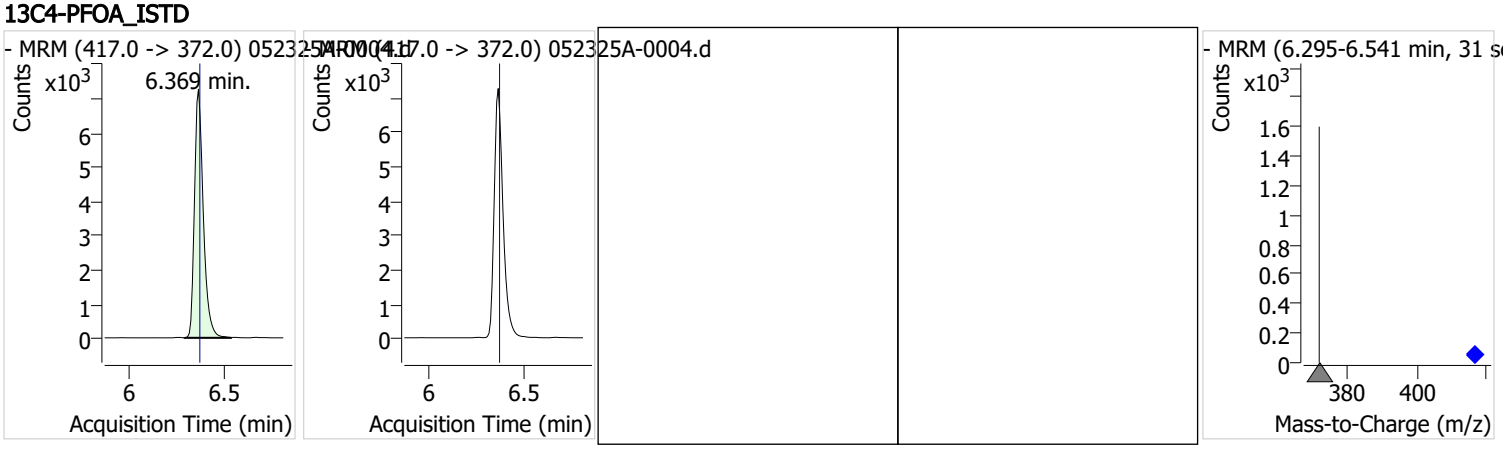
13C5-PFNA



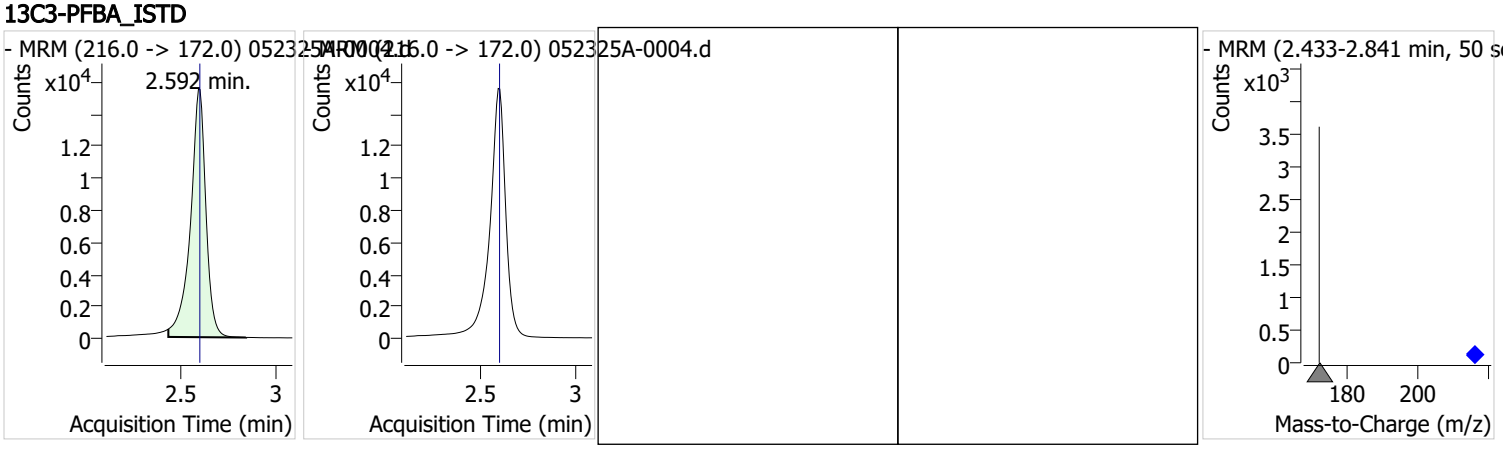
18O2-PFHxS



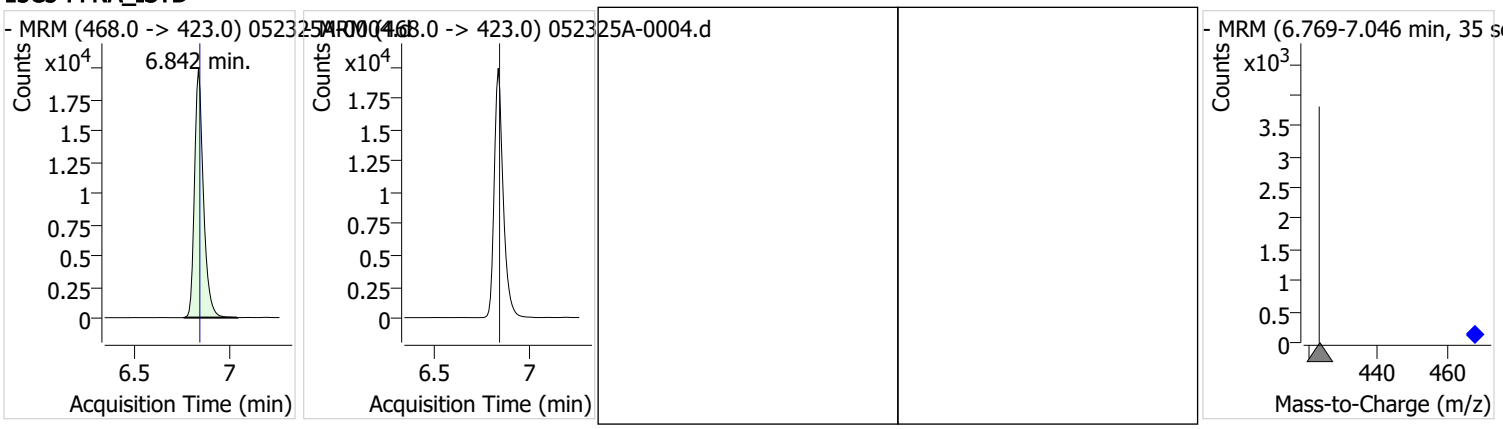
13C4-PFOA_ISTD



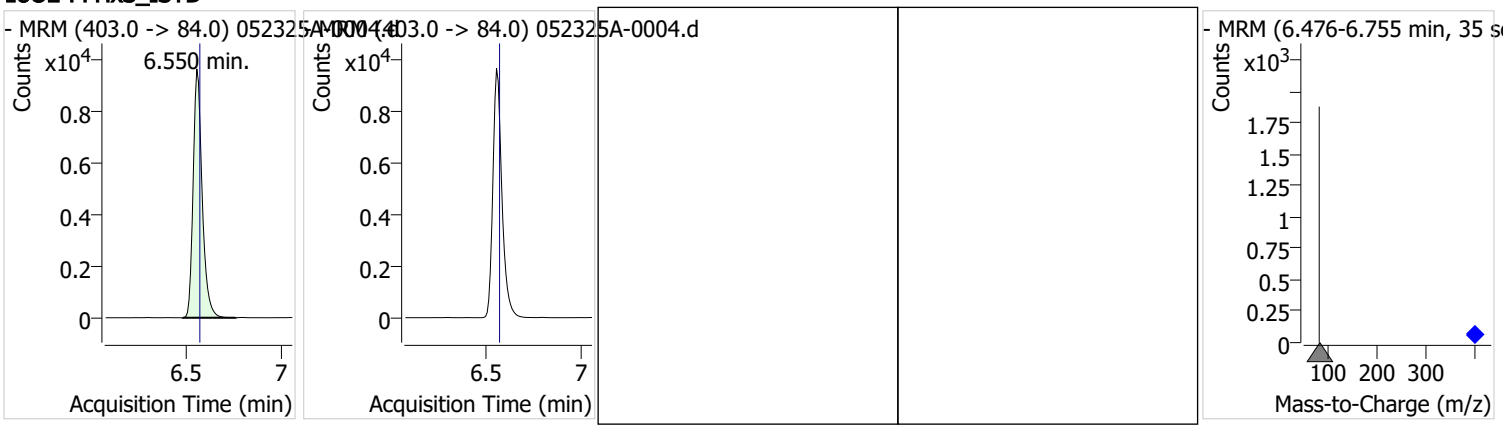
13C3-PFBA_ISTD



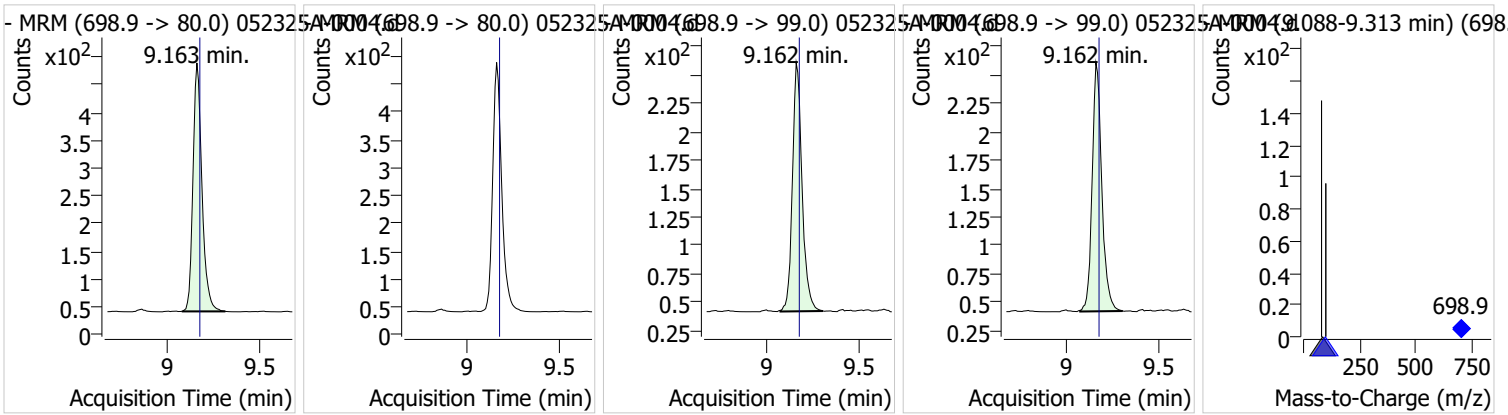
13C5-PFNA_ISTD



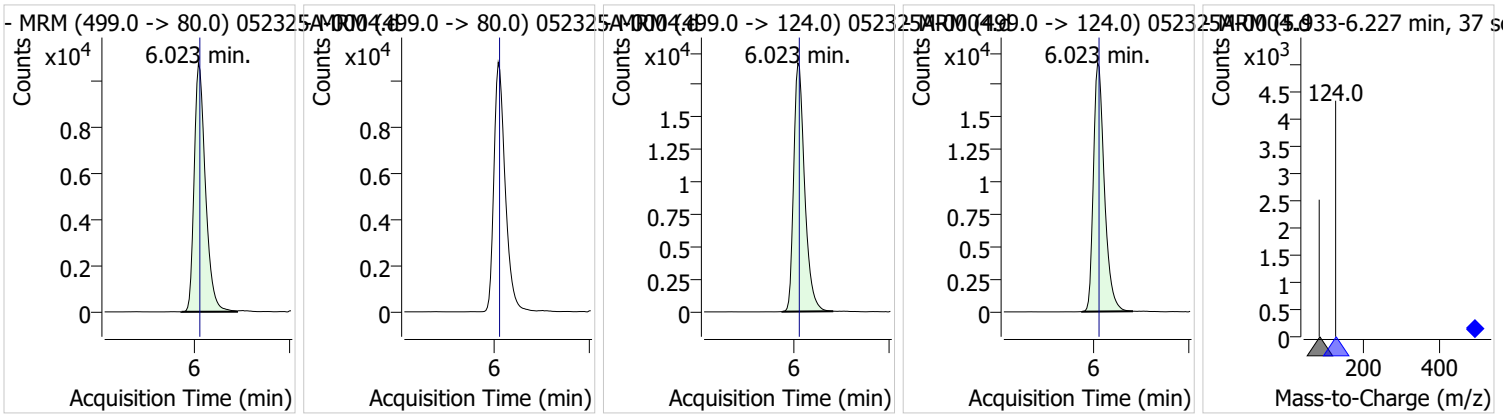
18O2-PFHxS_ISTD



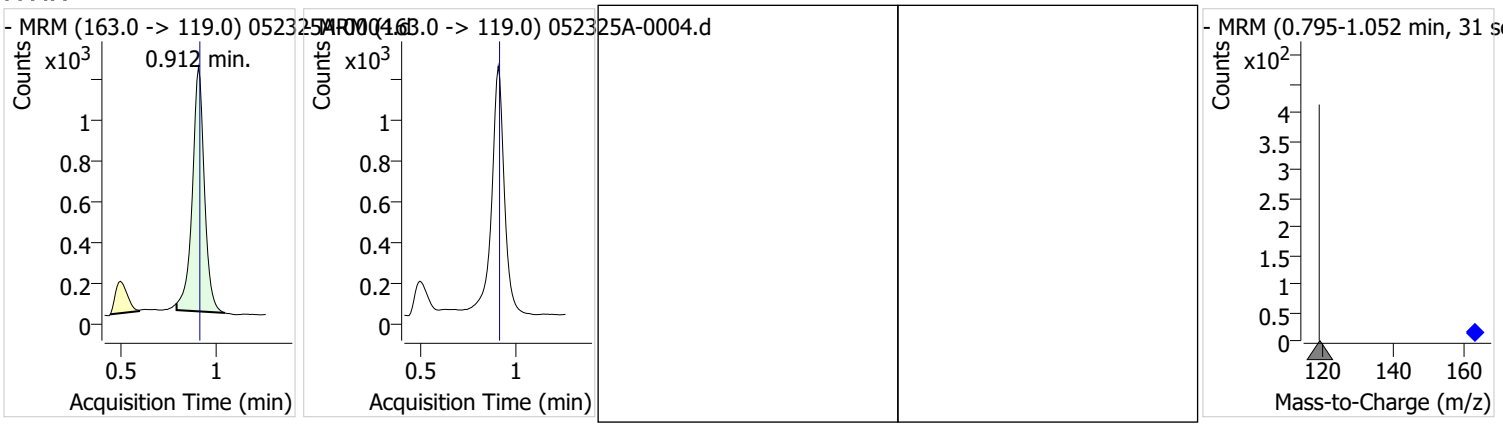
PFDoS



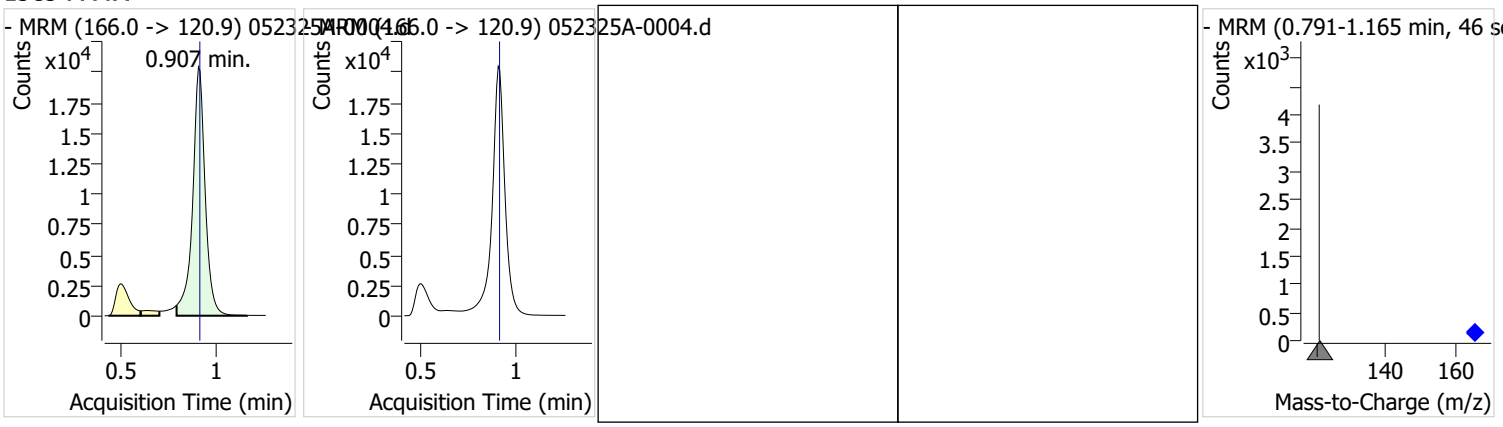
TDCA



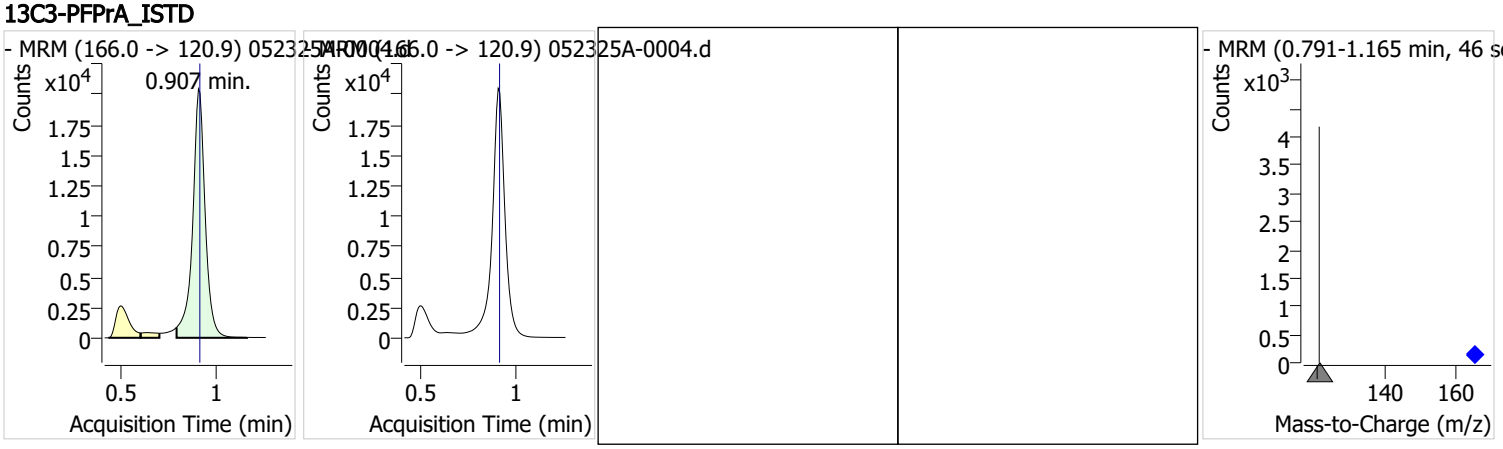
PFPrA



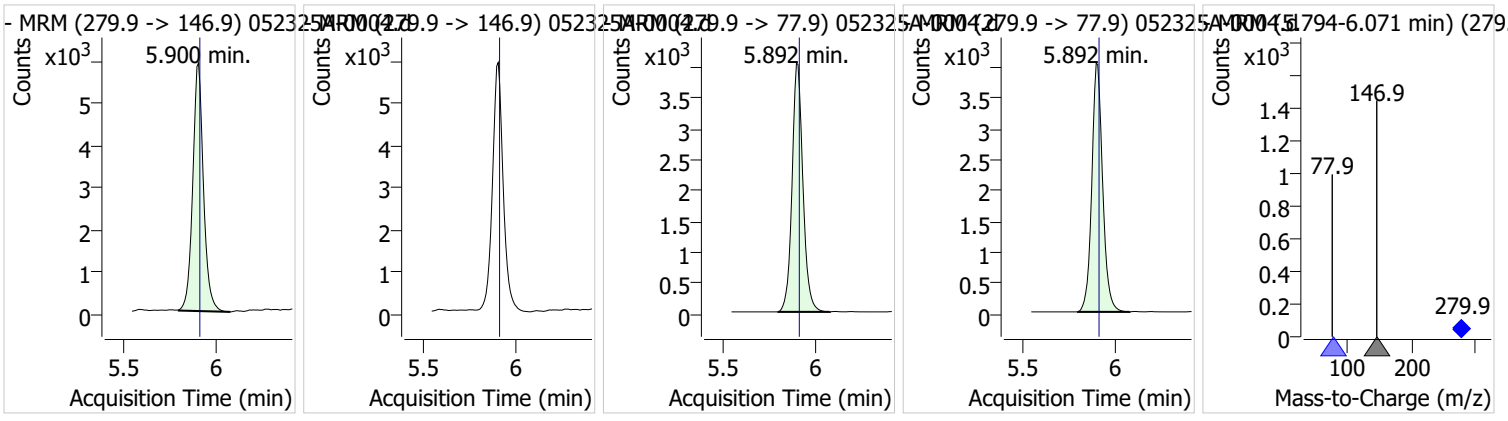
13C3-PFPrA



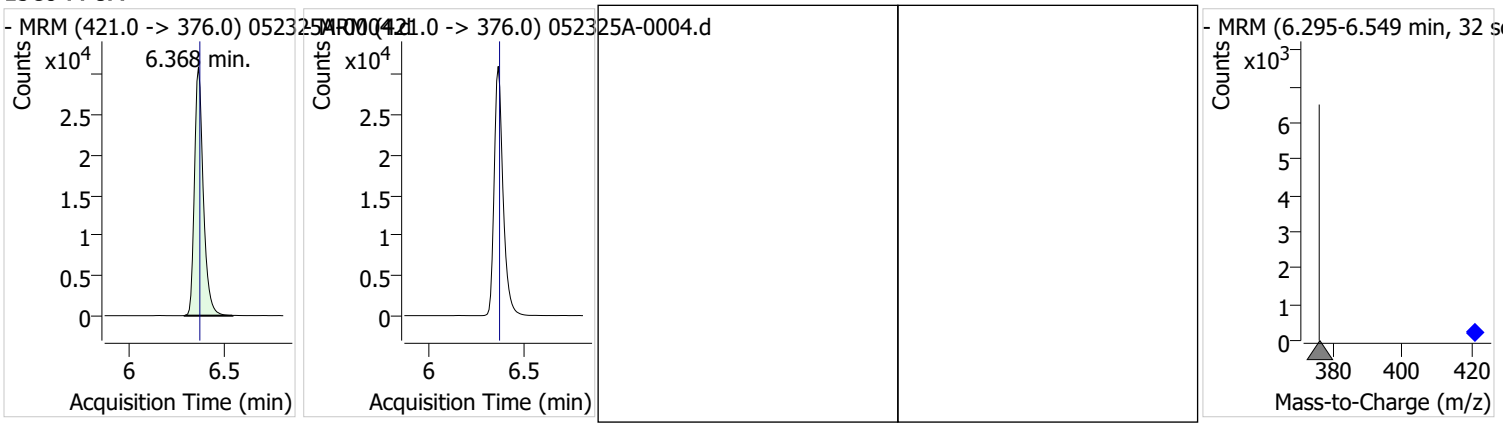
13C3-PFPrA_ISTD



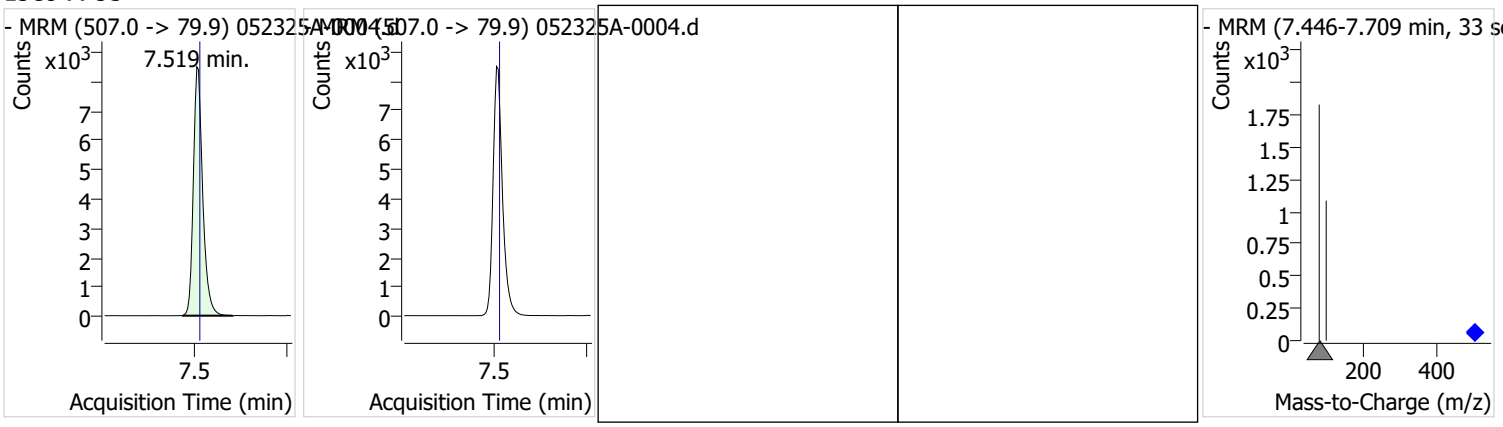
TFSI



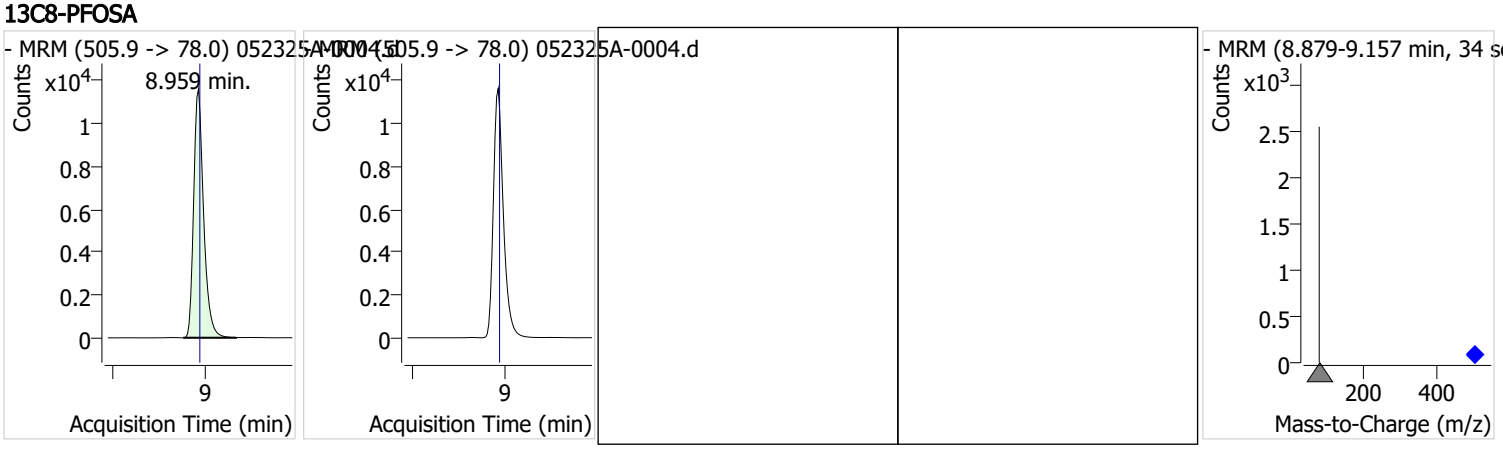
13C8-PFOA



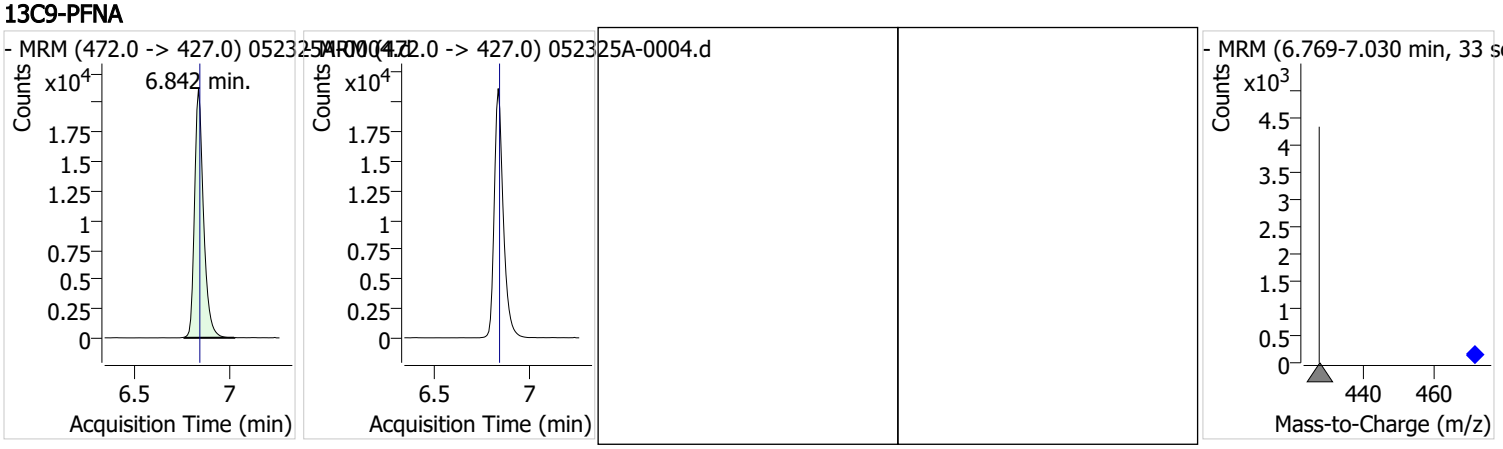
13C8-PFOS



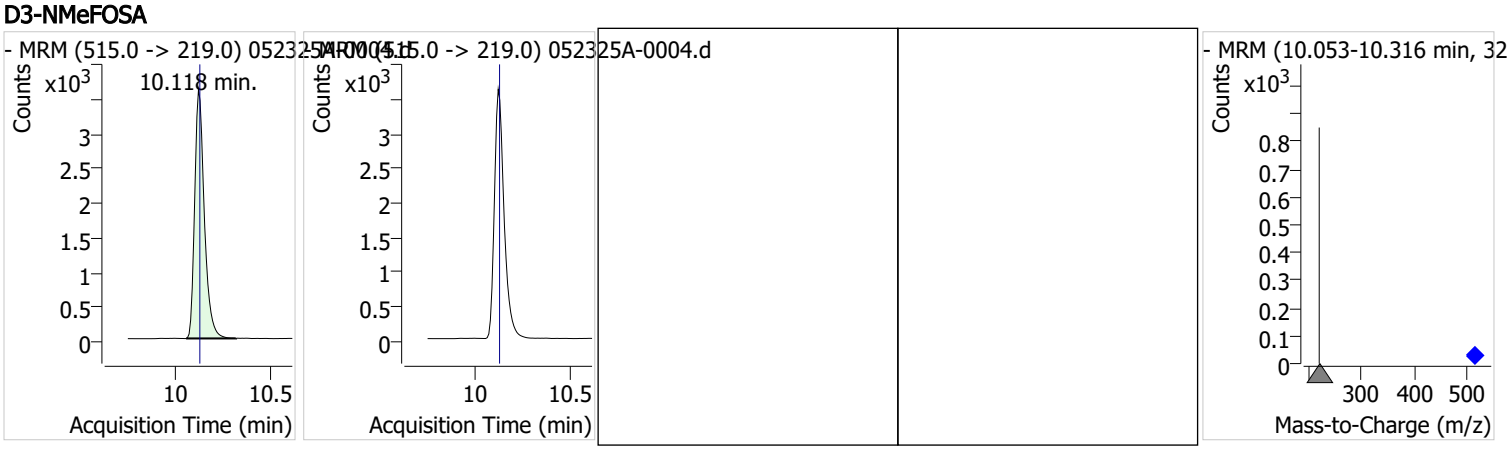
13C8-PFOSA



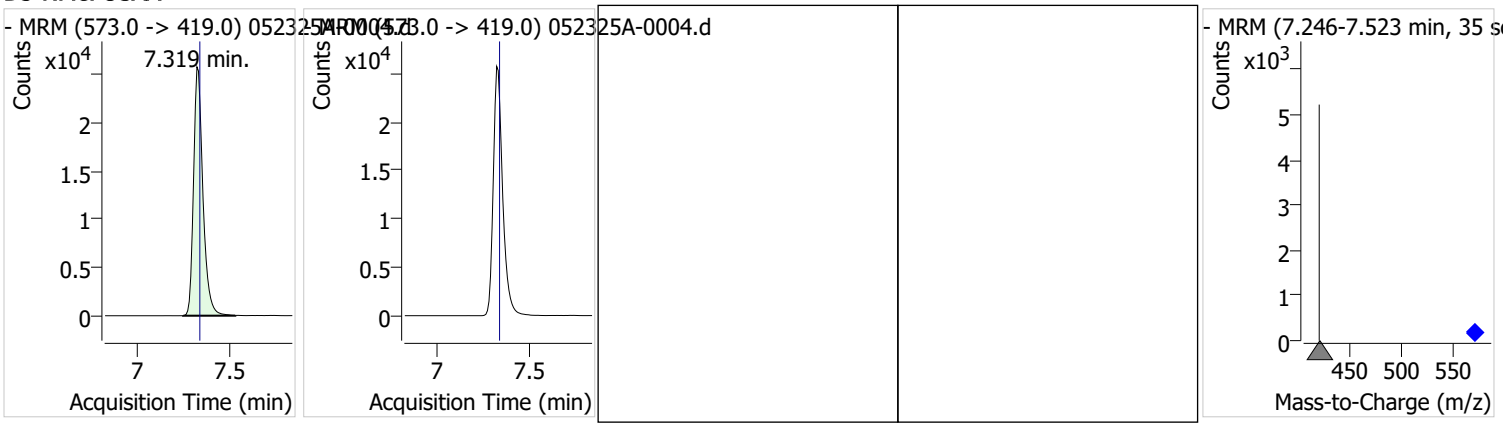
13C9-PFNA



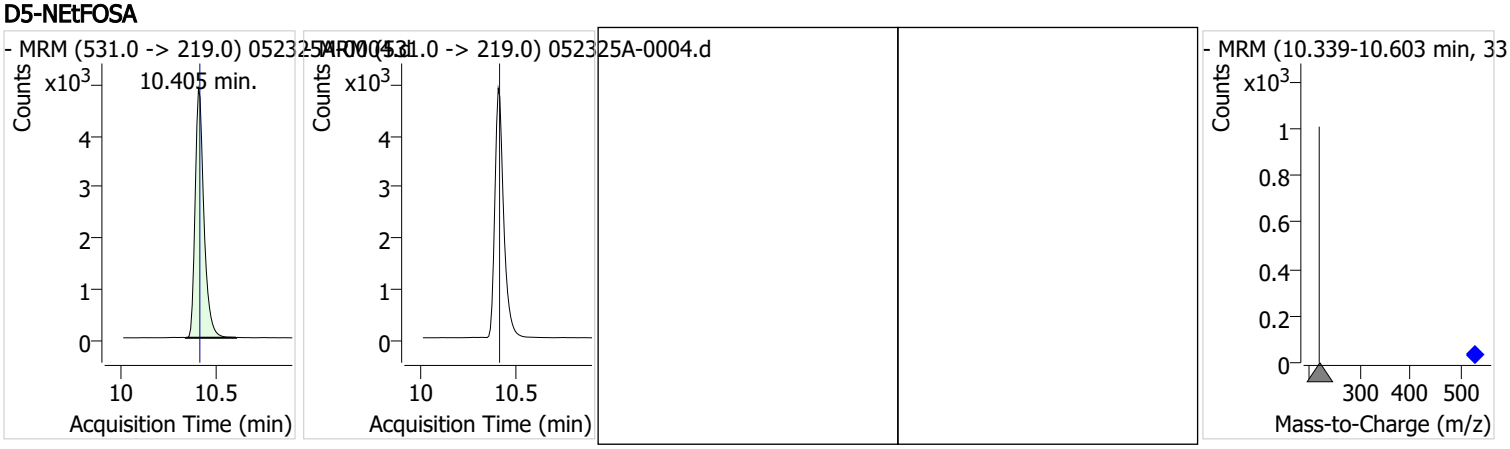
D3-NMeFOSA



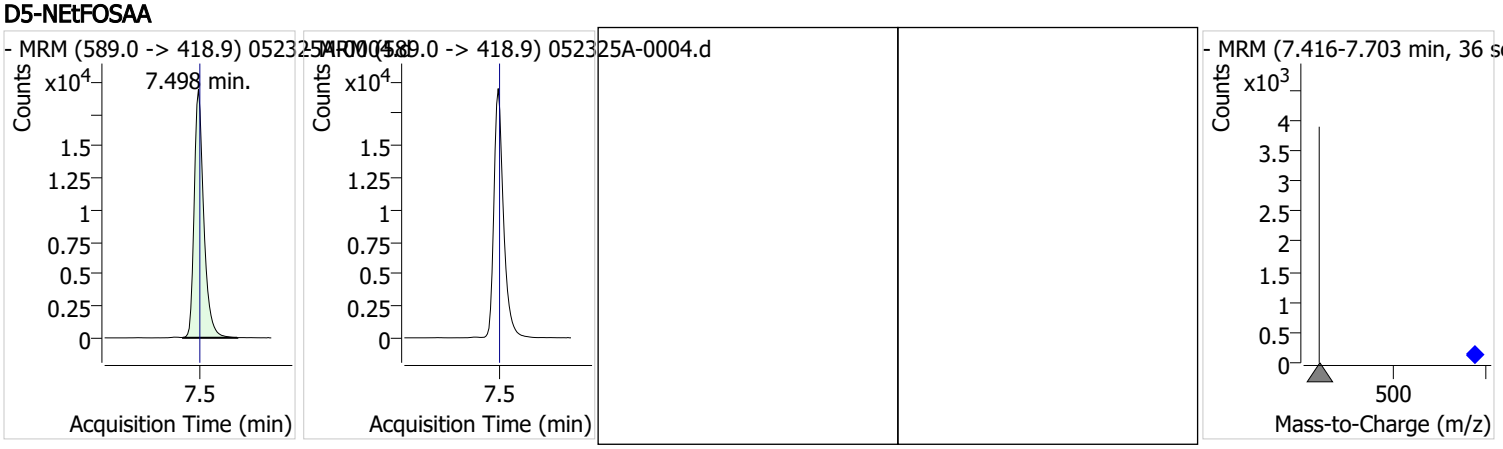
D3-NMeFOSAA



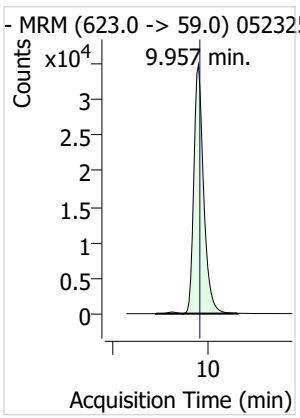
D5-NEtFOSA

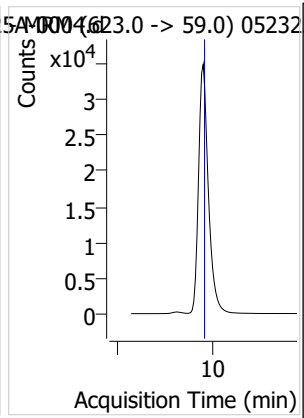


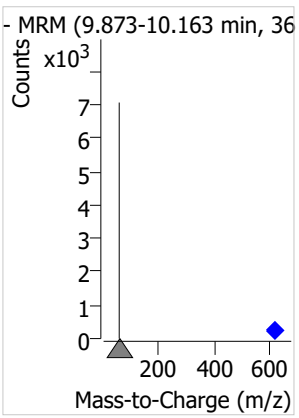
D5-NEtFOSAA



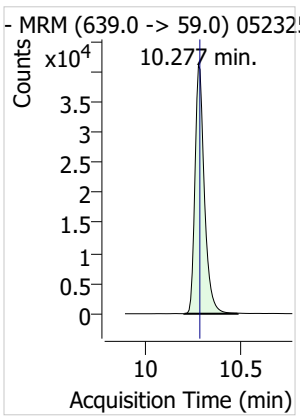
D7-NMeFOSE

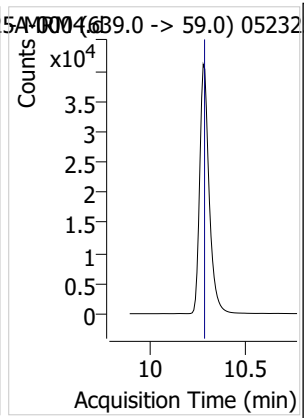


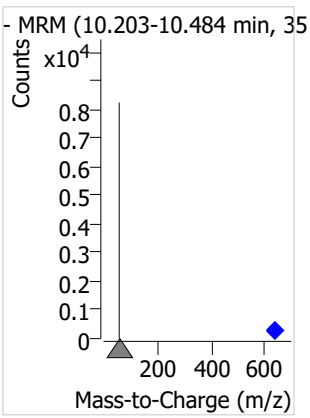




D9-NEtFOSE

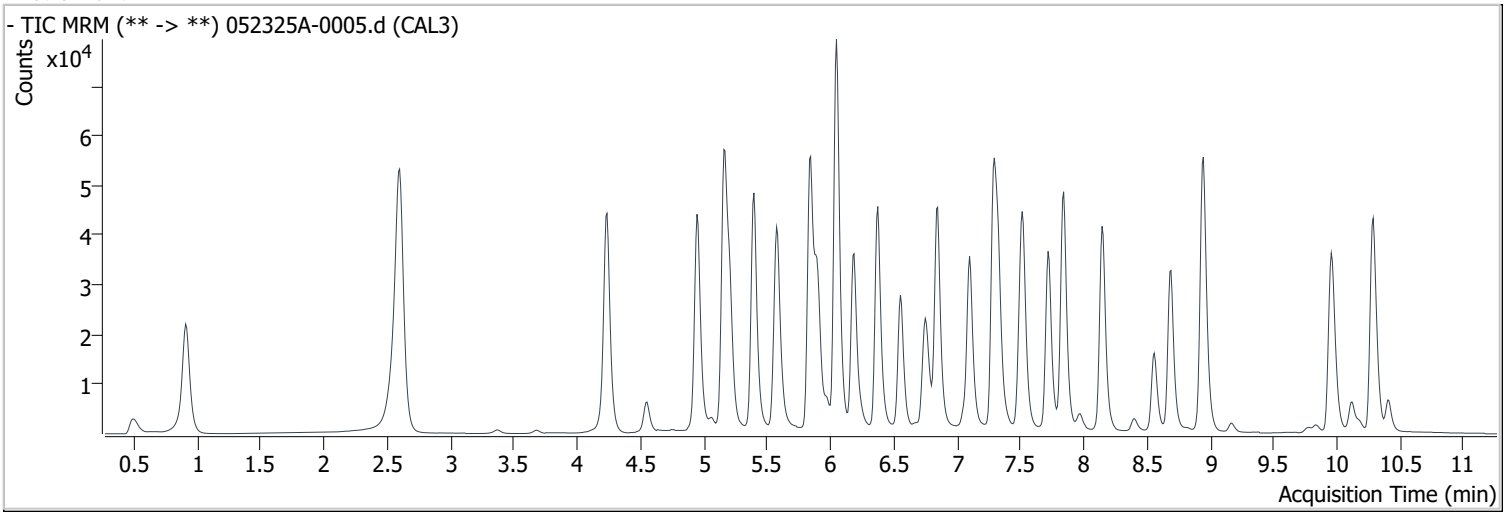






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 10:54 AM	**Data File**	052325A-0005.d
Sample Type	Cal	**Sample Name**	CAL3
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510287	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.403	16695	4956.19		13C3-HFPODA_ISTD	5.402	84971	2.0016	ng/ml			
285.0 -> 184.9	5.403	9409	192.35	56.4								
4:2FTS	4.947	36116	9761.17		13C2-4:2FTS_ISTD	4.946	29160	1.8818	ng/ml			
327.0 -> 80.9	4.947	14185	48992.70	39.3								
6:2FTS	6.180	24792	7367.64		13C2-6:2FTS_ISTD	6.188	22861	2.0135	ng/ml			
427.0 -> 80.9	6.181	9770	2867.00	39.4								
ADONA	6.052	181895	5710.47		13C4-PFHpA_ISTD	5.839	134482	2.0860	ng/ml			
377.0 -> 85.1	6.052	74255	263977.69	40.8								
8:2FTS	7.100	24664	23470.48		13C2-8:2FTS_ISTD	7.100	22039	2.0417	ng/ml			
527.0 -> 81.0	7.101	10066	11117.60	40.8								
13C4-PFBA	2.597	187806	3600.10		13C3-PFBA_ISTD	2.592	72648	10.6215	ng/ml			
9Cl-PF3ONS	7.846	126385	5894.29		13C8-PFOS_ISTD	7.528	27998	1.9964	ng/ml			
533.0 -> 353.0	7.846	34608	5816.29	27.4								
11Cl-PF3OUdS	8.694	89380	13846.13		13C8-PFOS_ISTD	7.528	27998	2.0165	ng/ml			
633.0 -> 453.0	8.693	21162	1429.93	23.7								
PFHpS	7.064	7599	217.63		13C8-PFOS_ISTD	7.528	27998	0.4891	ng/ml			
449.0 -> 98.8	7.064	3196	968.03	42.1								
13C2-4:2FTS	4.946	29160	12999.53		18O2-PFHxS_ISTD	6.559	27619	6.1314	ng/ml			
13C2-6:2FTS	6.188	22861	97226.38		18O2-PFHxS_ISTD	6.559	27619	6.3798	ng/ml			
13C2-8:2FTS	7.100	22039	6665.87		18O2-PFHxS_ISTD	6.559	27619	6.1275	ng/ml			
13C2-PFDoA	8.146	93477	14826.07		13C2-PFDA_ISTD	7.290	55593	1.3458	ng/ml			
13C2-PFDA	7.290	55593	16746.71					1.1435	ng/ml			
13C2-PFHxA	5.162	71995	5934.67					2.3358	ng/ml			
13C2-PFTeDA	8.936	103568	30224.78		13C2-PFDA_ISTD	7.290	55593	1.3270	ng/ml			
13C4-PFOS	7.529	26189	7889.85					2.3758	ng/ml			
13C3-HFPODA	5.402	84971	25860.25		13C2-PFHxA_ISTD	5.162	71995	11.0463	ng/ml			
13C3-PFBS	5.213	48904	98350.03		18O2-PFHxS_ISTD	6.559	27619	2.5934	ng/ml			
13C3-PFHxS	6.560	33906	92511.75		18O2-PFHxS_ISTD	6.559	27619	2.6555	ng/ml			
NEtFOSAA	7.434	6815	1054.88		D5-NEtFOSAA_ISTD	7.498	62393	0.5611	ng/ml			
584.0 -> 526.0	7.433	5976	552.47	87.7								

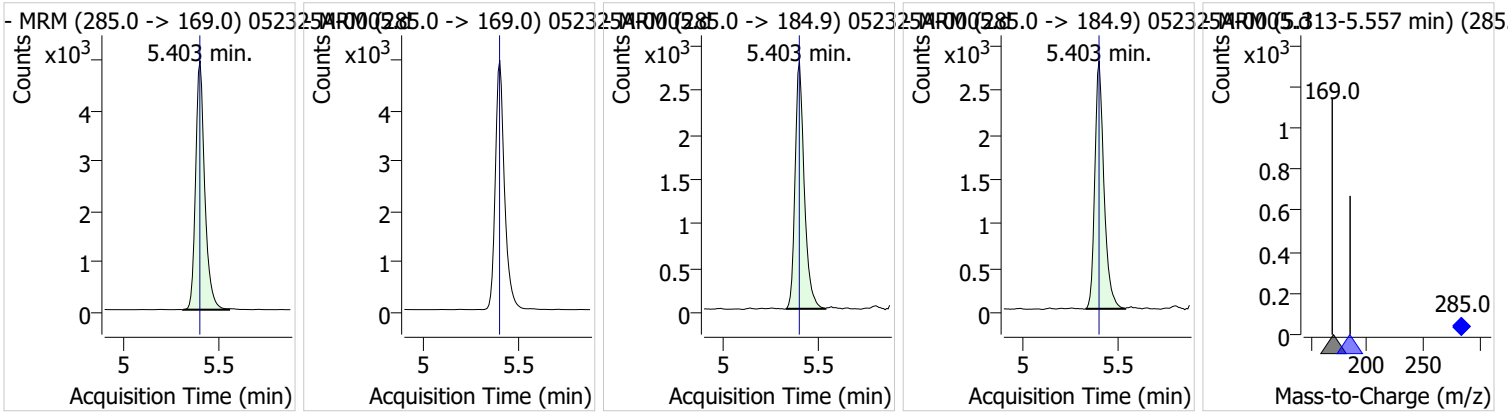
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	134482	14061093.76		13C2-PFHxA_ISTD	5.162	71995	2.6304	ng/ml			
NMeFOSAA	7.247	3207	20375.46		D3-NMeFOSAA_ISTD	7.327	82345	0.5240	ng/ml			
570.0 -> 483.0	7.246	3596	637.03	112.1								
PFBA	2.594	37005	1488.11		13C4-PFBA_ISTD	2.597	187806	1.9772	ng/ml			
13C5-PFHxA	5.161	85339	25208.72		13C2-PFHxA_ISTD	5.162	71995	2.6702	ng/ml			
PFBS	5.205	11460	1168.82		13C3-PFBS_ISTD	5.213	48904	0.4443	ng/ml			
298.9 -> 98.8	5.213	3814	185.04	33.3								
NMeFOSA	10.073	2817	920.32		D3-NMeFOSA_ISTD	10.118	12044	0.4914	ng/ml			
512.0 -> 169.0	10.074	4166	811.66	147.9								
PFDA	7.290	30266	563.43		13C6-PFDA_ISTD	7.289	72272	0.5118	ng/ml			
513.0 -> 219.0	7.290	5623	15952.27	18.6								
PFDoA	8.146	42714	1145.28		13C2-PFDoA_ISTD	8.146	93477	0.5073	ng/ml			
613.0 -> 319.0	8.147	4917	1414.77	11.5								
NEtFOSA	10.377	3571	2005.90		D5-NEtFOSA_ISTD	10.405	14896	0.4901	ng/ml			
526.0 -> 169.0	10.377	4796	861.21	134.3								
PFHpA	5.839	29135	729.73		13C4-PFHpA_ISTD	5.839	134482	0.4829	ng/ml			
362.9 -> 169.0	5.839	5111	1919.29	17.5								
PFHxA	5.163	20047	1192.34		13C5-PFHxA_ISTD	5.161	85339	0.5035	ng/ml			
313.0 -> 118.9	5.163	660	2119.89	3.3								
NMeFOSE	9.899	28852	2224.29		D7-NMeFOSE_ISTD	9.957	115925	5.0561	ng/ml			
PFHxS	6.498	7849	1447.61		13C3-PFHxS_ISTD	6.560	33906	0.4582	ng/ml			
398.9 -> 99.0	6.498	3527	736.70	44.9								
PFNA	6.789	21630	833.66		13C9-PFNA_ISTD	6.850	65281	0.4735	ng/ml			
463.0 -> 219.0	6.789	7026	821.75	32.5								
NEtFOSE	10.249	36282	1307.85		D9-NEtFOSE_ISTD	10.277	130656	5.1253	ng/ml			
PFOA	6.300	23836	592.21		13C8-PFOA_ISTD	6.377	99015	0.5096	ng/ml			
413.0 -> 169.0	6.300	7463	719.76	31.3								
PFOS	7.399	7421	730.82		13C8-PFOS_ISTD	7.528	27998	0.4484	ng/ml			
499.0 -> 99.0	7.402	3759	519.84	50.7								
PFPeA	4.239	30767	867.51		13C5-PFPeA_ISTD	4.237	138920	0.9837	ng/ml			
PFMPA	3.377	3365	465.56		13C4-PFBA_ISTD	2.597	187806	1.0357	ng/ml			
13C5-PFPeA	4.237	138920	11362.01		13C2-PFHxA_ISTD	5.162	71995	5.4483	ng/ml			
PFMBA	4.556	22596	8020.94		13C5-PFPeA_ISTD	4.237	138920	0.9793	ng/ml			
PFTrDA	8.559	50199	1230.19		13C2-PFDoA_ISTD	8.146	93477	0.5106	ng/ml			
663.0 -> 168.9	8.559	3840	976.62	7.6								
PFEESA	5.570	65787	19045.79		13C5-PFHxA_ISTD	5.161	85339	0.9644	ng/ml			
315.0 -> 83.0	5.579	4392	1537.28	6.7								
13C6-PFDA	7.289	72272	21560.59		13C2-PFDA_ISTD	7.290	55593	1.3806	ng/ml			
NFDHA	5.066	4939	16567.39		13C5-PFHxA_ISTD	5.161	85339	1.0700	ng/ml			
295.0 -> 85.0	5.067	1758	12903.80	35.6								
PFOSA	8.899	8679	1373.47		13C8-PFOSA_ISTD	8.959	38678	0.5101	ng/ml			
497.9 -> 478.0	8.902	196	143.85	2.3								
13C7-PFUnA	7.721	80339	6425.49		13C2-PFDA_ISTD	7.290	55593	1.3742	ng/ml			
13C4-PFOA	6.377	18887	8312.31					2.2842	ng/ml			
PFDS	8.406	5525	1582.99		13C8-PFOS_ISTD	7.528	27998	0.4693	ng/ml			
599.0 -> 98.8	8.397	2815	17178.30	50.9								
PFNS	7.977	6723	623.14		13C8-PFOS_ISTD	7.528	27998	0.4645	ng/ml			
549.0 -> 98.8	7.977	3143	13492.18	46.8								
PFPeS	5.980	10278	4848.47		13C3-PFHxS_ISTD	6.560	33906	0.4833	ng/ml			
349.0 -> 98.9	5.979	4234	37699.82	41.2								
PFTeDA	8.937	49083	1112.04		13C2-PFTeDA_ISTD	8.936	103568	0.5134	ng/ml			

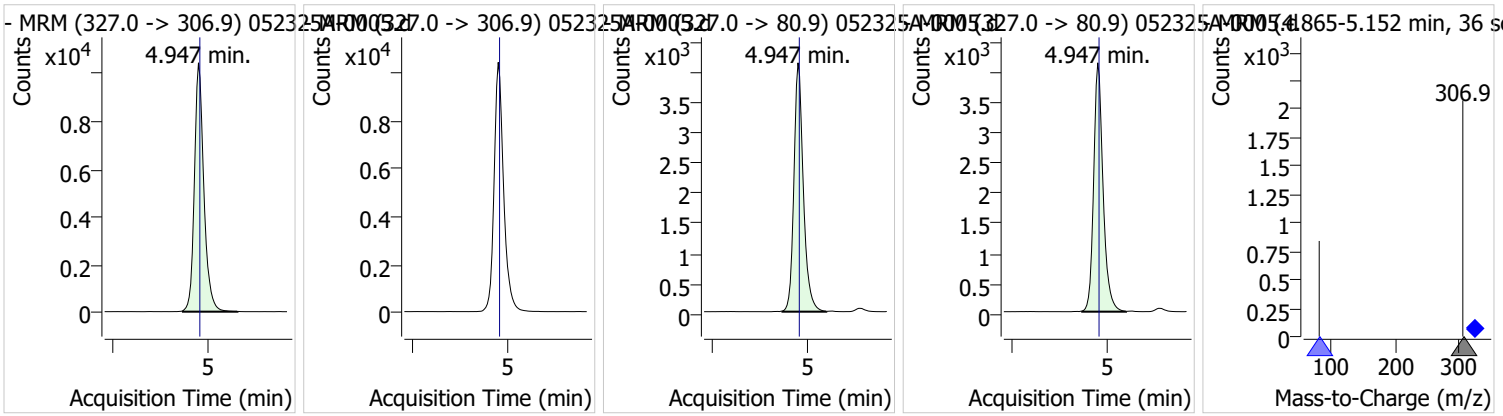
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	2632	12694.79	5.4								
PFUnA	7.722	33632	1546.21		13C7-PFUnA_ISTD	7.721	80339	0.5013	ng/ml			
563.0 -> 269.1	7.722	5582	18517.51	16.6								
13C3-PFBA	2.592	72648	1946.67					4.7838	ng/ml			
3:3FTCA	3.679	1920	453.32		13C5-PFPeA_ISTD	4.237	138920	2.4407	ng/ml			
241.0 -> 117.0	3.682	933	53.48	48.6								
5:3FTCA	5.585	40929	44796.68		13C5-PFHxA_ISTD	5.161	85339	12.8504	ng/ml			
341.0 -> 217.0	5.585	35539	3062.55	86.8								
7:3FTCA	6.754	43485	2435.21		13C9-PFNA_ISTD	6.850	65281	12.4514	ng/ml			
441.0 -> 337.0	6.754	43472	16274.65	100.0								
13C5-PFNA	6.850	53597	4904.73					1.1333	ng/ml			
18O2-PFHxS	6.559	27619	29423.42					2.4315	ng/ml			
PFDoS	9.171	3726	9717.53		13C8-PFOS_ISTD	7.528	27998	0.4707	ng/ml			
698.9 -> 99.0	9.170	2177	381.67	58.4								
TDCA					13C8-PFOS_ISTD	7.528	27998	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	14888	1984.62		13C3-PFPrA_ISTD	0.907	84221	2.0118	ng/ml			
13C3-PFPrA	0.907	84221	31885.44		13C3-PFBA_ISTD	2.592	72648	10.7163	ng/ml			
TFSI	5.900	66180	2524.36		13C3-HFPODA_ISTD	5.402	84971	1.0439	ng/ml			
279.9 -> 77.9	5.900	45659	178504.31	69.0								
13C8-PFOA	6.377	99015	211170.92		13C4-PFOA_ISTD	6.377	18887	2.7982	ng/ml			
13C8-PFOS	7.528	27998	3562.81		13C4-PFOS_ISTD	7.529	26189	2.7335	ng/ml			
13C8-PFOSA	8.959	38678	10819.67		13C4-PFOS_ISTD	7.529	26189	2.6262	ng/ml			
13C9-PFNA	6.850	65281	19782.70		13C5-PFNA_ISTD	6.850	53597	1.3785	ng/ml			
D3-NMeFOSA	10.118	12044	3406.52		13C4-PFOS_ISTD	7.529	26189	2.5667	ng/ml			
D3-NMeFOSAA	7.327	82345	1631.53		13C4-PFOS_ISTD	7.529	26189	5.0552	ng/ml			
D5-NEtFOSA	10.405	14896	3424.49		13C4-PFOS_ISTD	7.529	26189	2.6408	ng/ml			
D5-NEtFOSAA	7.498	62393	3914.50		13C4-PFOS_ISTD	7.529	26189	5.0435	ng/ml			
D7-NMeFOSE	9.957	115925	39694.10		13C4-PFOS_ISTD	7.529	26189	25.7339	ng/ml			
D9-NEtFOSE	10.277	130656	4721.38		13C4-PFOS_ISTD	7.529	26189	26.1196	ng/ml			

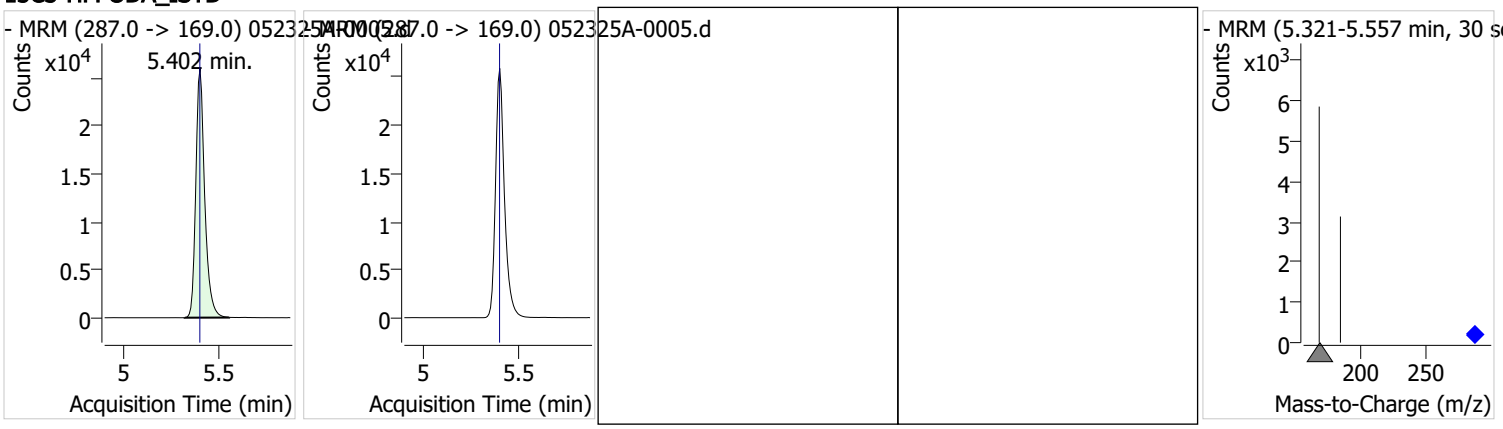
HFPO-DA



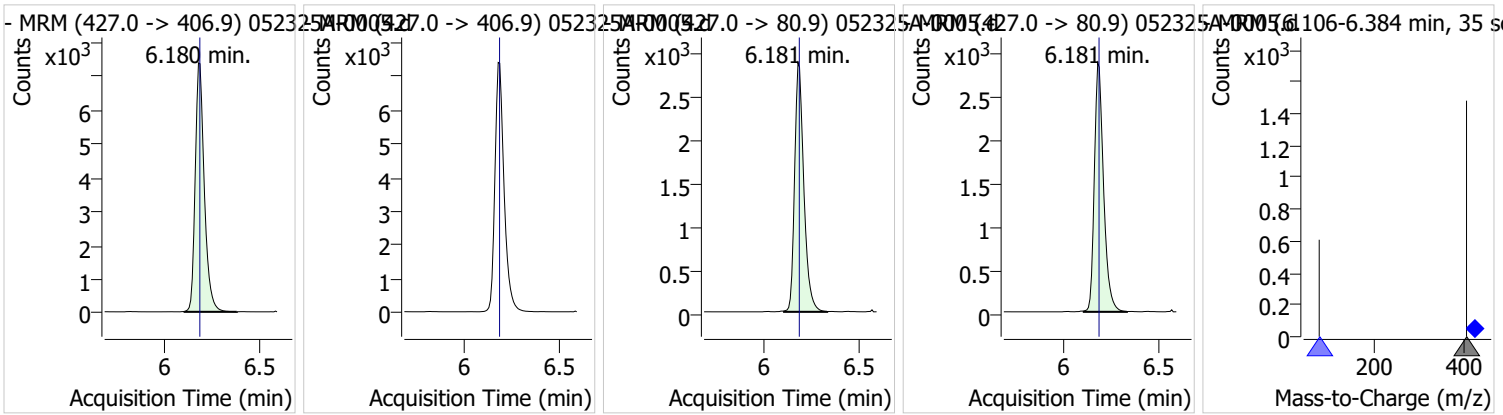
4:2FTS



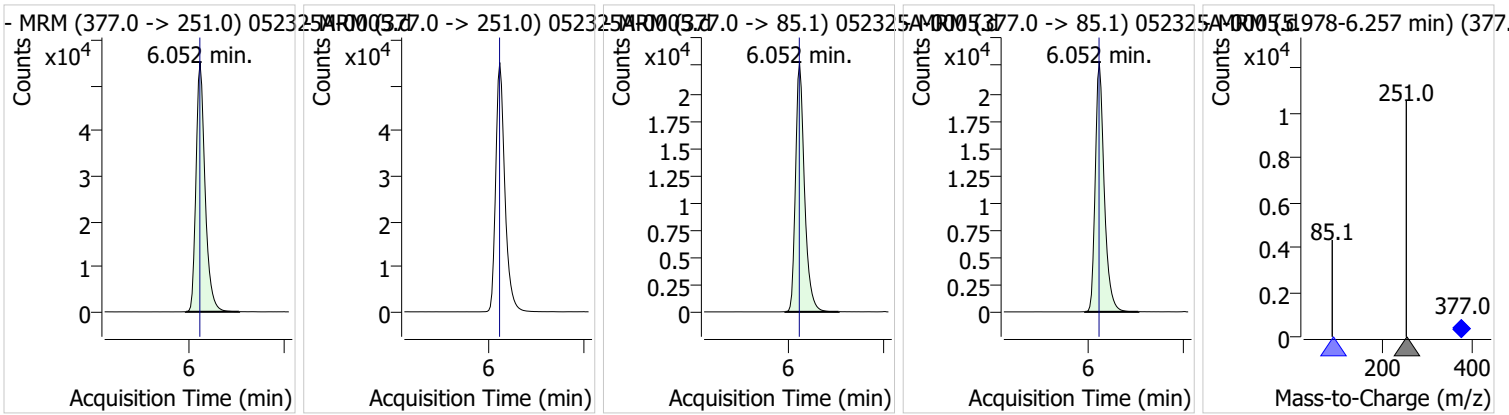
13C3-HFPODA_ISTD



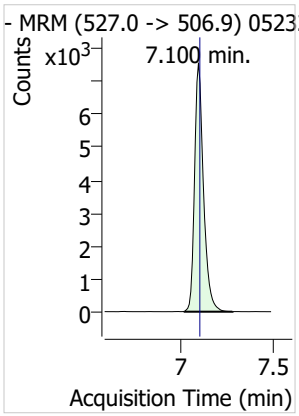
6:2FTS

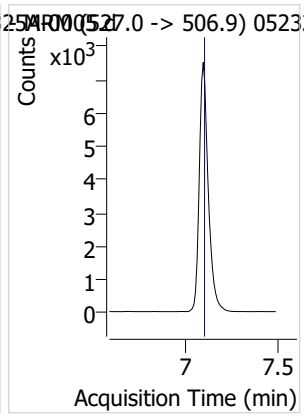


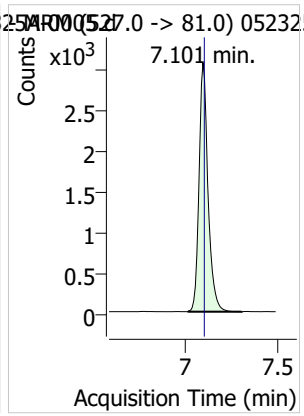
ADONA

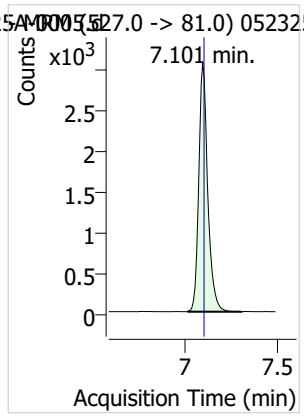


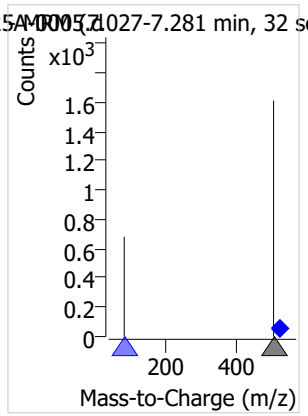
8:2FTS



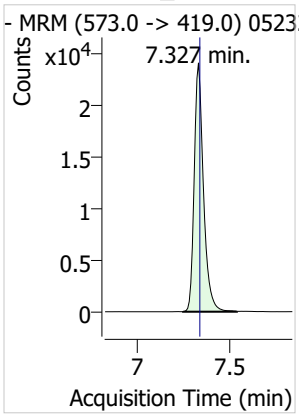


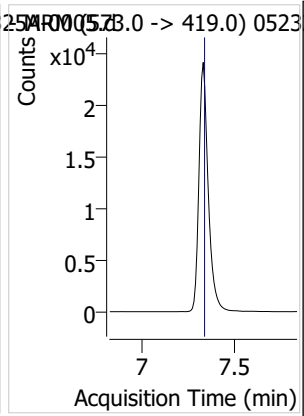


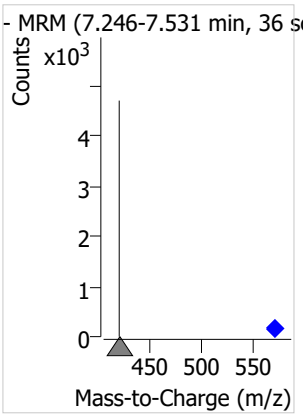




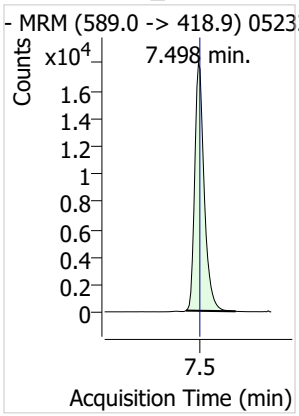
D3-NMeFOSAA_ISTD

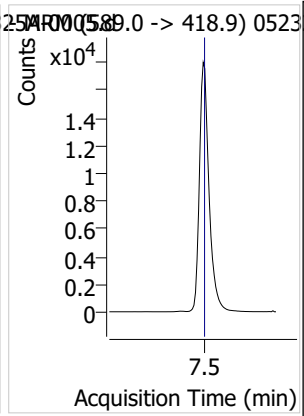


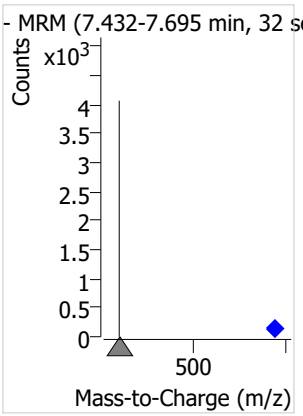




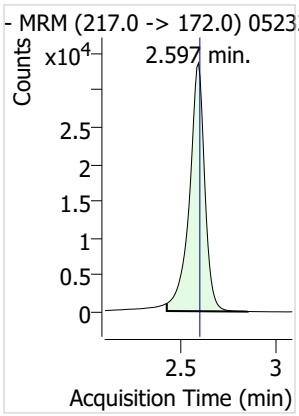
D5-NEtFOSAA_ISTD

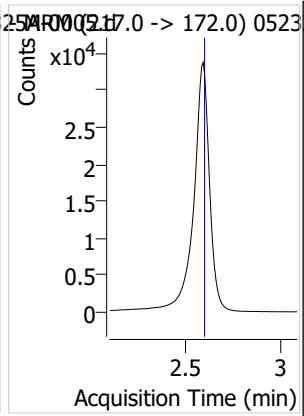


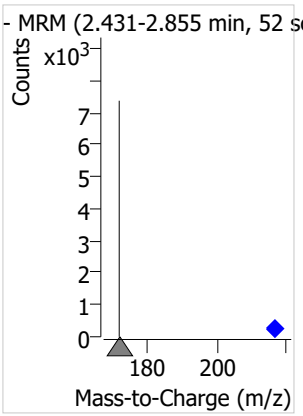




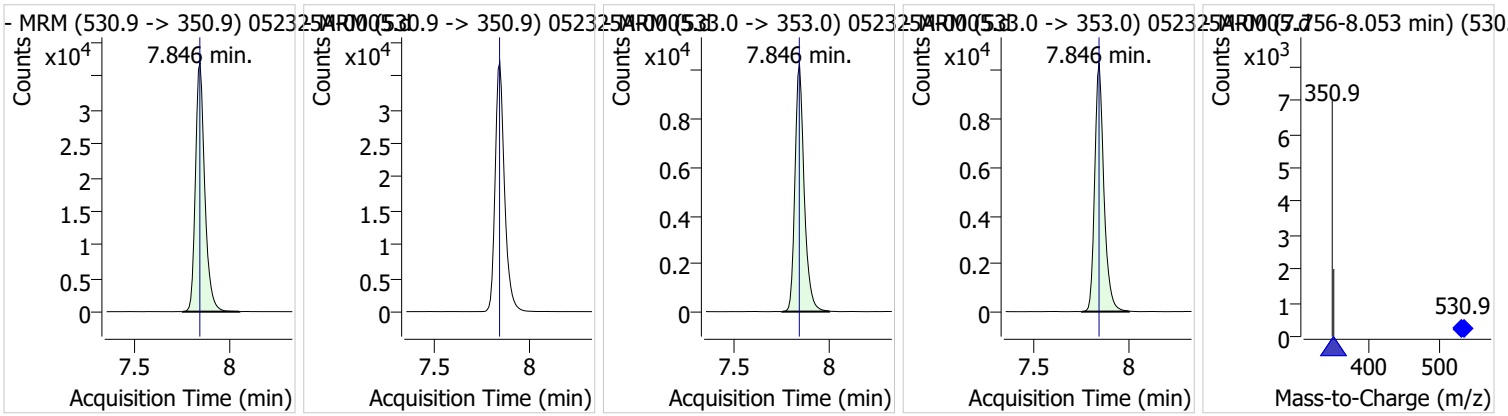
13C4-PFBA



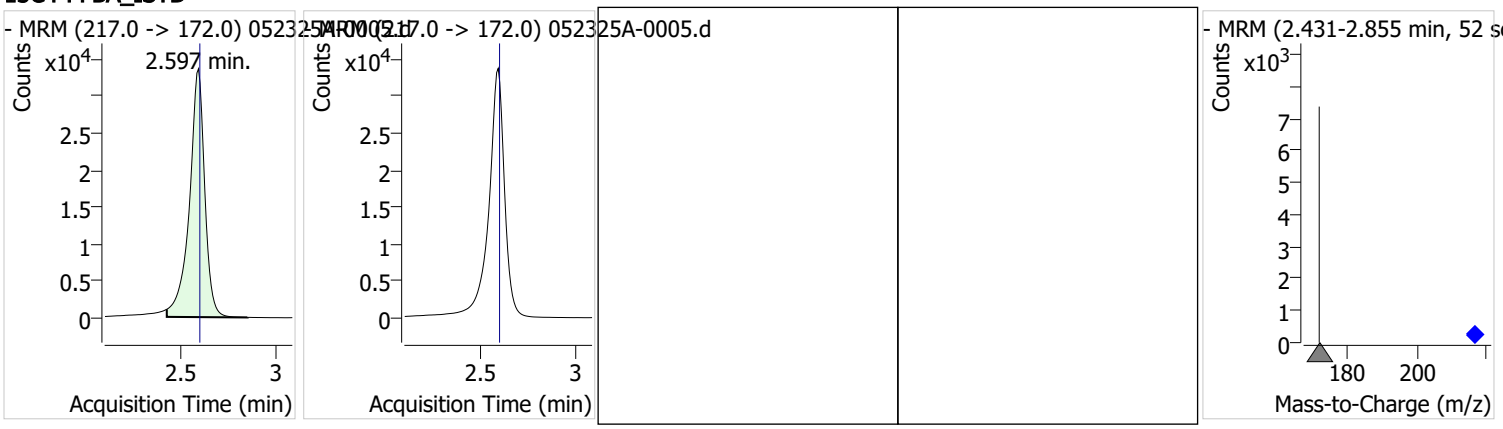




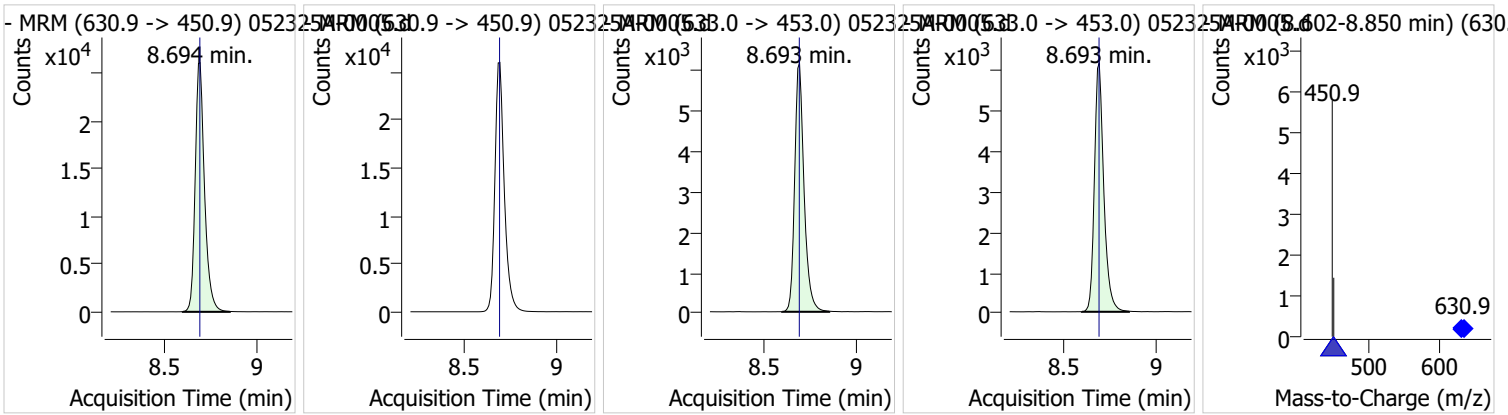
9Cl-PF3ONS



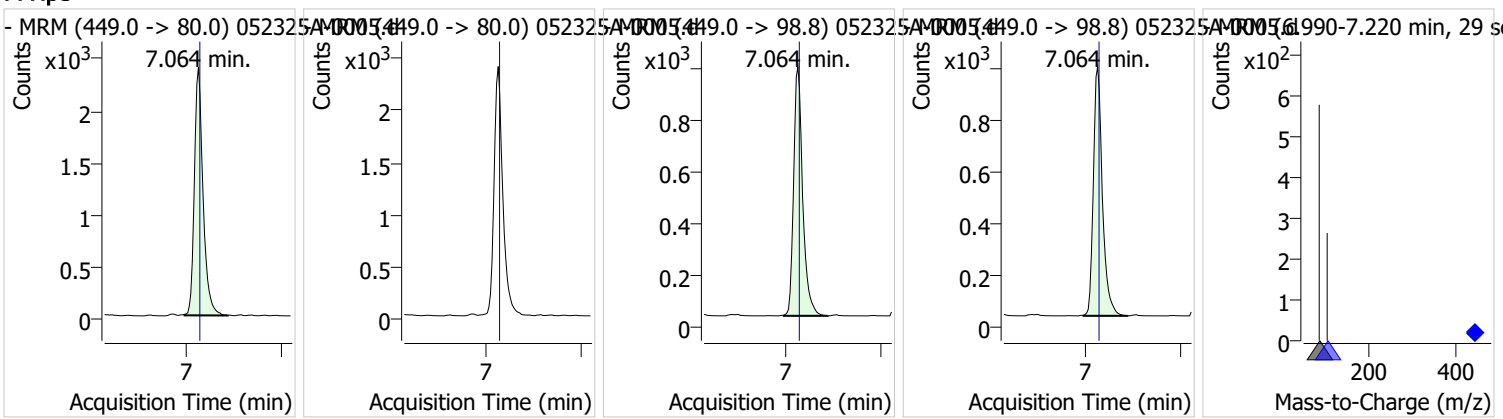
13C4-PFBA_ISTD



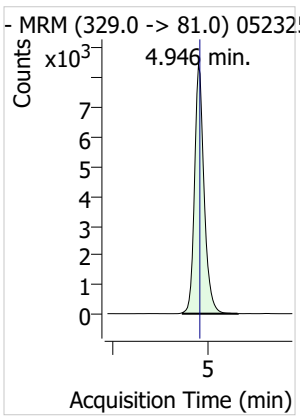
11Cl-PF3OUdS

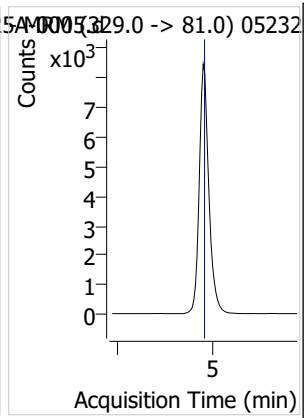


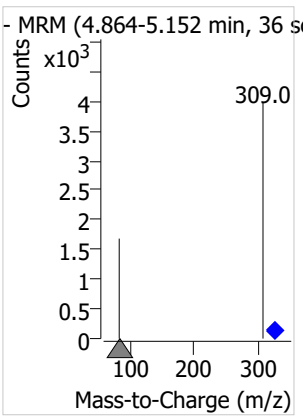
PFHpS



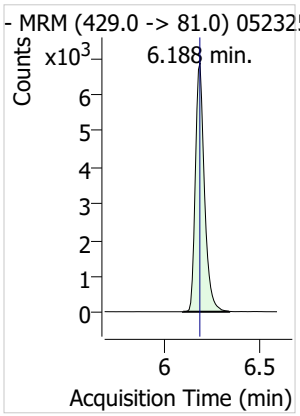
13C2-4:2FTS

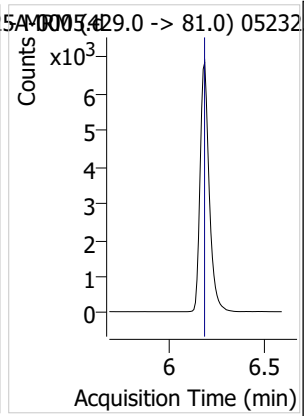


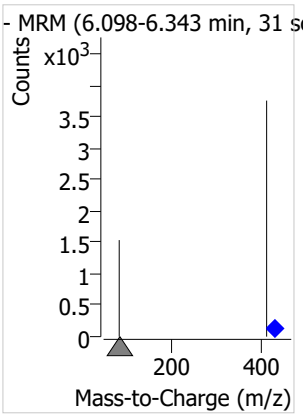




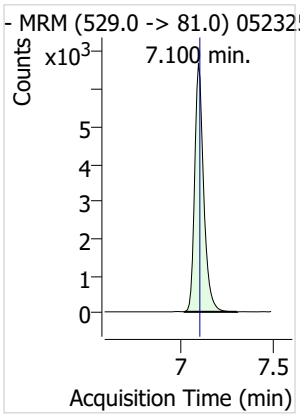
13C2-6:2FTS

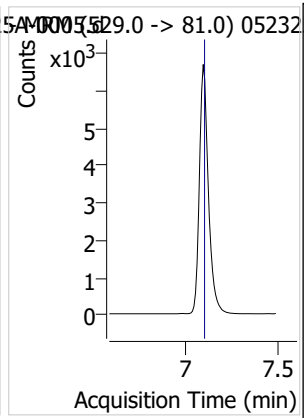


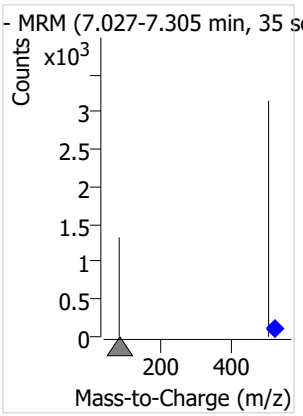




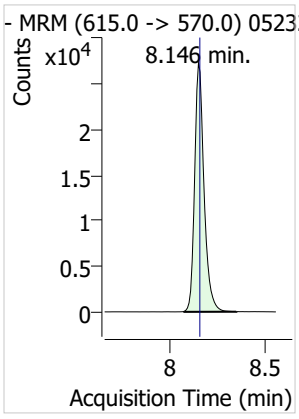
13C2-8:2FTS

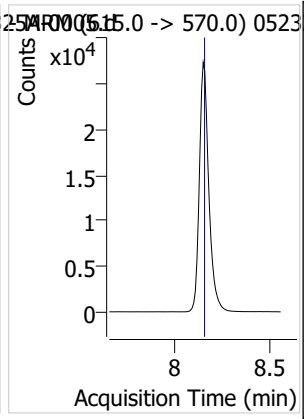


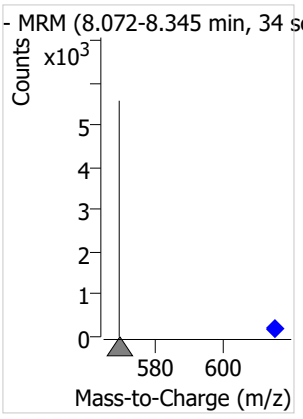




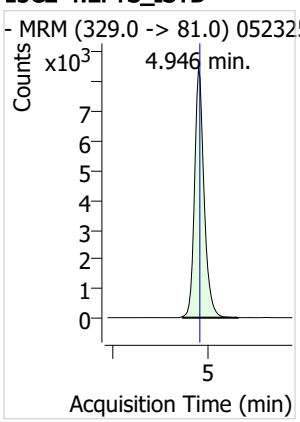
13C2-PFDoA

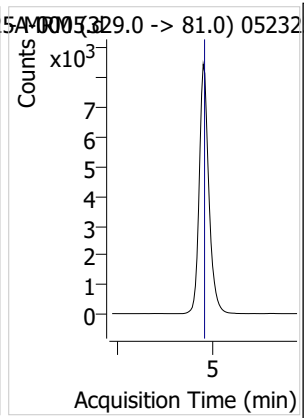


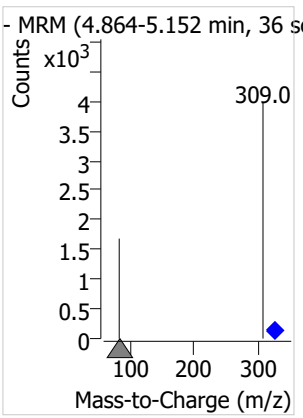




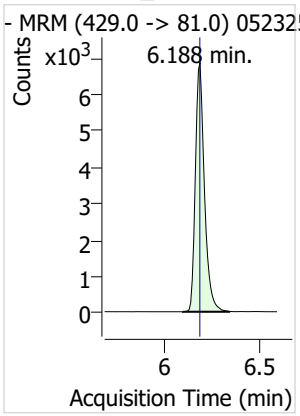
13C2-4:2FTS_ISTD

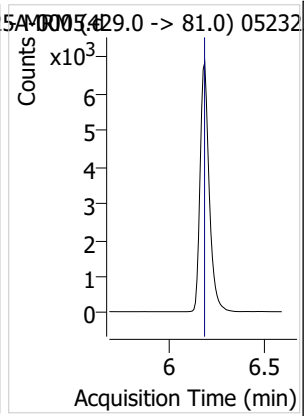


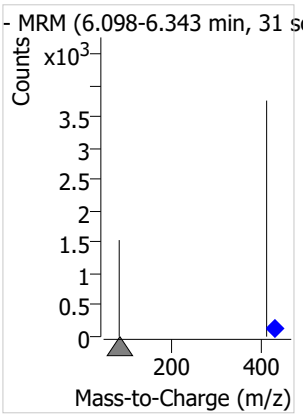




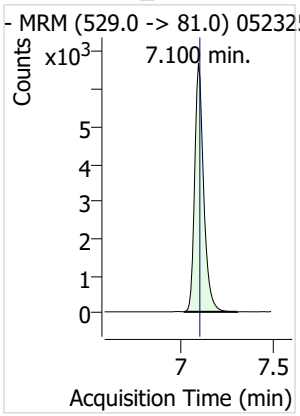
13C2-6:2FTS_ISTD

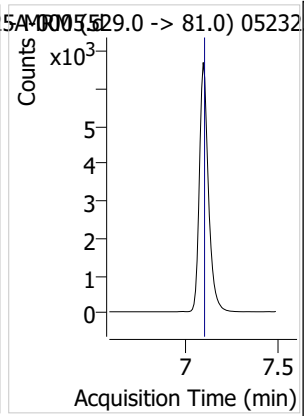


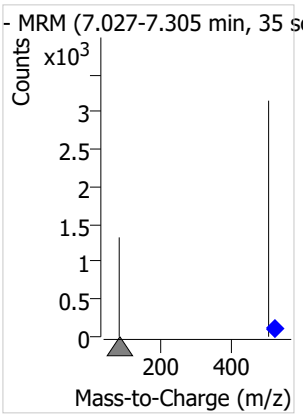




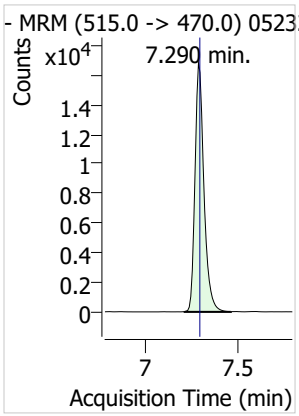
13C2-8:2FTS_ISTD

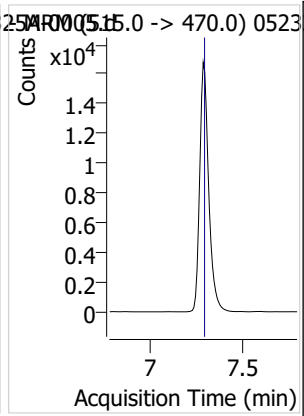


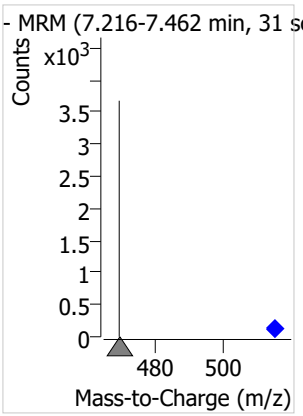




13C2-PFDA



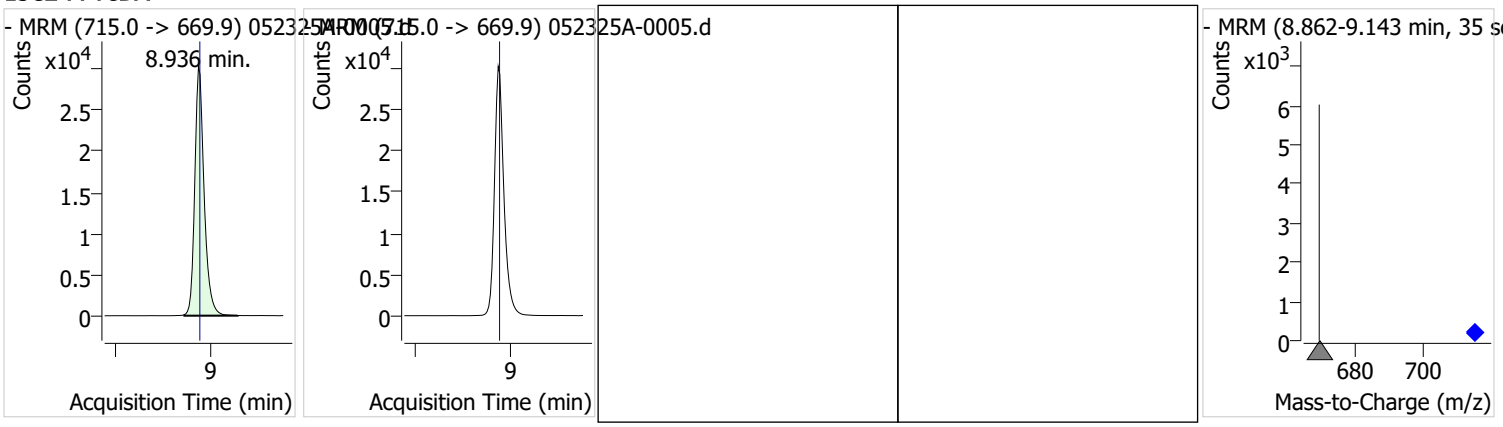




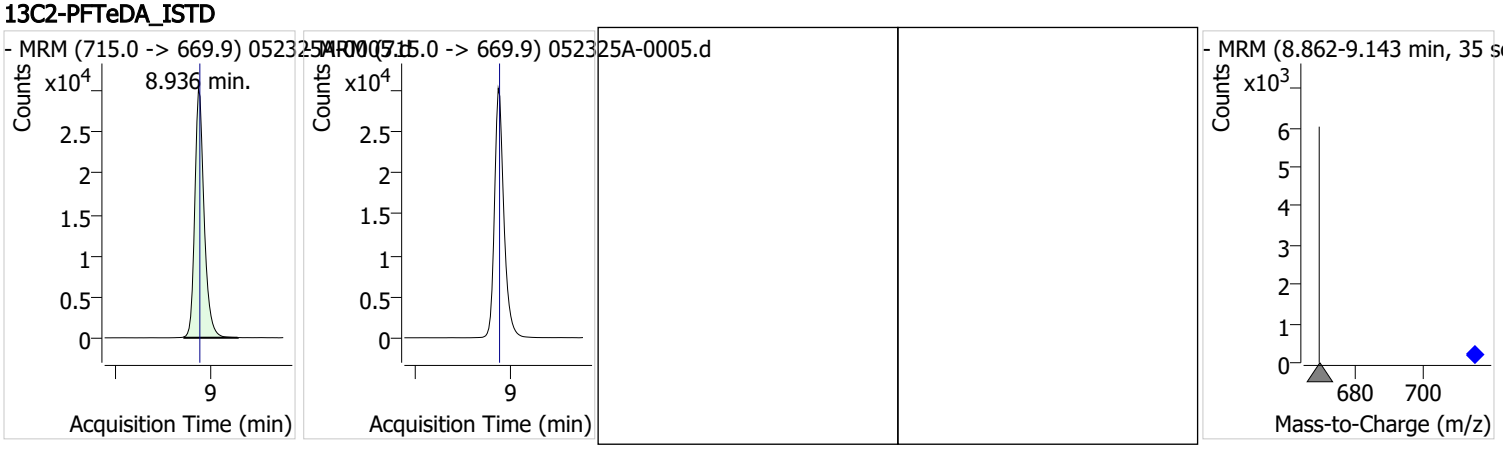
13C2-PFHxA



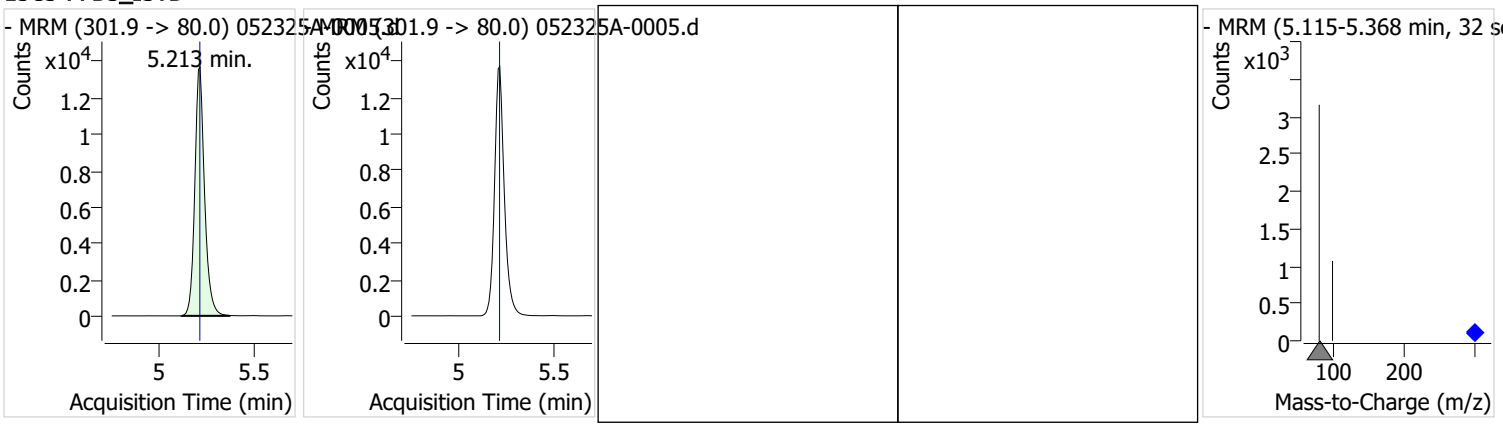
13C2-PFTeDA



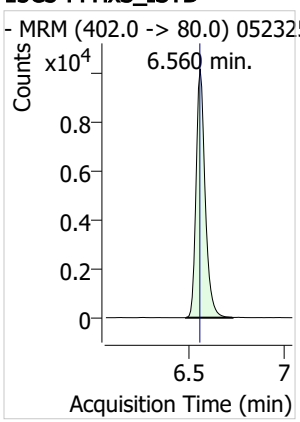
13C2-PFTeDA_ISTD

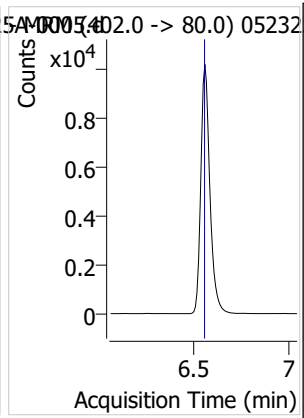


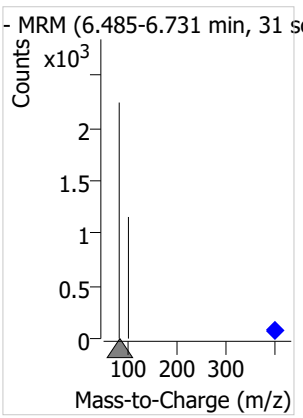
13C3-PFBS_ISTD



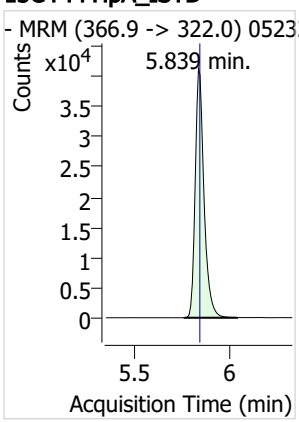
13C3-PFHxS_ISTD

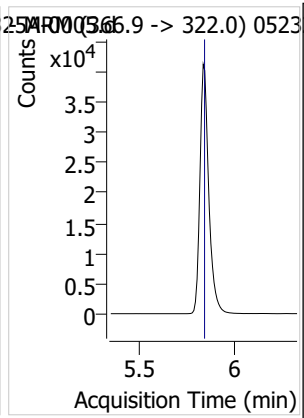


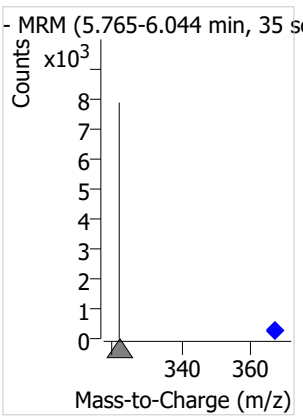




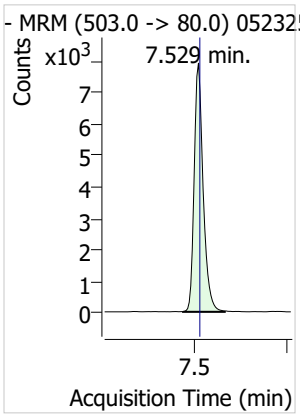
13C4-PFHpA_ISTD

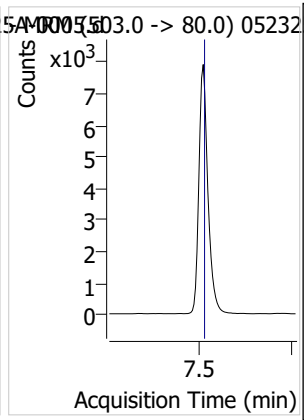


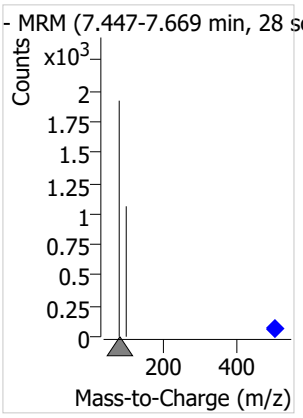




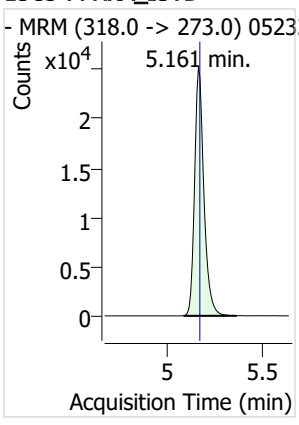
13C4-PFOS

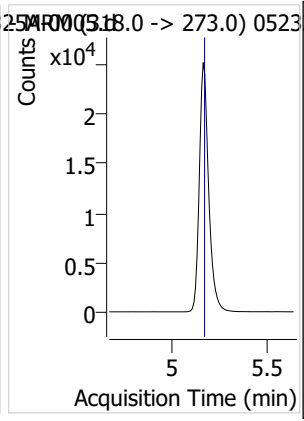


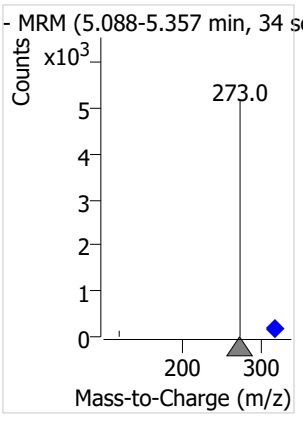




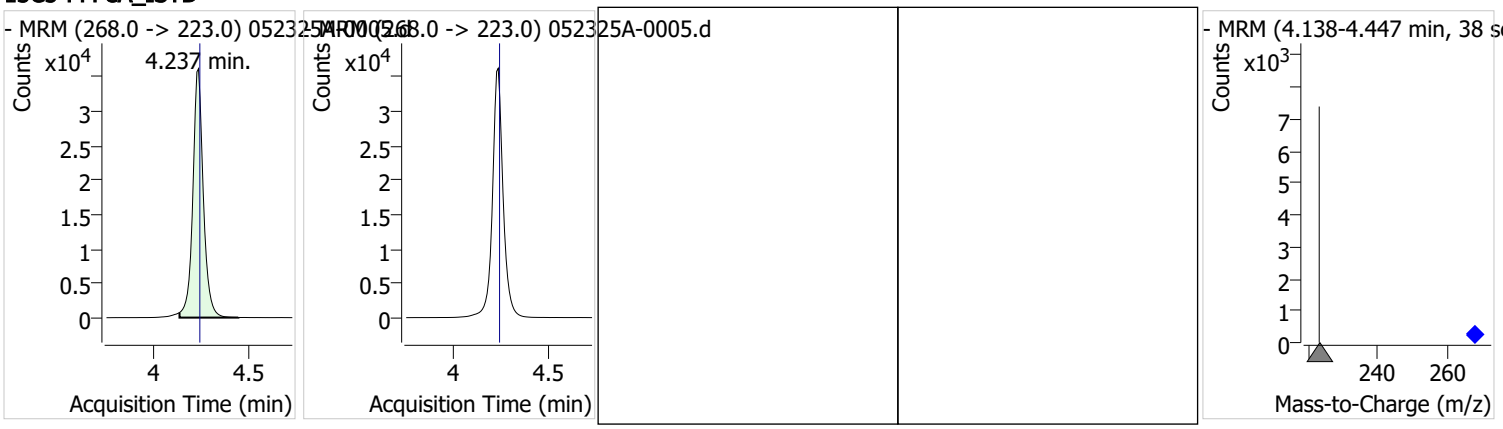
13C5-PFHxA_ISTD



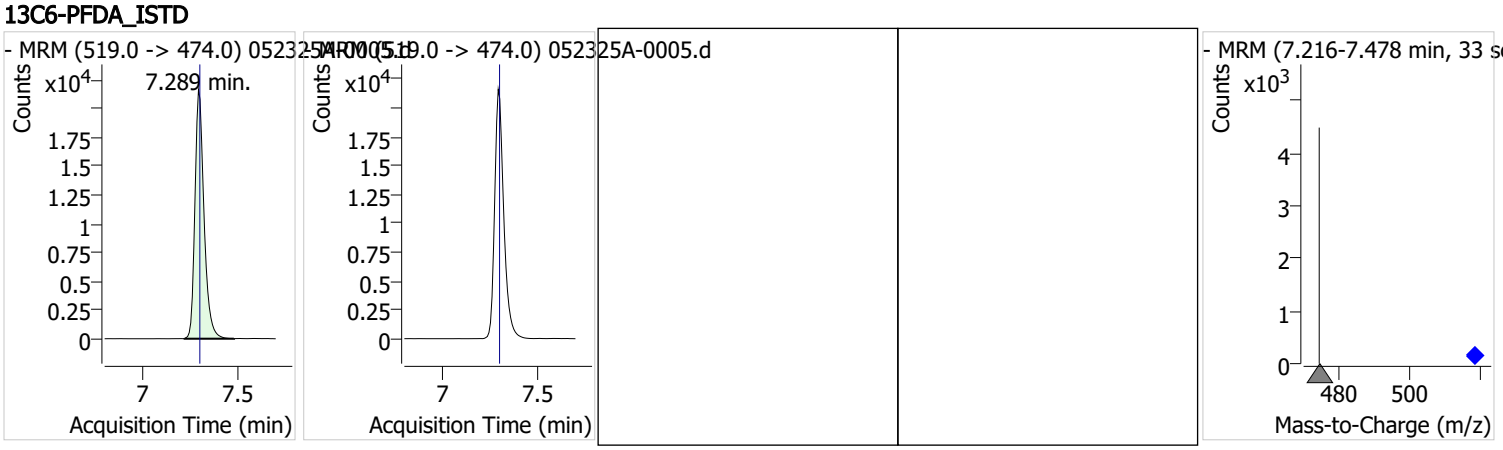




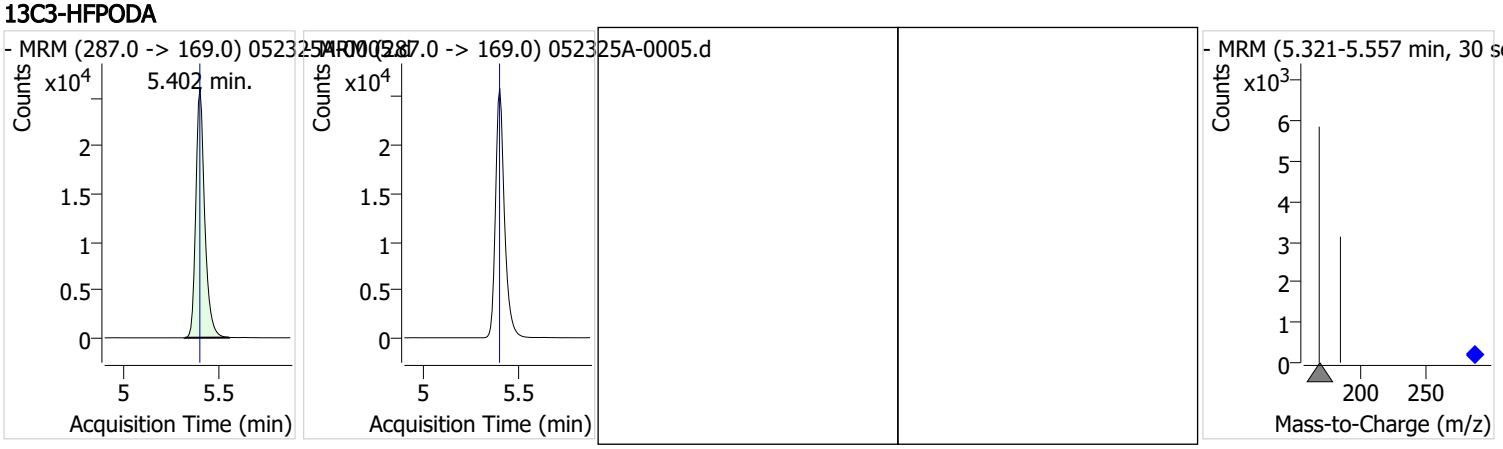
13C5-PFPeA_ISTD



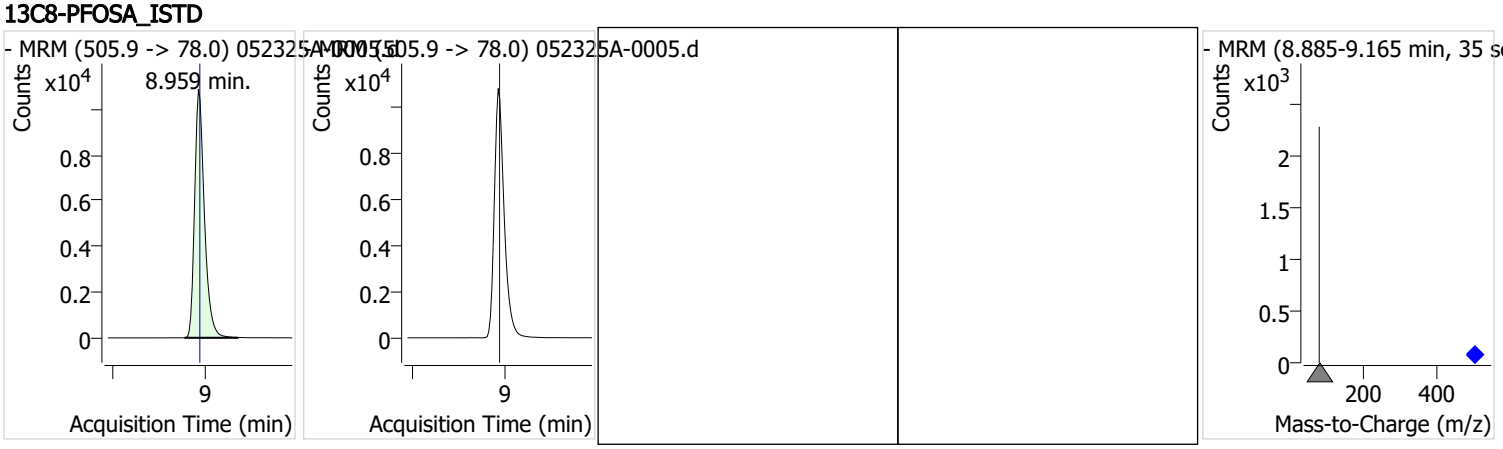
13C6-PFDA_ISTD



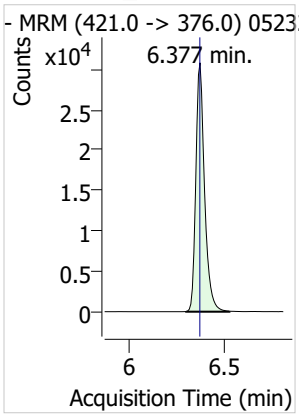
13C3-HFPODA

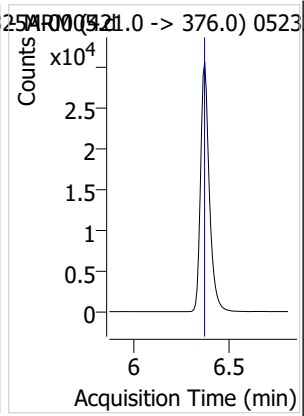


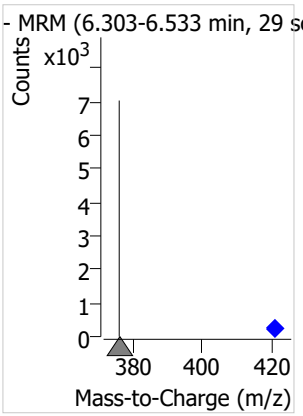
13C8-PFOSA_ISTD



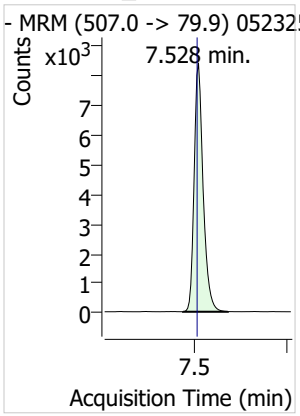
13C8-PFOA_ISTD

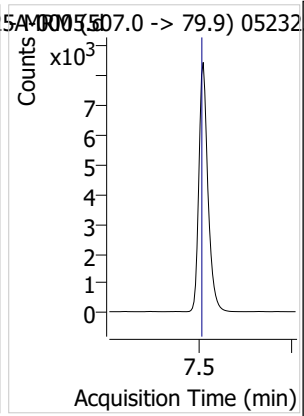


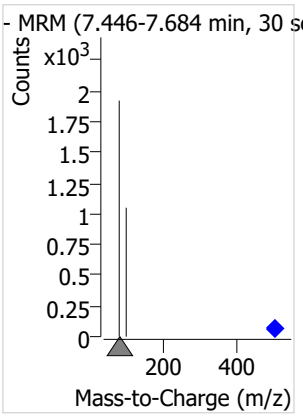




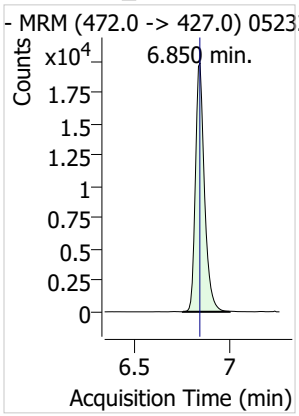
13C8-PFOS_ISTD

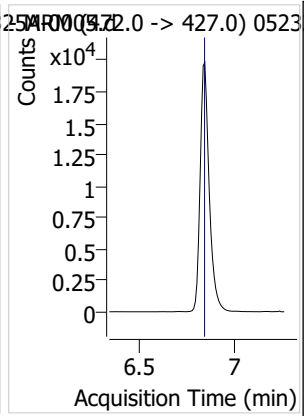


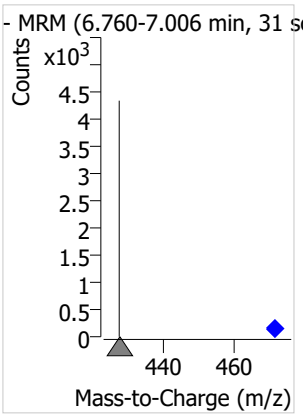




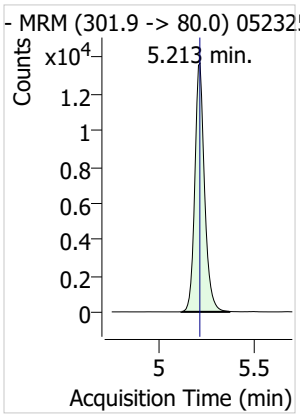
13C9-PFNA_ISTD

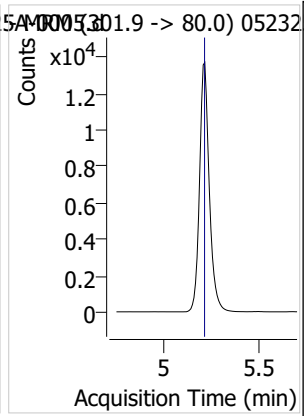


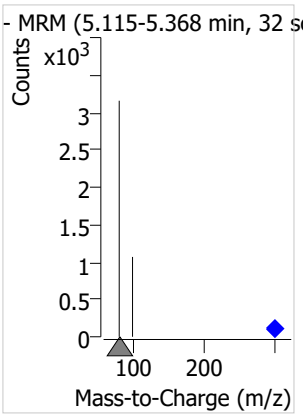




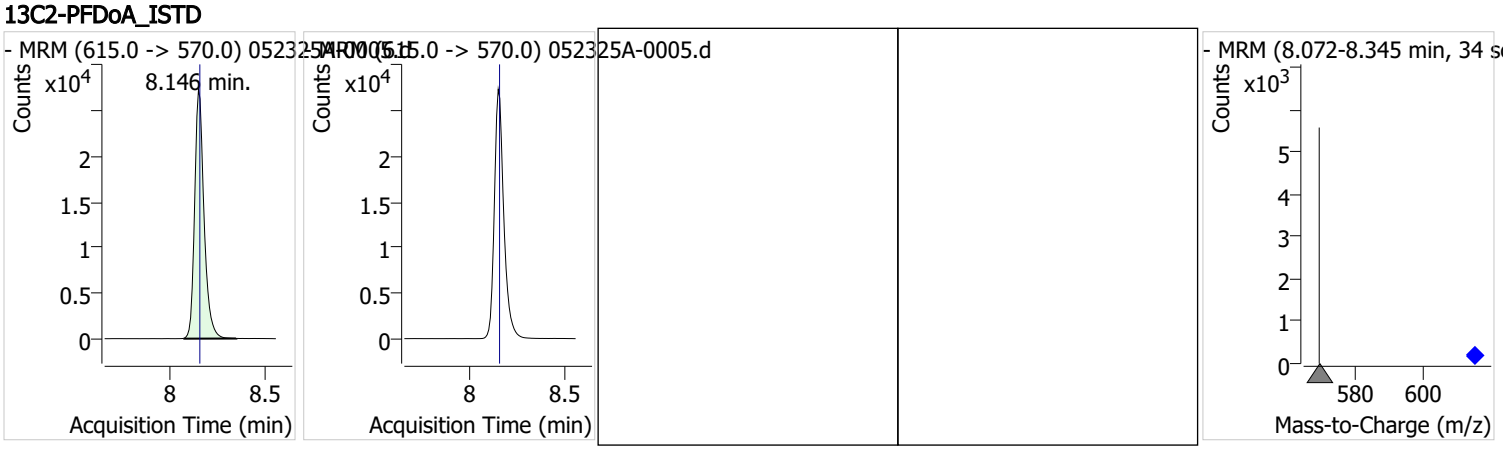
13C3-PFBS



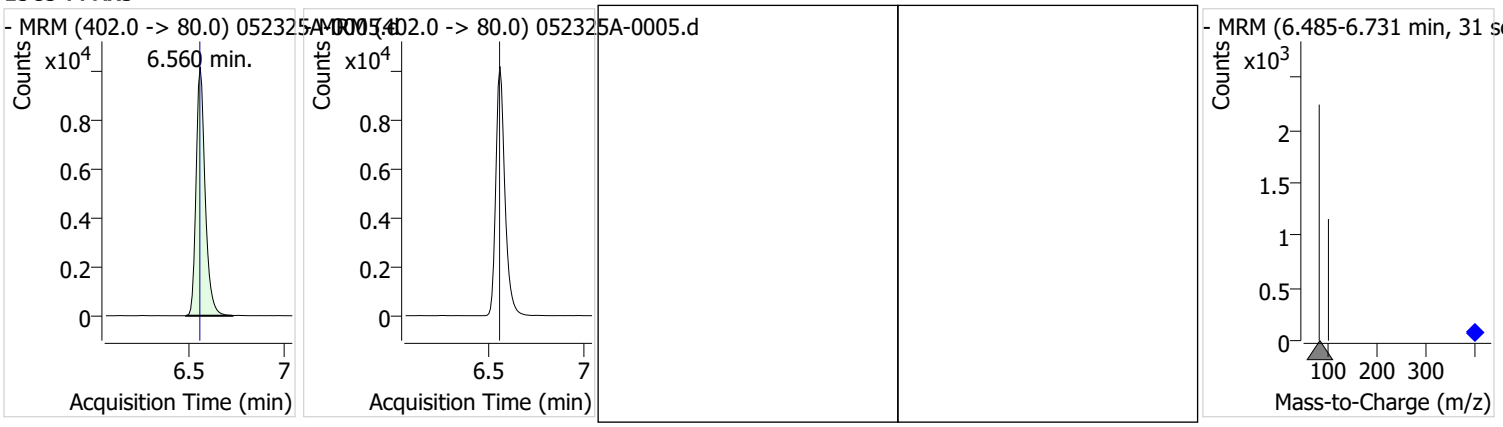




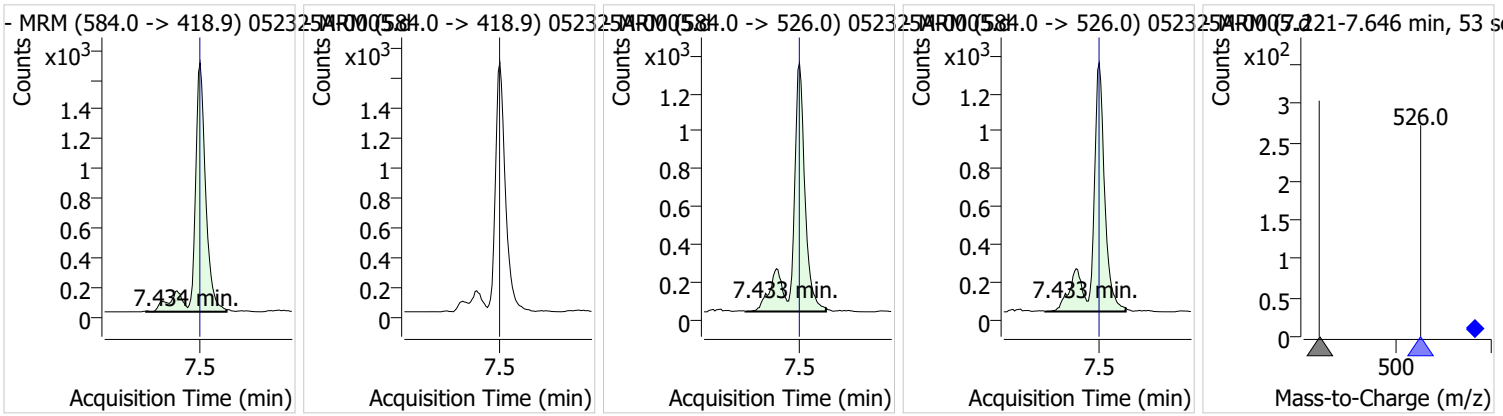
13C2-PFDoA_ISTD



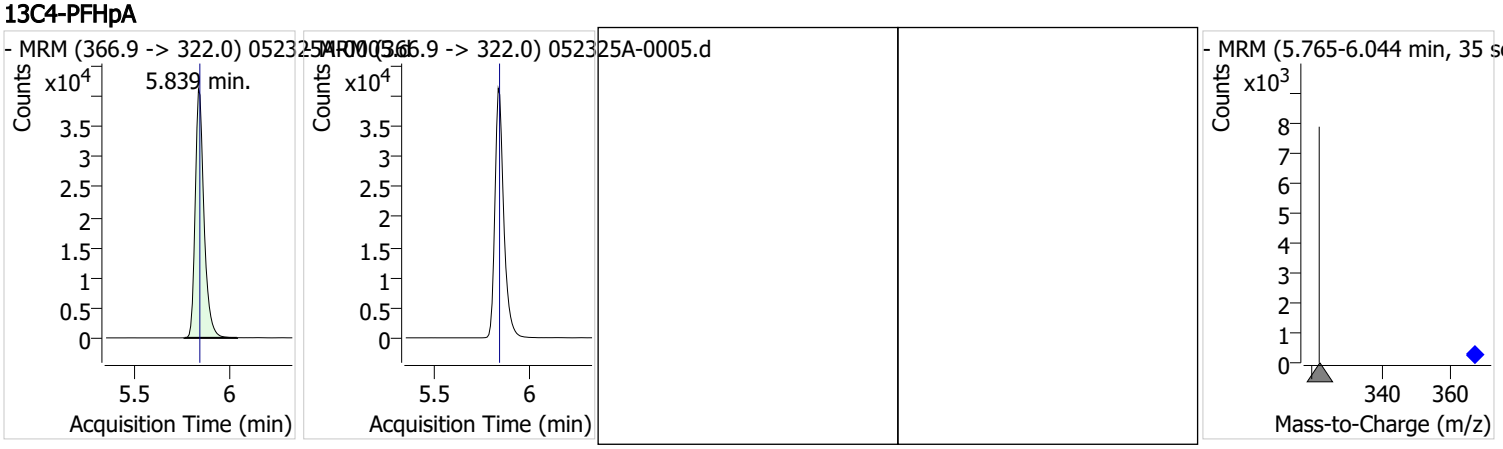
13C3-PFHxS



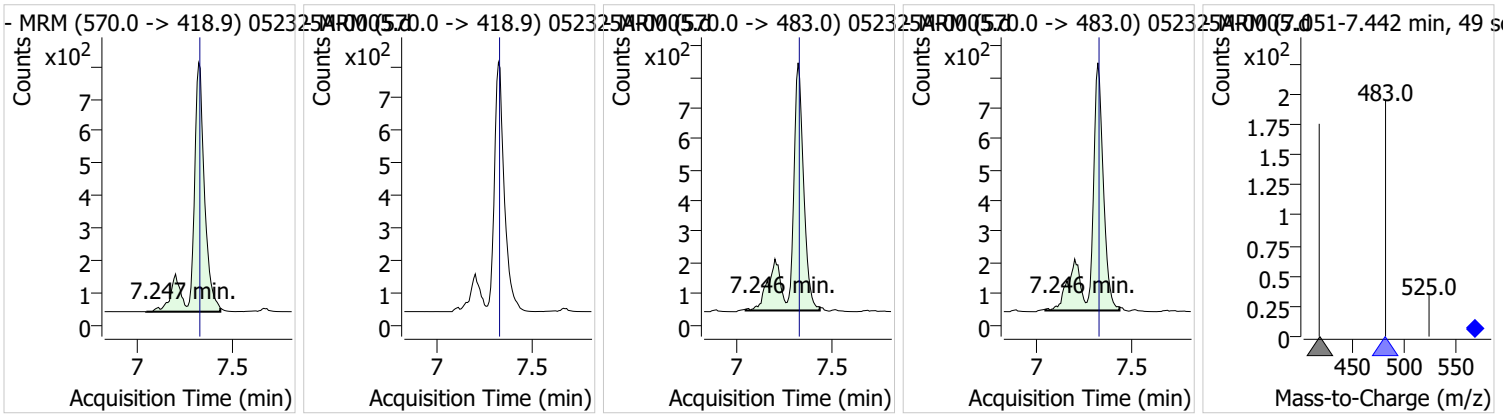
NEtFOSAA



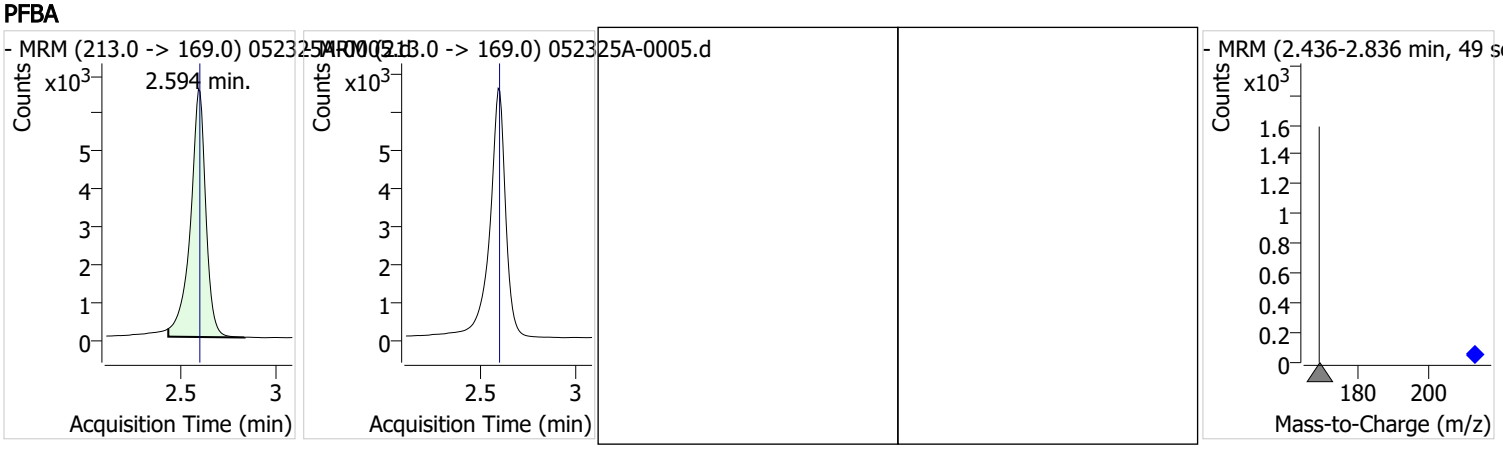
13C4-PFHpA



NMeFOSAA



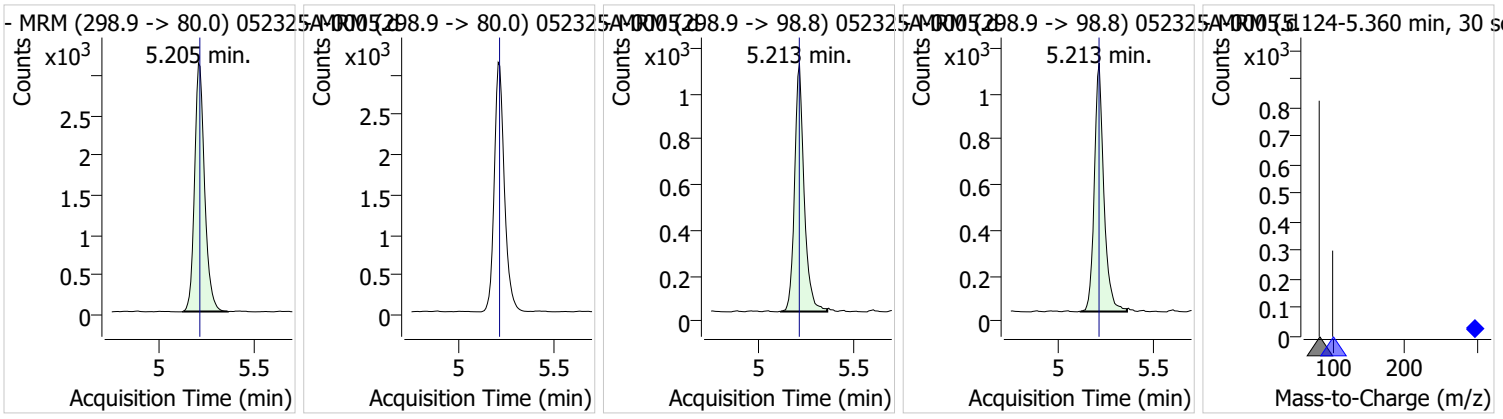
PFBA



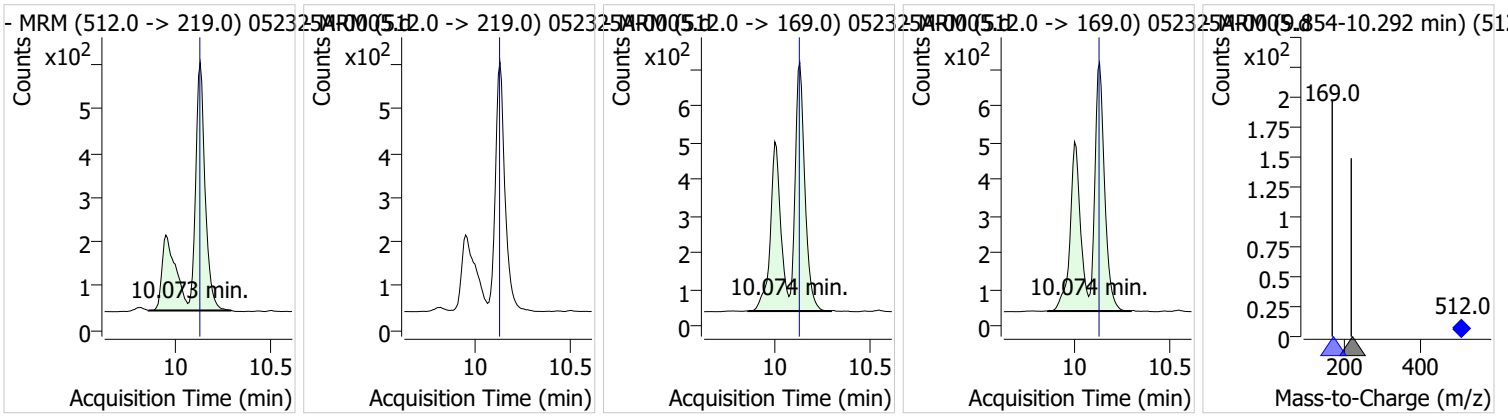
13C5-PFHxA



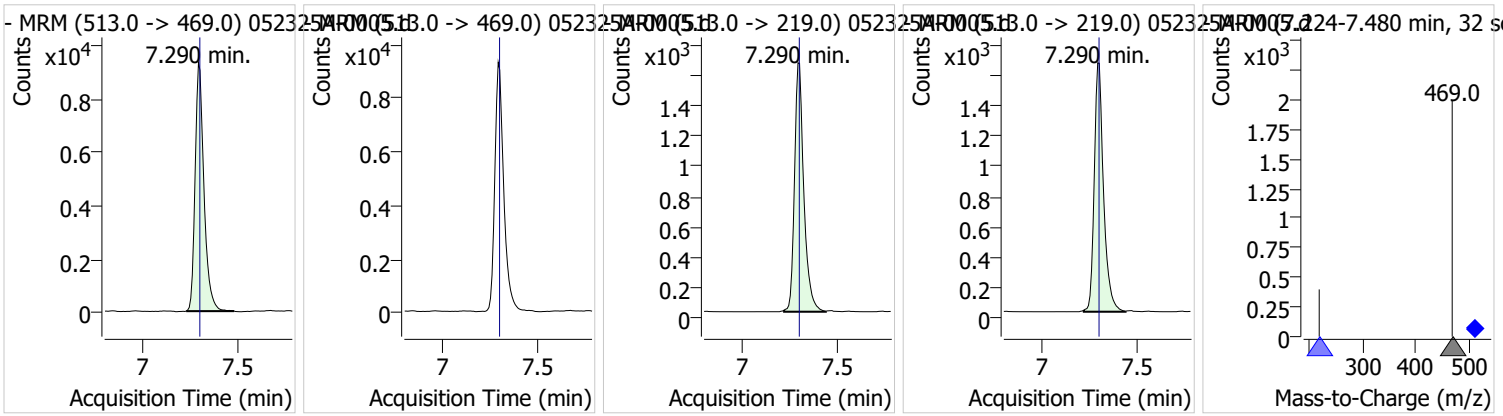
PFBS



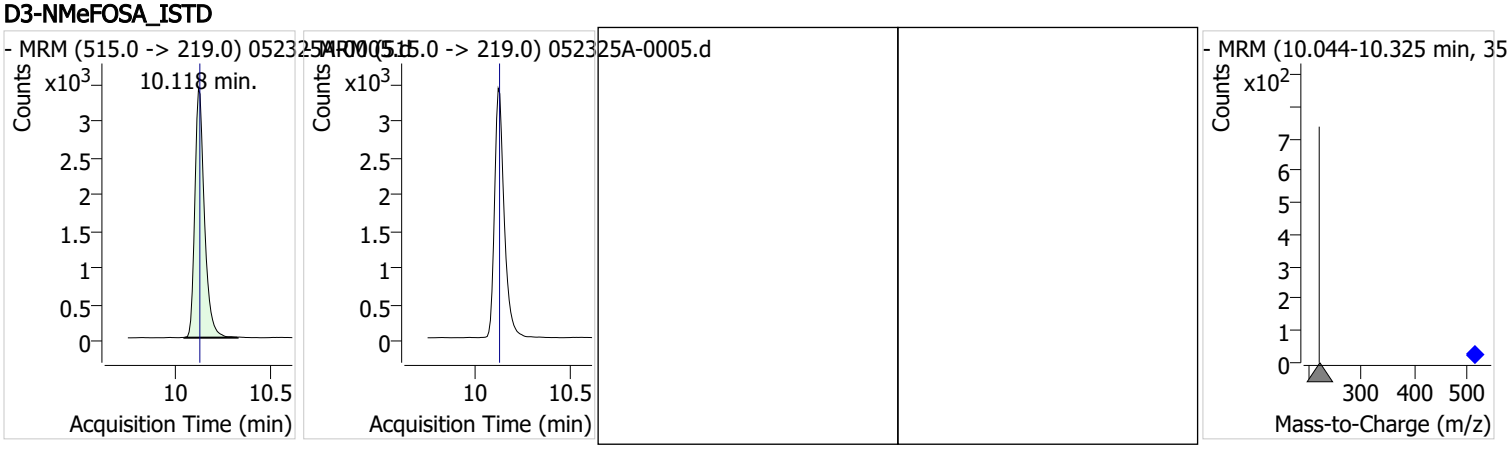
NMeFOSA



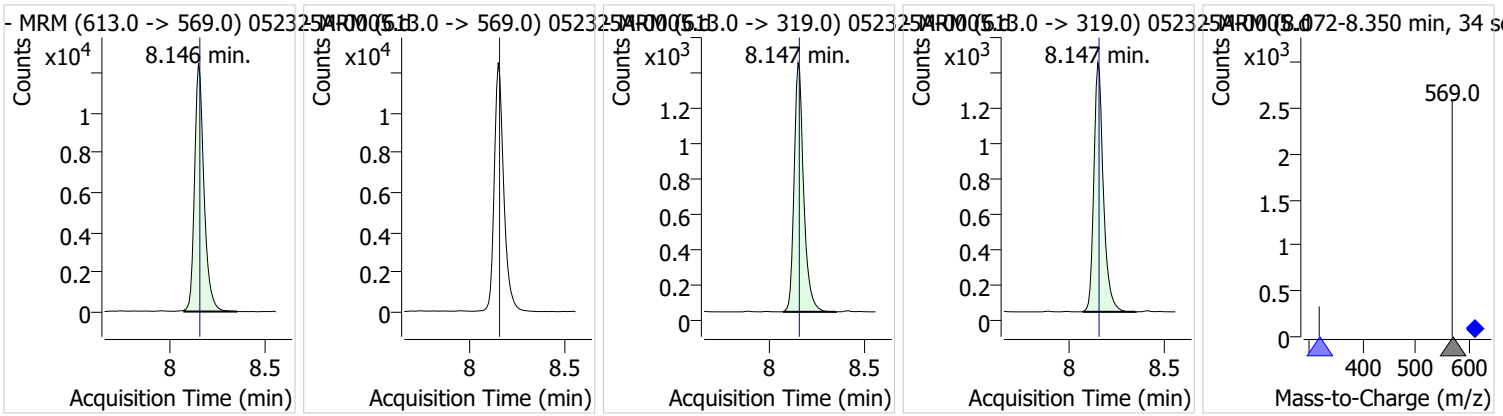
PFDA



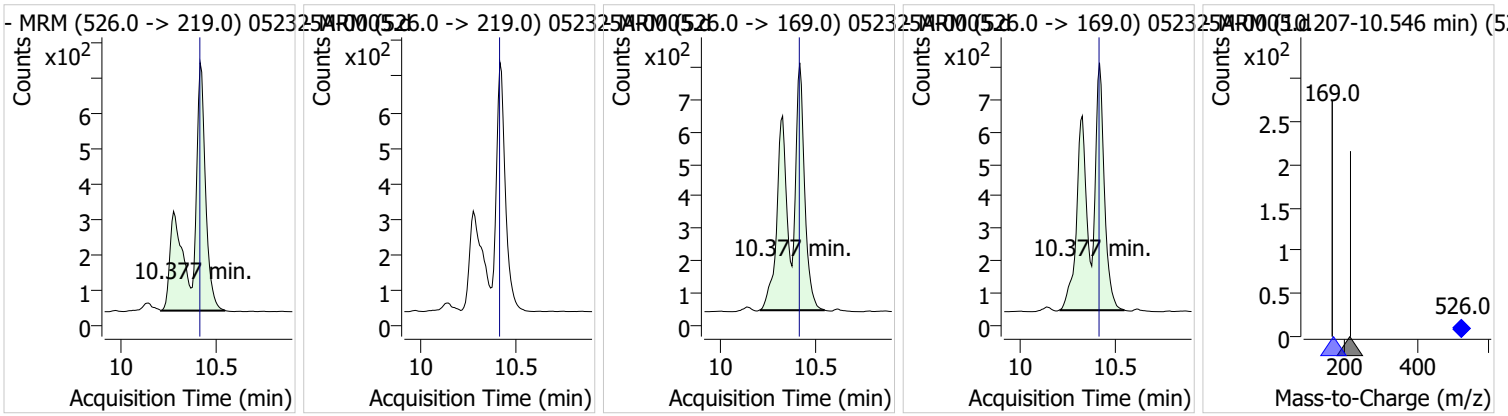
D3-NMeFOSA_ISTD



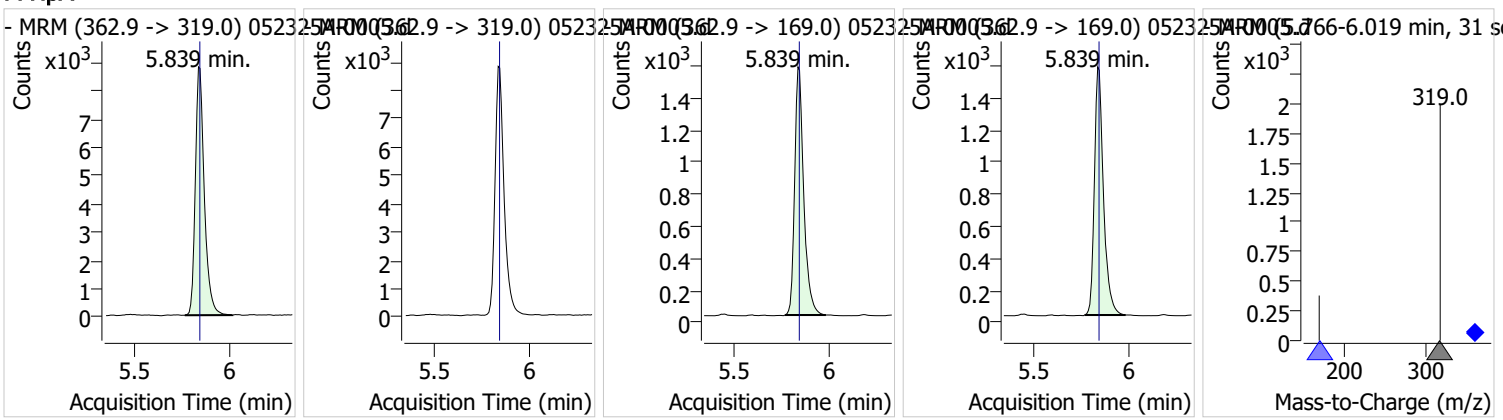
PFDoA



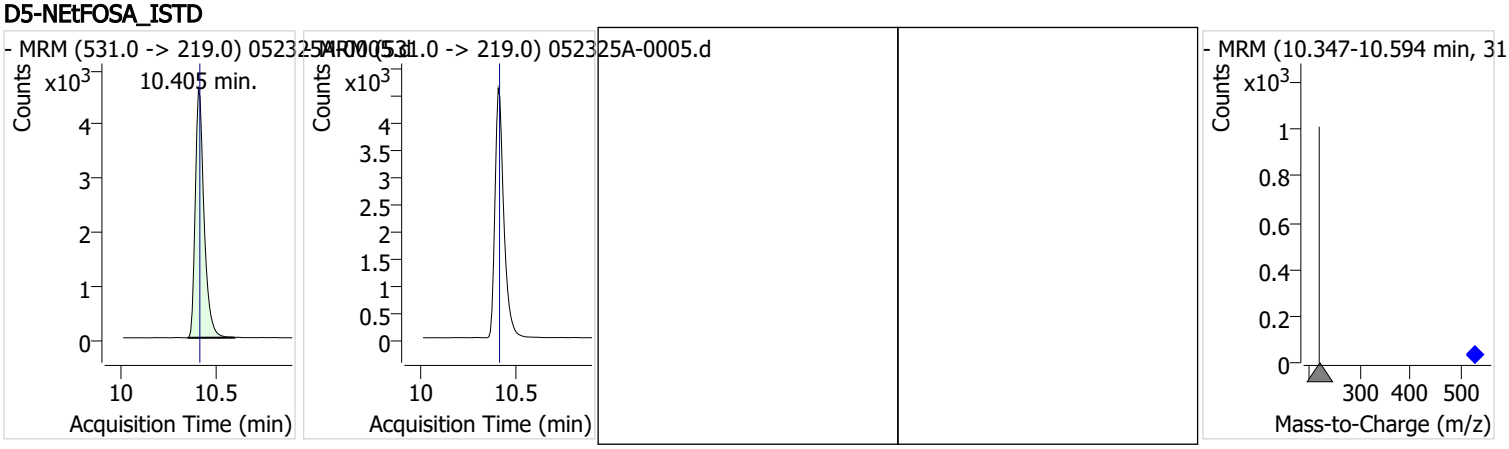
NEtFOSA



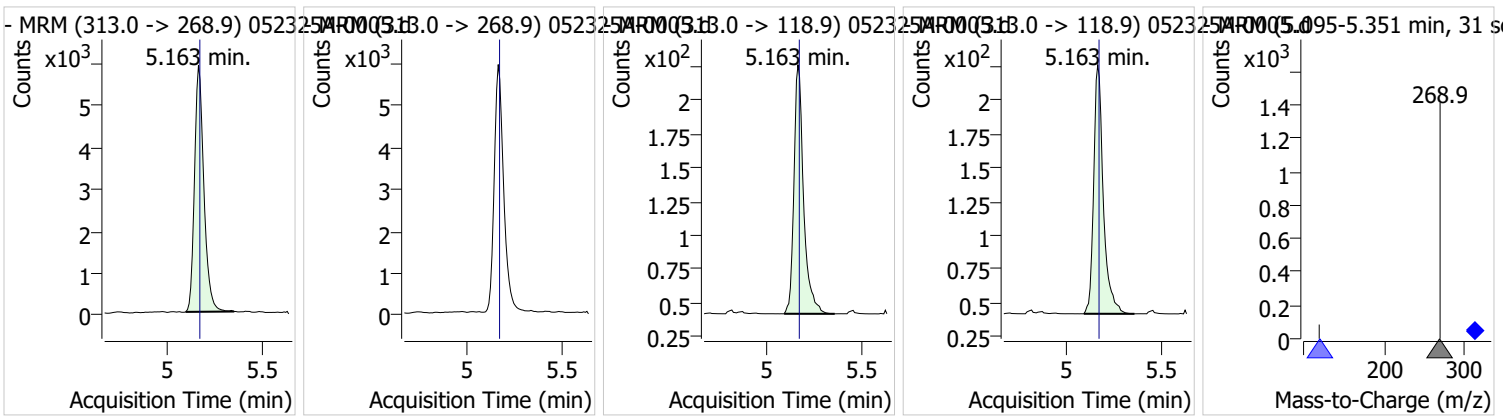
PFHpA



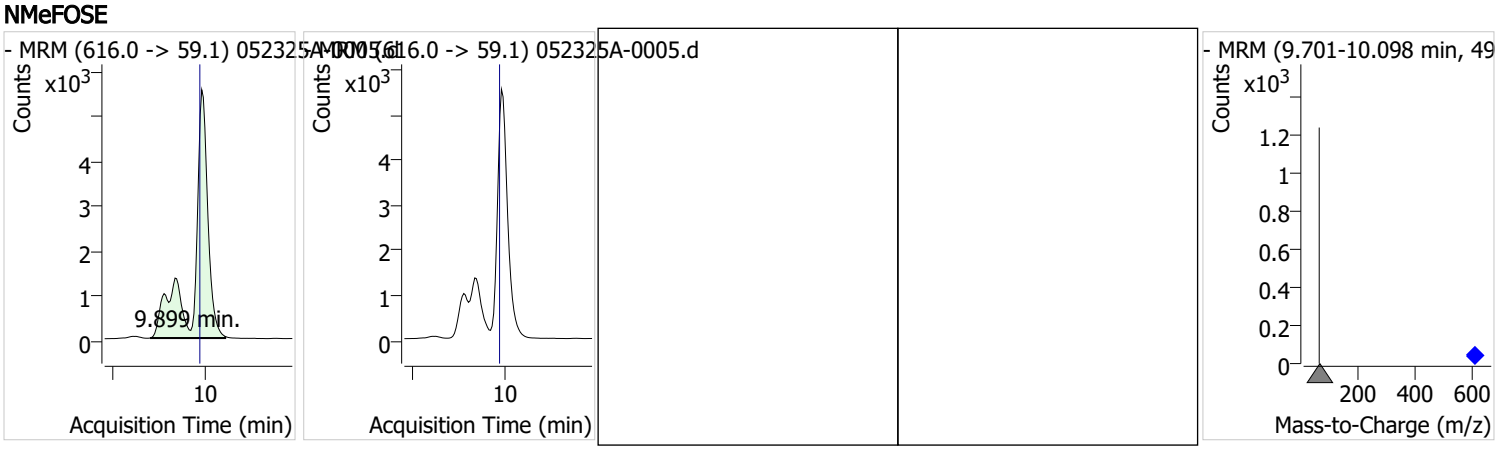
D5-NEtFOSA_ISTD



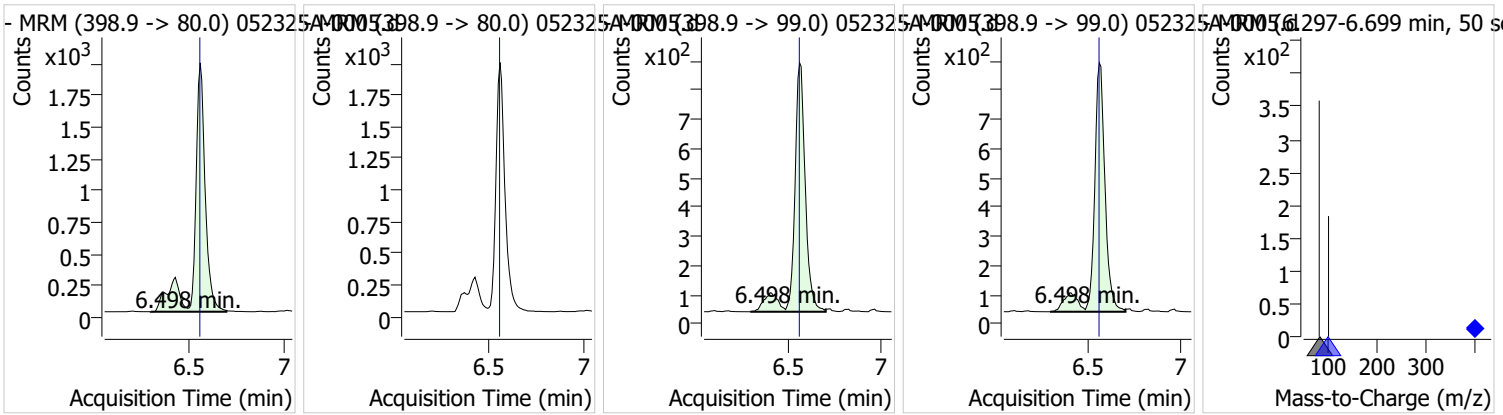
PFHxA



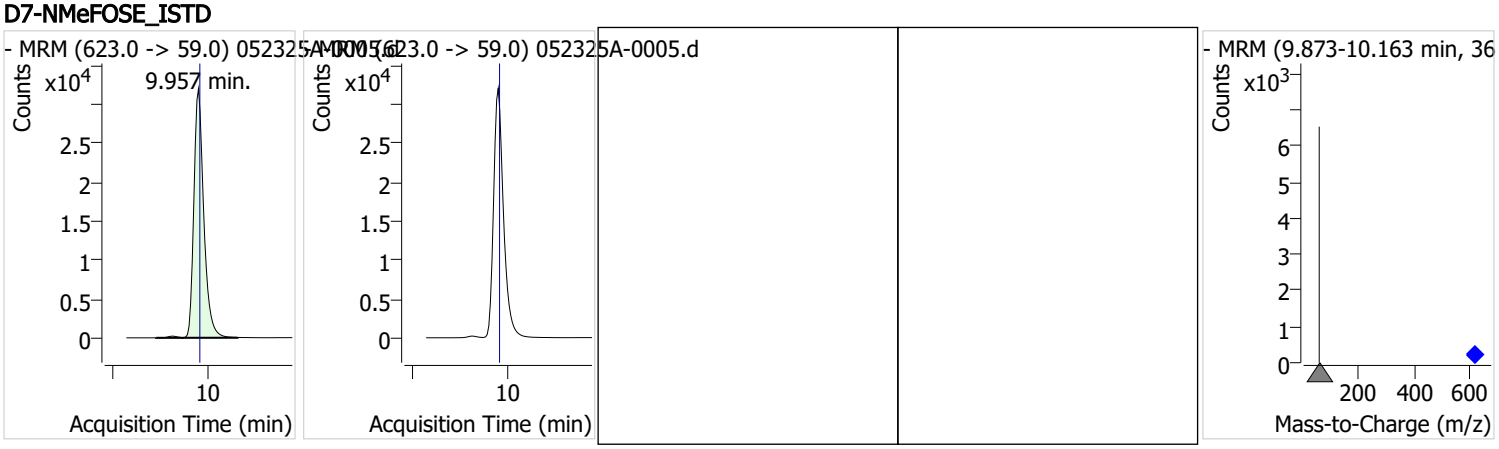
NMeFOSE



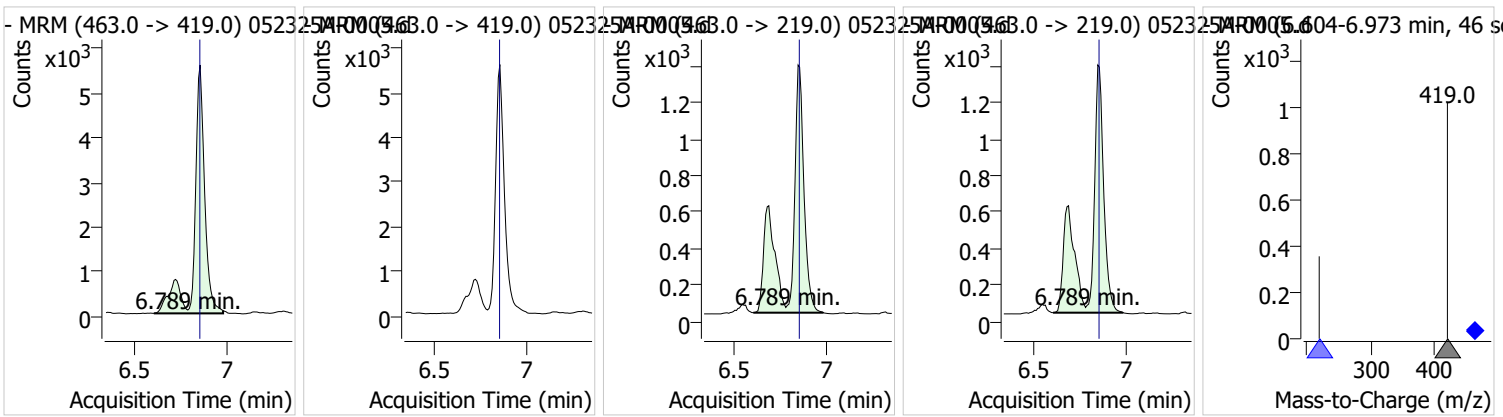
PFHxS



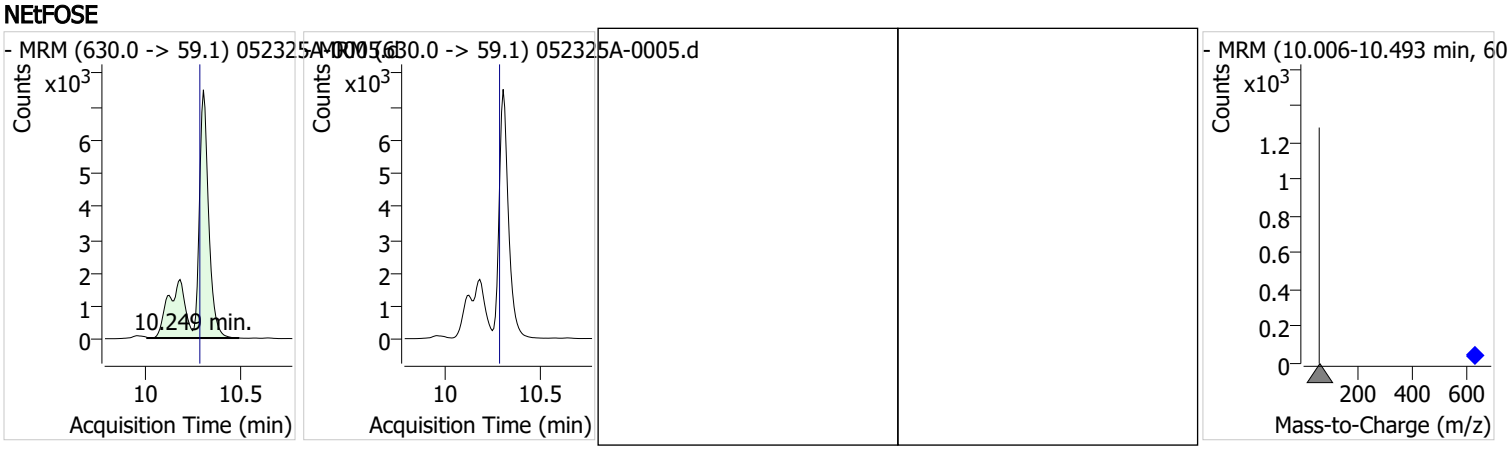
D7-NMeFOSE_ISTD



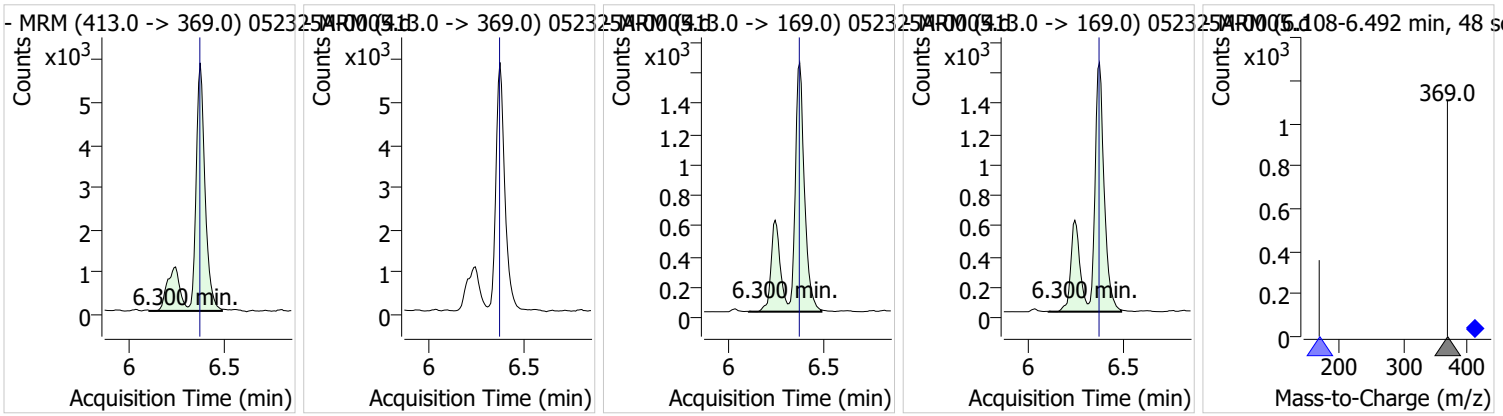
PFNA



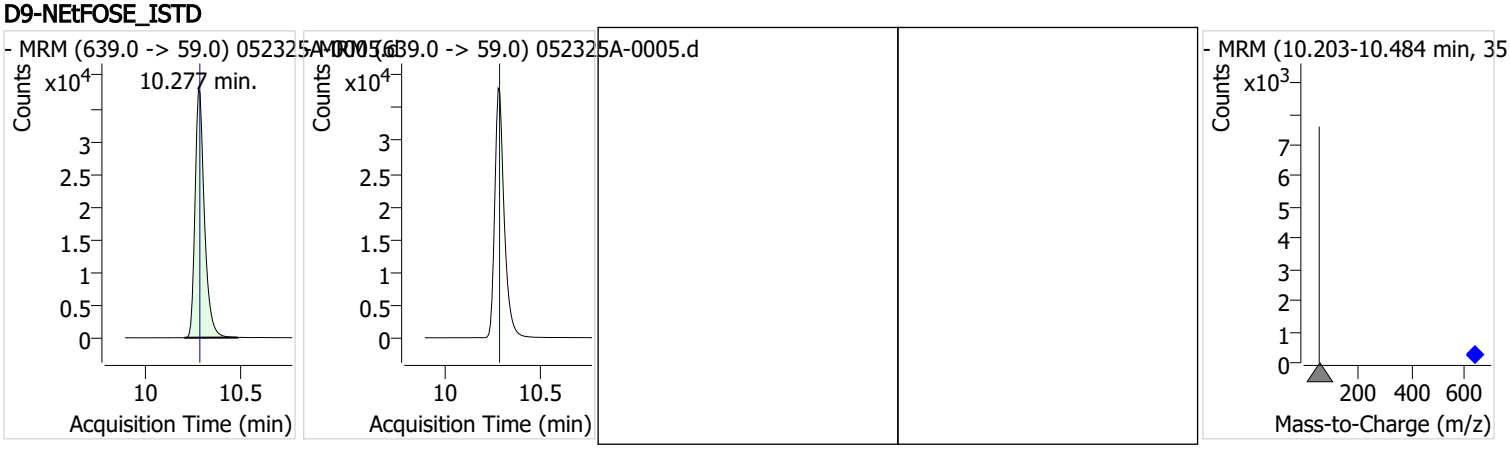
NEtFOSE



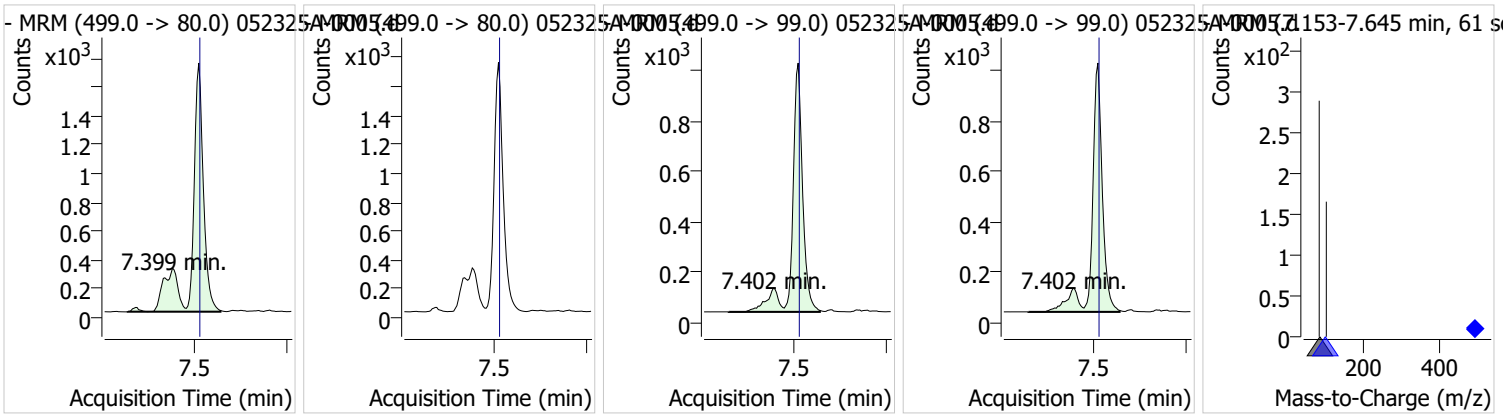
PFOA



D9-NEtFOSE_ISTD



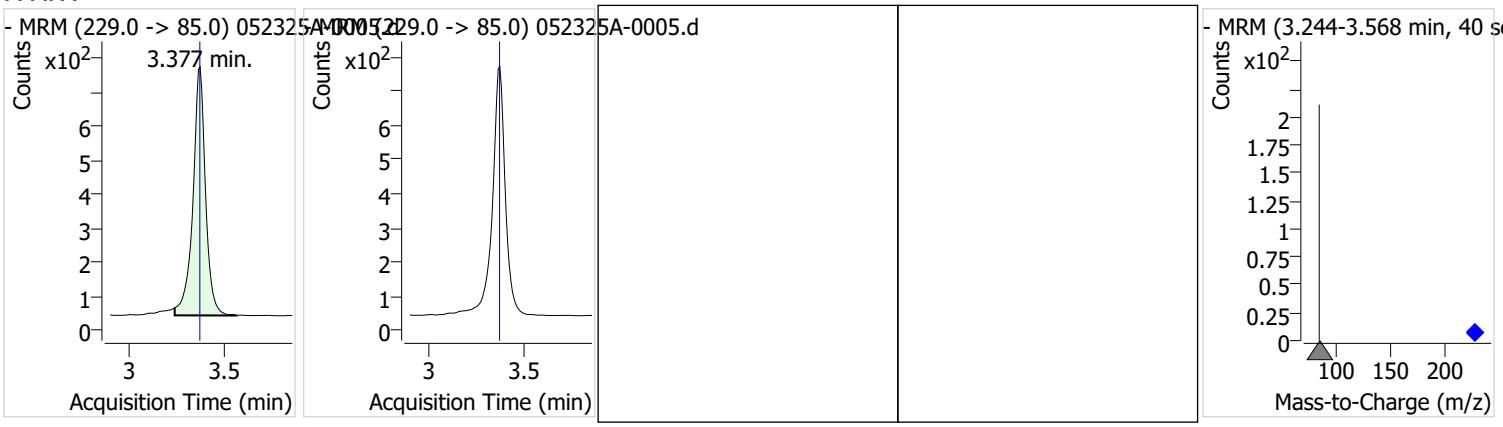
PFOS



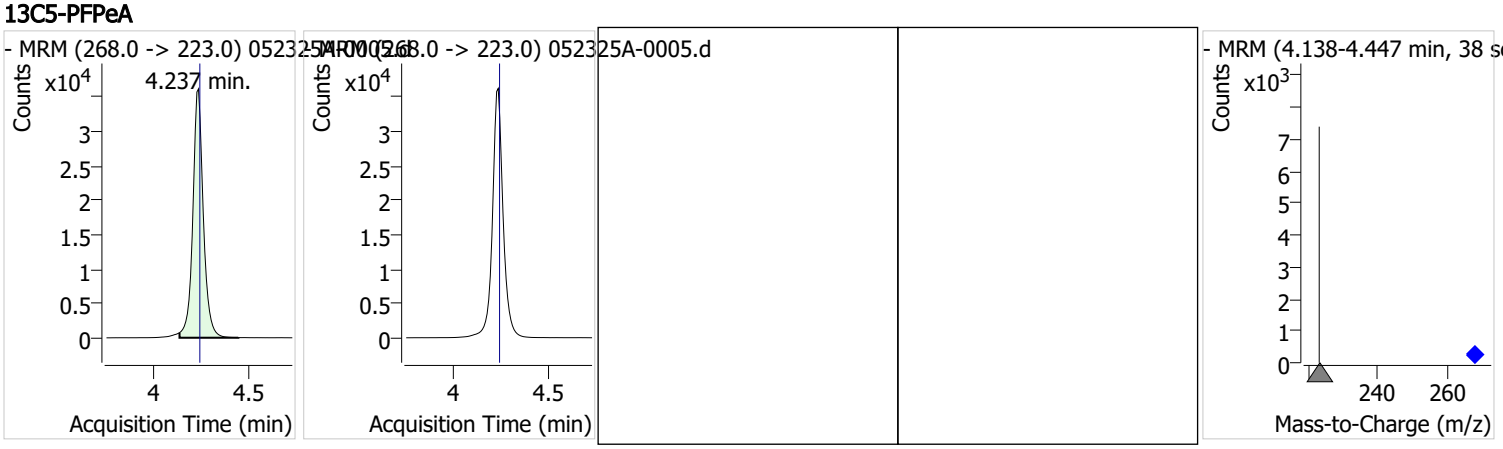
PFPeA



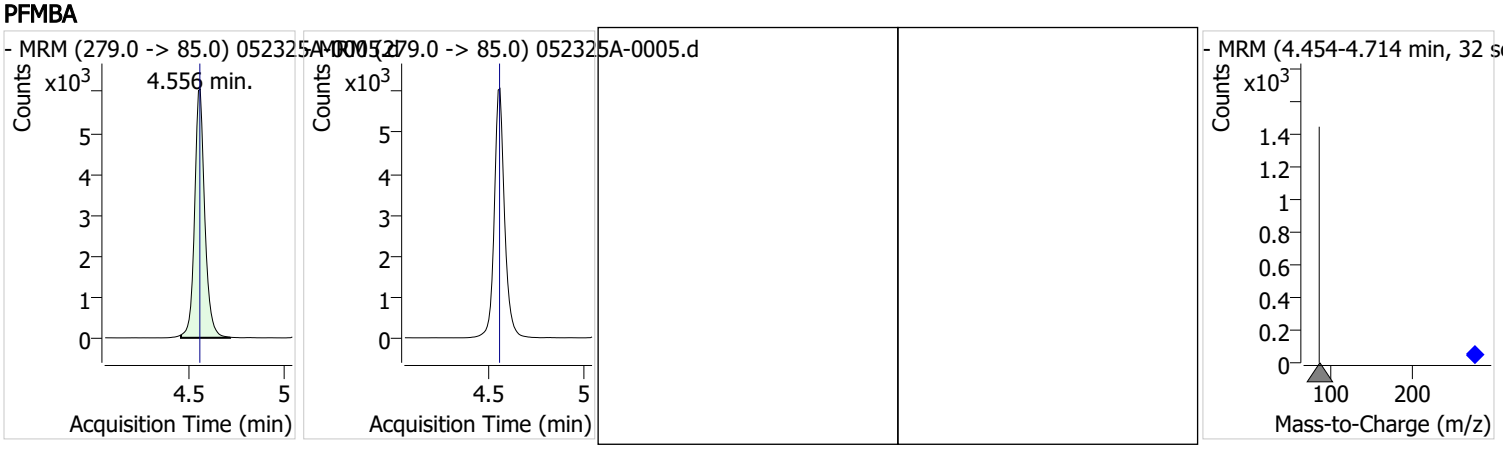
PFMPA



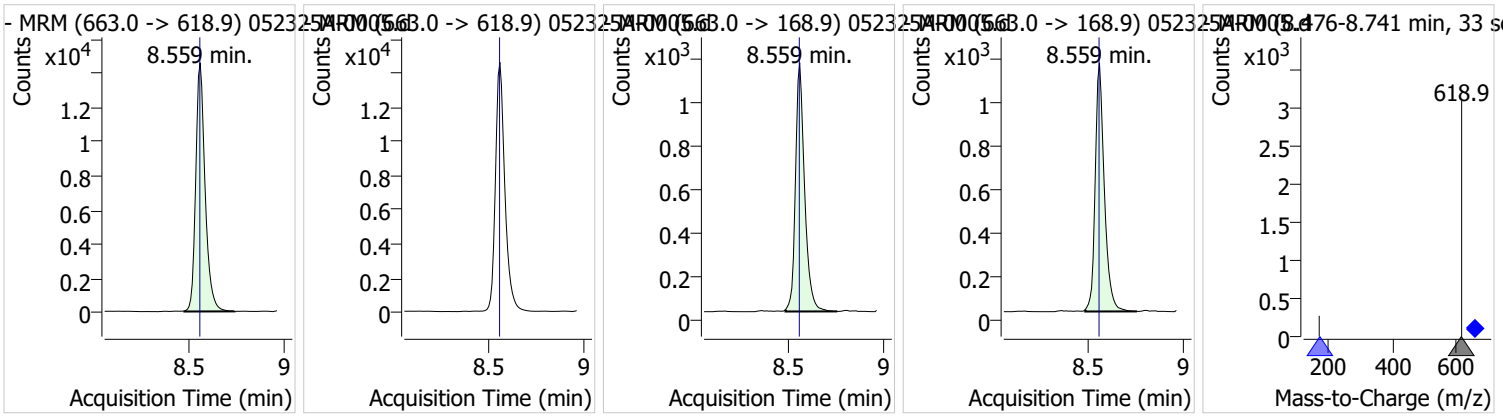
13C5-PFPeA



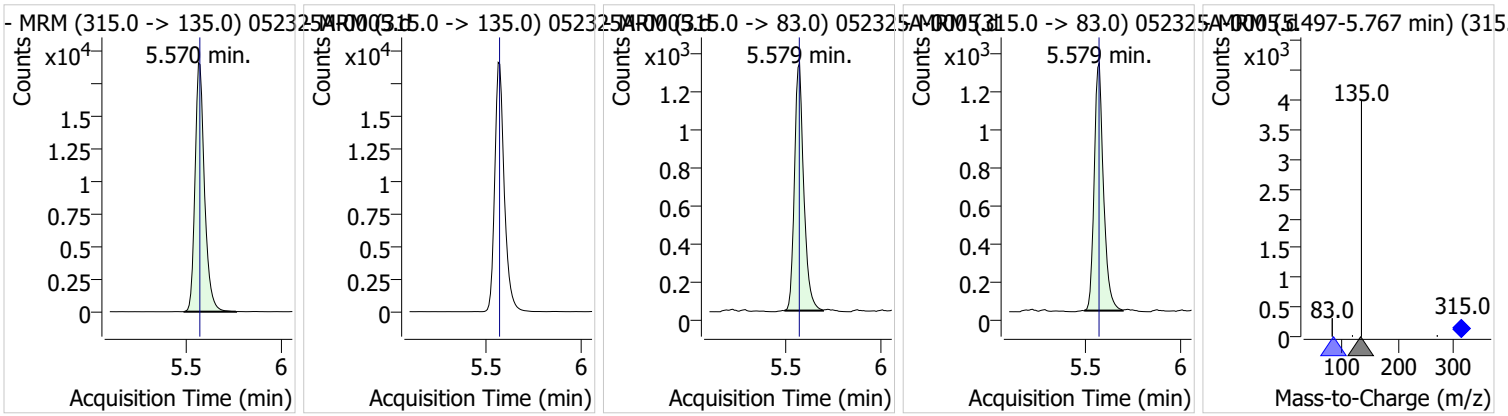
PFMBA



PFTrDA



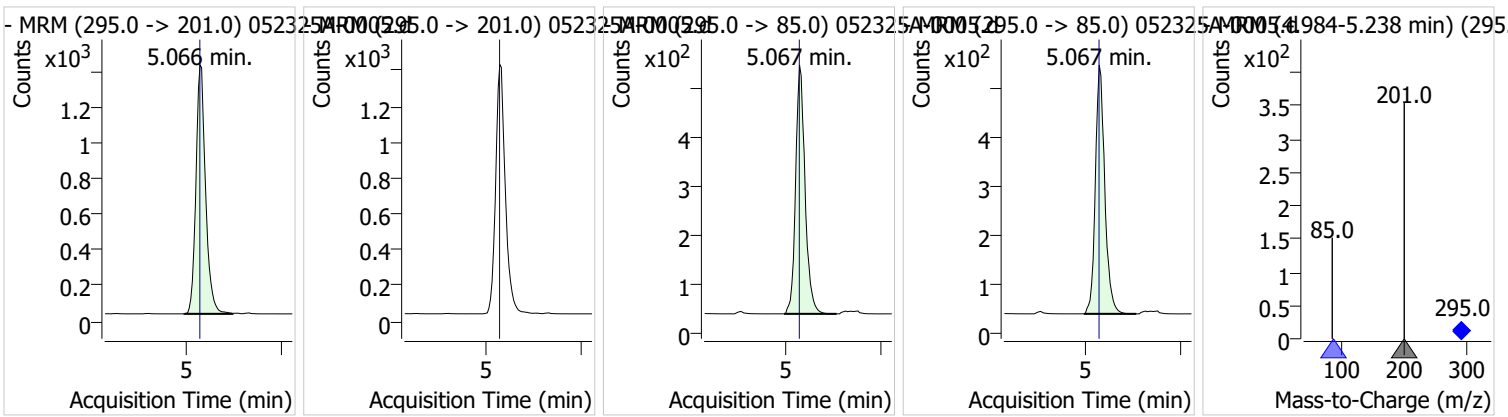
PFEESA



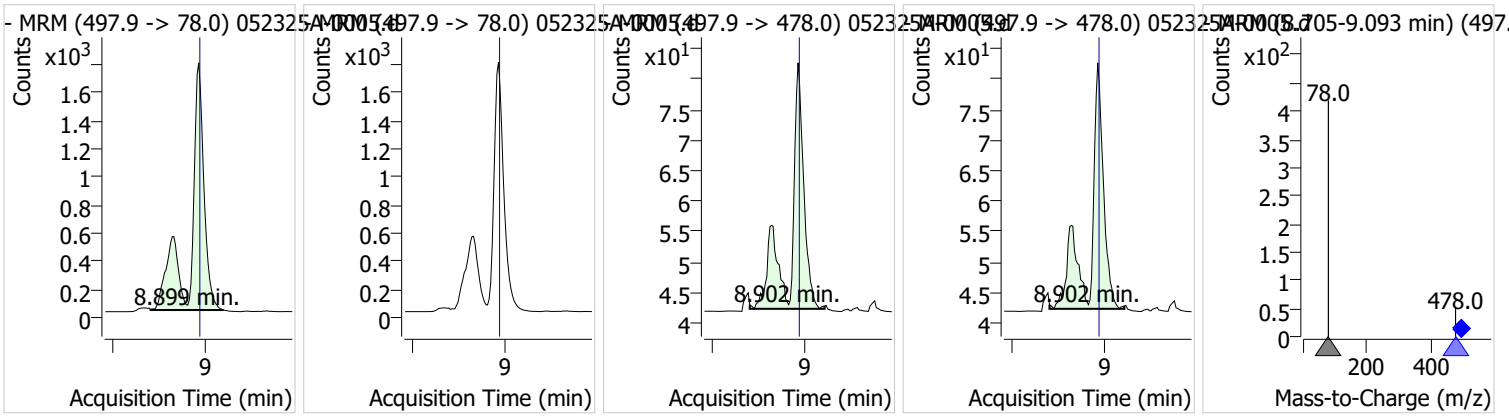
13C6-PFDA



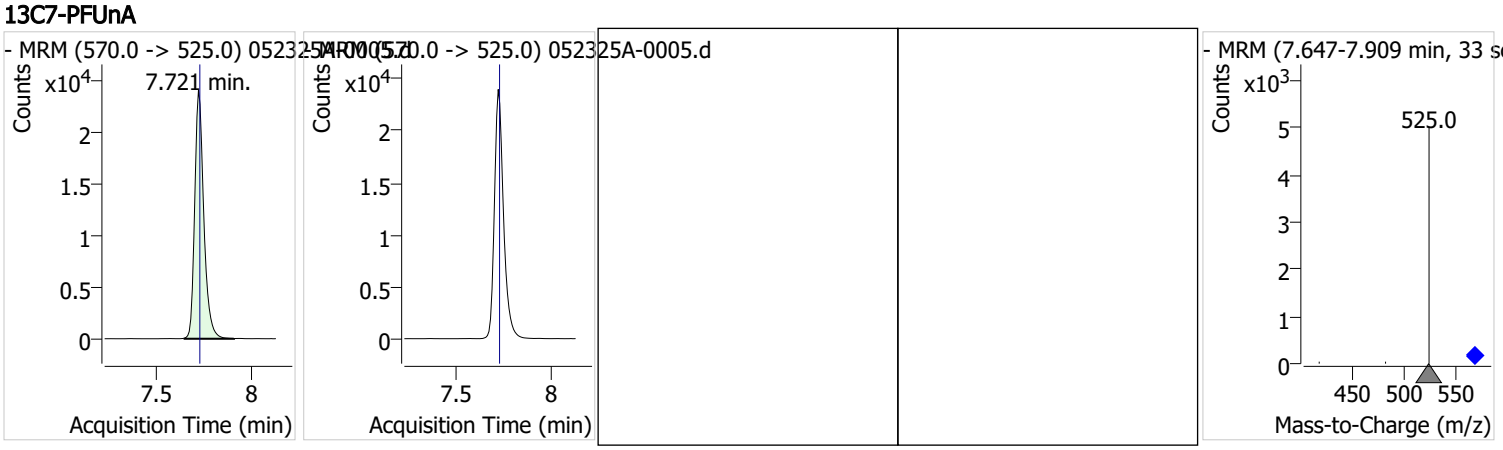
NFDHA



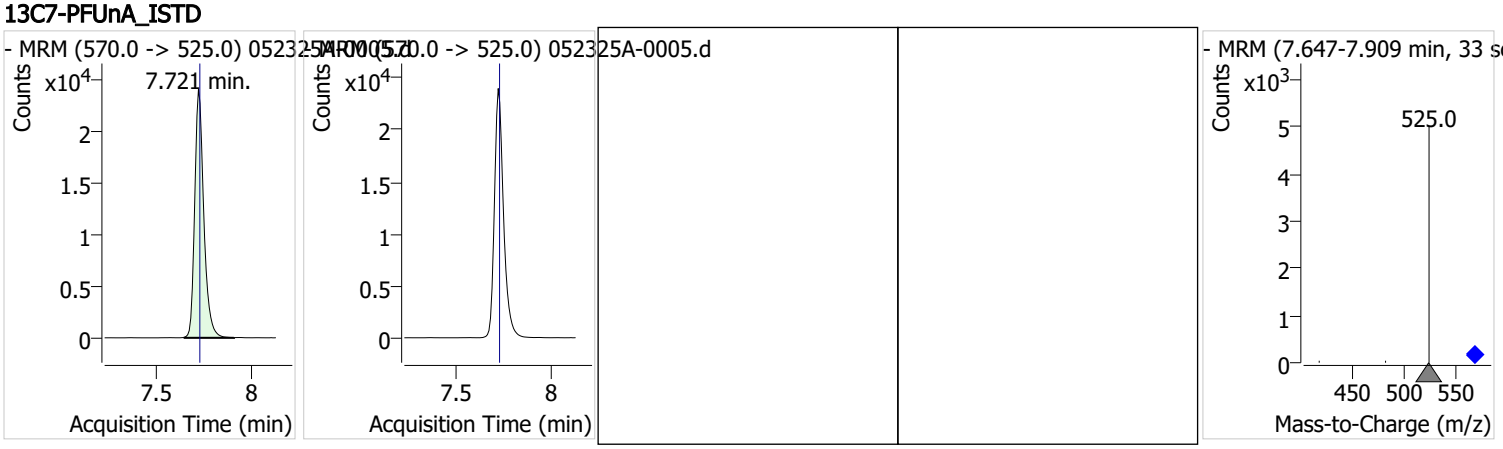
PFOSA



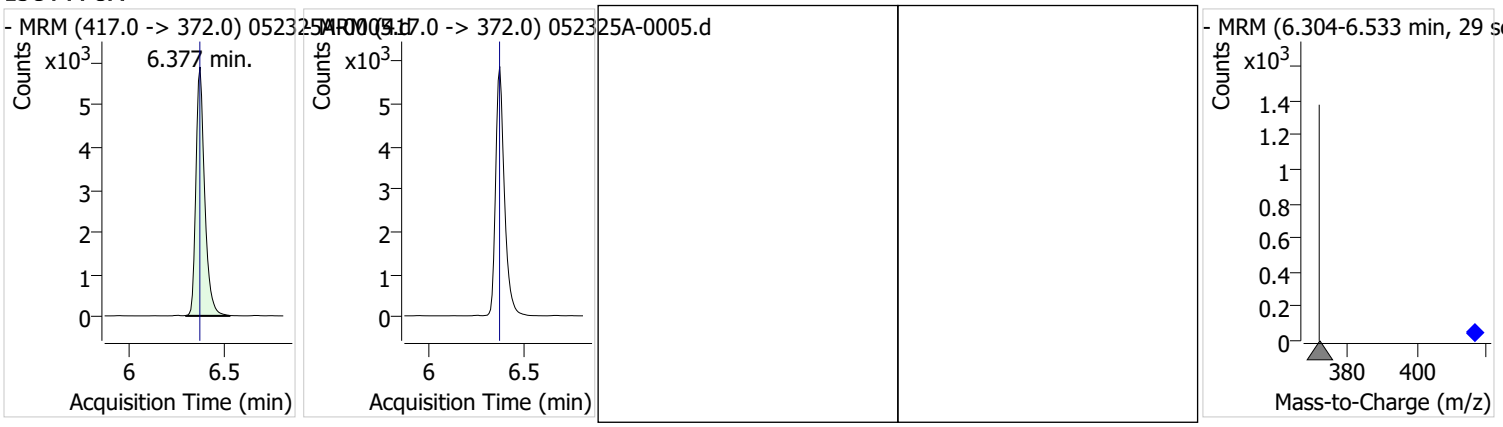
13C7-PFUnA



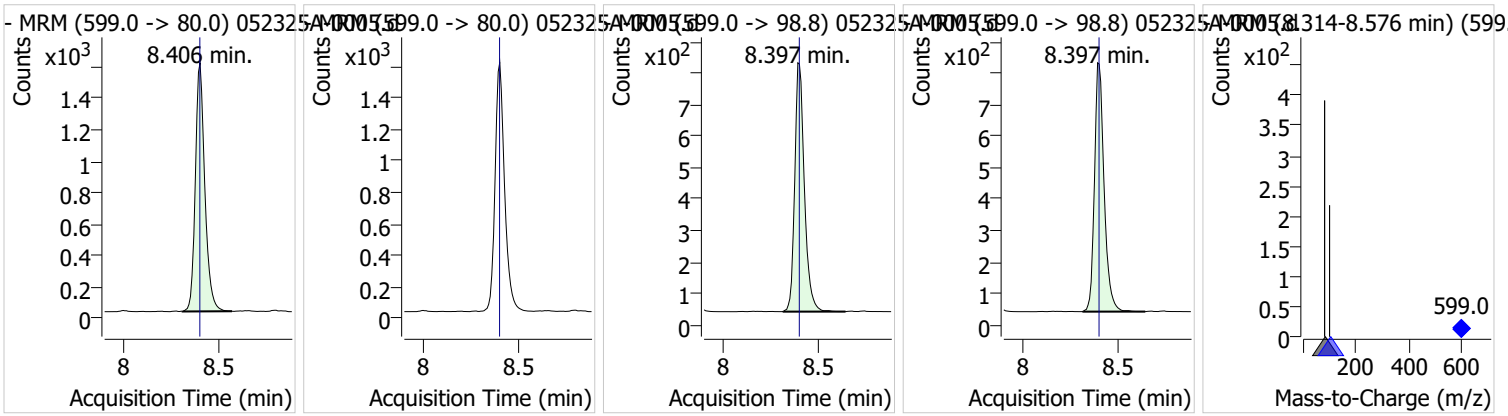
13C7-PFUnA_ISTD



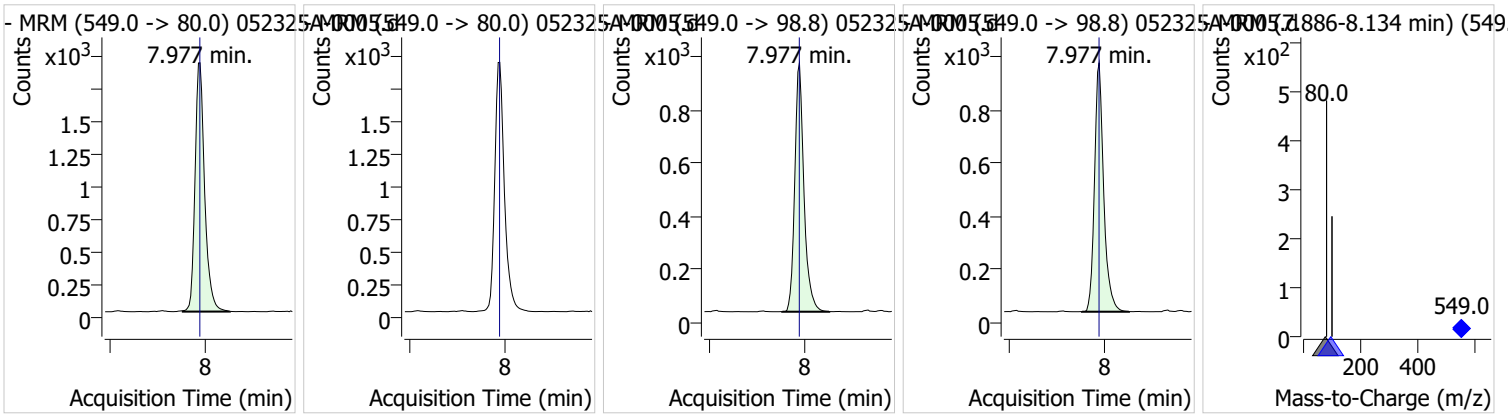
13C4-PFOA



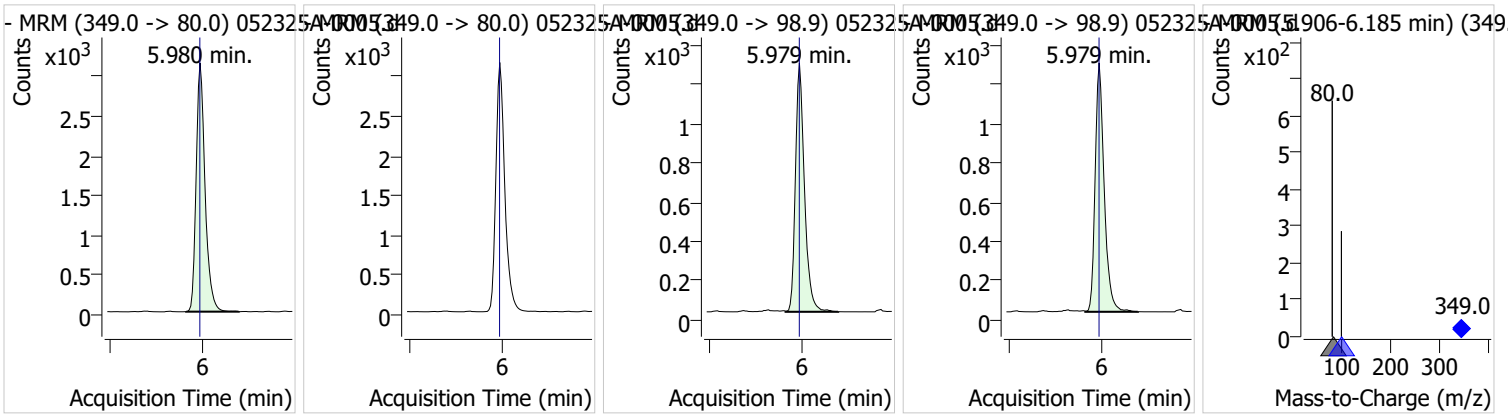
PFDS



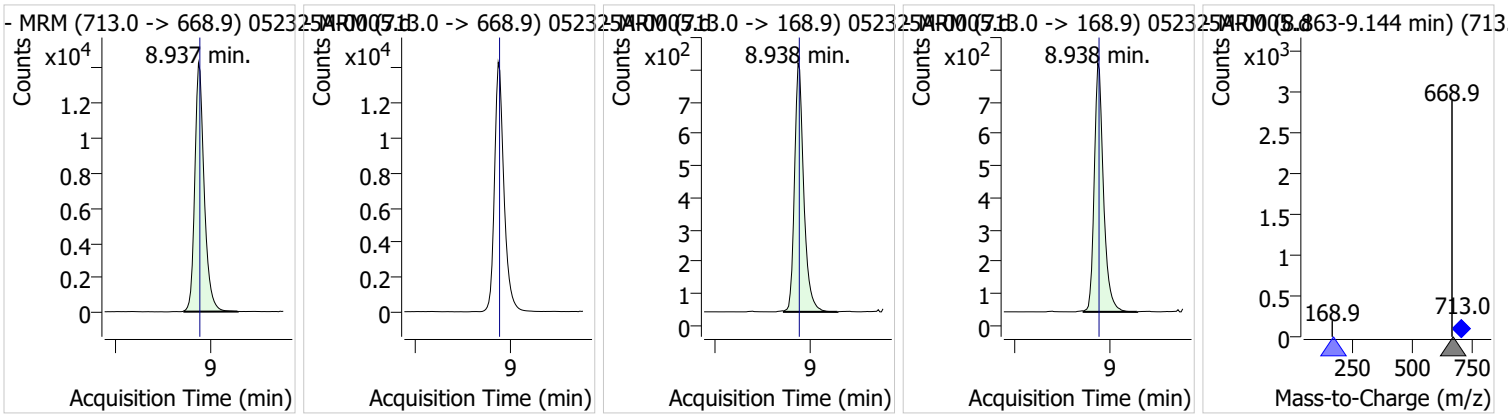
PFNS



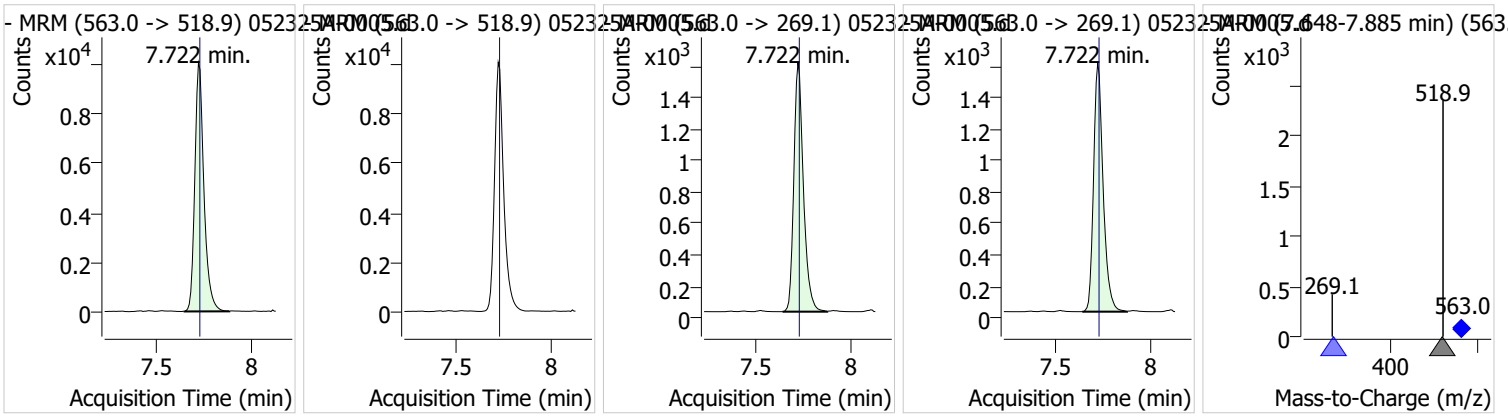
PFPeS



PFTeDA



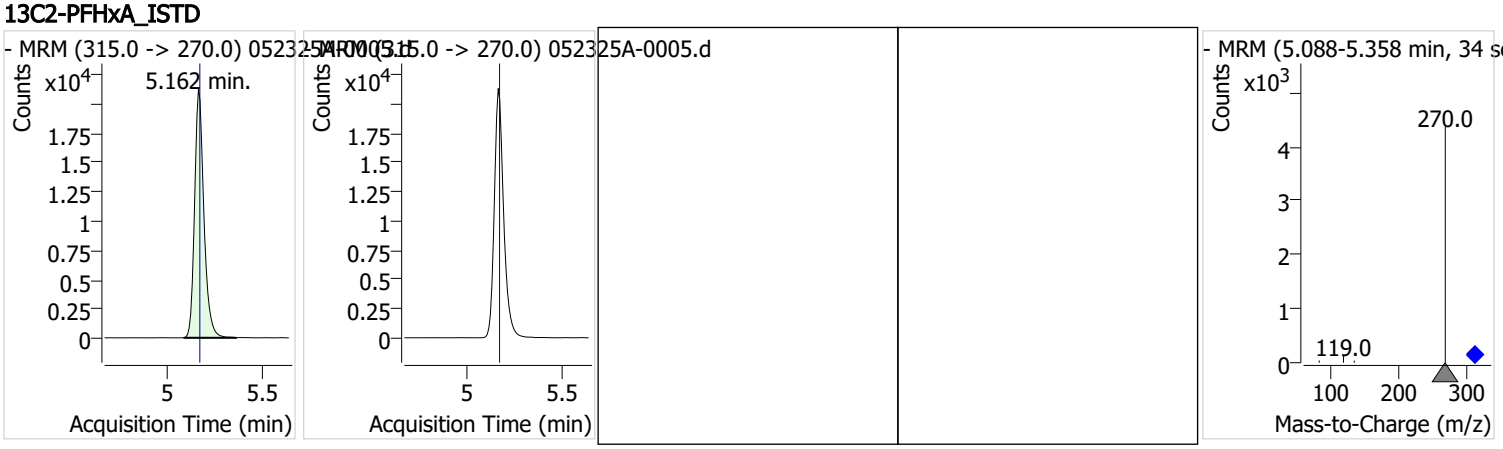
PFUnA



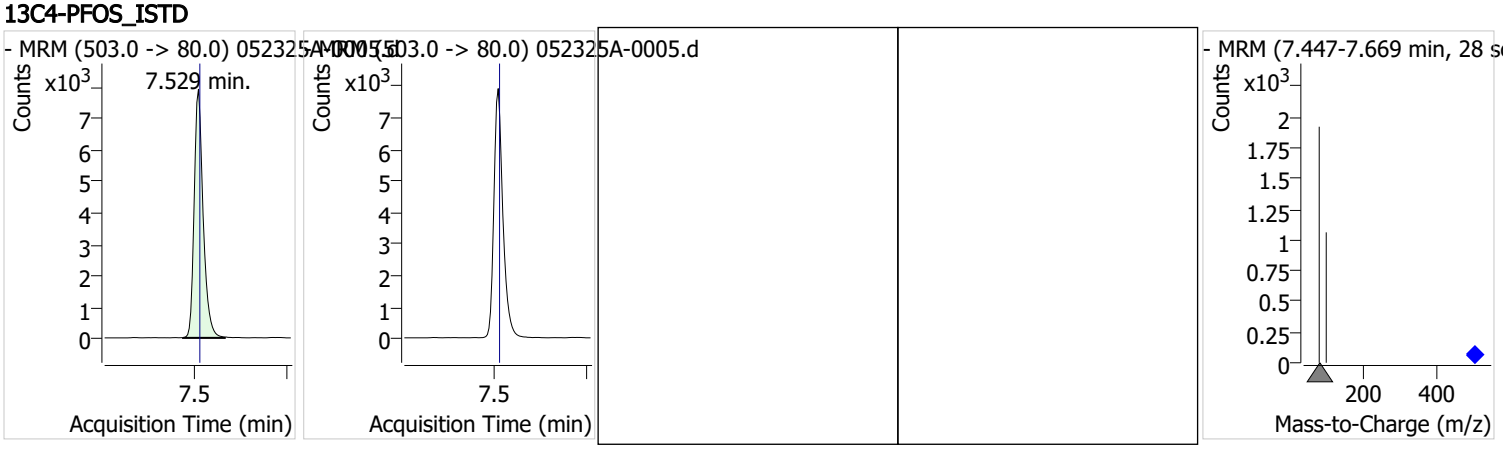
13C2-PFDA_ISTD



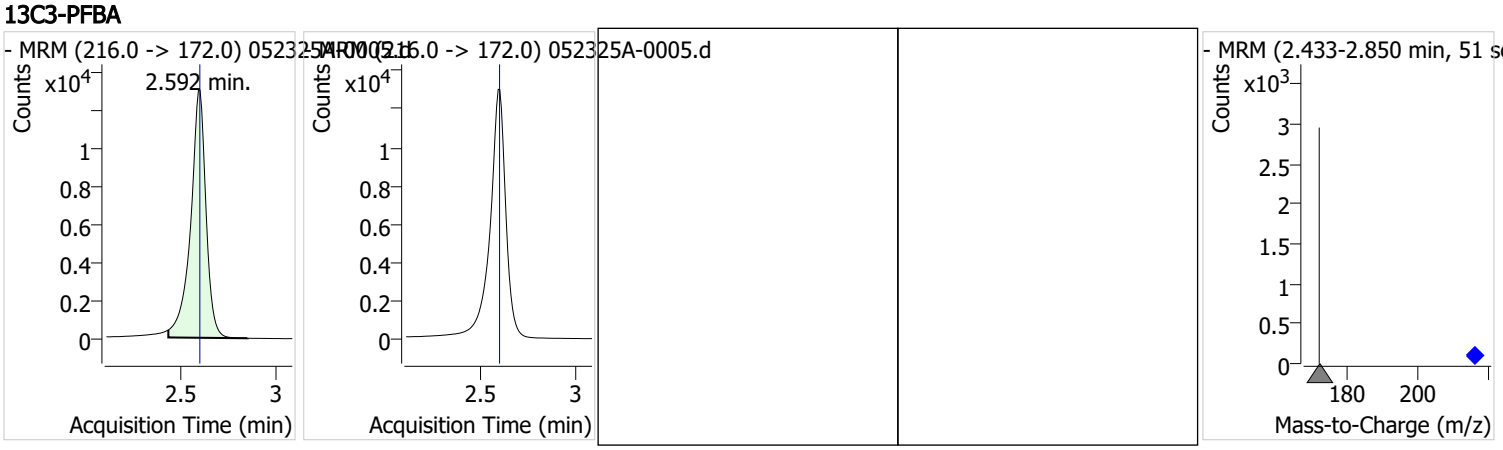
13C2-PFHxA_ISTD



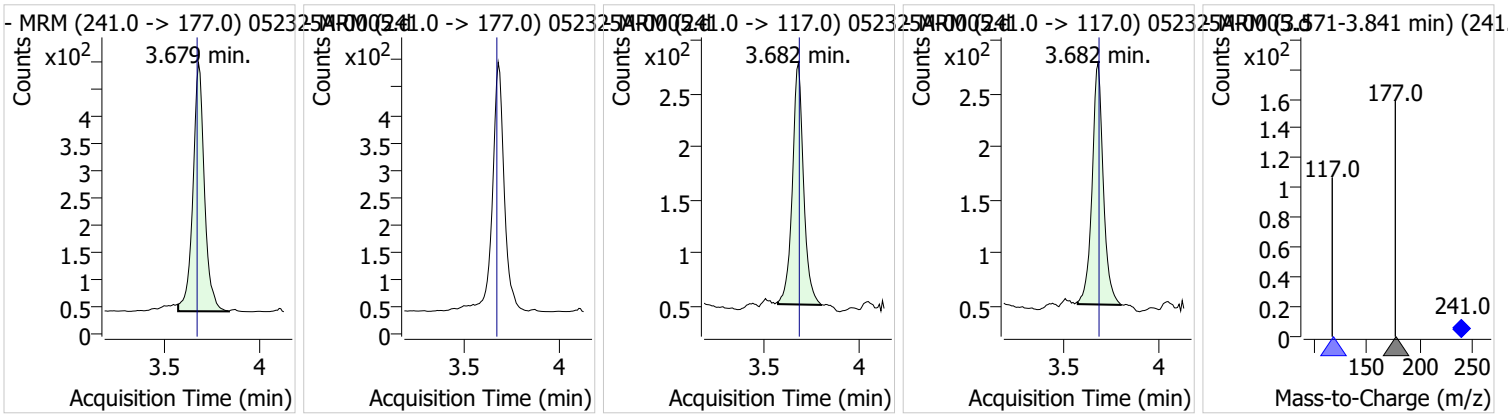
13C4-PFOS_ISTD



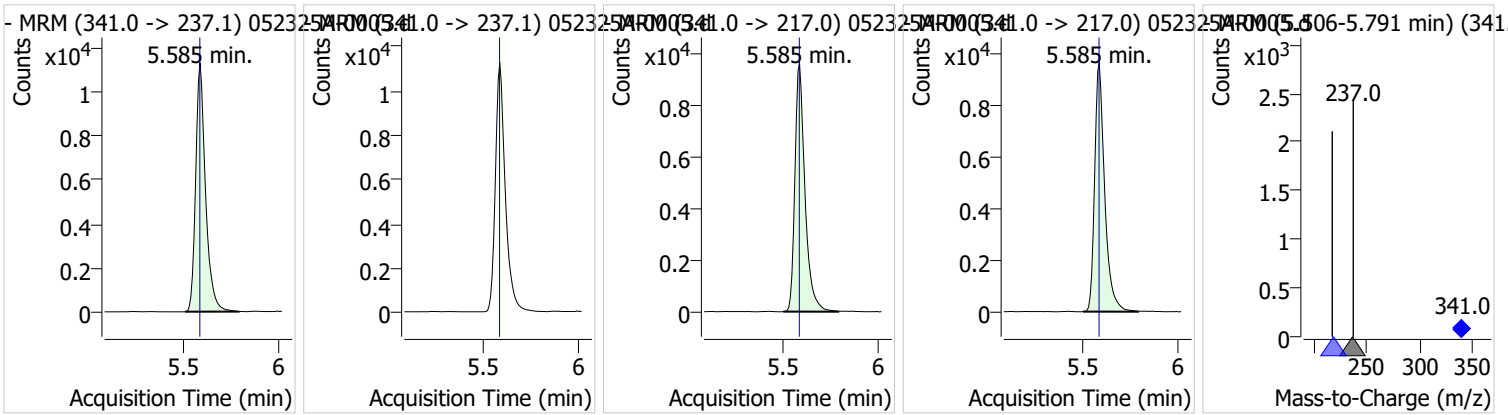
13C3-PFBA



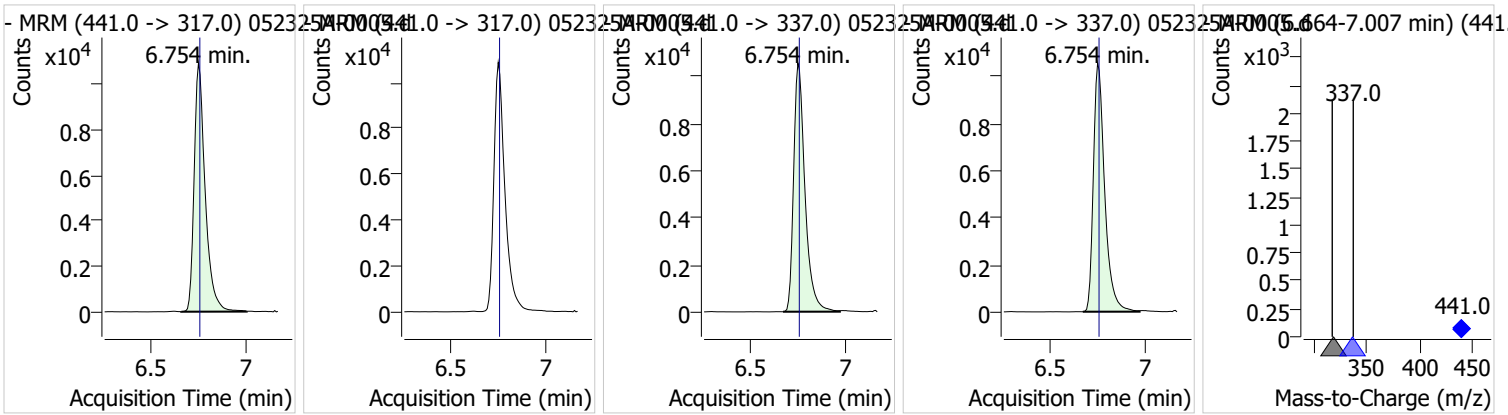
3:3FTCA



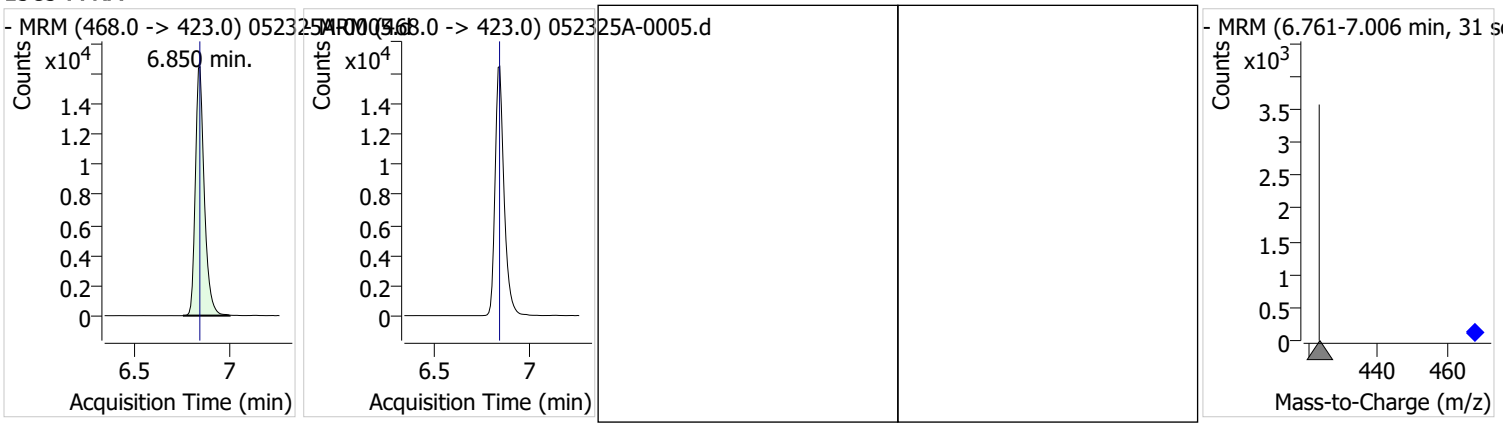
5:3FTCA



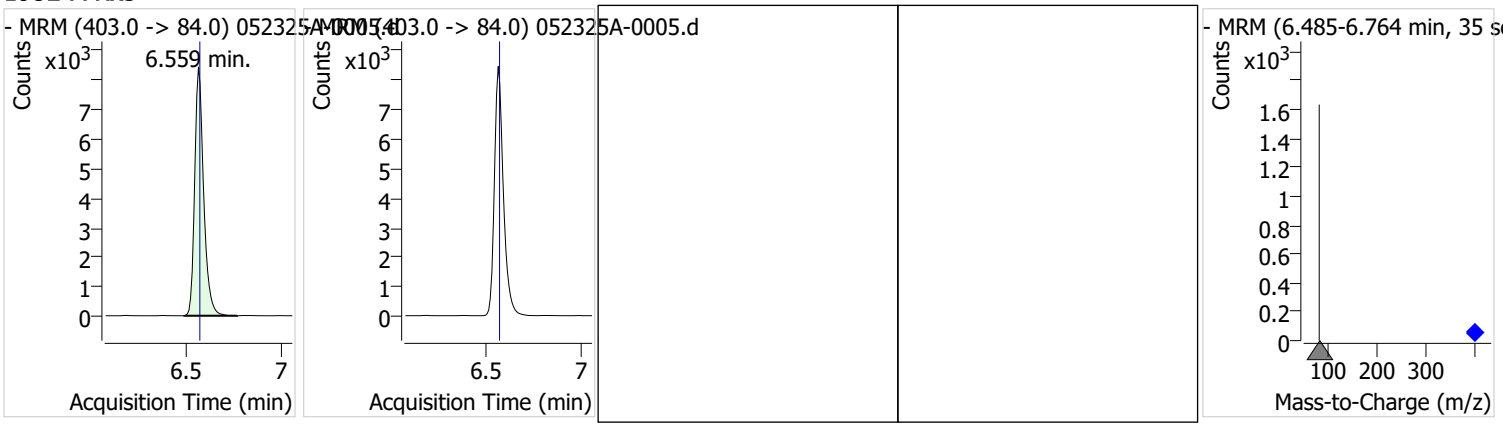
7:3FTCA



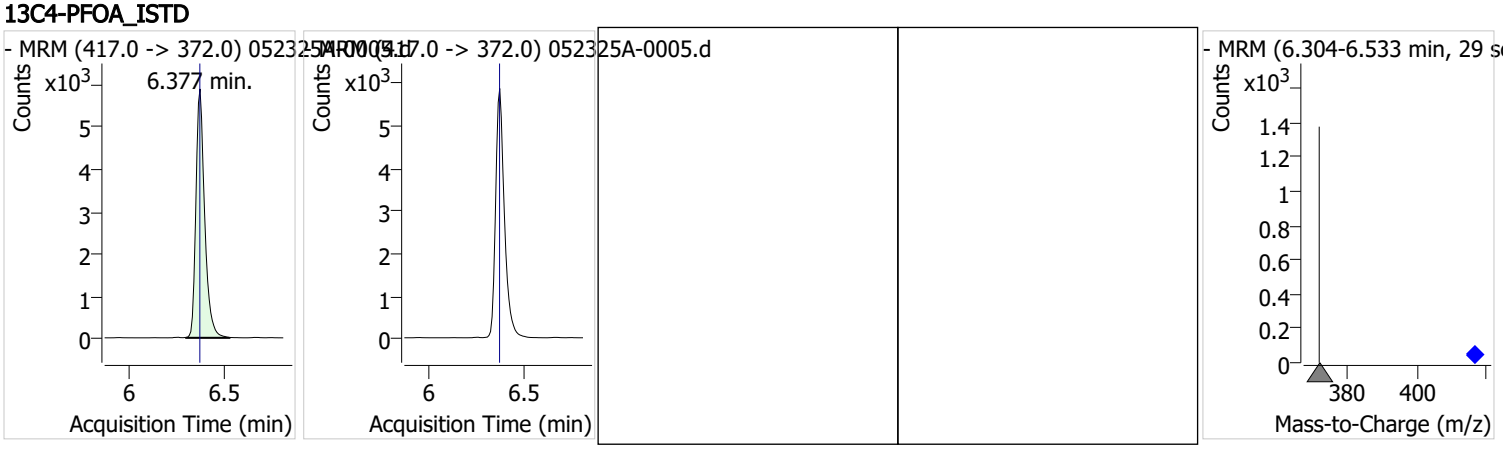
13C5-PFNA



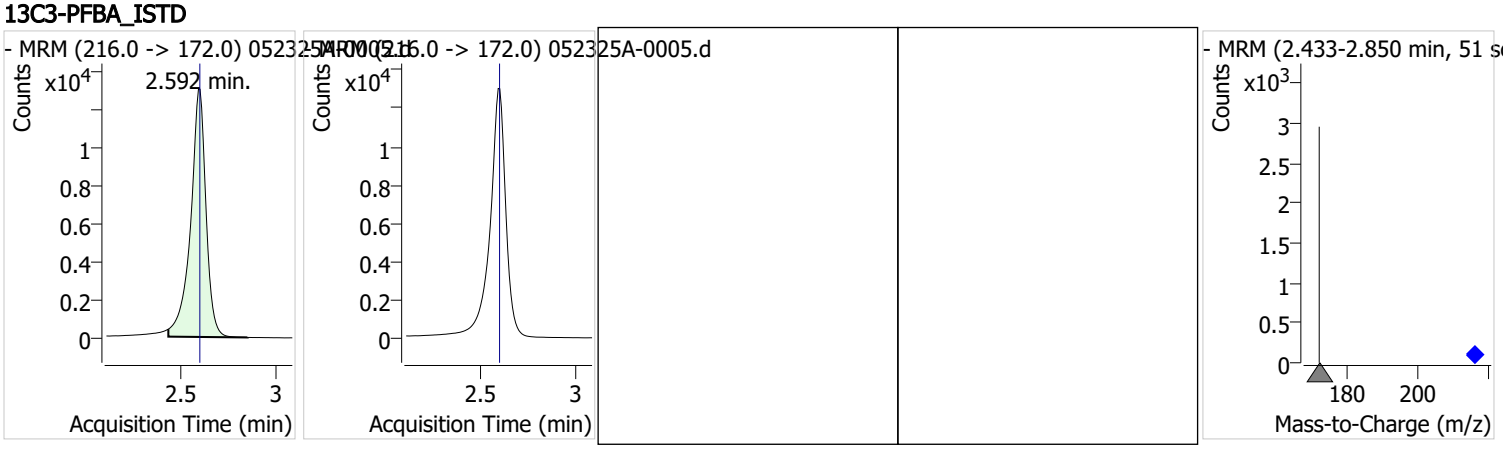
18O2-PFHxS



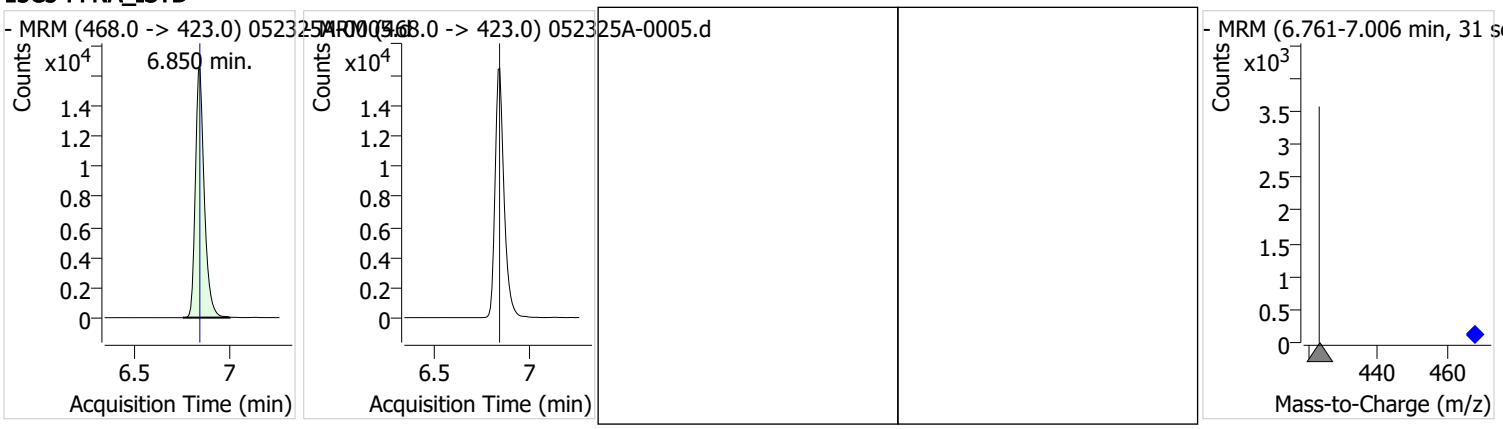
13C4-PFOA_ISTD



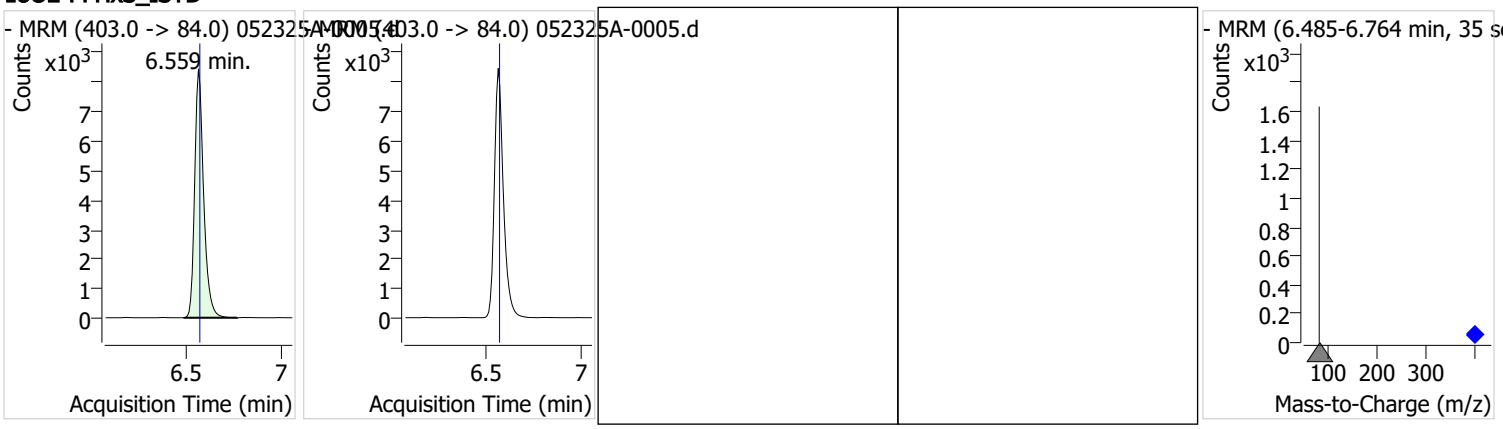
13C3-PFBA_ISTD



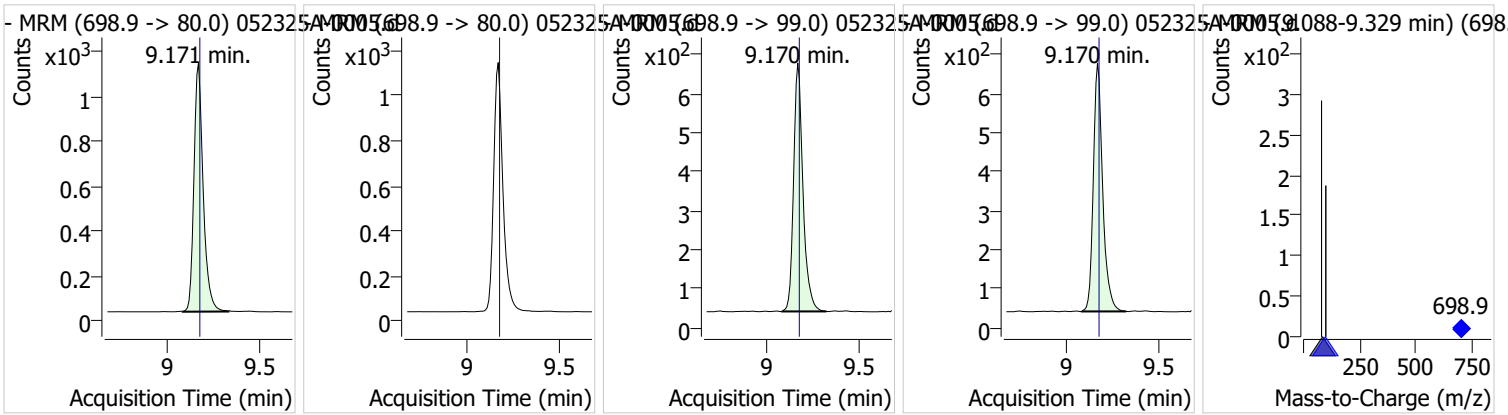
13C5-PFNA_ISTD



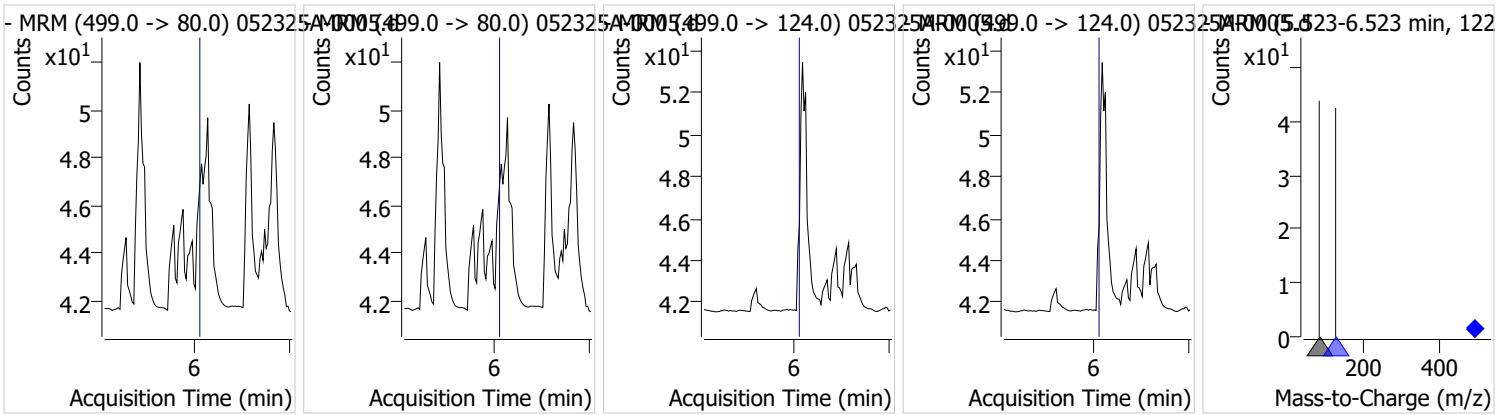
18O2-PFHxS_ISTD



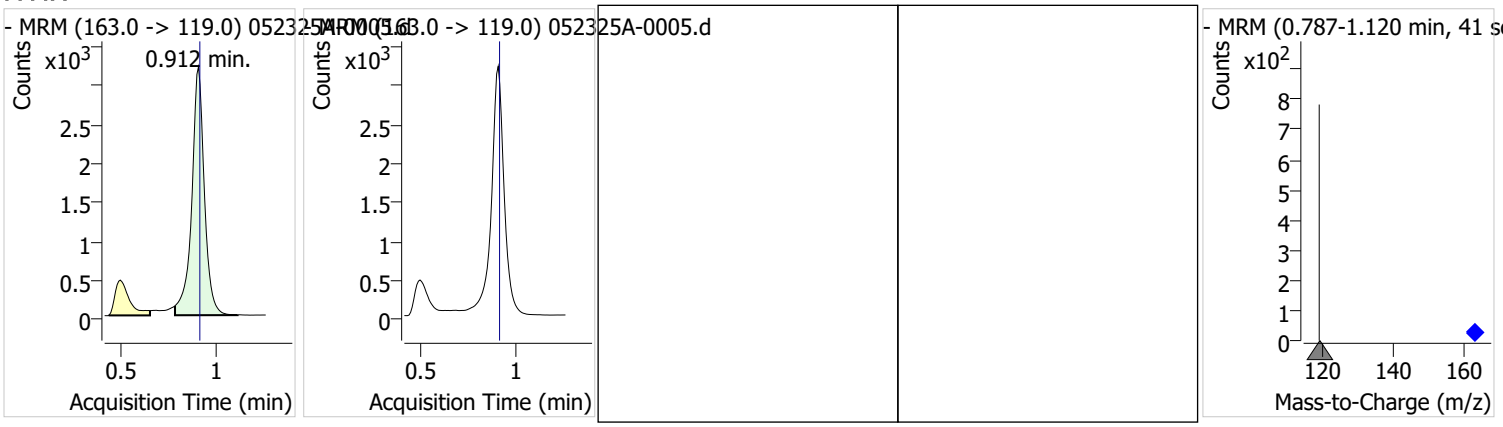
PFDoS



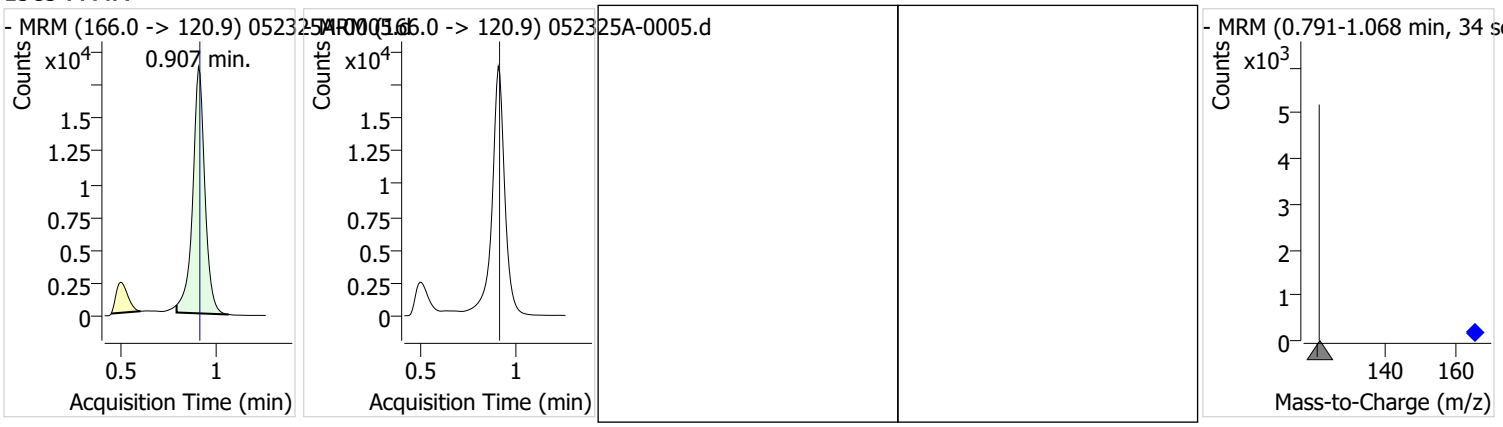
TDCA



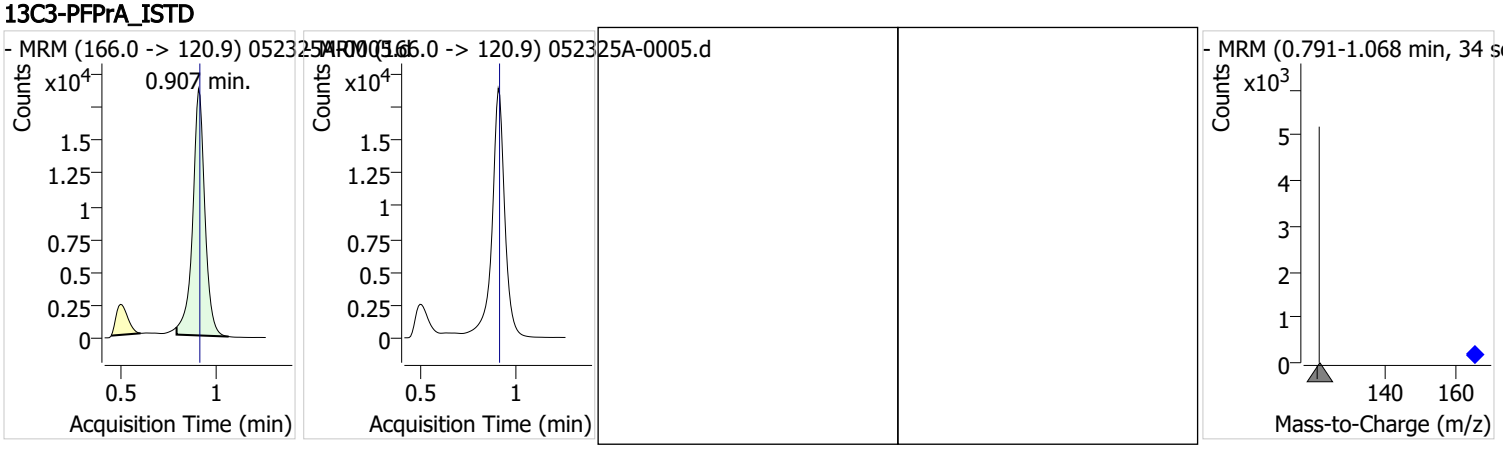
PFPrA



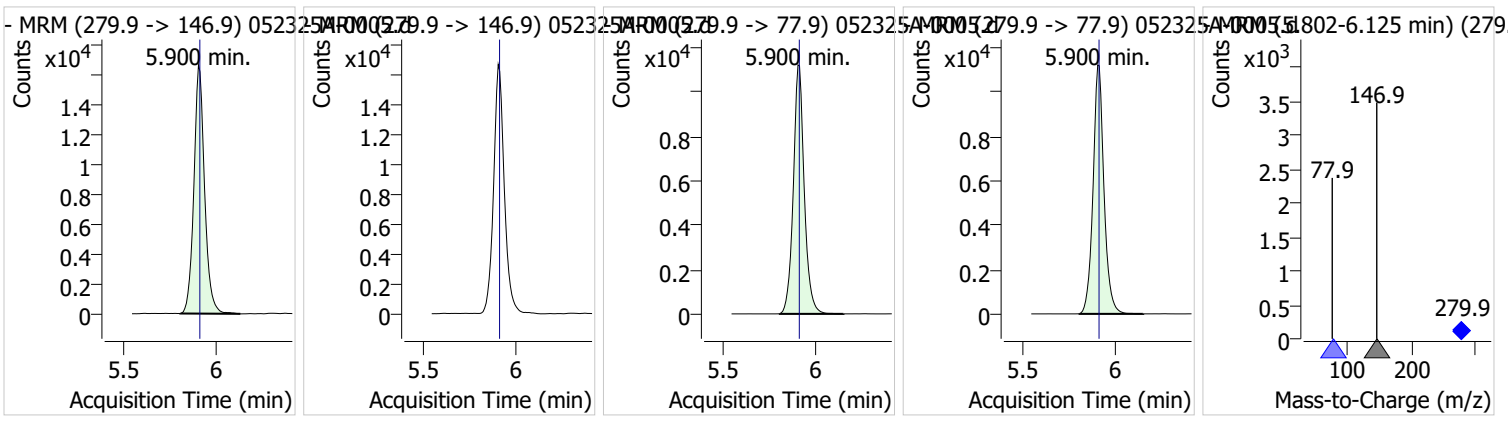
13C3-PFPrA



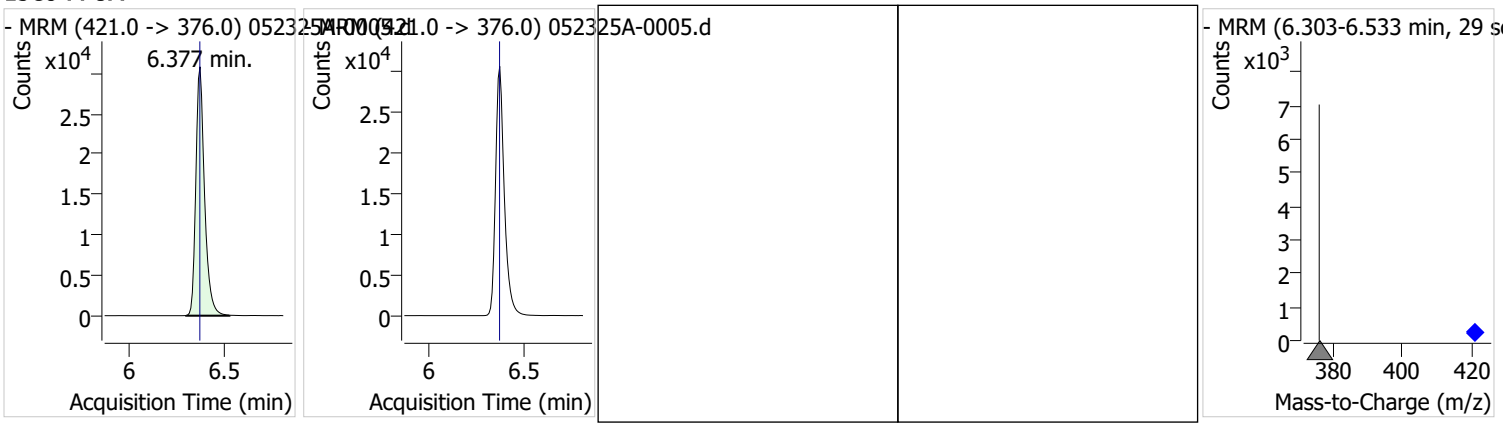
13C3-PFPrA_ISTD



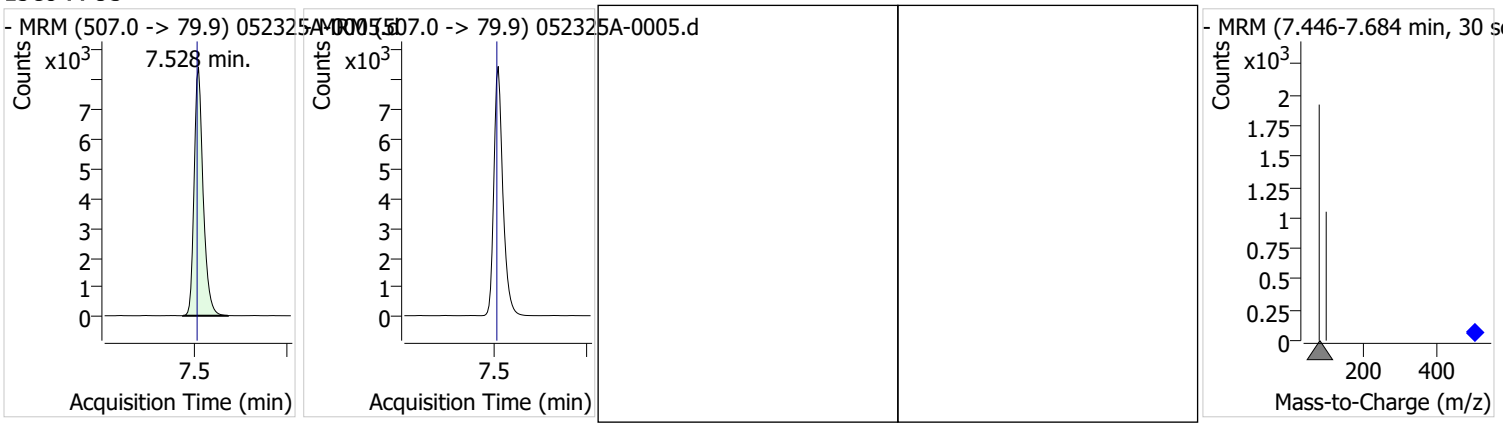
TFSI



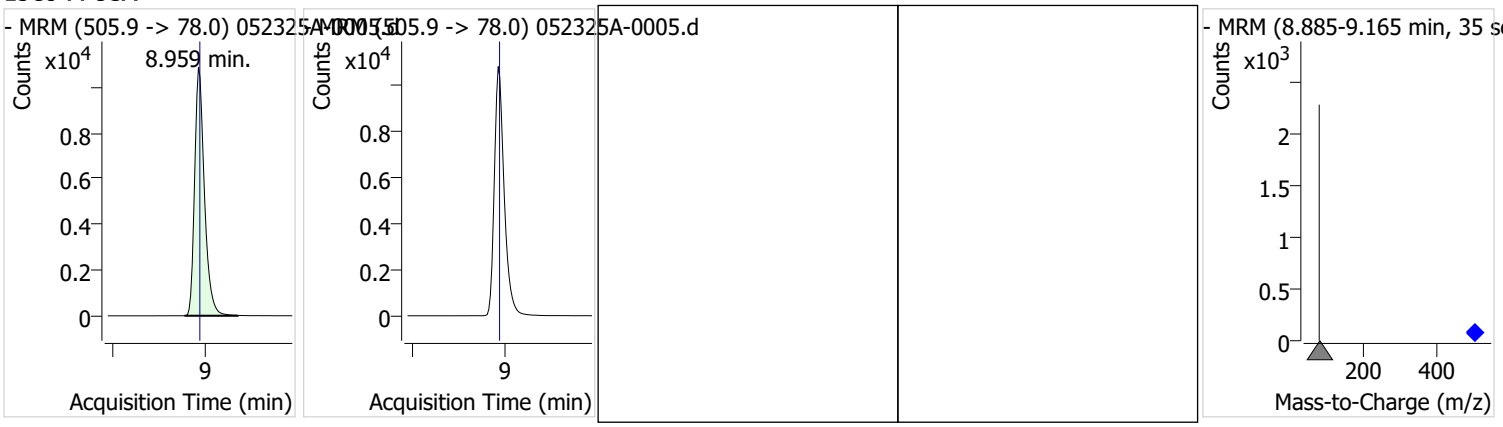
13C8-PFOA



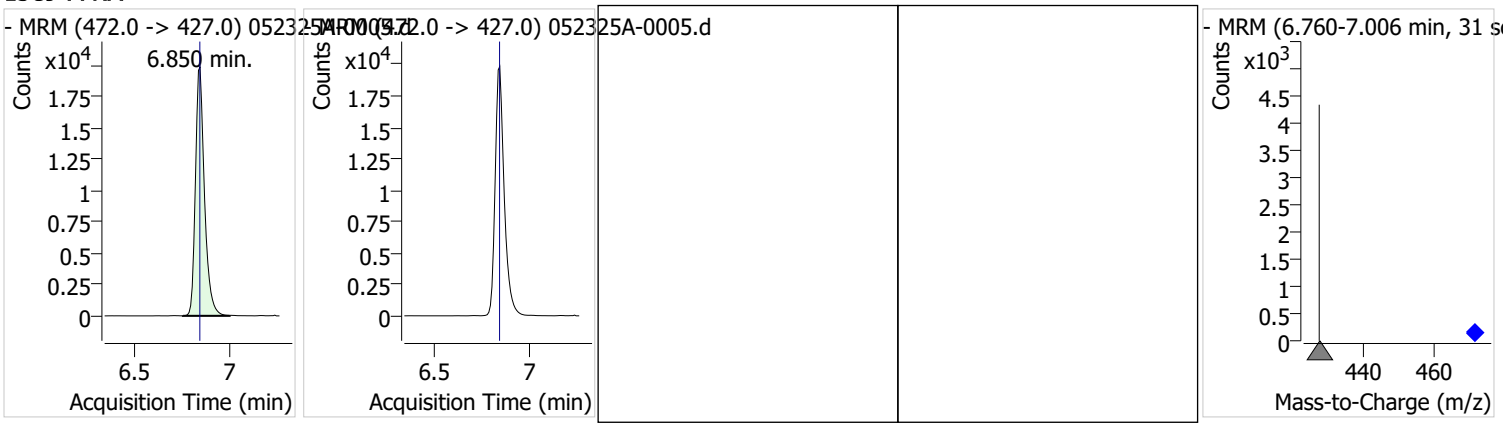
13C8-PFOS



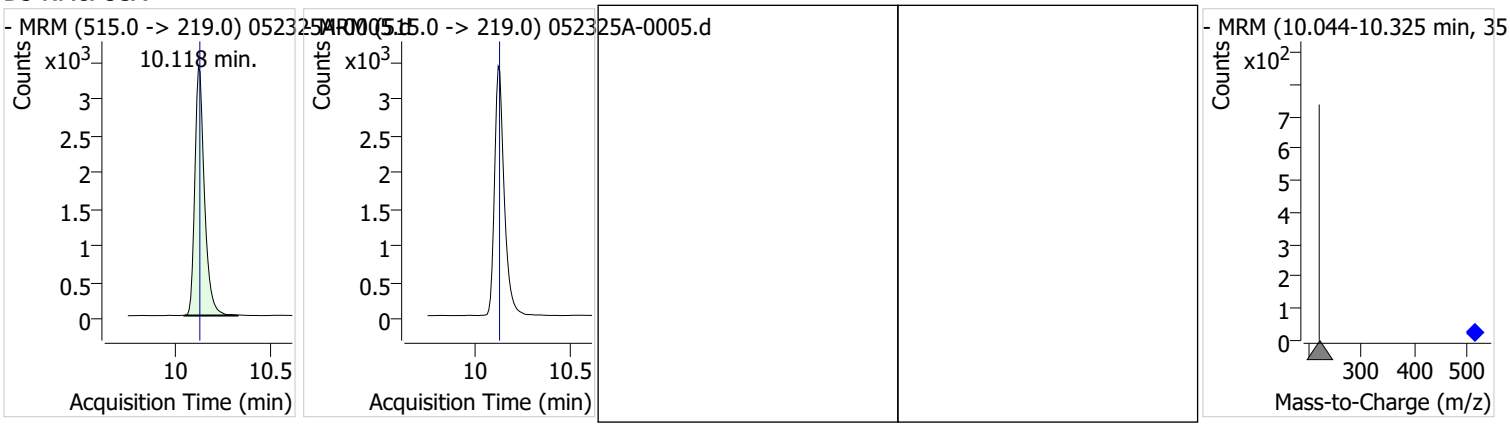
13C8-PFOSA



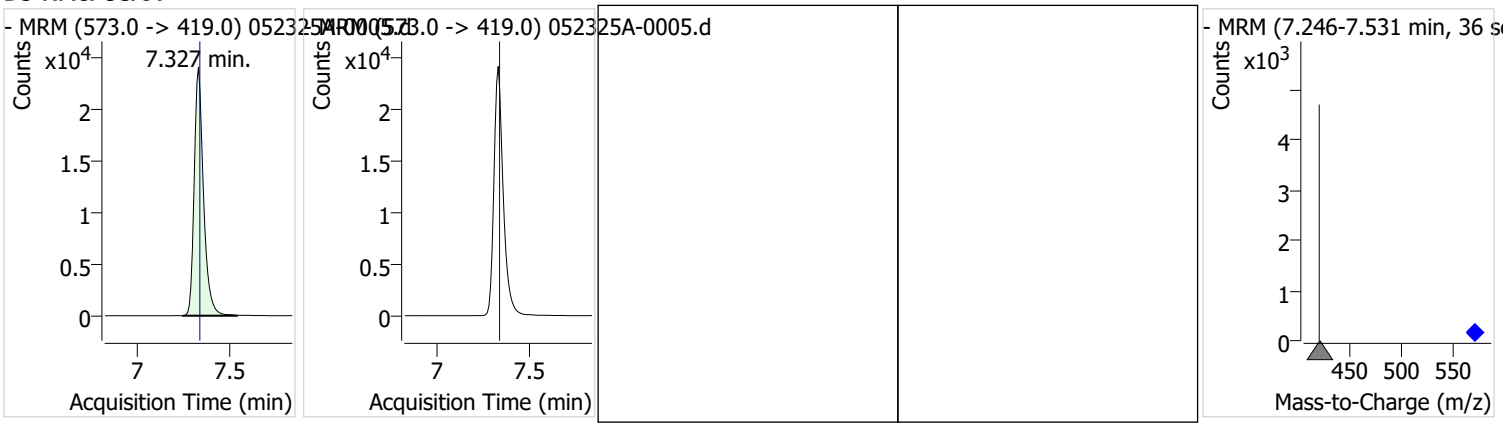
13C9-PFNA



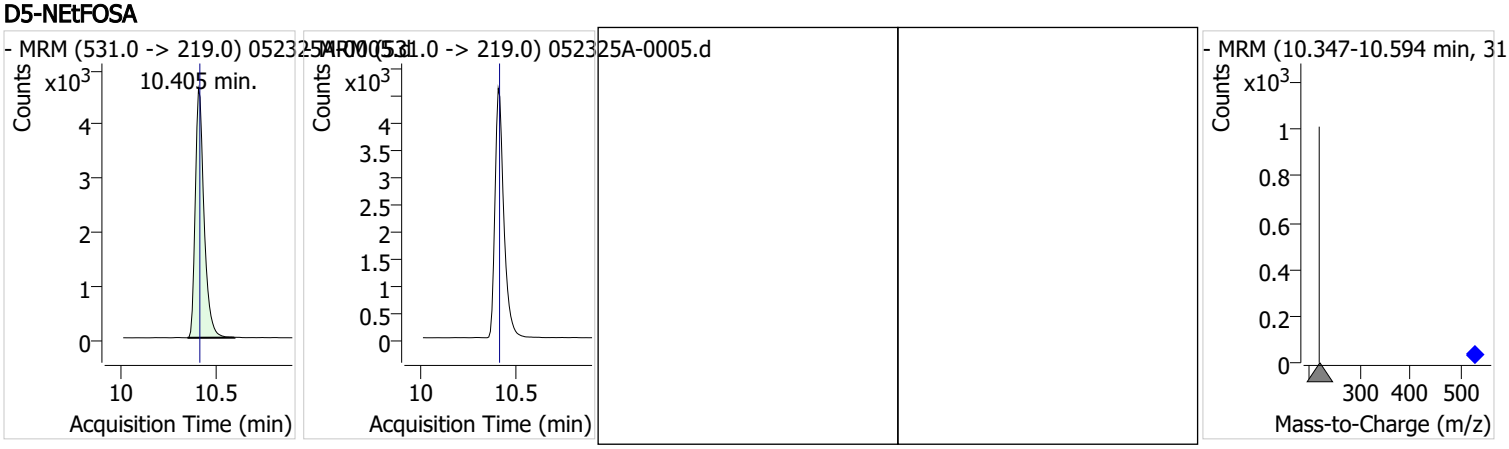
D3-NMeFOSA



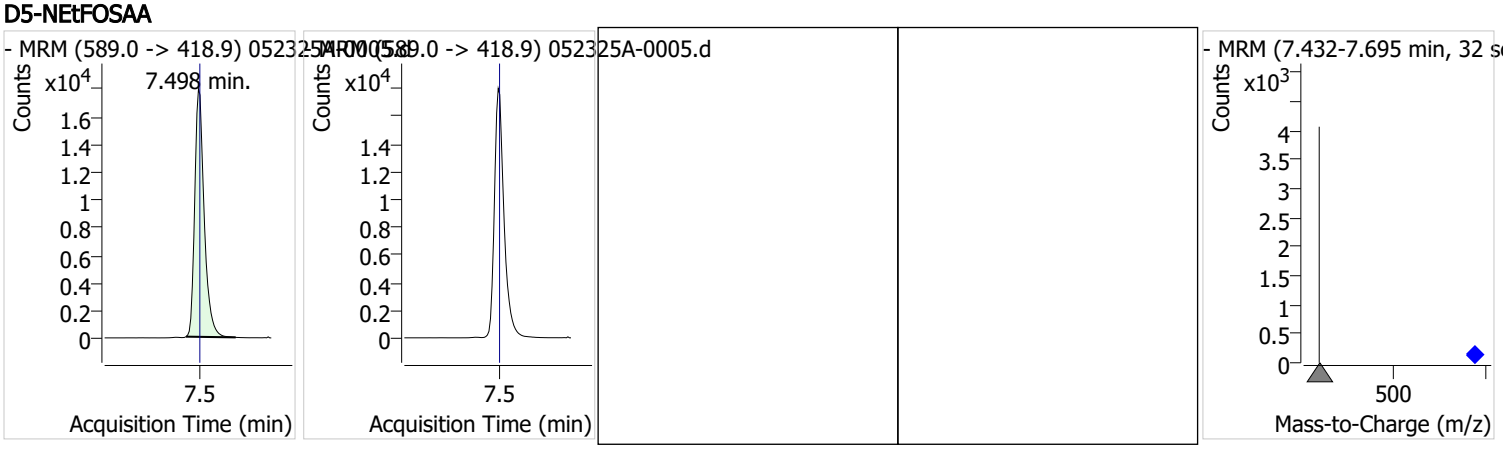
D3-NMeFOSAA



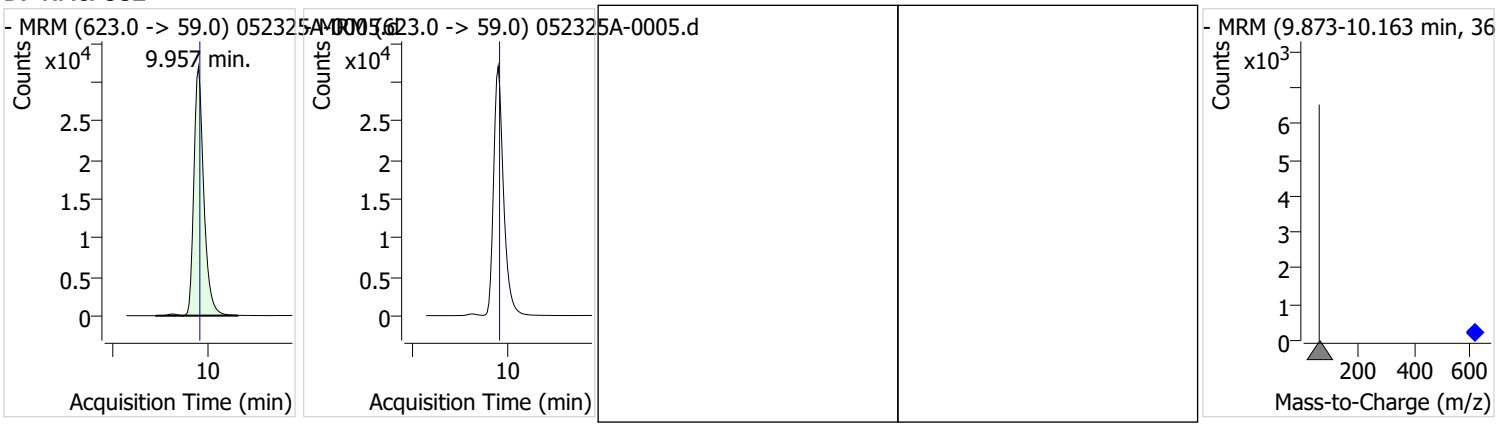
D5-NEtFOSA



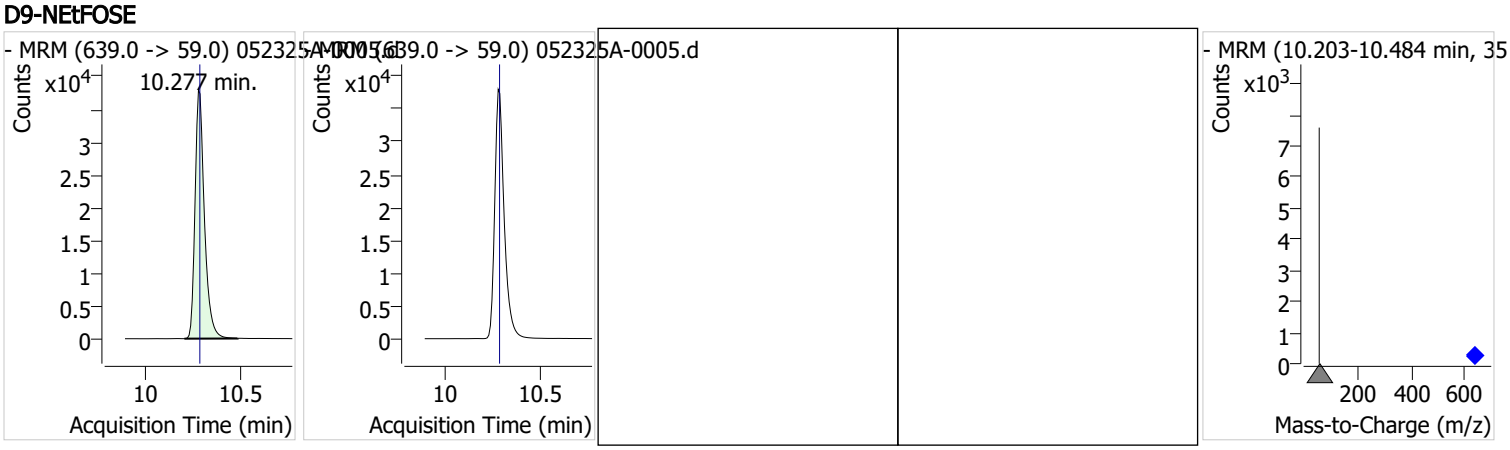
D5-NEtFOSAA



D7-NMeFOSE

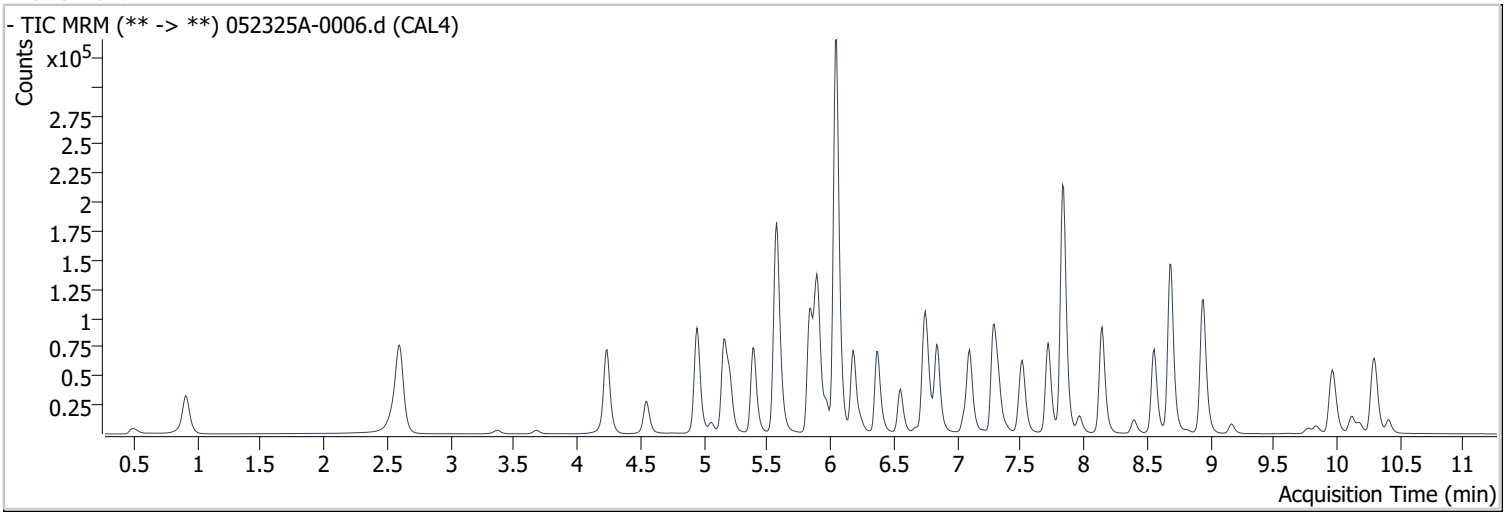


D9-NEtFOSE



Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 11:08 AM	**Data File**	052325A-0006.d
Sample Type	Cal	**Sample Name**	CAL4
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510288	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.403	77034	66575.07		13C3-HFPODA_ISTD	5.394	83285	9.4226	ng/ml			
285.0 -> 184.9	5.394	43479	1171.69	56.4								
4:2FTS	4.947	161785	20733.40		13C2-4:2FTS_ISTD	4.946	27592	8.9085	ng/ml			
327.0 -> 80.9	4.947	60443	35792.48	37.4								
6:2FTS	6.180	101882	9130.62		13C2-6:2FTS_ISTD	6.180	21495	8.7999	ng/ml			
427.0 -> 80.9	6.181	44373	13076.03	43.6								
ADONA	6.052	807291	240404.51		13C4-PFHpA_ISTD	5.839	136803	9.1011	ng/ml			
377.0 -> 85.1	6.052	328176	98004.53	40.7								
8:2FTS	7.100	107918	251657.69		13C2-8:2FTS_ISTD	7.100	19745	9.9711	ng/ml			
527.0 -> 81.0	7.101	45193	13412.63	41.9								
13C4-PFBA	2.597	188980	1907.60		13C3-PFBA_ISTD	2.600	74359	10.4419	ng/ml			
9Cl-PF3ONS	7.838	574717	36210.93		13C8-PFOS_ISTD	7.528	27987	9.0818	ng/ml			
533.0 -> 353.0	7.838	156788	3577.18	27.3								
11Cl-PF3OUdS	8.685	402292	90227.19		13C8-PFOS_ISTD	7.528	27987	9.0798	ng/ml			
633.0 -> 453.0	8.684	101521	9443.86	25.2								
PFHpS	7.064	33714	10145.99		13C8-PFOS_ISTD	7.528	27987	2.1707	ng/ml			
449.0 -> 98.8	7.064	14737	4519.15	43.7								
13C2-4:2FTS	4.946	27592	9959.48		18O2-PFHxS_ISTD	6.559	28155	5.6915	ng/ml			
13C2-6:2FTS	6.180	21495	78387.11		18O2-PFHxS_ISTD	6.559	28155	5.8847	ng/ml			
13C2-8:2FTS	7.100	19745	5756.06		18O2-PFHxS_ISTD	6.559	28155	5.3854	ng/ml			
13C2-PFDoA	8.146	92627	15020.76		13C2-PFDA_ISTD	7.290	57921	1.2800	ng/ml			
13C2-PFDA	7.290	57921	11288.28					1.1914	ng/ml			
13C2-PFHxA	5.162	73132	21567.85					2.3727	ng/ml			
13C2-PFTeDA	8.936	104298	30504.36		13C2-PFDA_ISTD	7.290	57921	1.2826	ng/ml			
13C4-PFOS	7.529	28147	111739.73					2.5535	ng/ml			
13C3-HFPODA	5.394	83285	365215.44		13C2-PFHxA_ISTD	5.162	73132	10.6589	ng/ml			
13C3-PFBS	5.205	49161	268670.13		18O2-PFHxS_ISTD	6.559	28155	2.5575	ng/ml			
13C3-PFHxS	6.560	34274	241908.42		18O2-PFHxS_ISTD	6.559	28155	2.6333	ng/ml			
NEtFOSAA	7.434	27990	1533.12		D5-NEtFOSAA_ISTD	7.498	65404	2.1982	ng/ml			
584.0 -> 526.0	7.433	25551	2397.49	91.3								

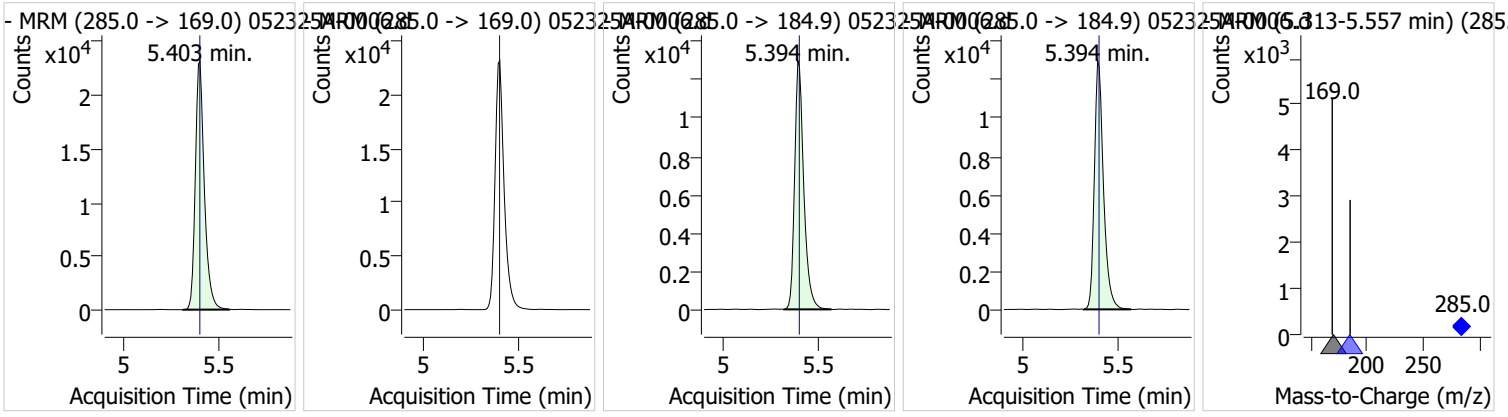
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	136803	6208.83		13C2-PFHxA_ISTD	5.162	73132	2.6342	ng/ml			
NMeFOSAA	7.247	14255	25014.18		D3-NMeFOSAA_ISTD	7.327	85204	2.2509	ng/ml			
570.0 -> 483.0	7.246	15899	832.35	111.5								
PFBA	2.594	170811	2784.83		13C4-PFBA_ISTD	2.597	188980	9.0701	ng/ml			
13C5-PFHxA	5.161	86292	25565.76		13C2-PFHxA_ISTD	5.162	73132	2.6580	ng/ml			
PFBS	5.205	53043	6157.82		13C3-PFBS_ISTD	5.205	49161	2.0458	ng/ml			
298.9 -> 98.8	5.213	18793	6858.64	35.4								
NMeFOSA	10.073	13049	3008.23		D3-NMeFOSA_ISTD	10.118	11990	2.2864	ng/ml			
512.0 -> 169.0	10.074	17987	3029.92	137.8								
PFDA	7.290	137227	1939.80		13C6-PFDA_ISTD	7.289	73409	2.2845	ng/ml			
513.0 -> 219.0	7.290	25066	82283.78	18.3								
PFDoA	8.146	197564	6012.79		13C2-PFDoA_ISTD	8.146	92627	2.3681	ng/ml			
613.0 -> 319.0	8.147	21380	6114.77	10.8								
NEtFOSA	10.377	16230	1812.92		D5-NEtFOSA_ISTD	10.405	14472	2.2925	ng/ml			
526.0 -> 169.0	10.378	22134	1174.86	136.4								
PFHpA	5.839	145706	14989.98		13C4-PFHpA_ISTD	5.839	136803	2.3742	ng/ml			
362.9 -> 169.0	5.839	23367	7219.94	16.0								
PFHxA	5.163	92593	1948.79		13C5-PFHxA_ISTD	5.161	86292	2.3000	ng/ml			
313.0 -> 118.9	5.163	3087	8562.11	3.3								
NMeFOSE	9.899	135753	3213.64		D7-NMeFOSE_ISTD	9.957	116807	23.6098	ng/ml			
PFHxS	6.498	37466	3380.15		13C3-PFHxS_ISTD	6.560	34274	2.1635	ng/ml			
398.9 -> 99.0	6.498	14889	2599.19	39.7								
PFNA	6.789	104178	3537.92		13C9-PFNA_ISTD	6.842	66139	2.2508	ng/ml			
463.0 -> 219.0	6.789	30719	2297.26	29.5								
NEtFOSE	10.249	165708	2311.60		D9-NEtFOSE_ISTD	10.277	132513	23.0805	ng/ml			
PFOA	6.300	103759	2675.92		13C8-PFOA_ISTD	6.368	100554	2.1845	ng/ml			
413.0 -> 169.0	6.300	30387	2027.44	29.3								
PFOS	7.399	33819	3025.67		13C8-PFOS_ISTD	7.528	27987	2.0441	ng/ml			
499.0 -> 99.0	7.402	16771	2039.08	49.6								
PFPeA	4.239	142977	1170.90		13C5-PFPeA_ISTD	4.237	138412	4.5883	ng/ml			
PFMPA	3.377	14399	7230.83		13C4-PFBA_ISTD	2.597	188980	4.4046	ng/ml			
13C5-PFPeA	4.237	138412	8962.14		13C2-PFHxA_ISTD	5.162	73132	5.3441	ng/ml			
PFMBA	4.547	103841	25235.90		13C5-PFPeA_ISTD	4.237	138412	4.5171	ng/ml			
PFTrDA	8.559	230242	4584.41		13C2-PFDoA_ISTD	8.146	92627	2.3633	ng/ml			
663.0 -> 168.9	8.559	19544	5612.01	8.5								
PFEESA	5.570	294183	81573.63		13C5-PFHxA_ISTD	5.161	86292	4.2648	ng/ml			
315.0 -> 83.0	5.571	21601	2030.87	7.3								
13C6-PFDA	7.289	73409	21893.93		13C2-PFDA_ISTD	7.290	57921	1.3460	ng/ml			
NFDHA	5.066	20957	86078.58		13C5-PFHxA_ISTD	5.161	86292	4.4895	ng/ml			
295.0 -> 85.0	5.067	6771	6139.44	32.3								
PFOSA	8.899	38866	2817.99		13C8-PFOSA_ISTD	8.959	39417	2.2416	ng/ml			
497.9 -> 478.0	8.902	1099	529.71	2.8								
13C7-PFUnA	7.721	81492	27120.06		13C2-PFDA_ISTD	7.290	57921	1.3379	ng/ml			
13C4-PFOA	6.369	20320	6271.28					2.4576	ng/ml			
PFDS	8.398	26450	2361.84		13C8-PFOS_ISTD	7.528	27987	2.2474	ng/ml			
599.0 -> 98.8	8.405	12647	67441.37	47.8								
PFNS	7.969	31939	3564.28		13C8-PFOS_ISTD	7.528	27987	2.2075	ng/ml			
549.0 -> 98.8	7.968	14303	44559.71	44.8								
PFPeS	5.971	45598	146285.40		13C3-PFHxS_ISTD	6.560	34274	2.1213	ng/ml			
349.0 -> 98.9	5.979	19929	41200.08	43.7								
PFTeDA	8.937	229636	8889.38		13C2-PFTeDA_ISTD	8.936	104298	2.3854	ng/ml			

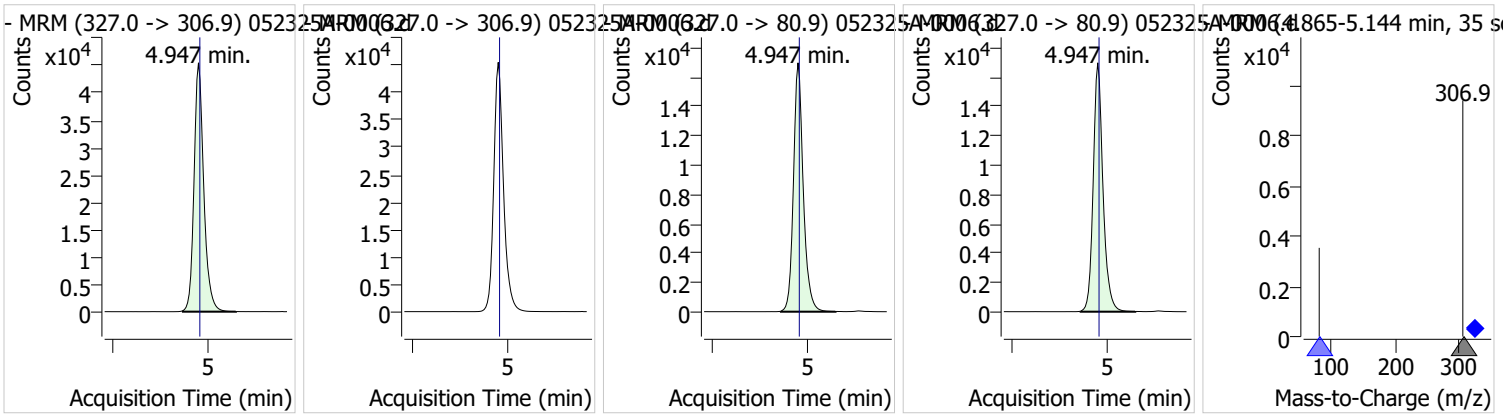
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	11722	3335.48	5.1								
PFUnA	7.722	153835	1909.60		13C7-PFUnA_ISTD	7.721	81492	2.2605	ng/ml			
563.0 -> 269.1	7.722	24876	7390.00	16.2								
13C3-PFBA	2.600	74359	2796.04					4.8964	ng/ml			
3:3FTCA	3.679	8419	839.83		13C5-PFPeA_ISTD	4.237	138412	10.7417	ng/ml			
241.0 -> 117.0	3.682	4515	133.42	53.6								
5:3FTCA	5.577	182506	48694.32		13C5-PFHxA_ISTD	5.161	86292	56.6681	ng/ml			
341.0 -> 217.0	5.585	168731	9515.10	92.5								
7:3FTCA	6.754	197103	368.19		13C9-PFNA_ISTD	6.842	66139	55.7052	ng/ml			
441.0 -> 337.0	6.754	212551	52662.08	107.8								
13C5-PFNA	6.850	58567	17392.55					1.2384	ng/ml			
18O2-PFHxS	6.559	28155	70479.97					2.4786	ng/ml			
PFDoS	9.171	17799	7935.29		13C8-PFOS_ISTD	7.528	27987	2.2497	ng/ml			
698.9 -> 99.0	9.170	9856	49905.17	55.4								
TDCA					13C8-PFOS_ISTD	7.528	27987	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	67432	4079.14		13C3-PFPrA_ISTD	0.907	86061	8.9170	ng/ml			
13C3-PFPrA	0.907	86061	23330.86		13C3-PFBA_ISTD	2.600	74359	10.6985	ng/ml			
TFSI	5.900	301198	3792.40		13C3-HFPODA_ISTD	5.394	83285	4.6697	ng/ml			
279.9 -> 77.9	5.900	208845	51830.40	69.3								
13C8-PFOA	6.368	100554	5980.10		13C4-PFOA_ISTD	6.369	20320	2.6412	ng/ml			
13C8-PFOS	7.528	27987	41938.15		13C4-PFOS_ISTD	7.529	28147	2.5423	ng/ml			
13C8-PFOSA	8.959	39417	11040.46		13C4-PFOS_ISTD	7.529	28147	2.4902	ng/ml			
13C9-PFNA	6.842	66139	75615.54		13C5-PFNA_ISTD	6.850	58567	1.2781	ng/ml			
D3-NMeFOSA	10.118	11990	1784.72		13C4-PFOS_ISTD	7.529	28147	2.3774	ng/ml			
D3-NMeFOSAA	7.327	85204	24381.89		13C4-PFOS_ISTD	7.529	28147	4.8668	ng/ml			
D5-NEtFOSA	10.405	14472	1321.78		13C4-PFOS_ISTD	7.529	28147	2.3872	ng/ml			
D5-NEtFOSAA	7.498	65404	18587.22		13C4-PFOS_ISTD	7.529	28147	4.9191	ng/ml			
D7-NMeFOSE	9.957	116807	14671.89		13C4-PFOS_ISTD	7.529	28147	24.1256	ng/ml			
D9-NEtFOSE	10.277	132513	7195.90		13C4-PFOS_ISTD	7.529	28147	24.6479	ng/ml			

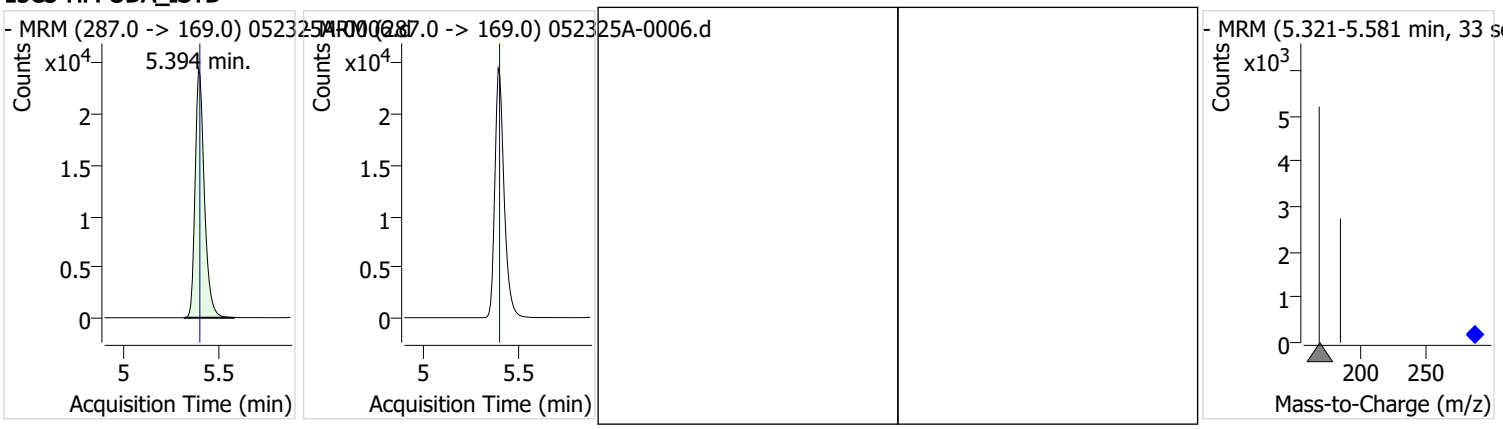
HFPO-DA



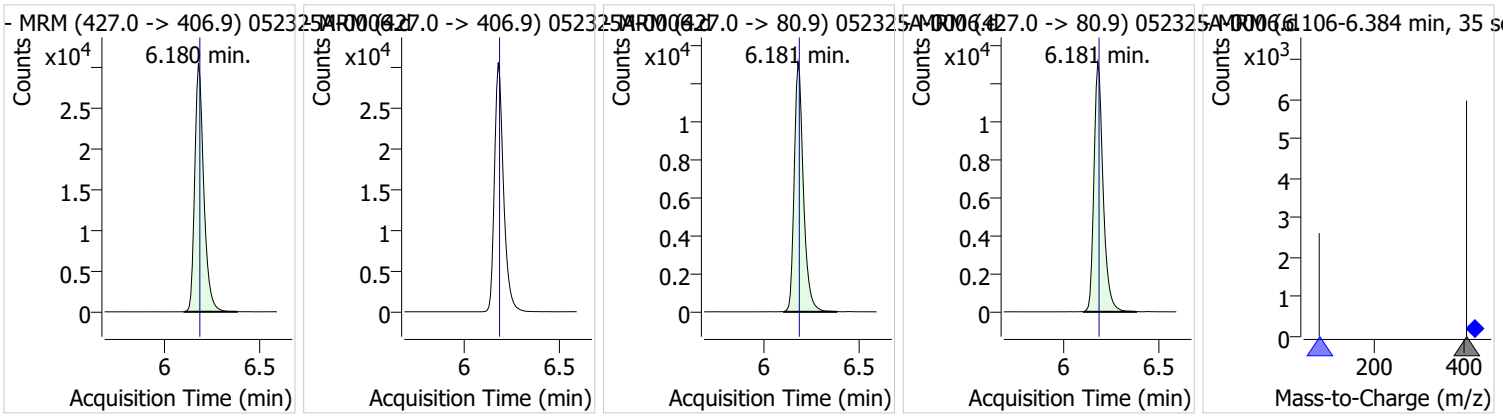
4:2FTS



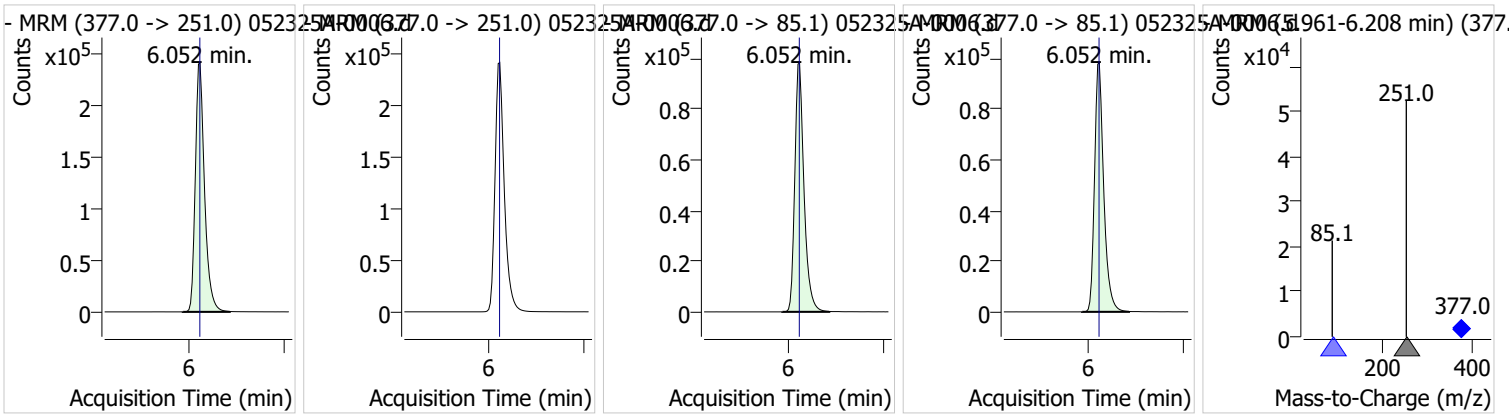
13C3-HFPODA_ISTD



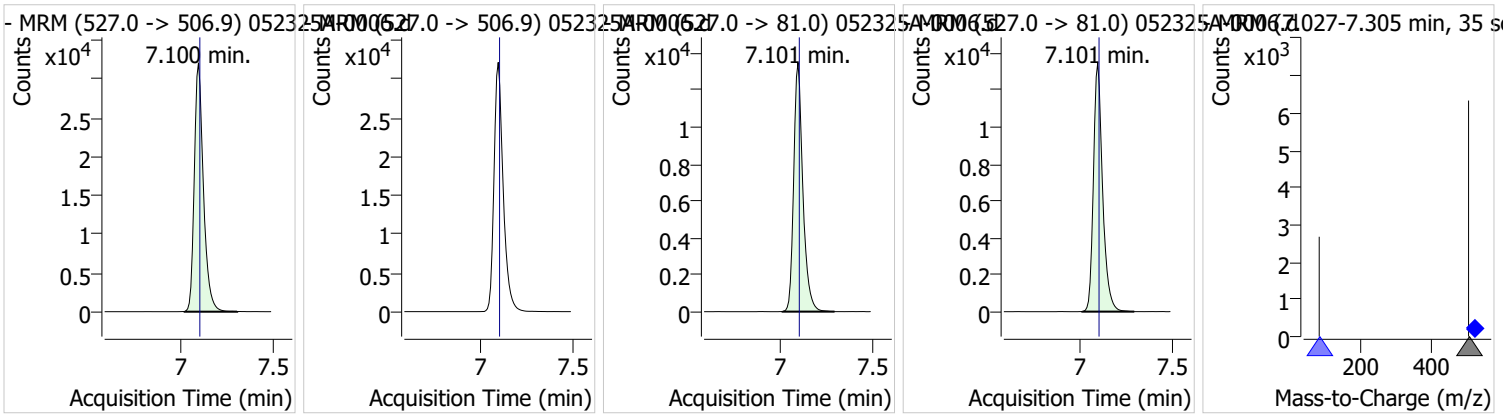
6:2FTS



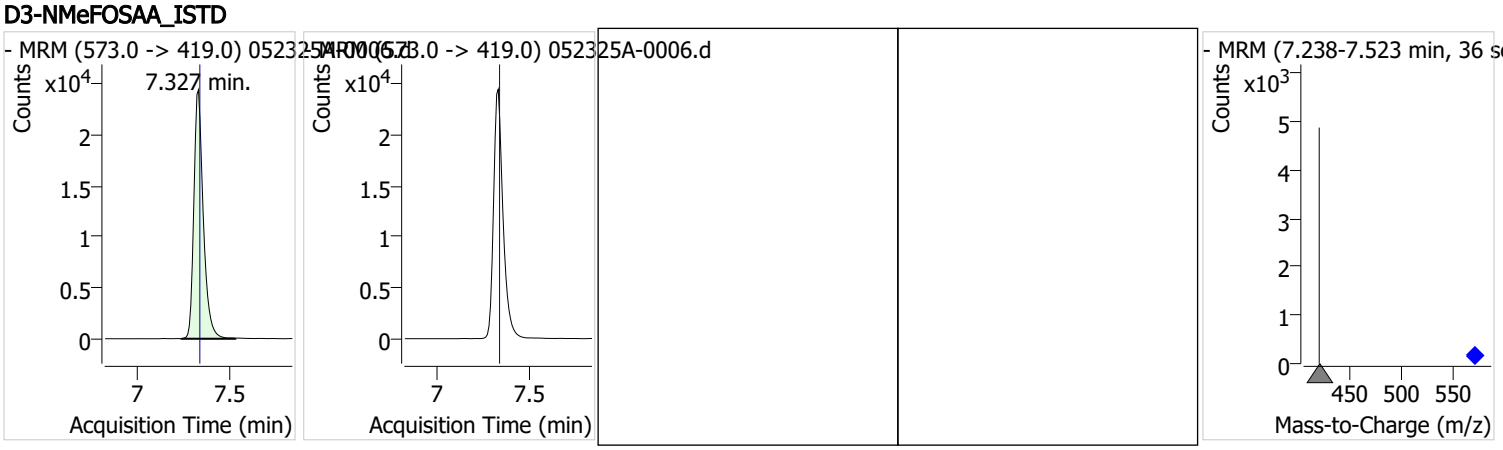
ADONA



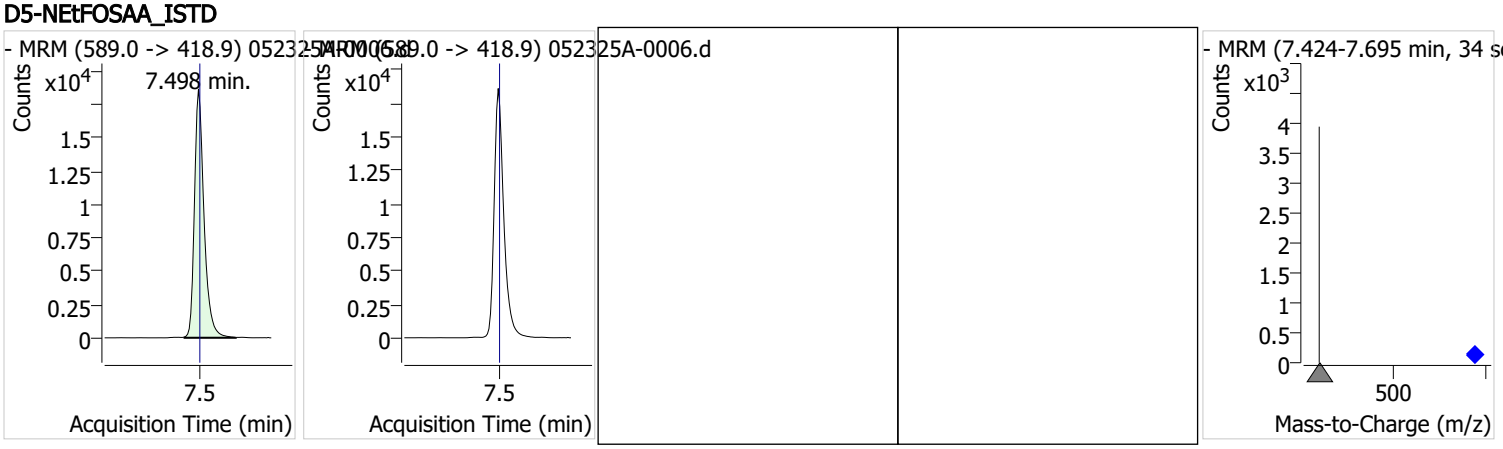
8:2FTS



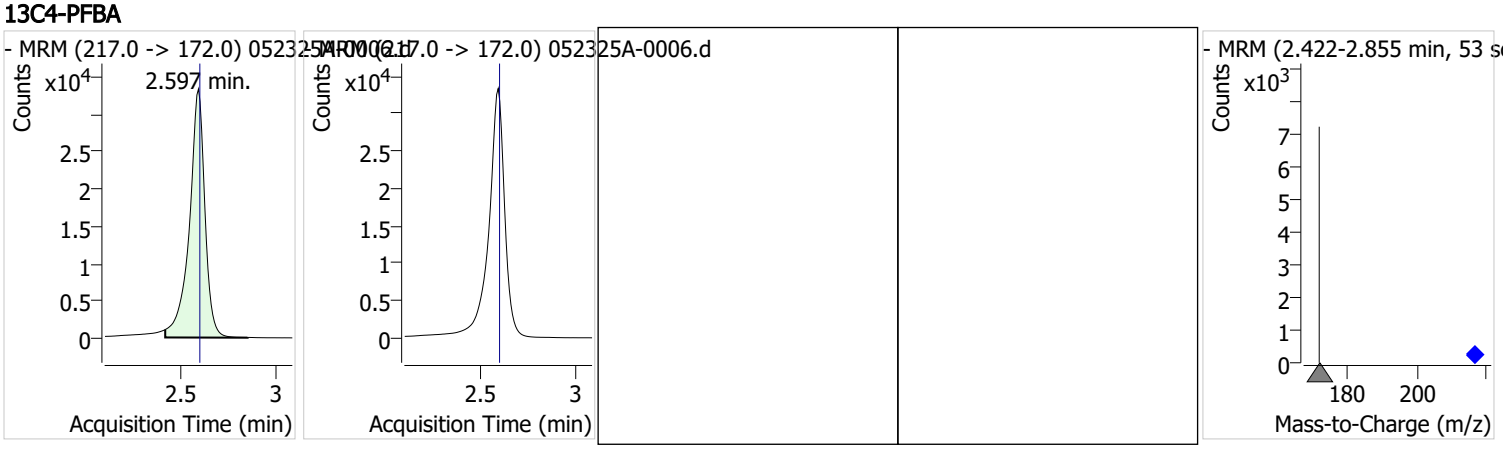
D3-NMeFOSAA_ISTD



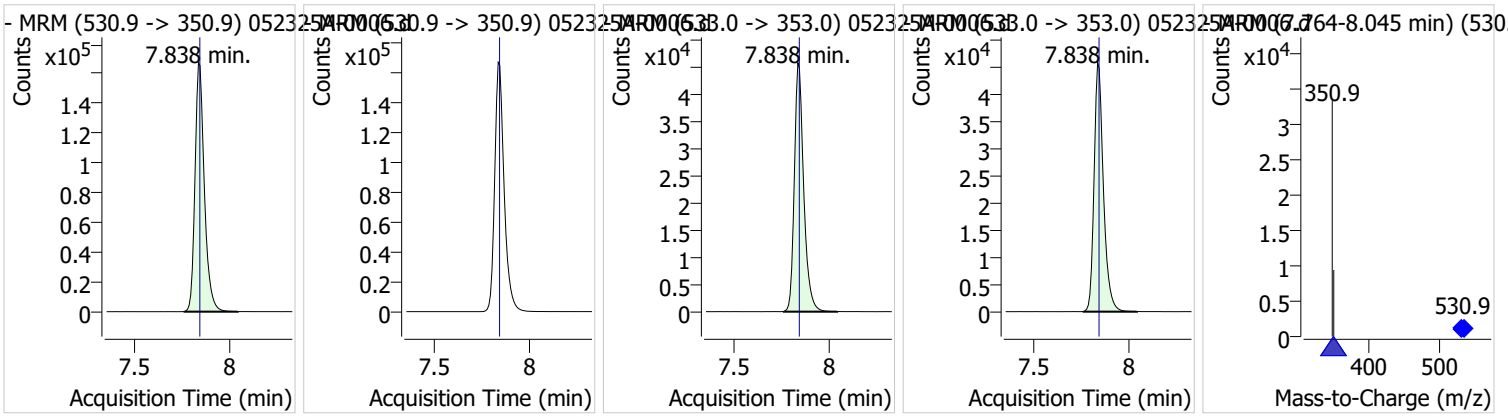
D5-NEtFOSAA_ISTD



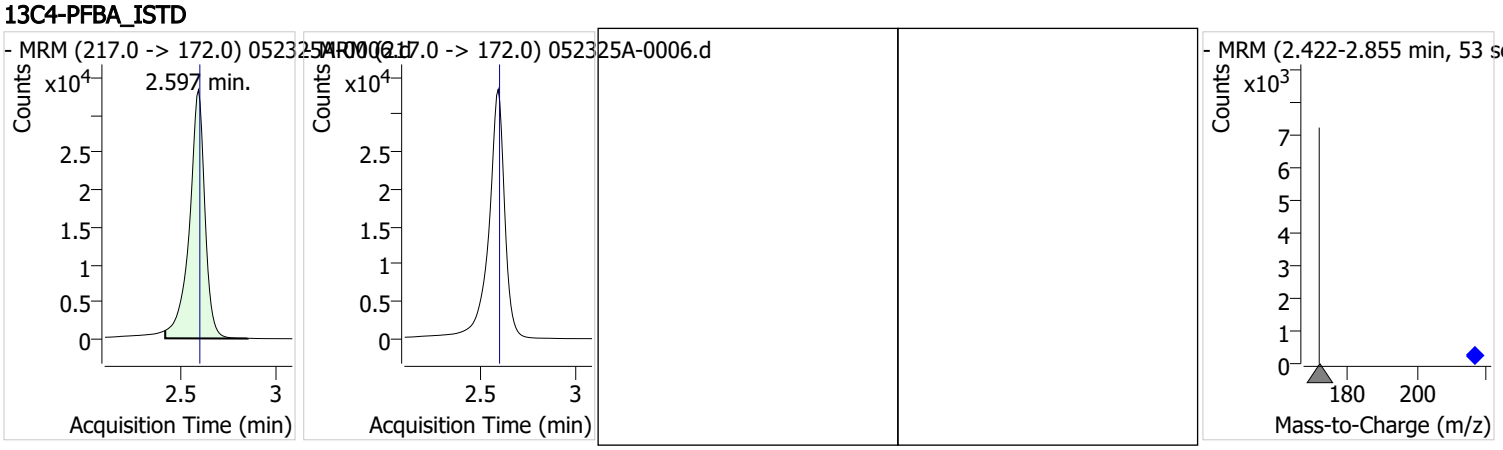
13C4-PFBA



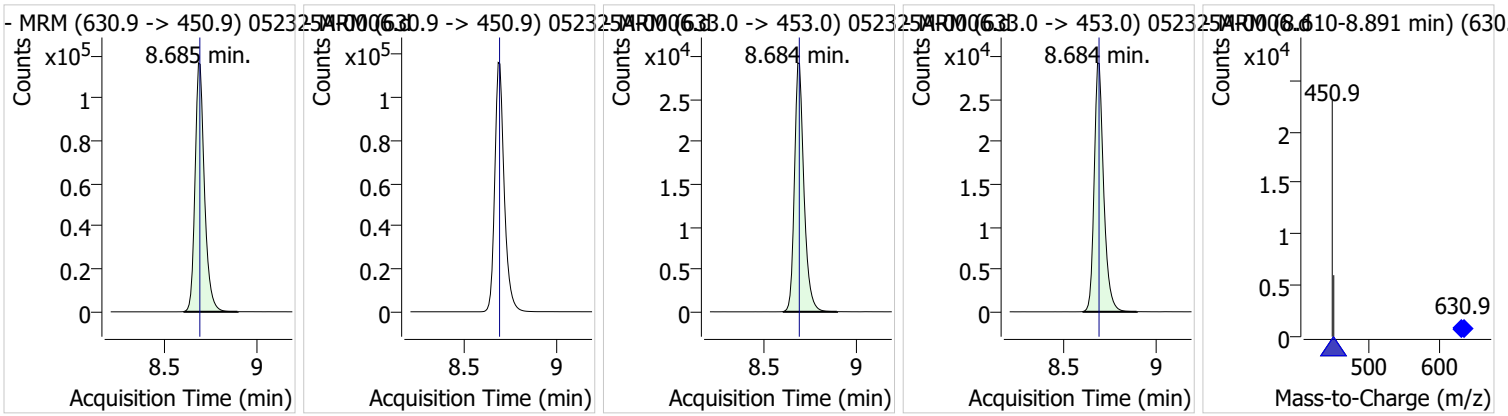
9Cl-PF3ONS



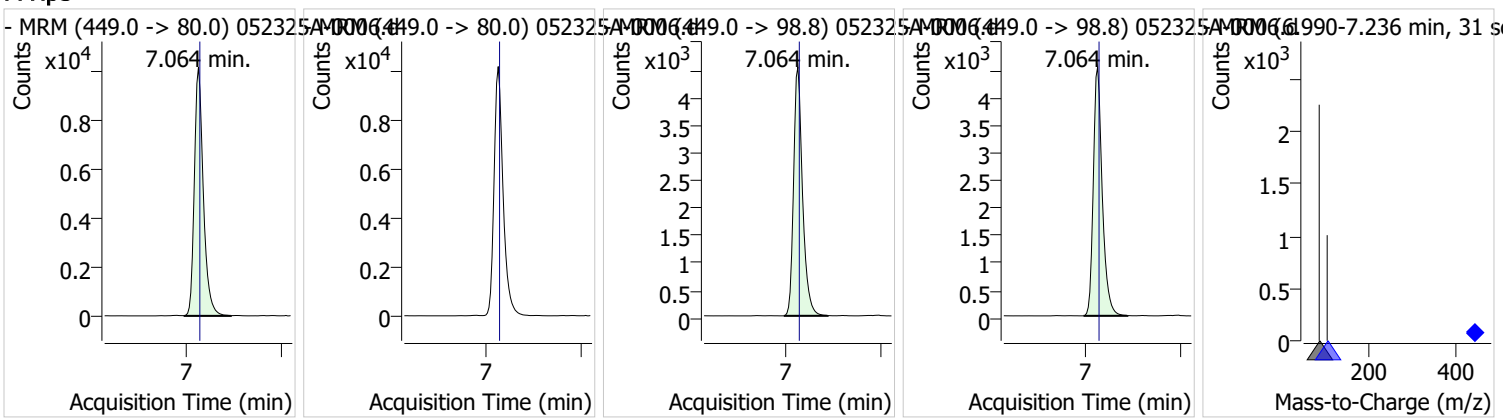
13C4-PFBA_ISTD



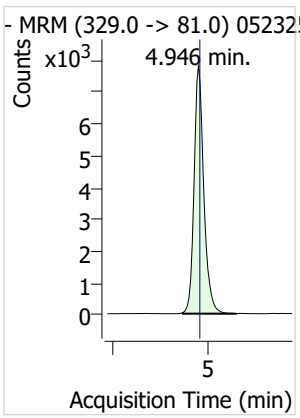
11Cl-PF3OUdS

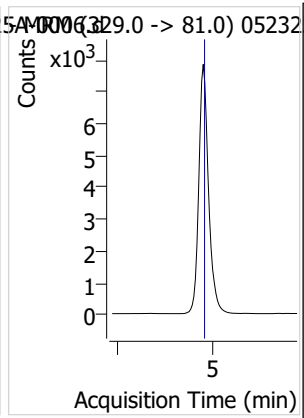


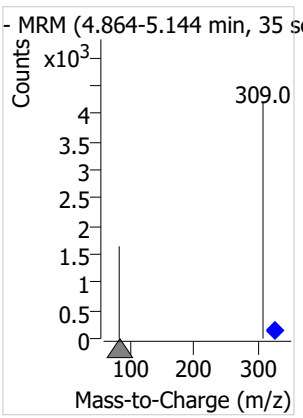
PFHpS



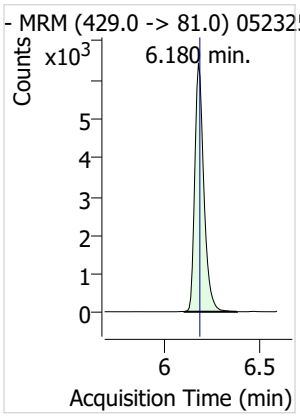
13C2-4:2FTS

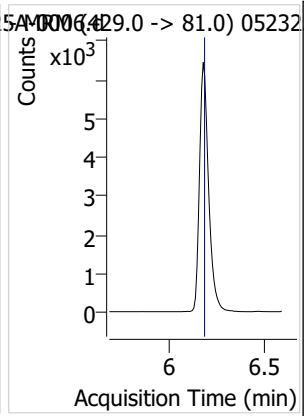


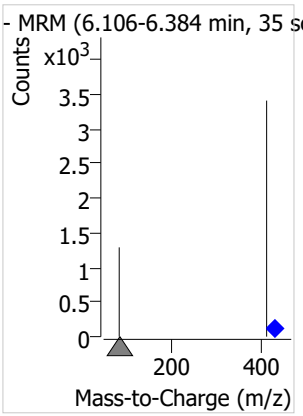




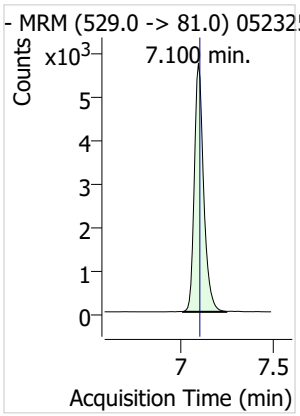
13C2-6:2FTS

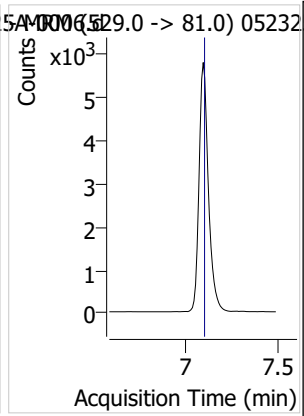


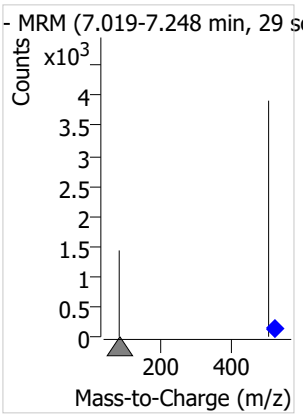




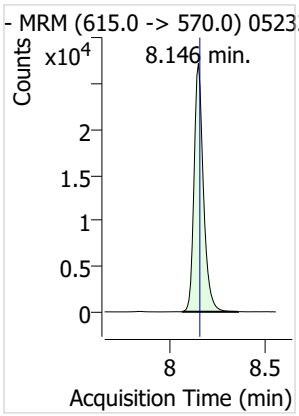
13C2-8:2FTS

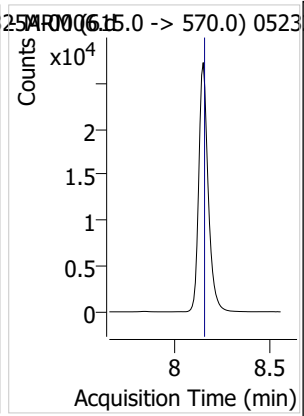


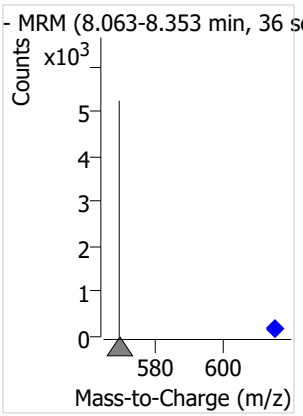




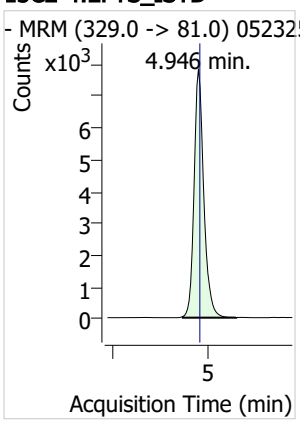
13C2-PFDoA

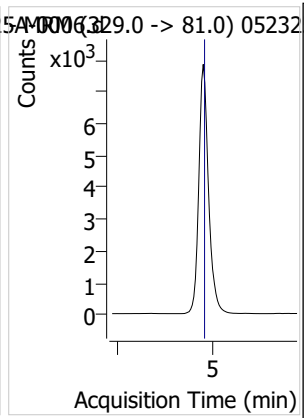


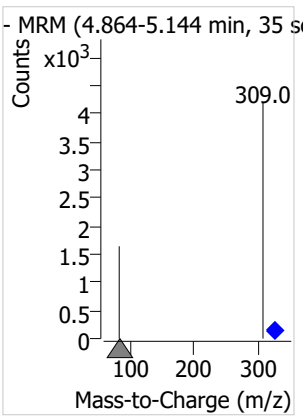




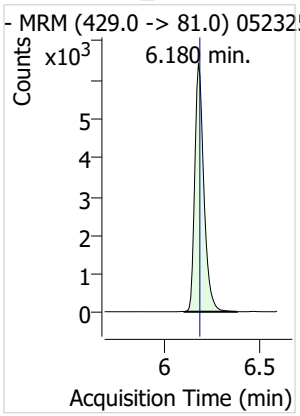
13C2-4:2FTS_ISTD

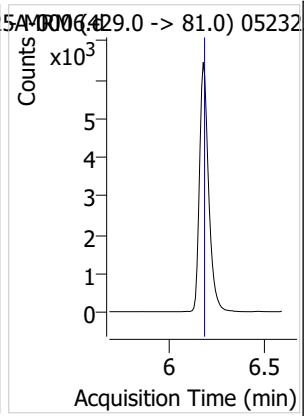


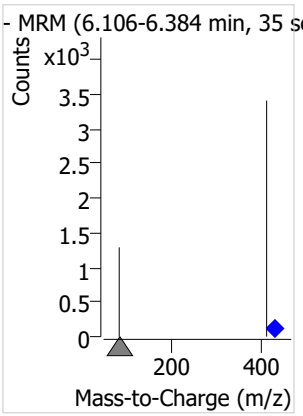




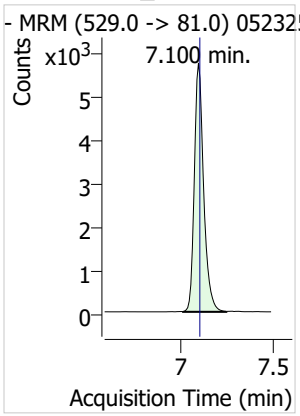
13C2-6:2FTS_ISTD

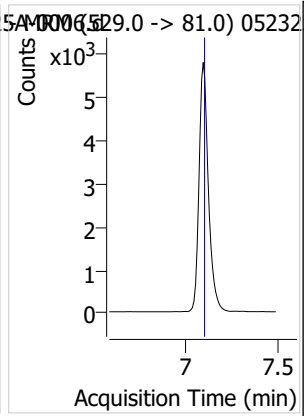


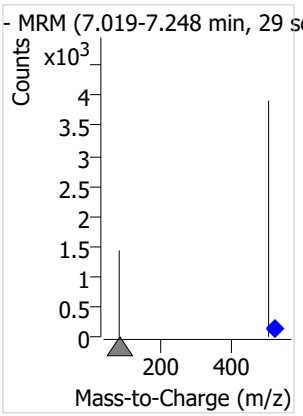




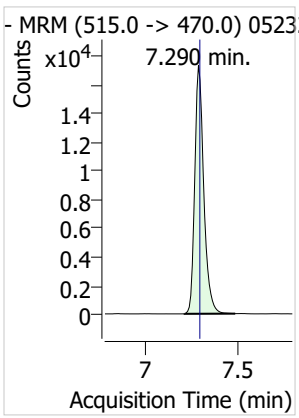
13C2-8:2FTS_ISTD

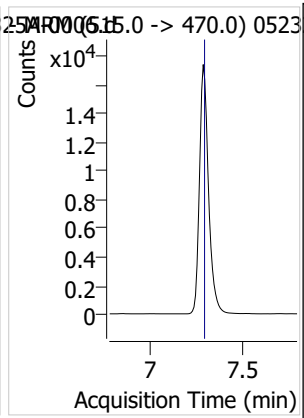


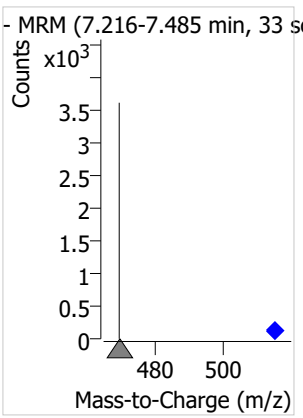




13C2-PFDA



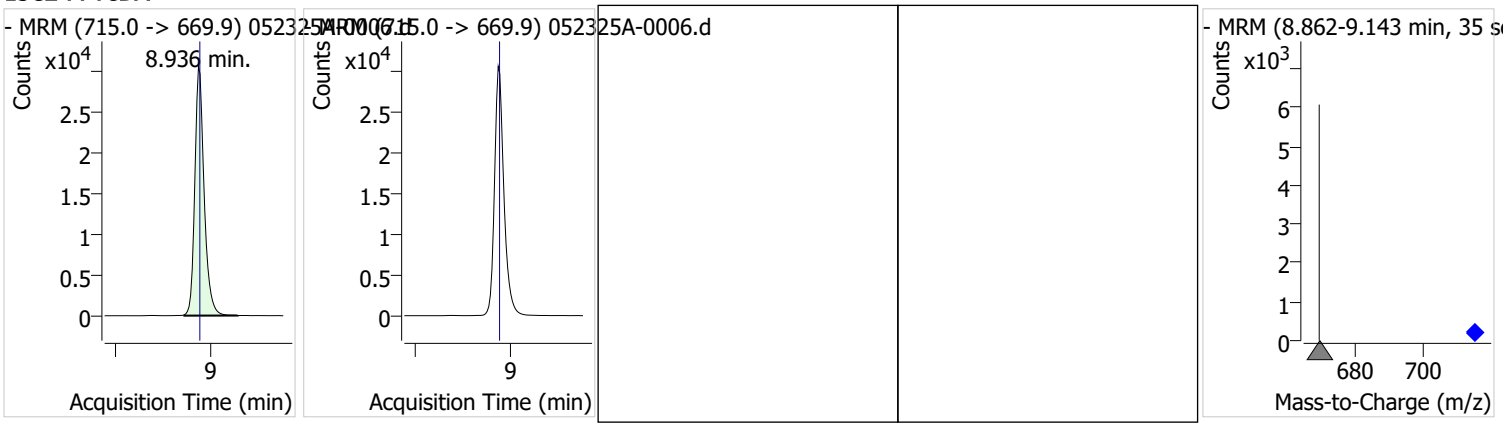




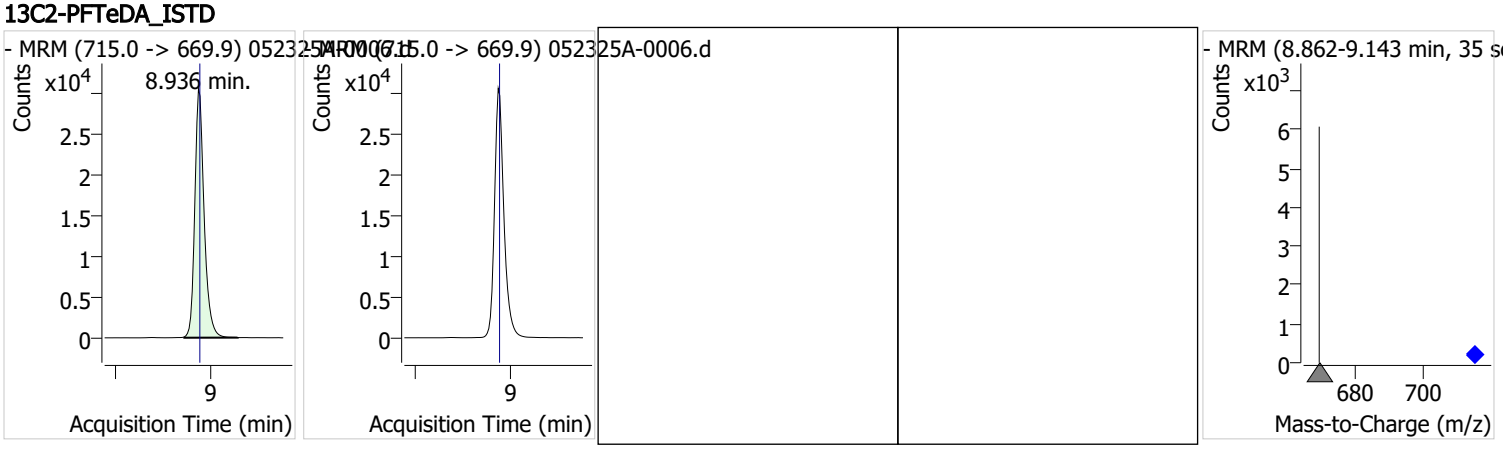
13C2-PFHxA



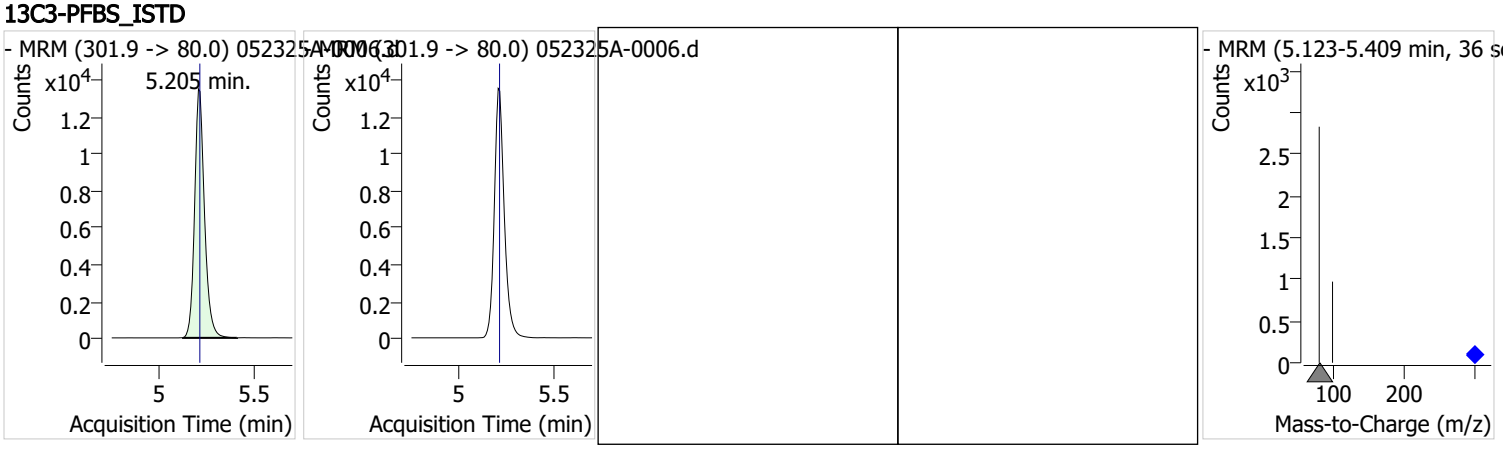
13C2-PFTeDA



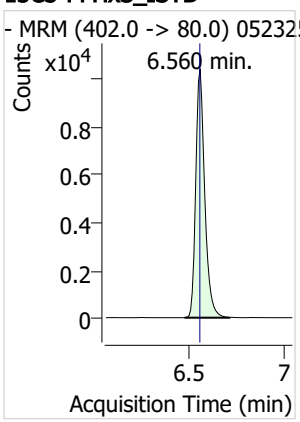
13C2-PFTeDA_ISTD

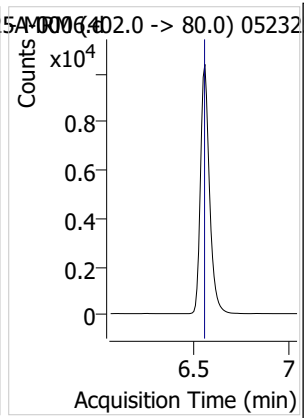


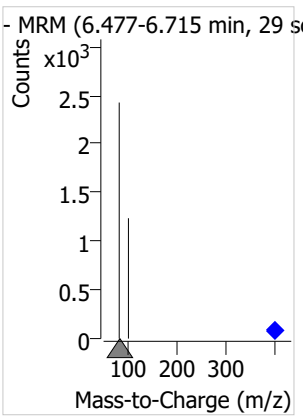
13C3-PFBS_ISTD



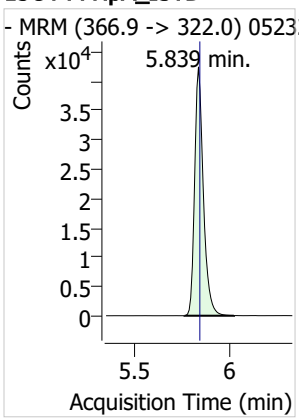
13C3-PFHxS_ISTD

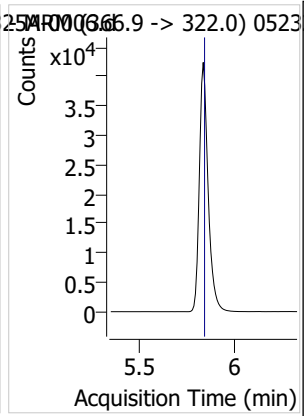


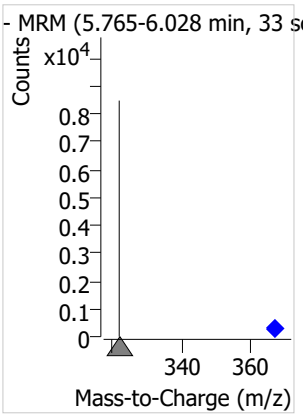




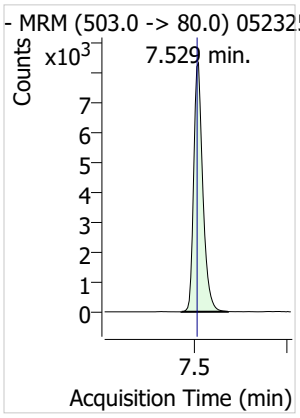
13C4-PFHpA_ISTD

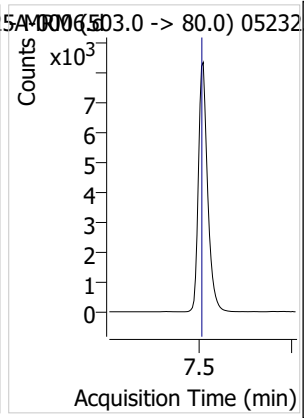


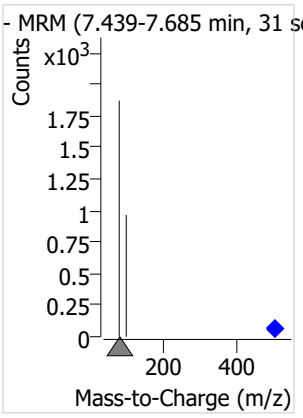




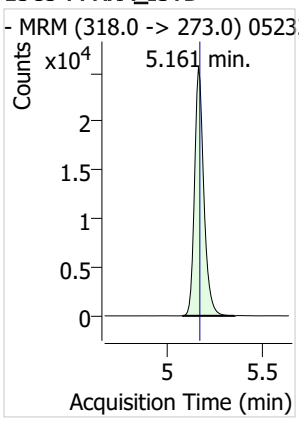
13C4-PFOS

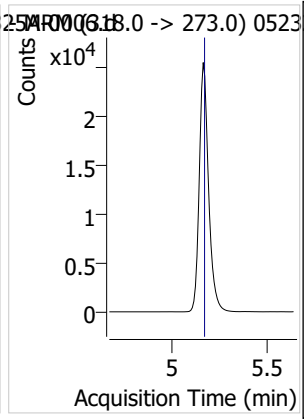


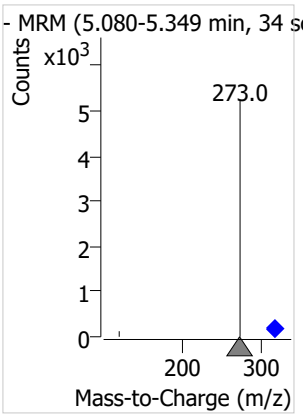




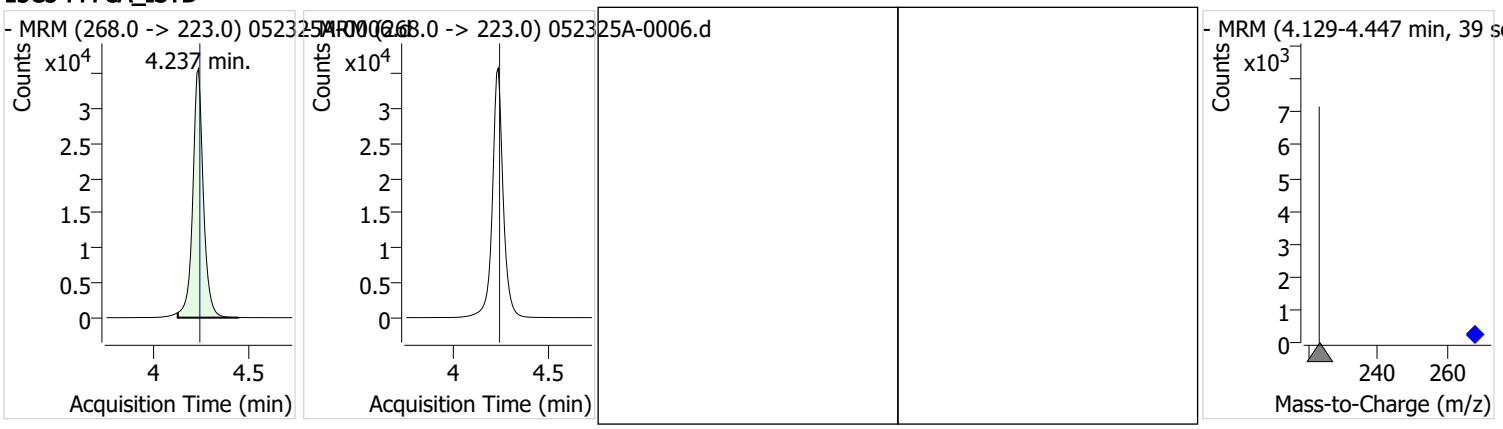
13C5-PFHxA_ISTD







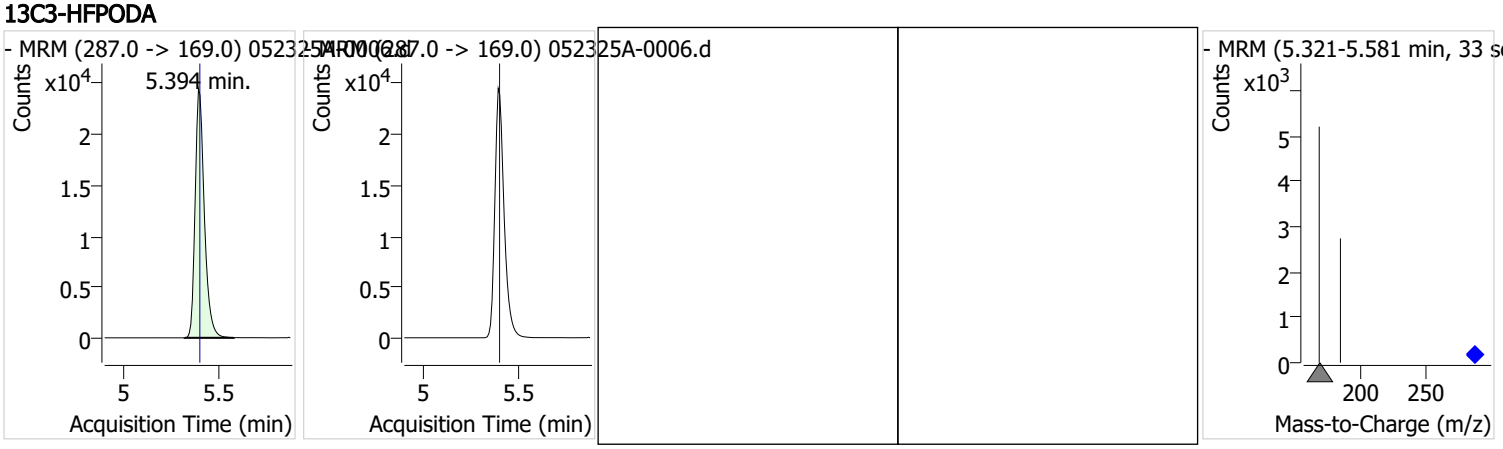
13C5-PFPeA_ISTD



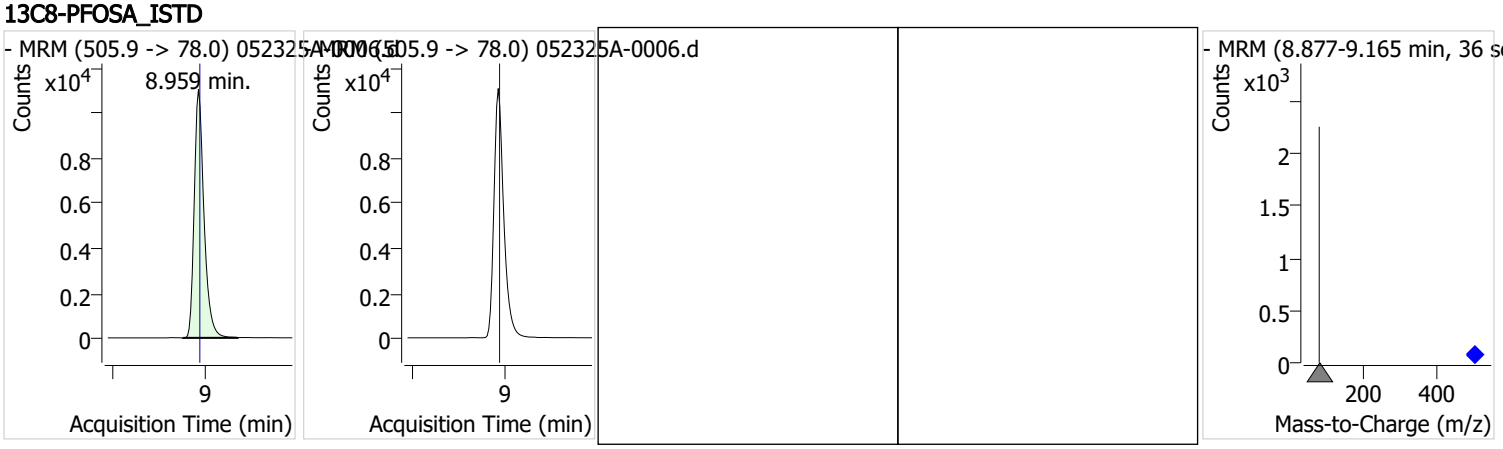
13C6-PFDA_ISTD



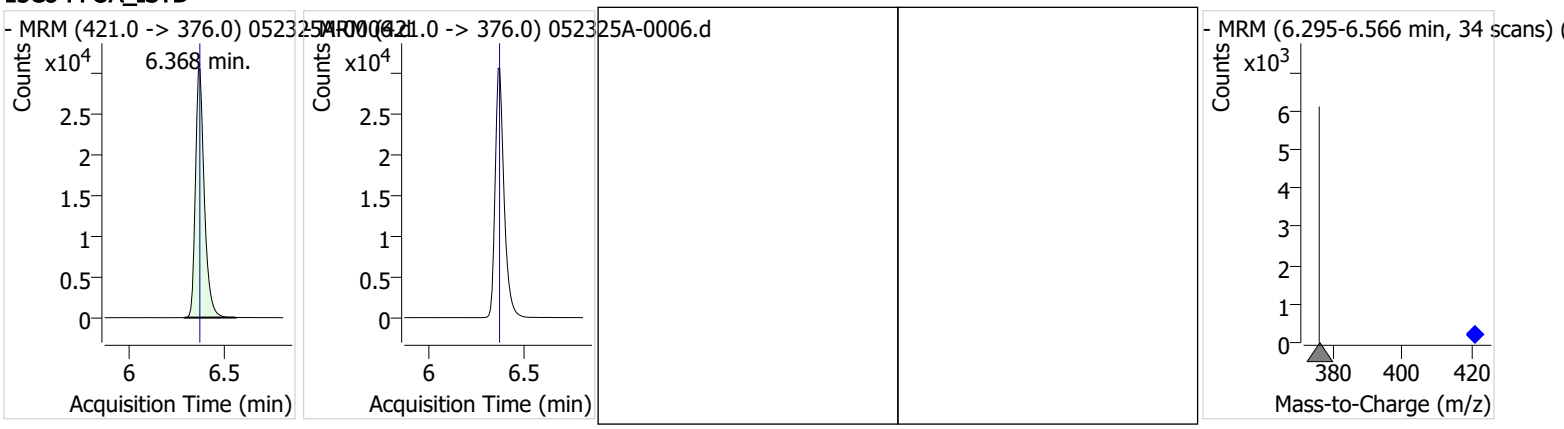
13C3-HFPODA



13C8-PFOSA_ISTD



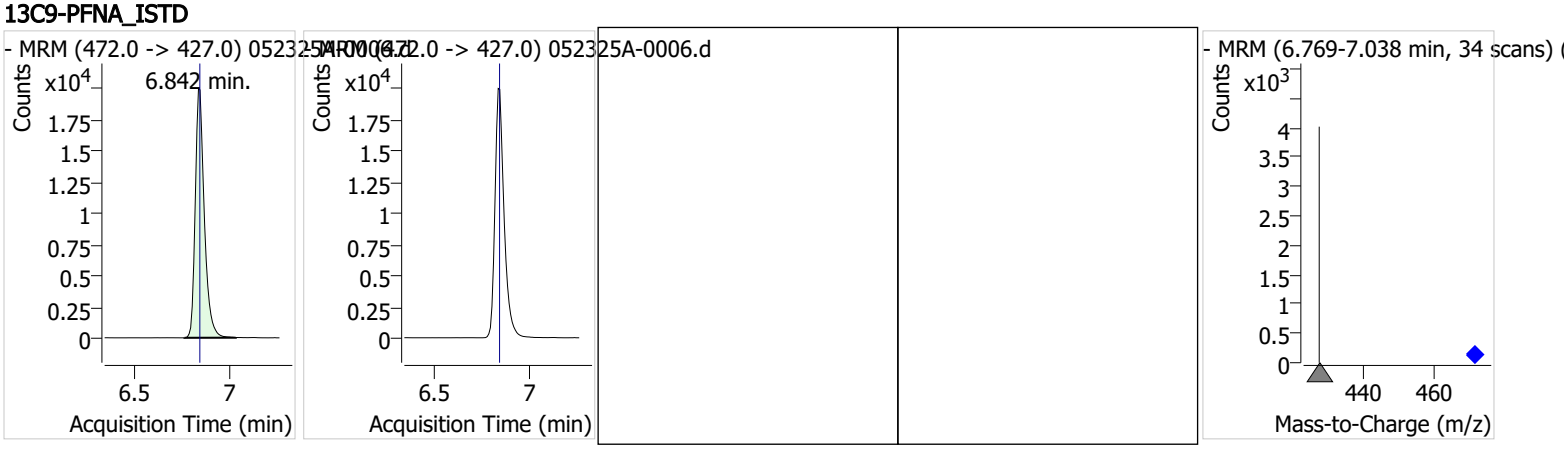
13C8-PFOA_ISTD



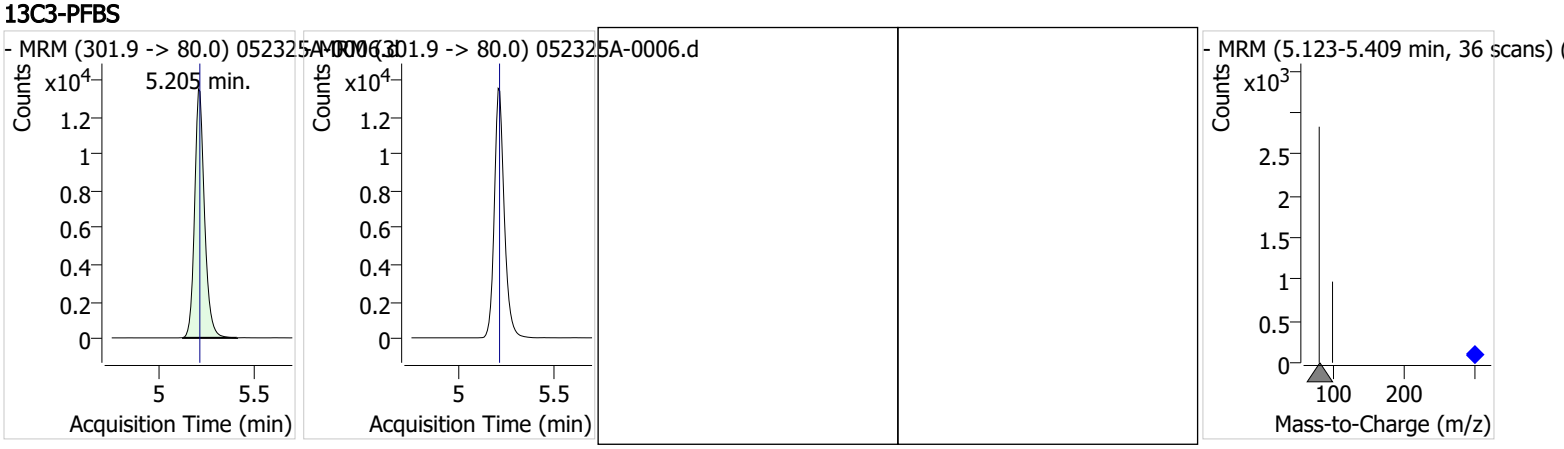
13C8-PFOS_ISTD



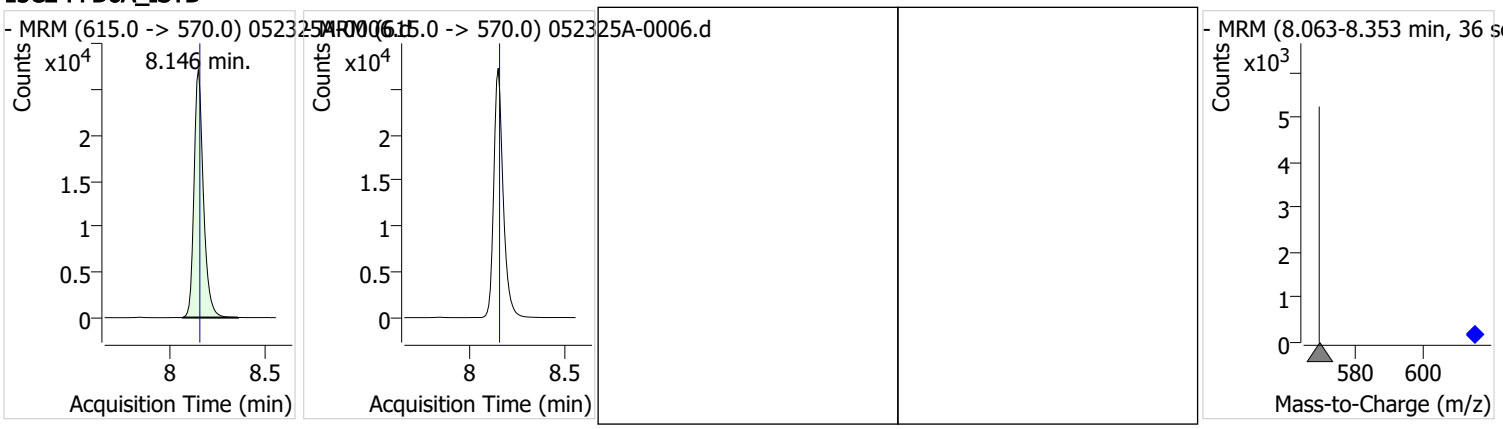
13C9-PFNA_ISTD



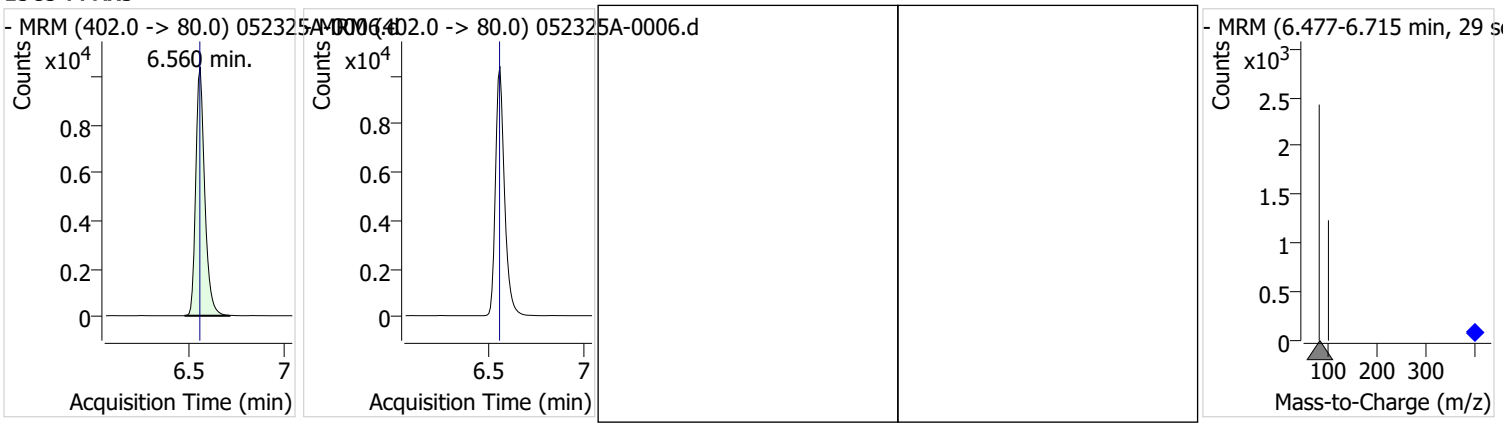
13C3-PFBS



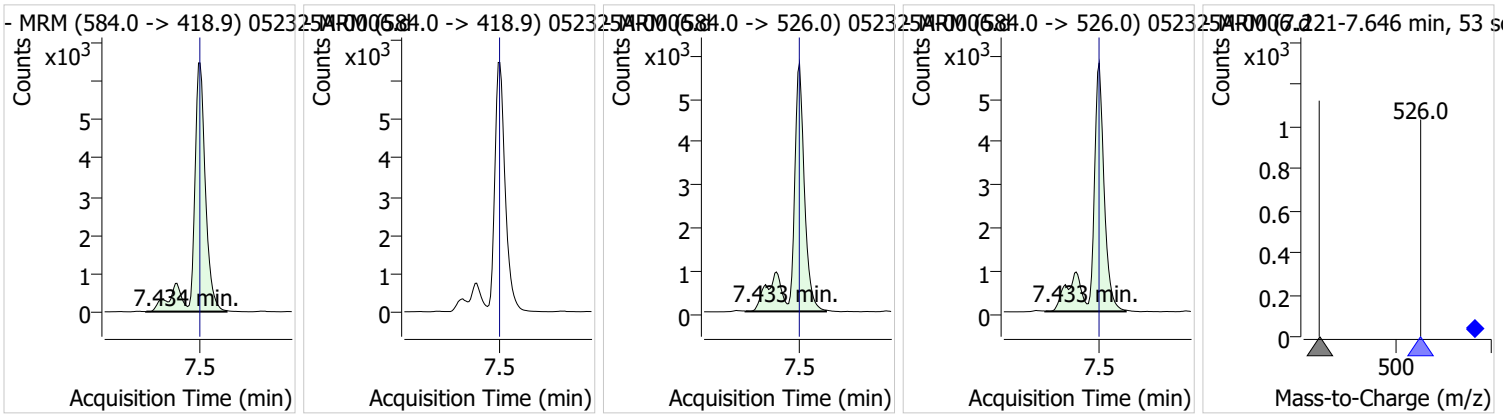
13C2-PFDoA_ISTD



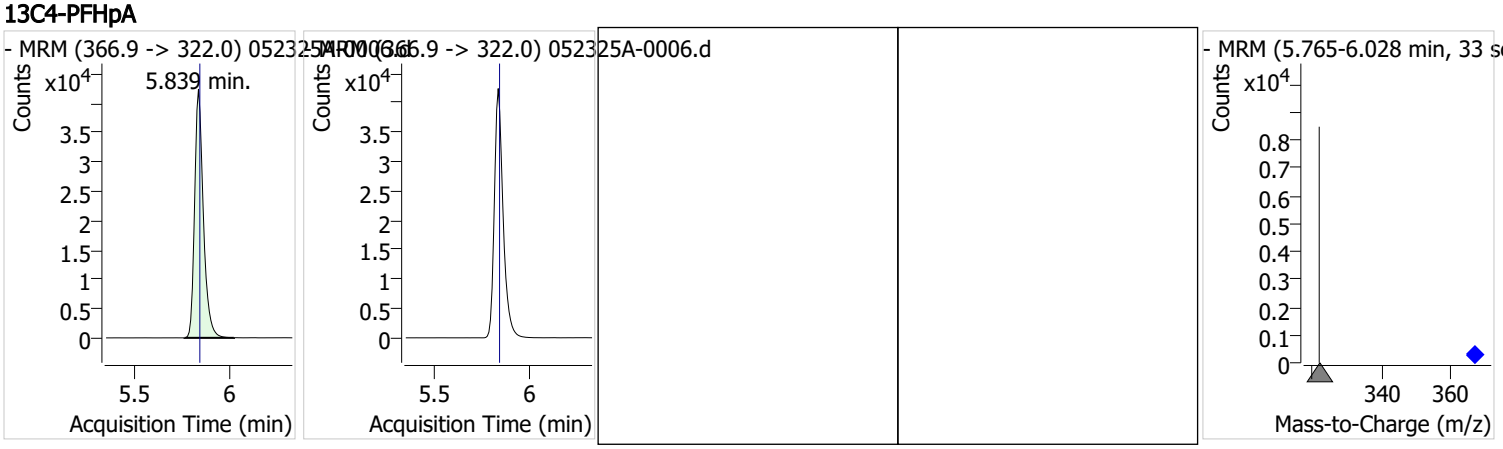
13C3-PFHxS



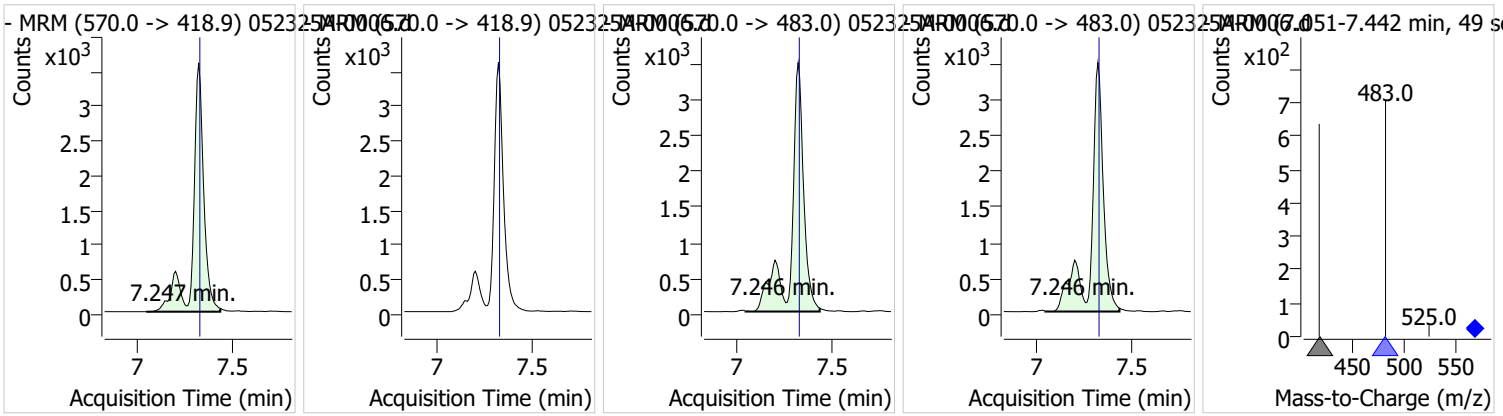
NEtFOSAA



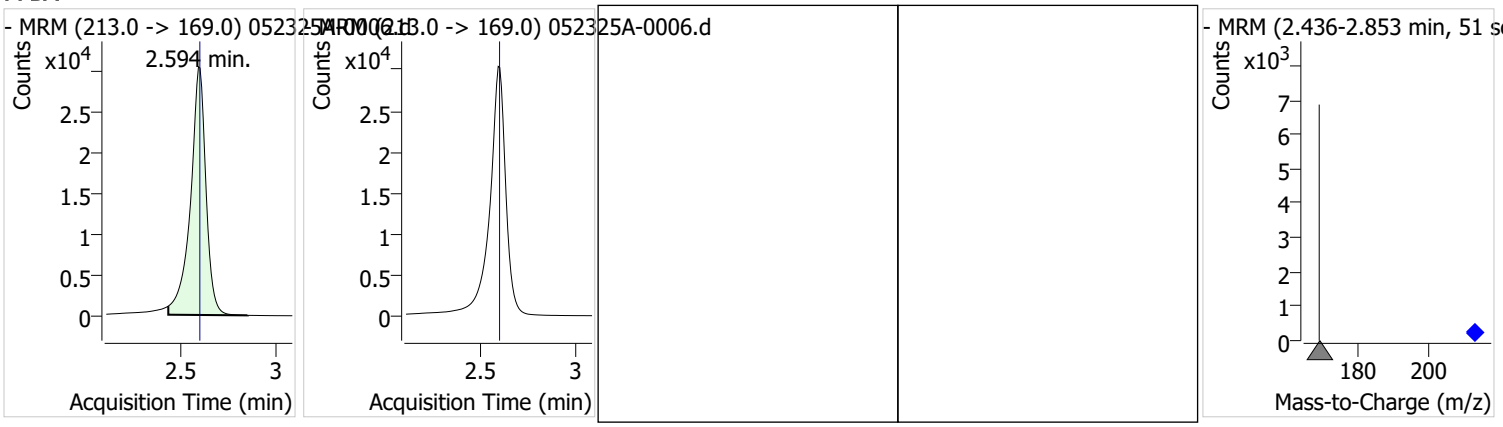
13C4-PFHpA



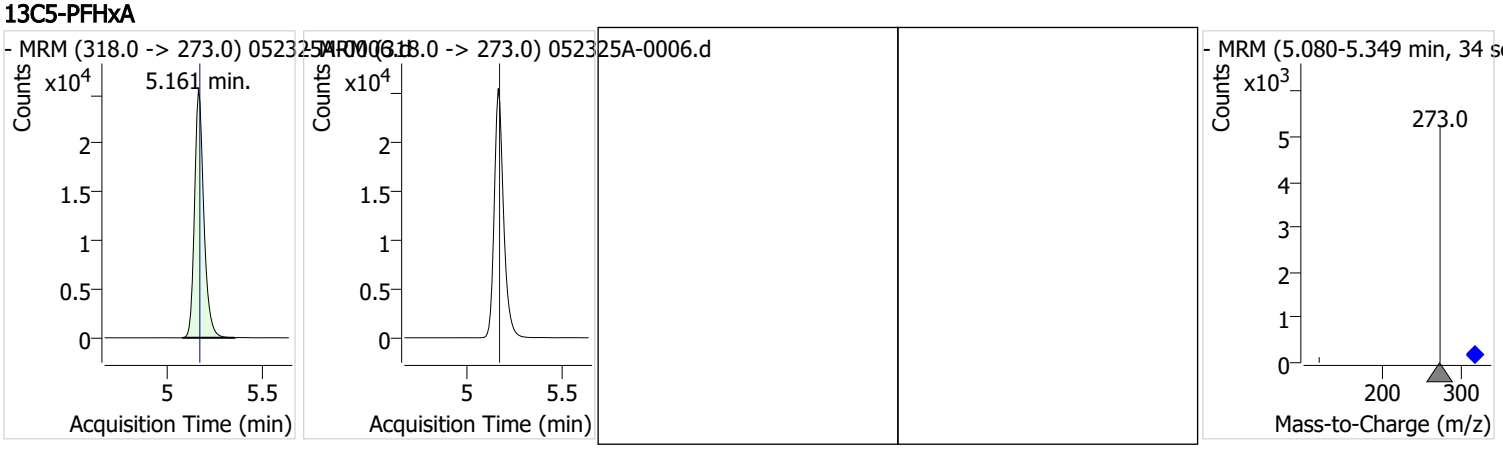
NMeFOSAA



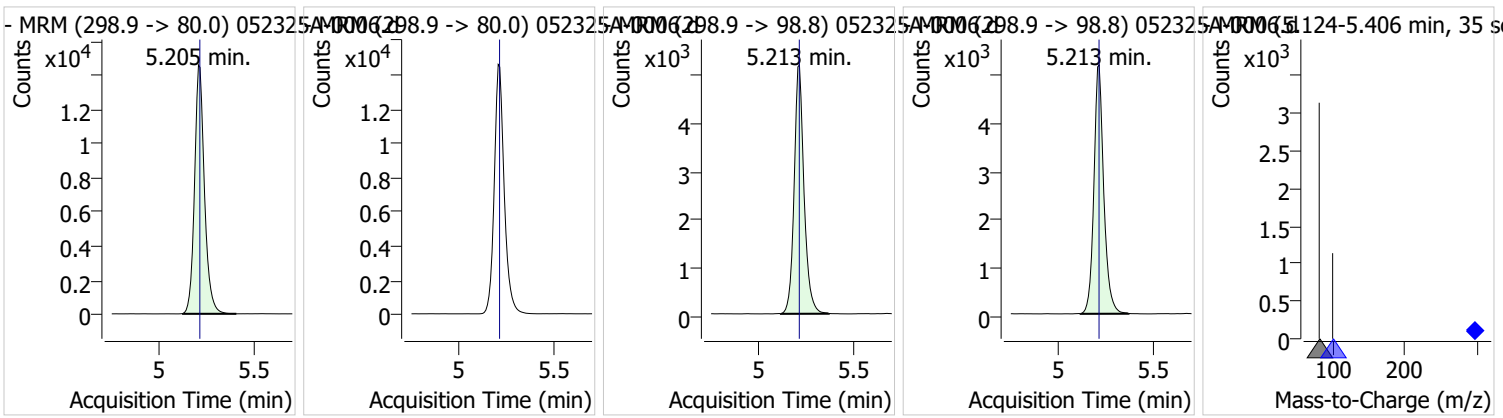
PFBA



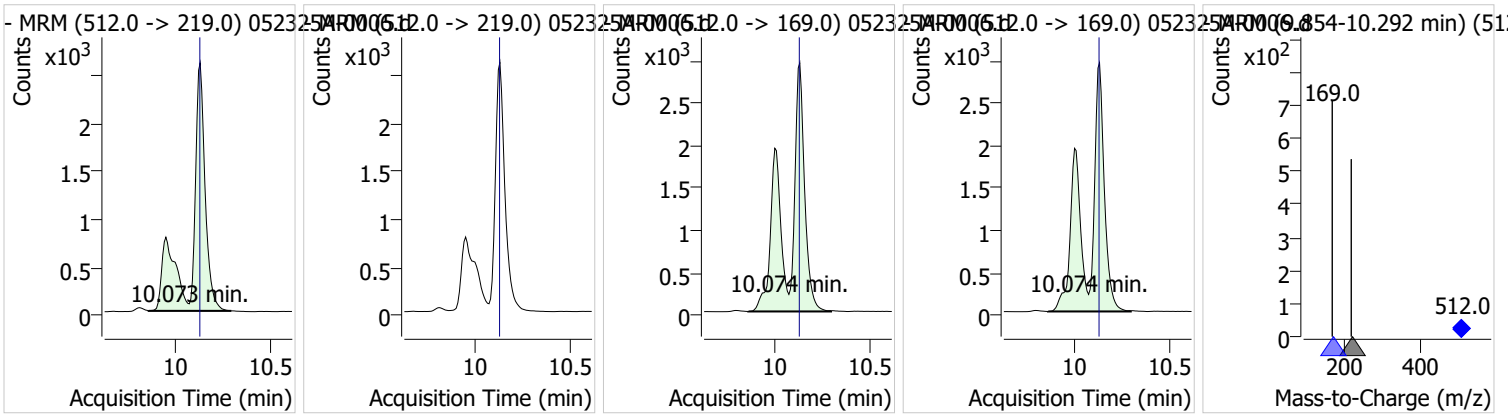
13C5-PFHxA



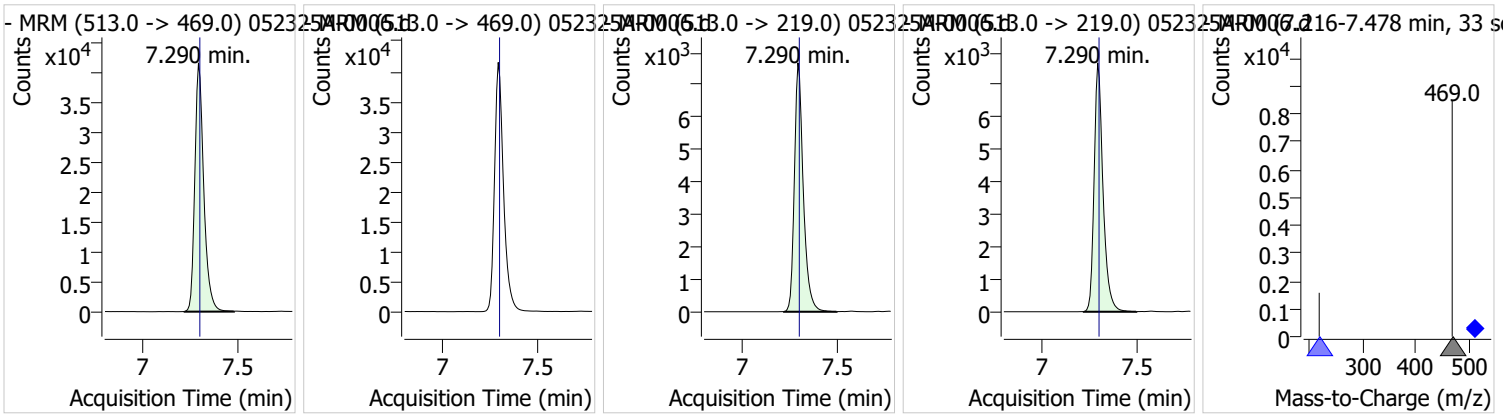
PFBS



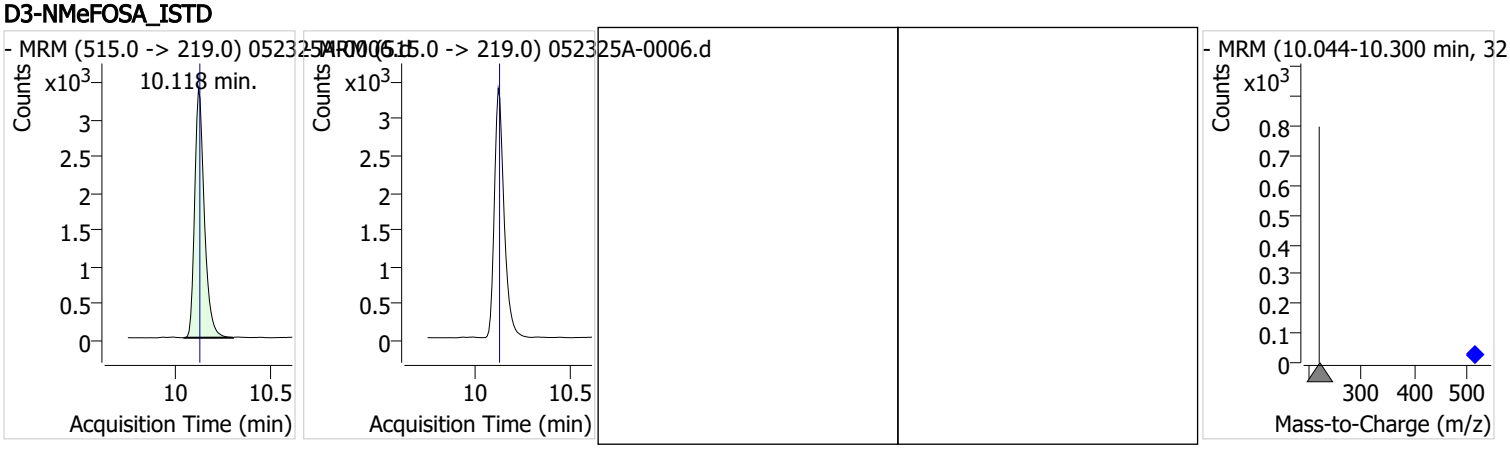
NMeFOSA



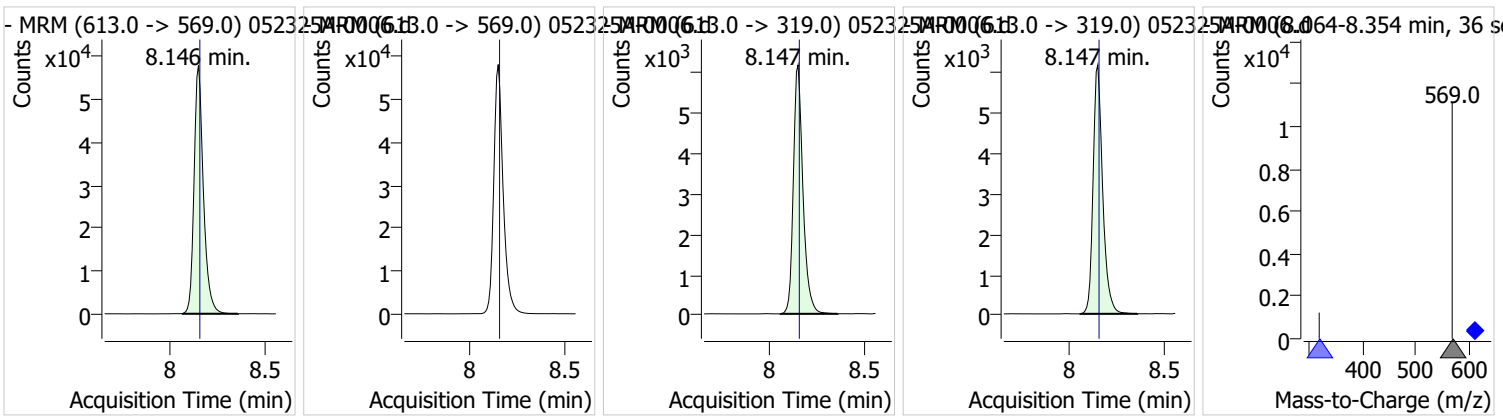
PFDA



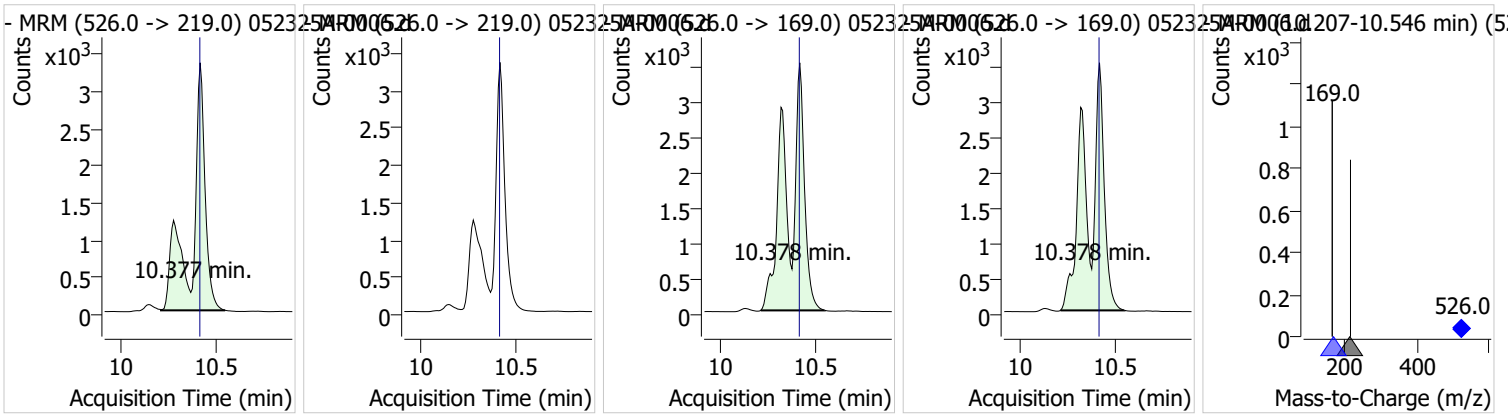
D3-NMeFOSA_ISTD



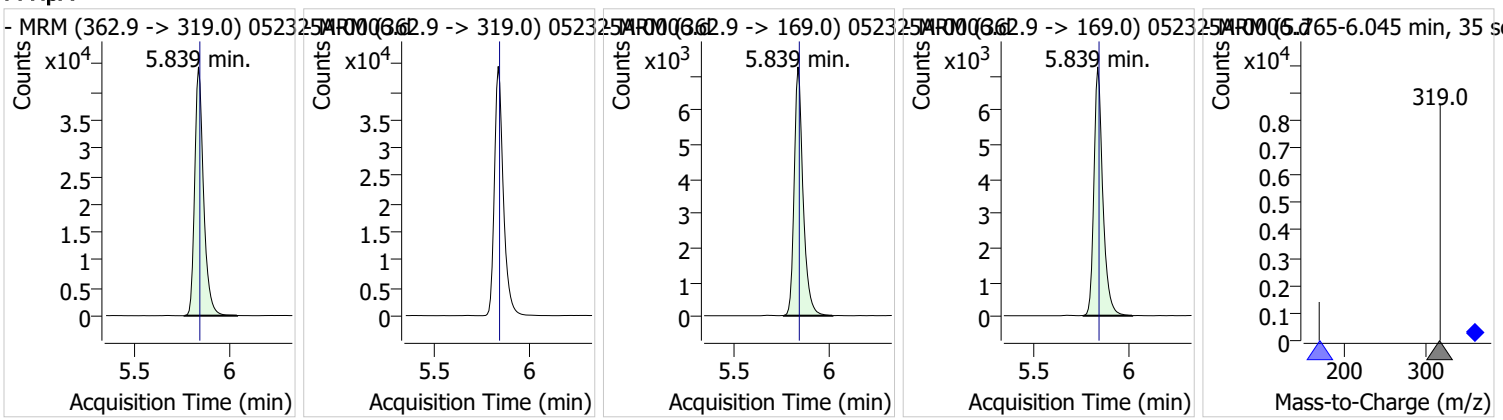
PFDoA



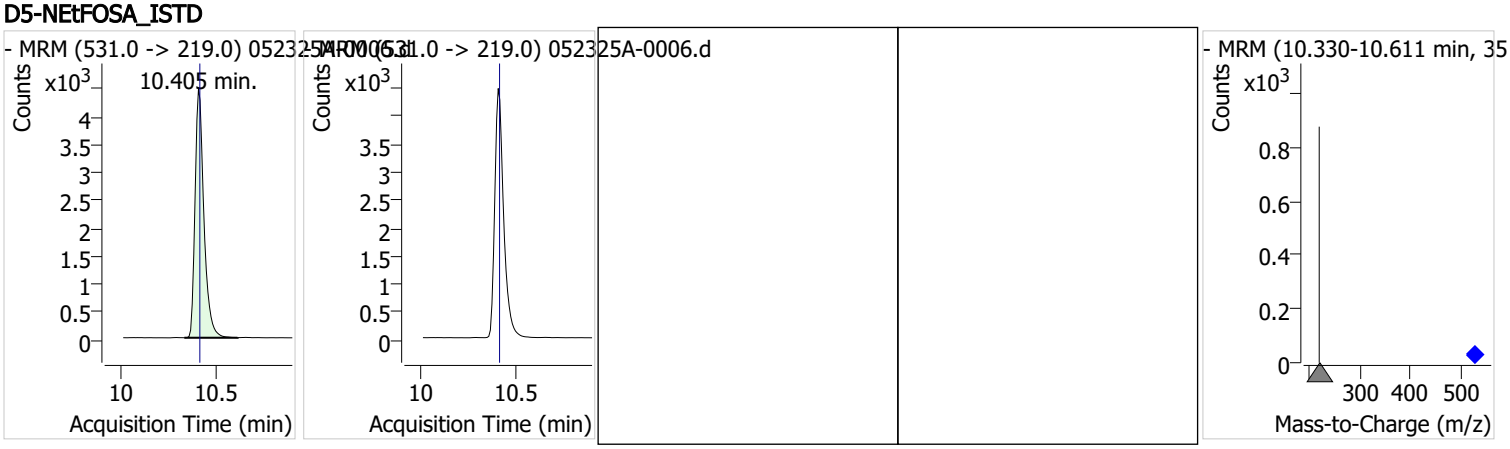
NEtFOSA



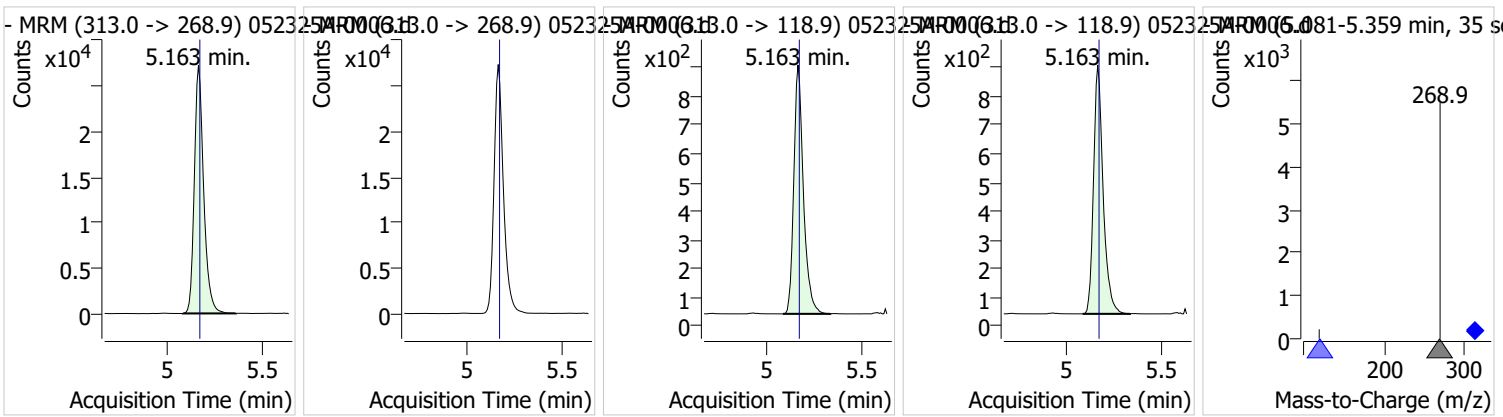
PFHpA



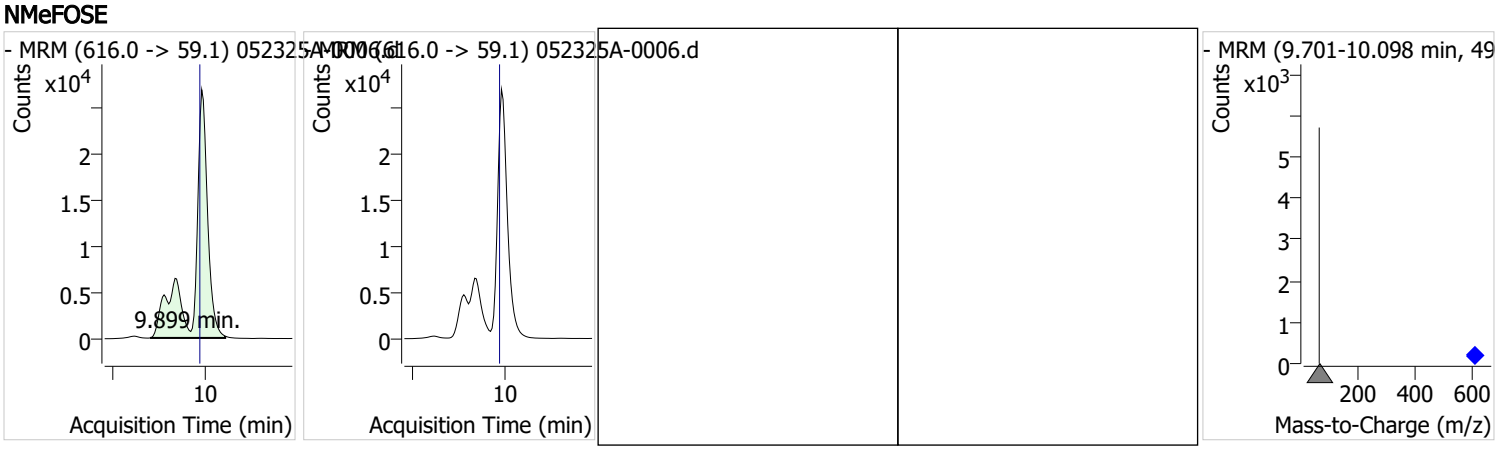
D5-NEtFOSA_ISTD



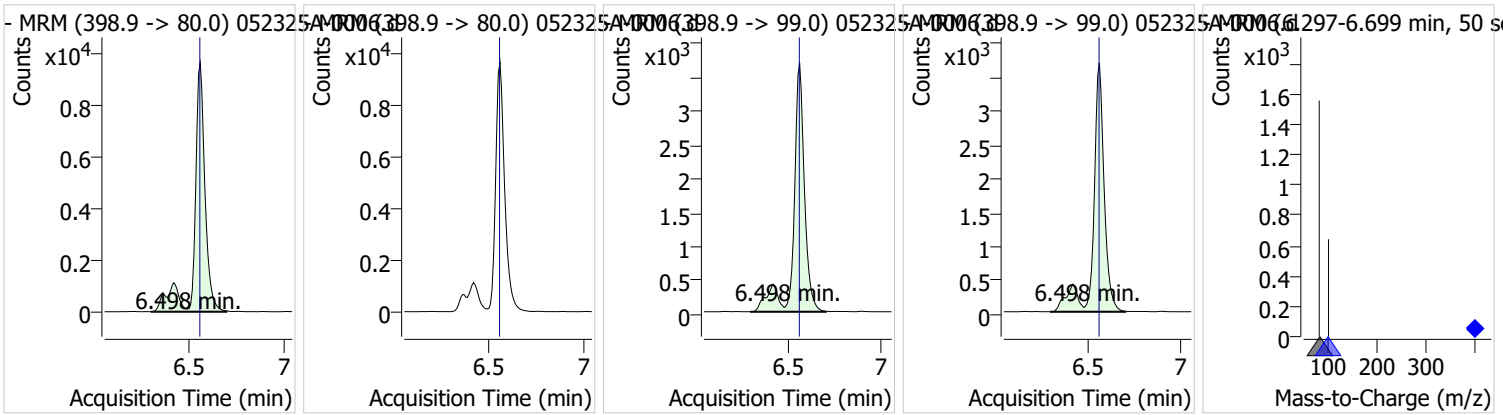
PFHxA



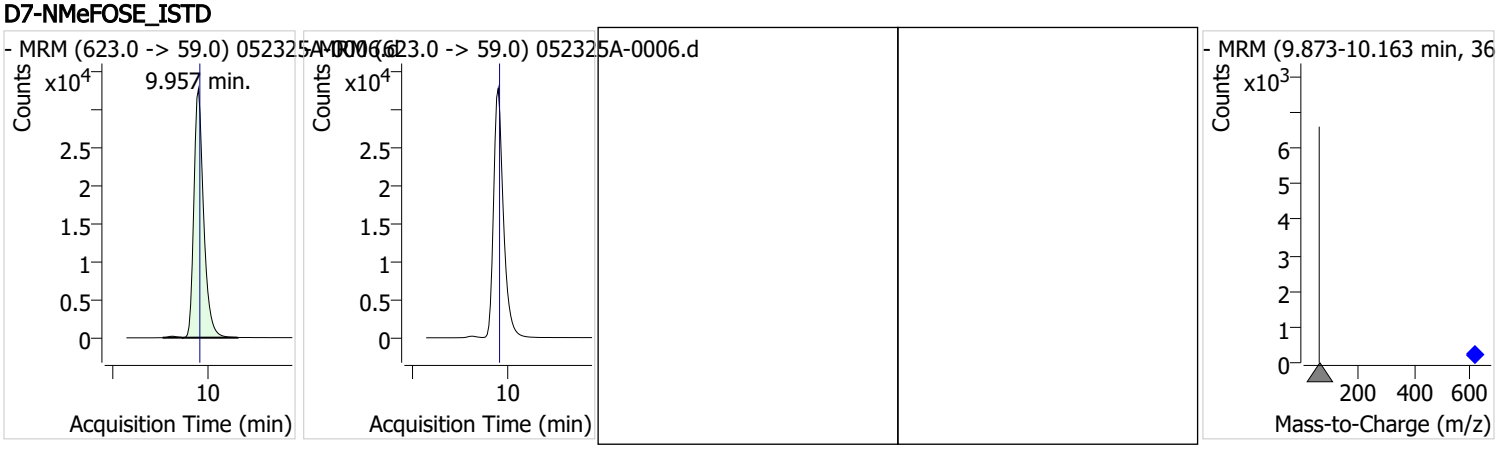
NMeFOSE



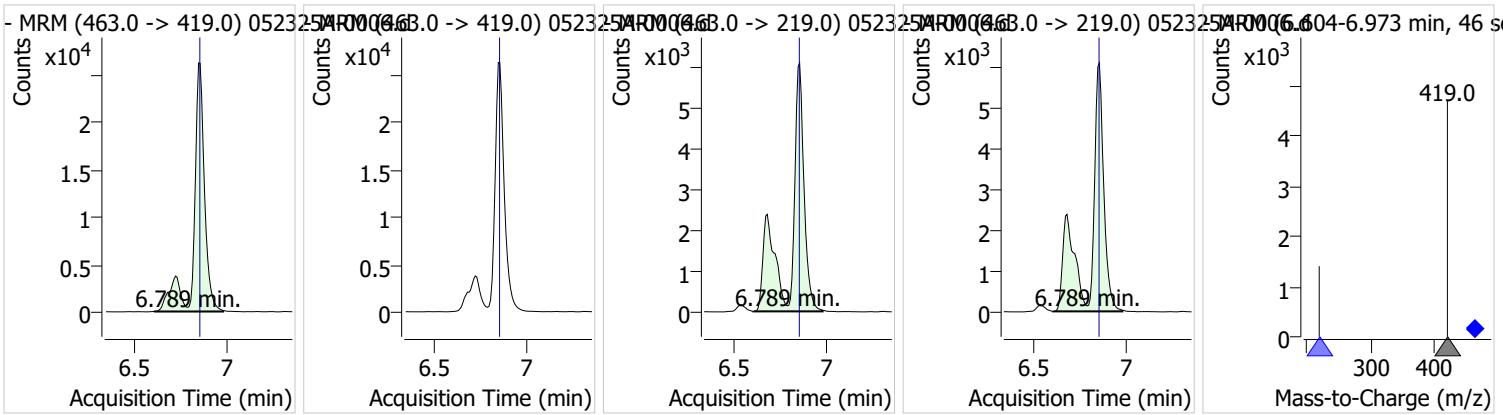
PFHxS



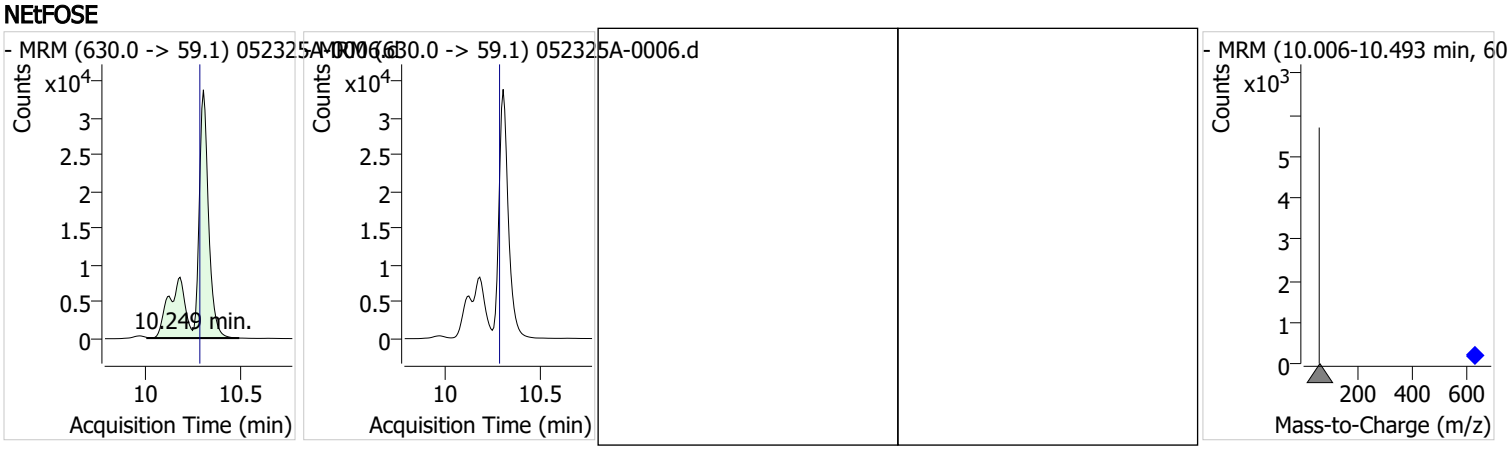
D7-NMeFOSE_ISTD



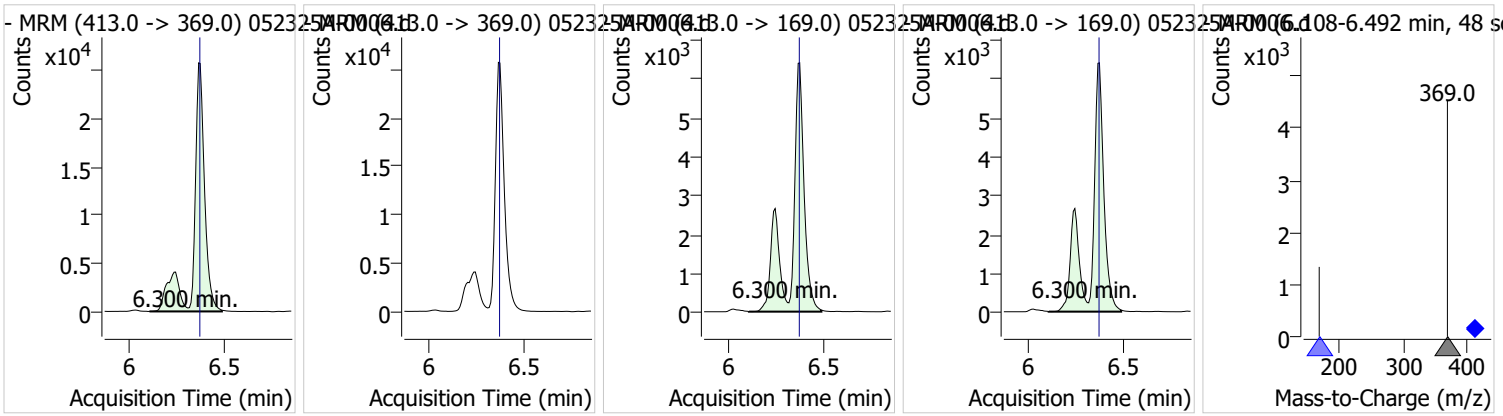
PFNA



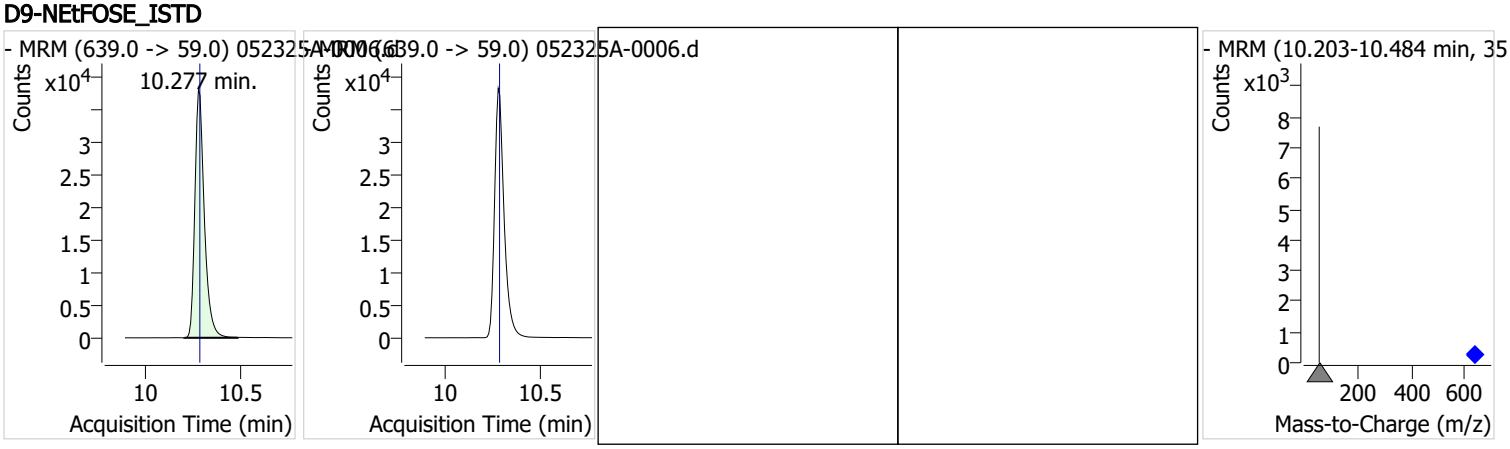
NEtFOSE



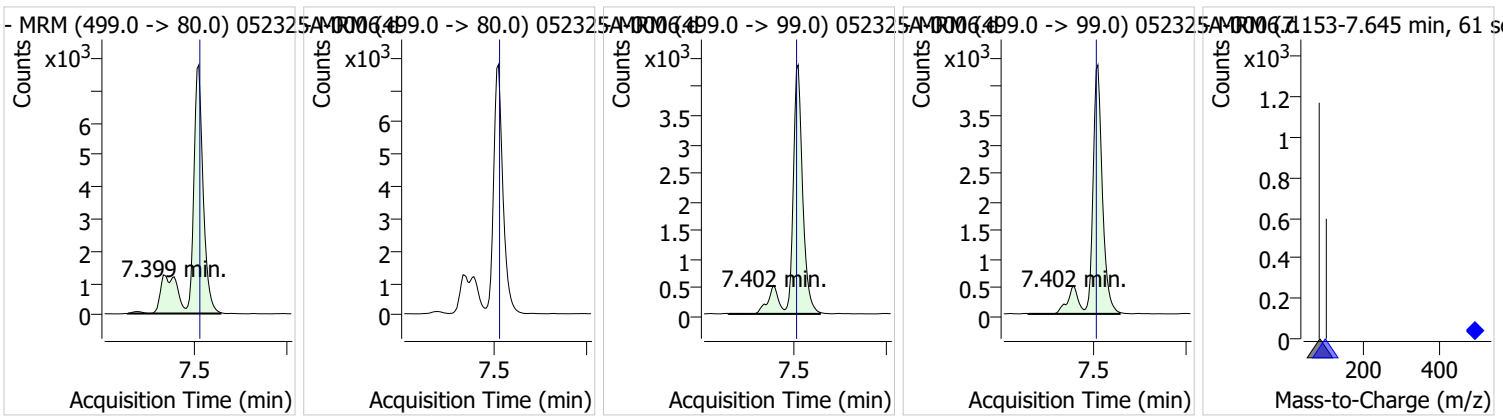
PFOA



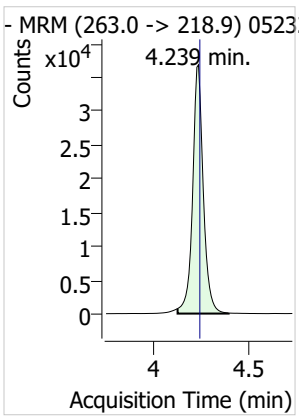
D9-NEtFOSE_ISTD

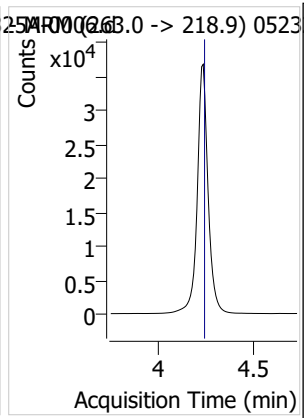


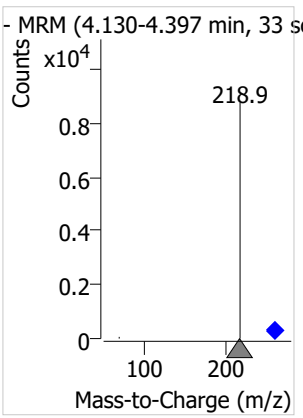
PFOS



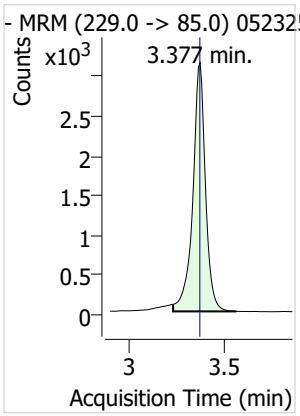
PFPeA

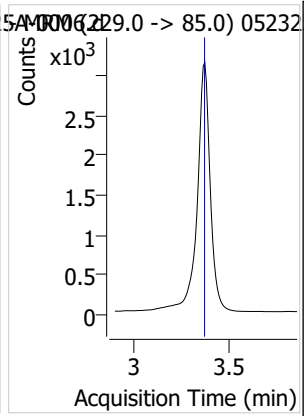


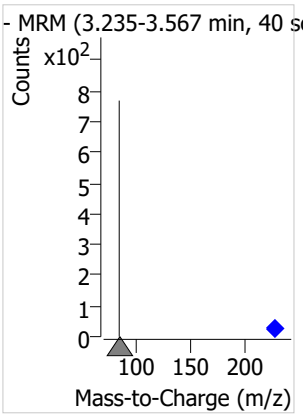




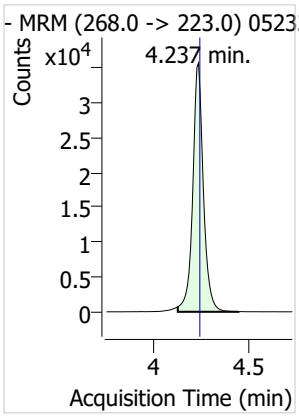
PFMPA

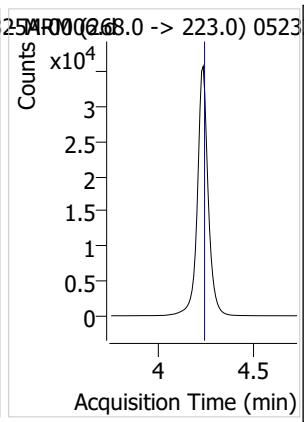


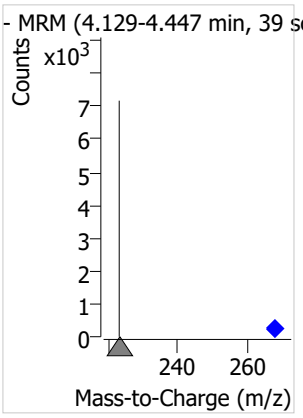




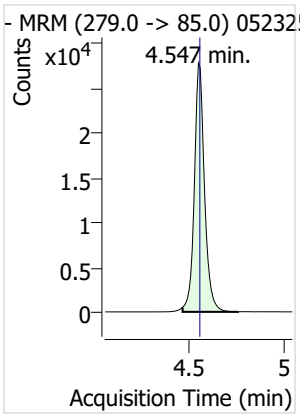
13C5-PFPeA

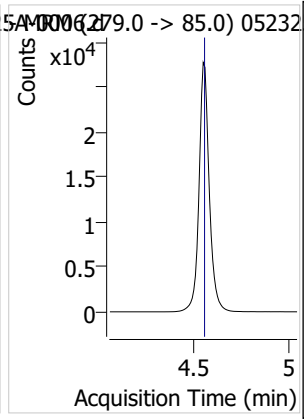


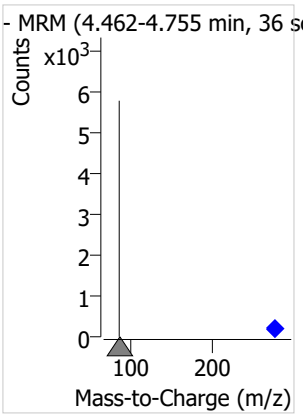




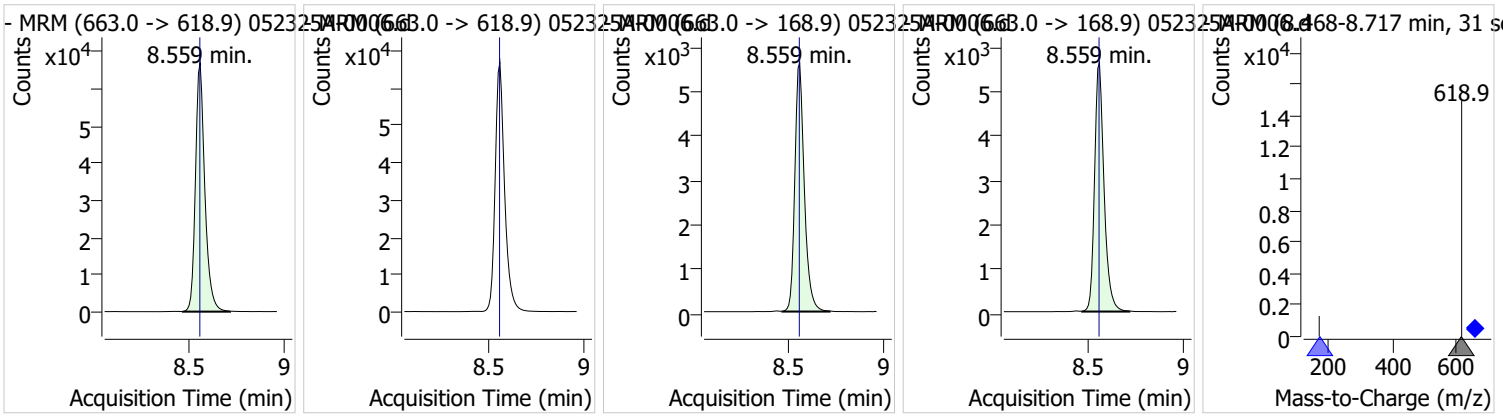
PFMBA



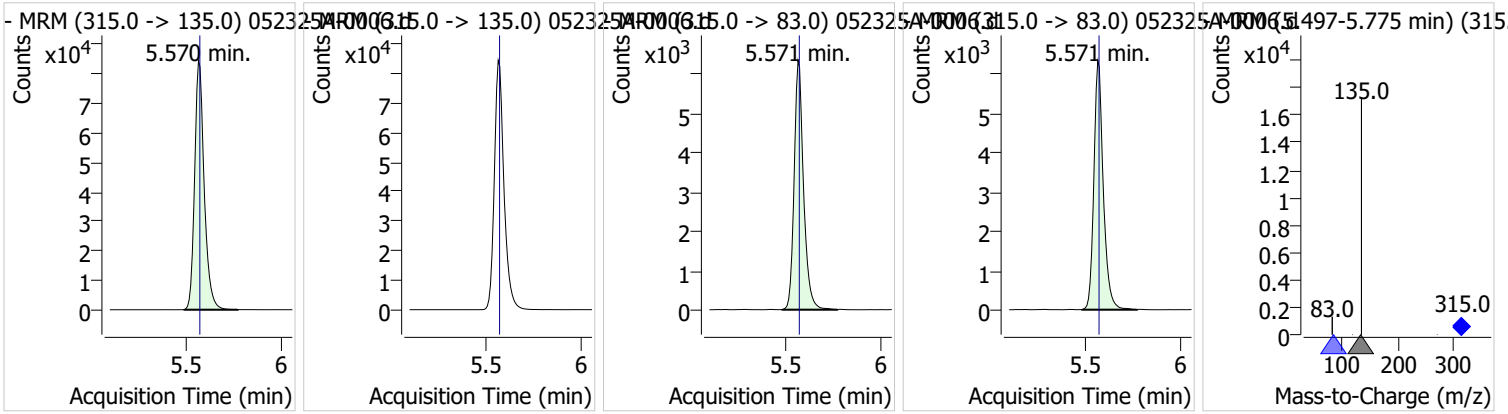




PFTrDA



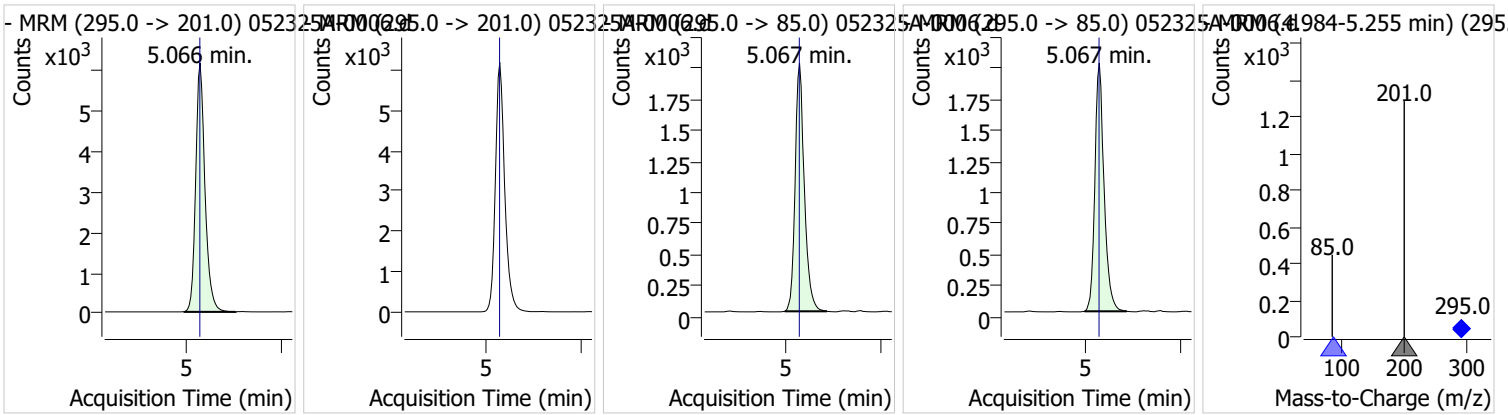
PFEESA



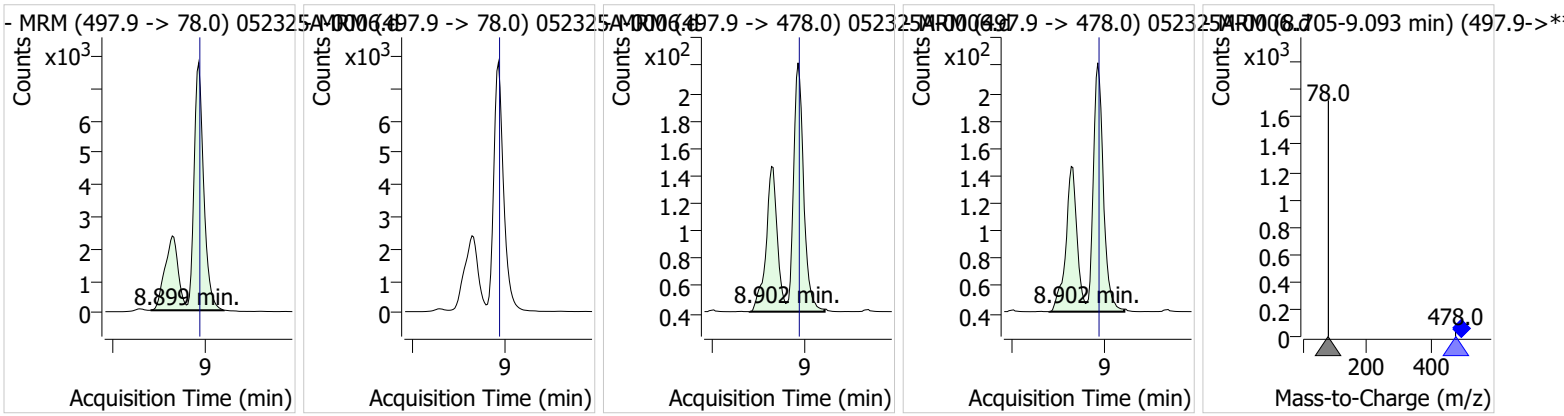
13C6-PFDA



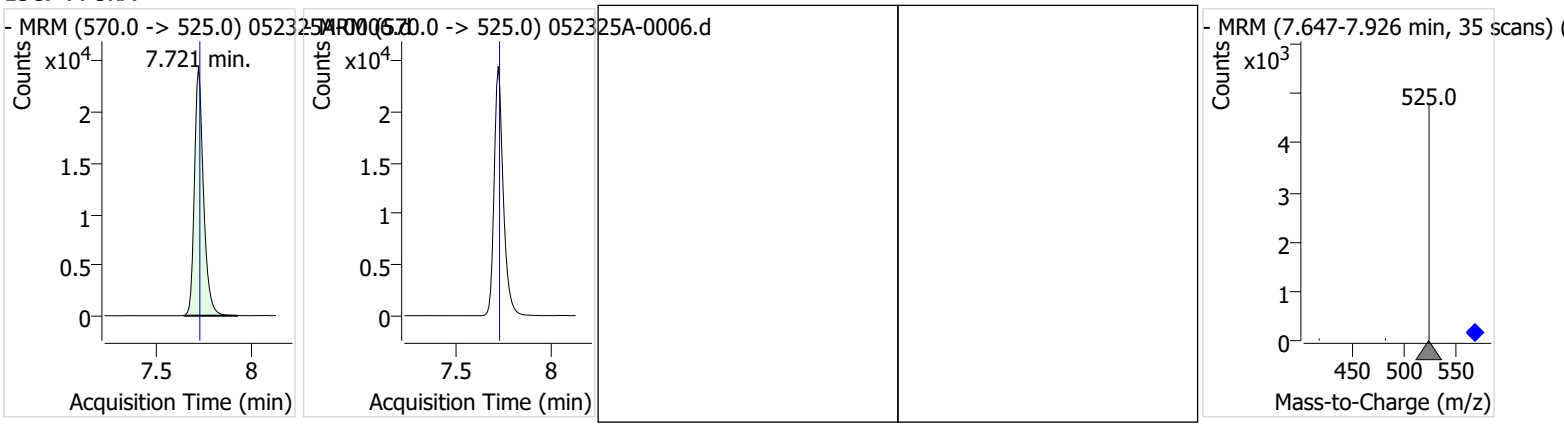
NFDHA



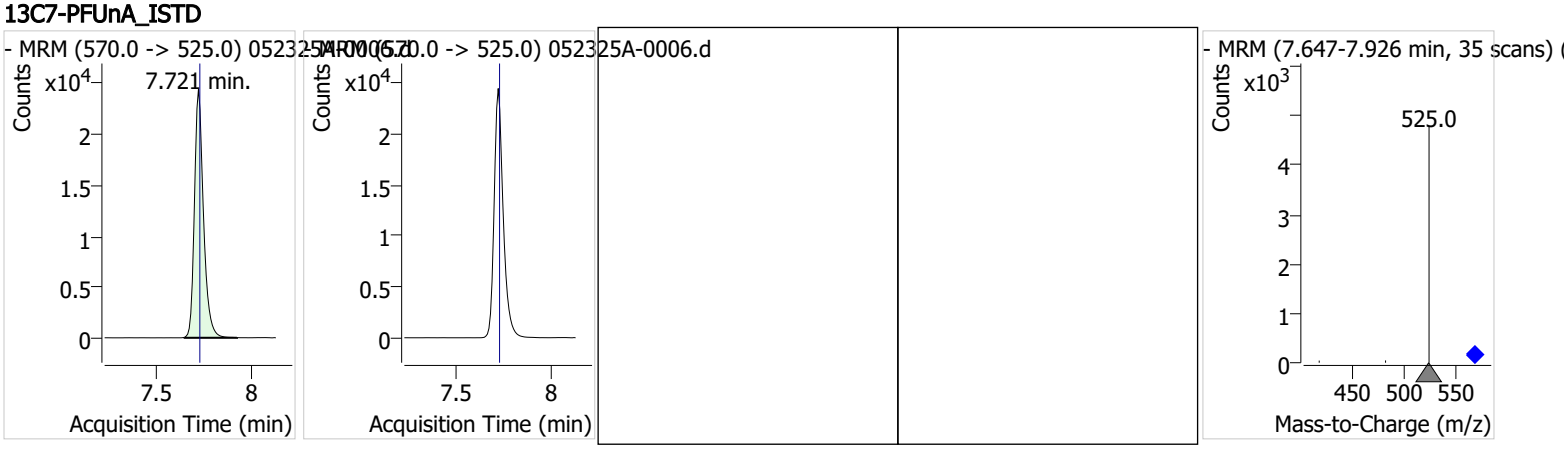
PFOSA



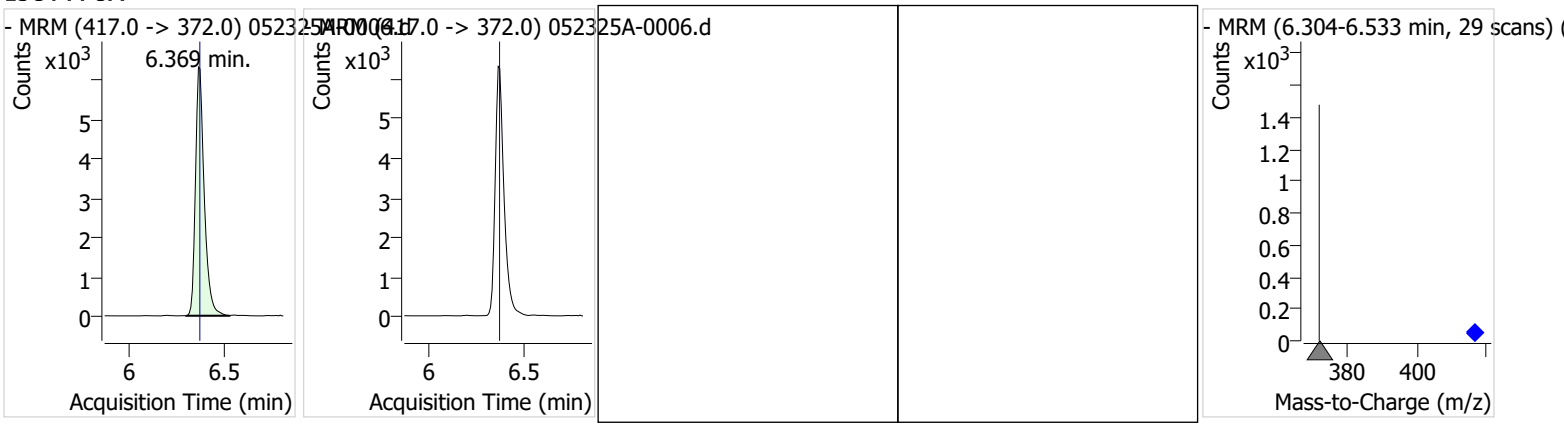
13C7-PFUnA



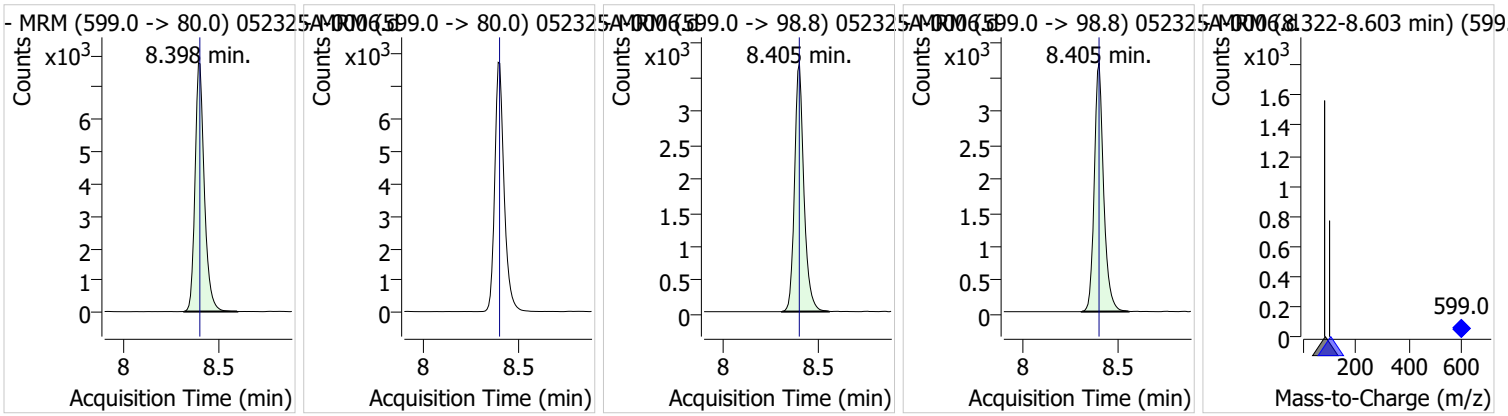
13C7-PFUnA_ISTD



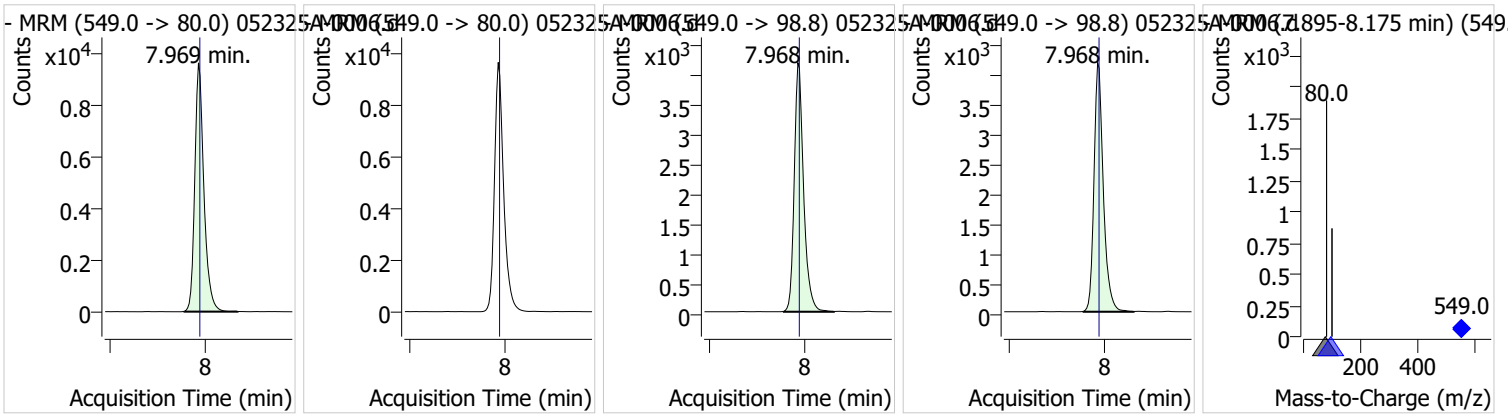
13C4-PFOA



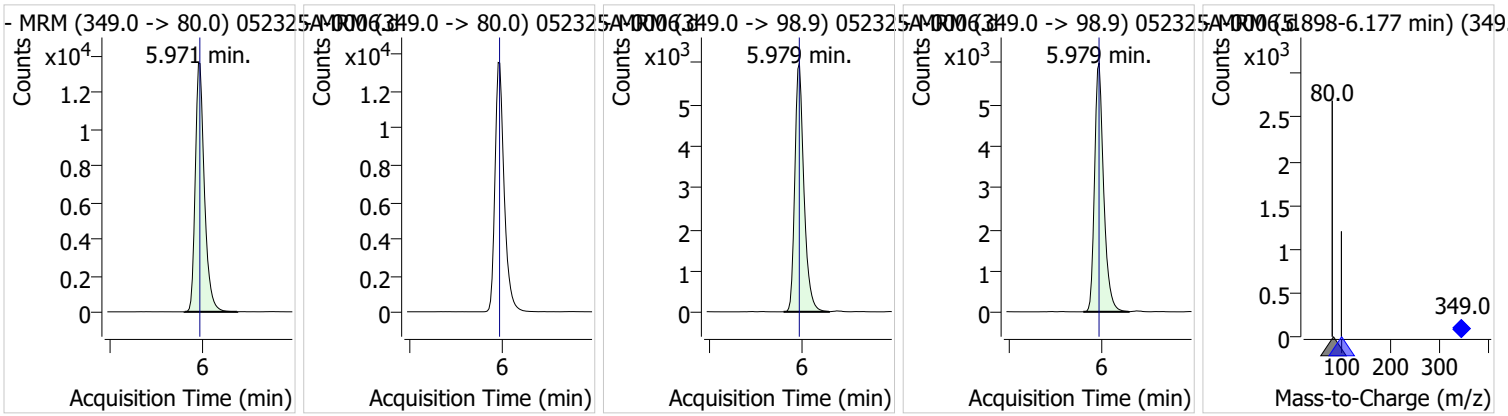
PFDS



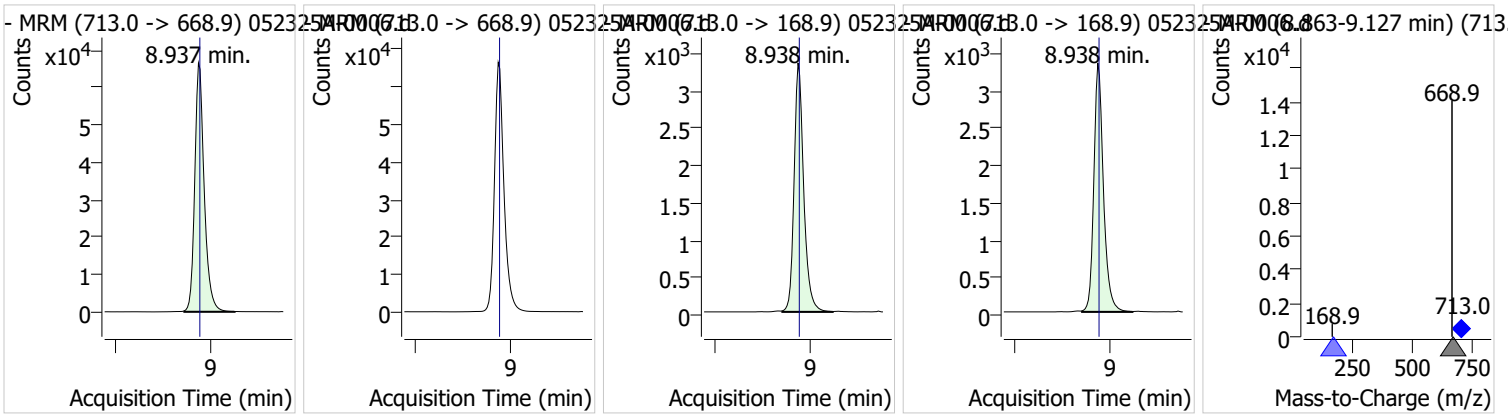
PFNS



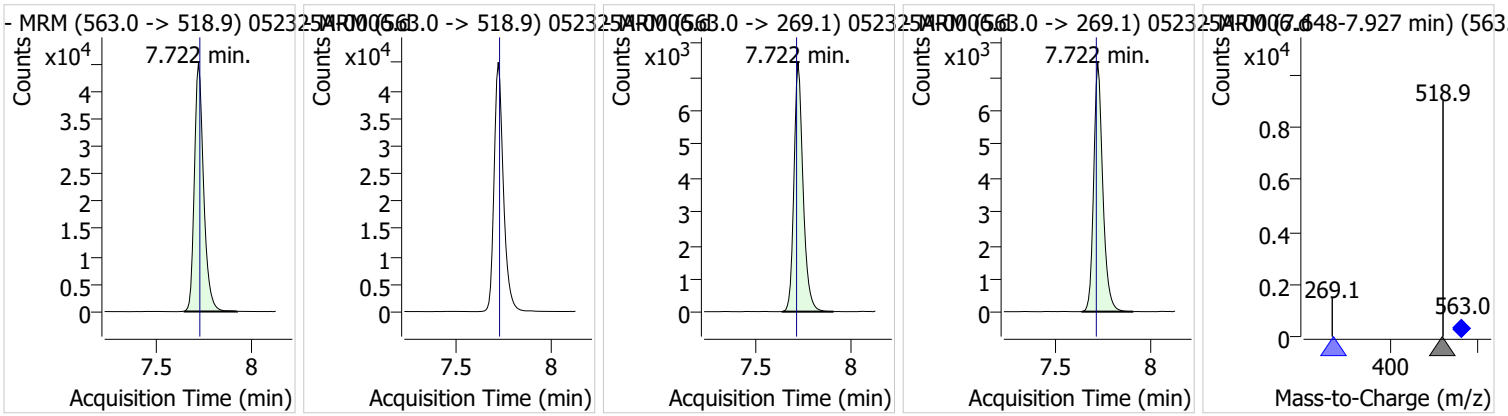
PFPeS



PFTeDA



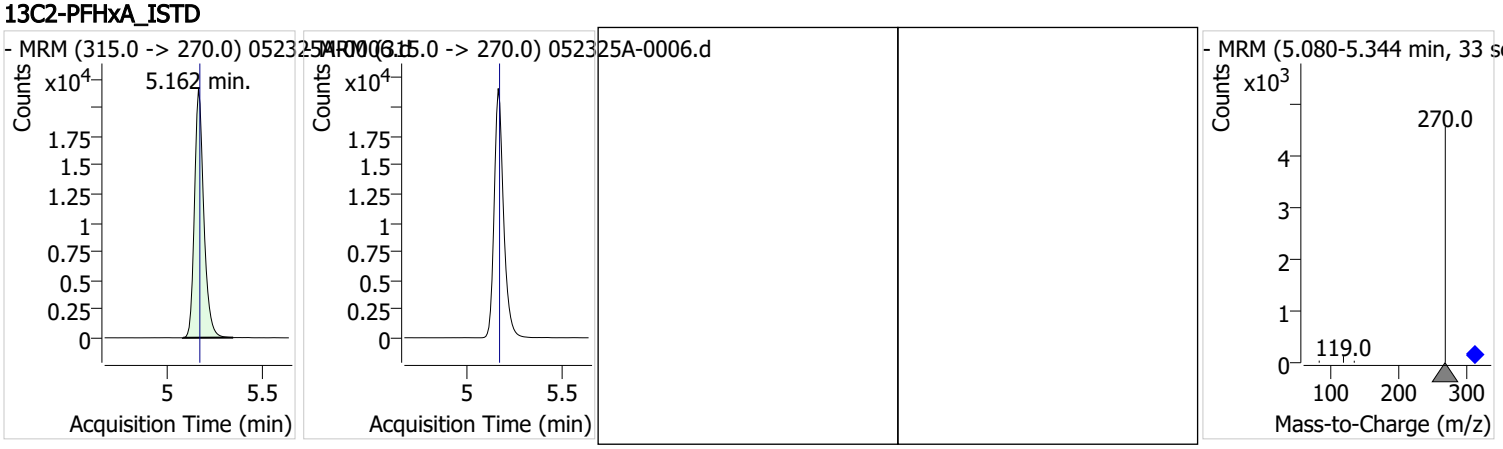
PFUnA



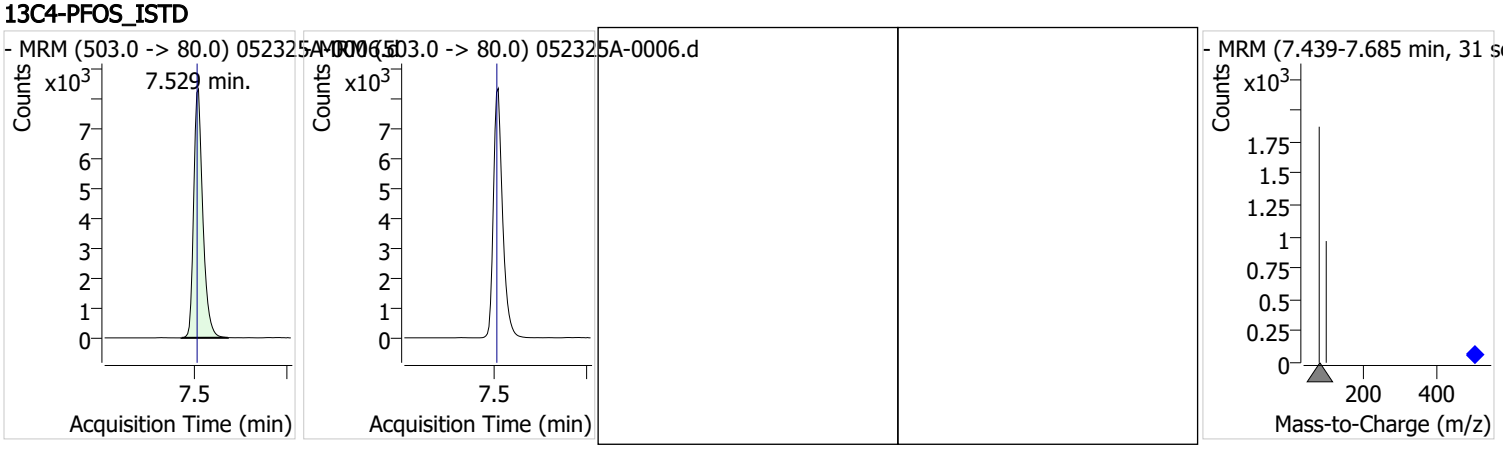
13C2-PFDA_ISTD



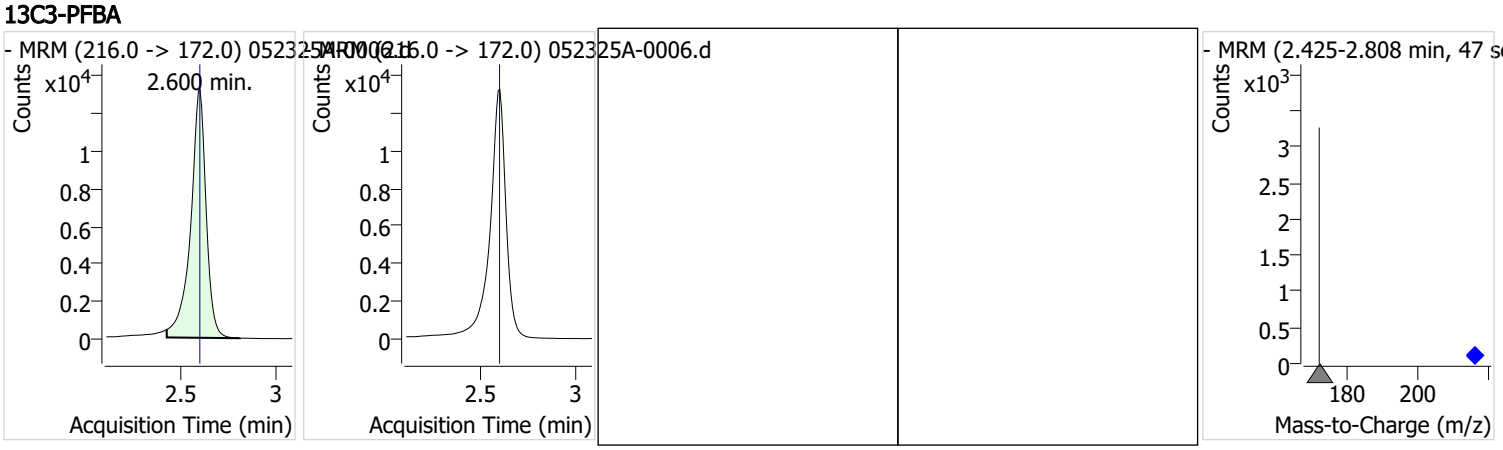
13C2-PFHxA_ISTD



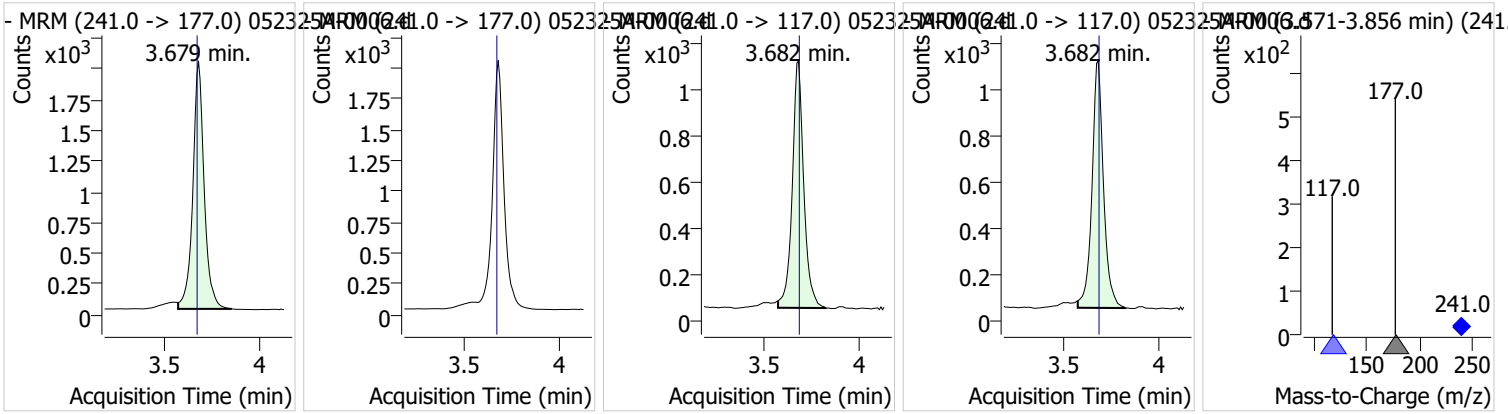
13C4-PFOS_ISTD



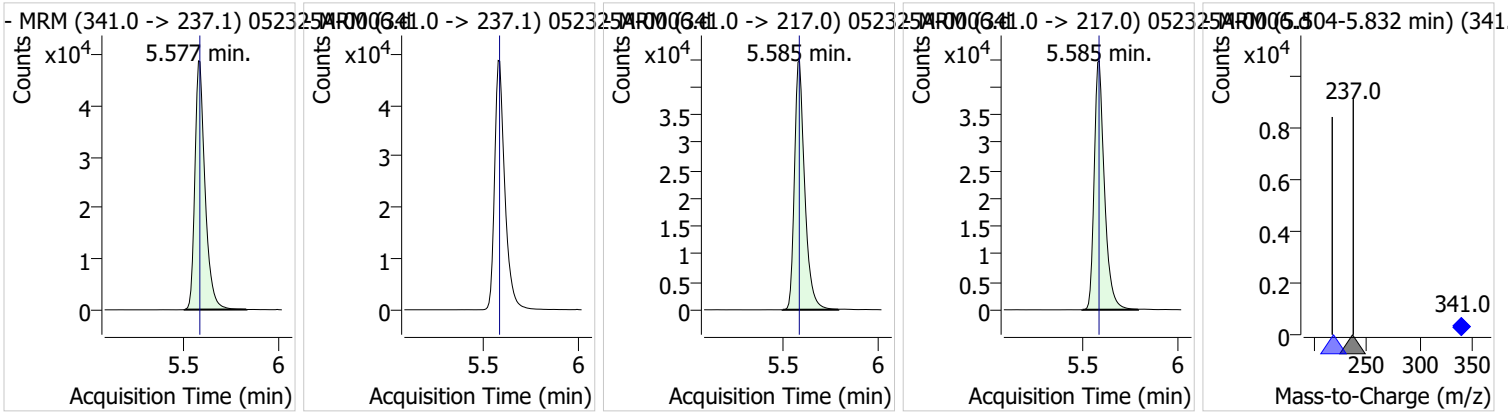
13C3-PFBA



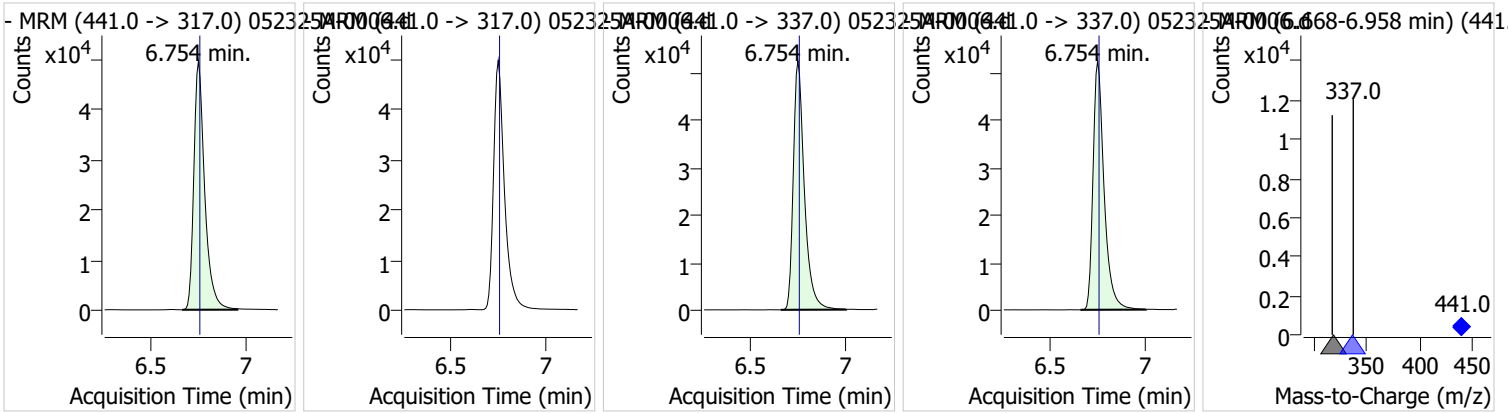
3:3FTCA



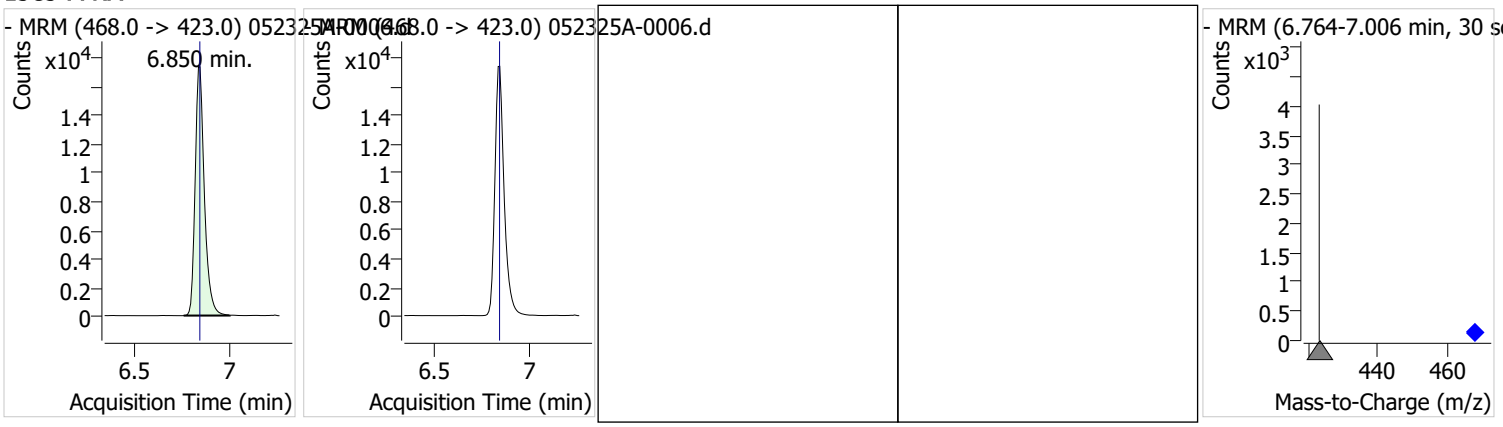
5:3FTCA



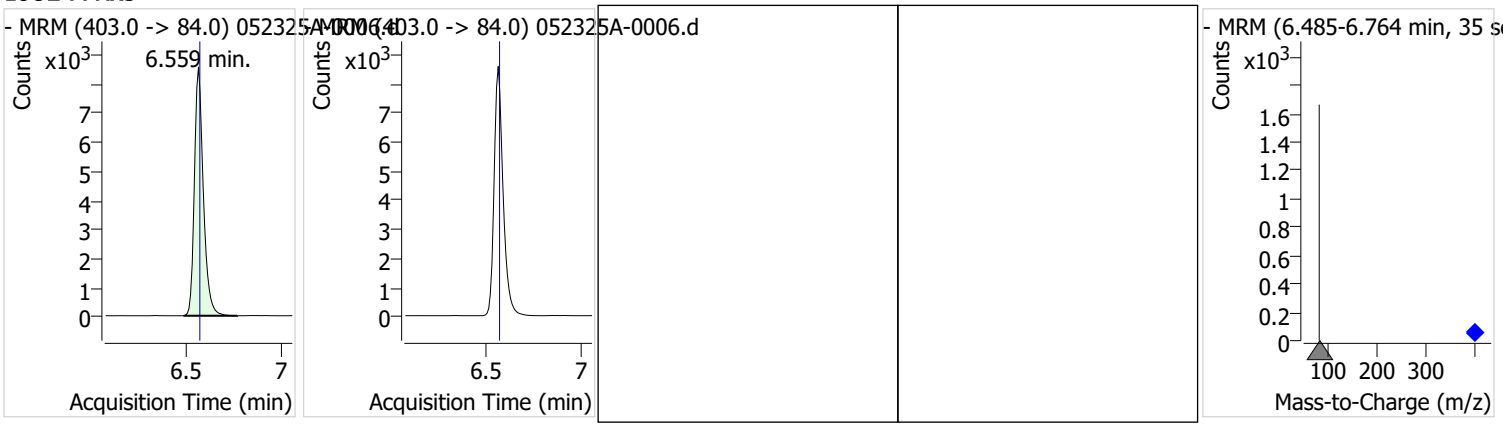
7:3FTCA



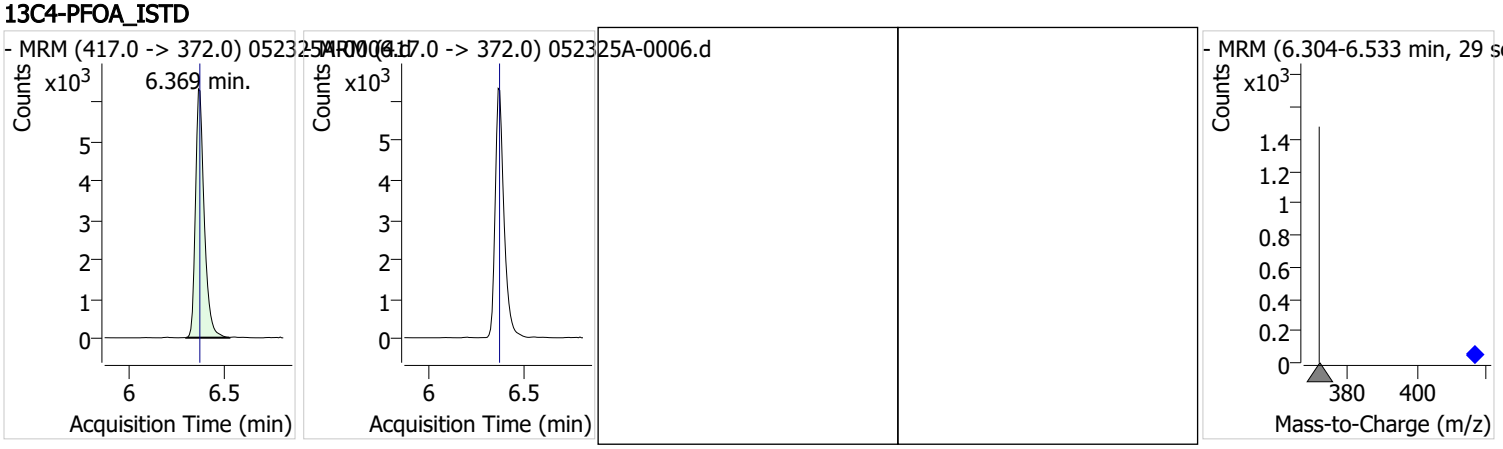
13C5-PFNA



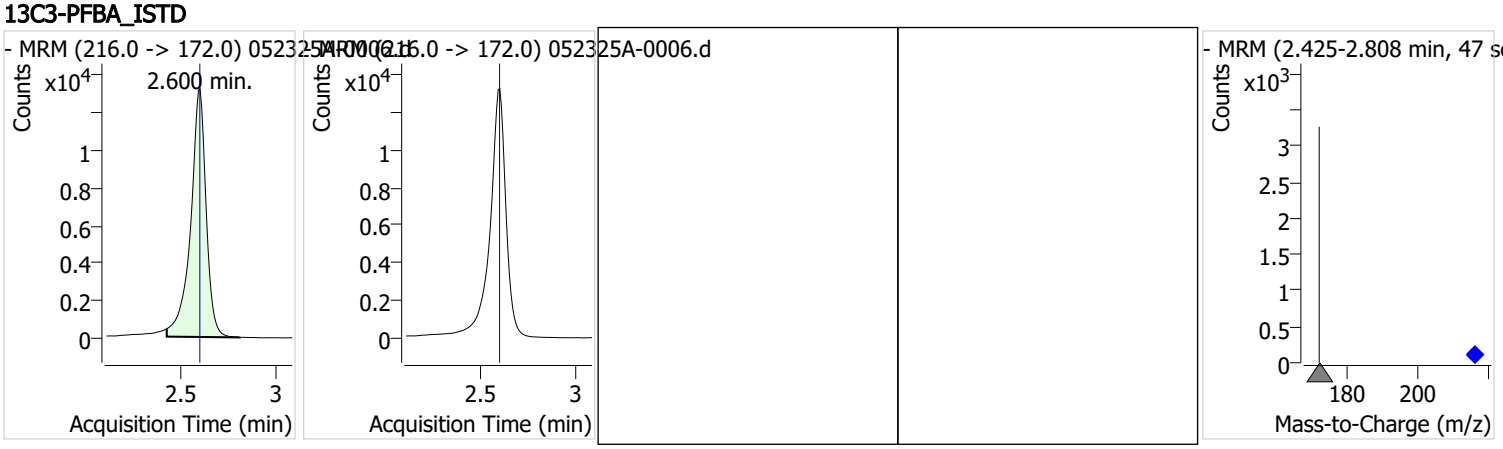
18O2-PFHxS



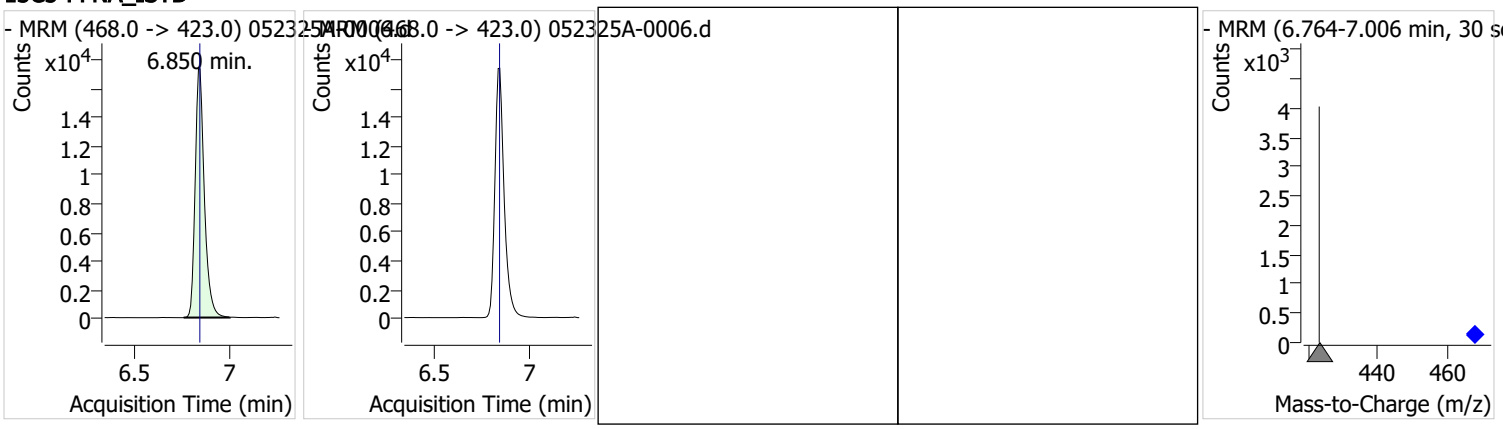
13C4-PFOA_ISTD



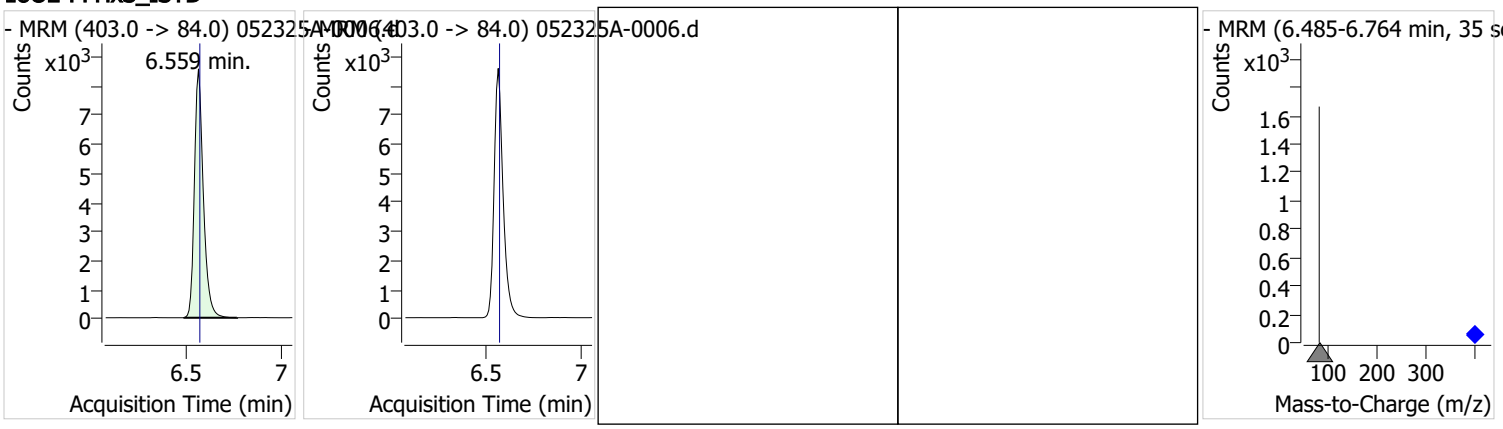
13C3-PFBA_ISTD



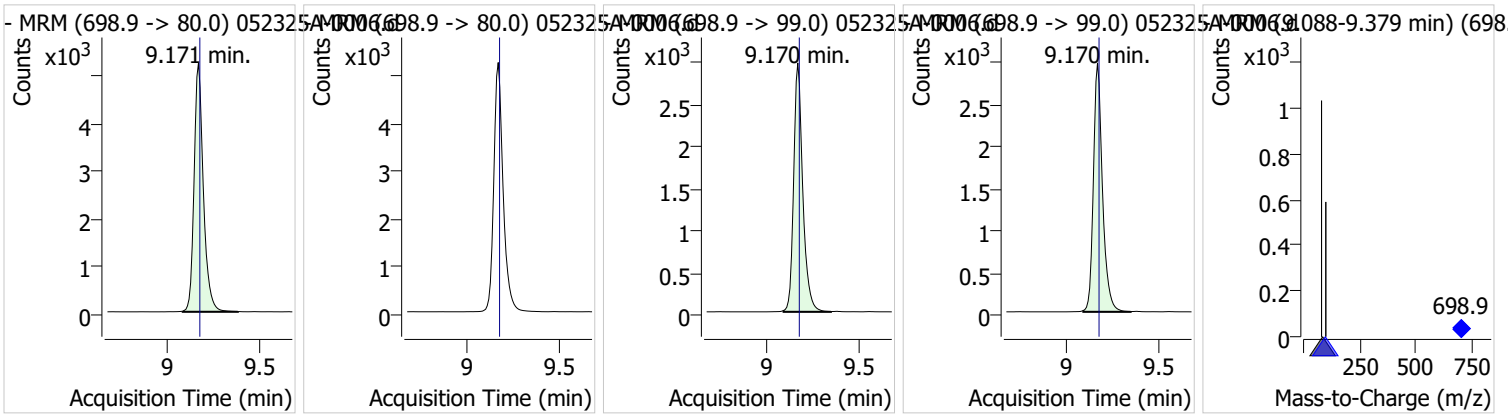
13C5-PFNA_ISTD



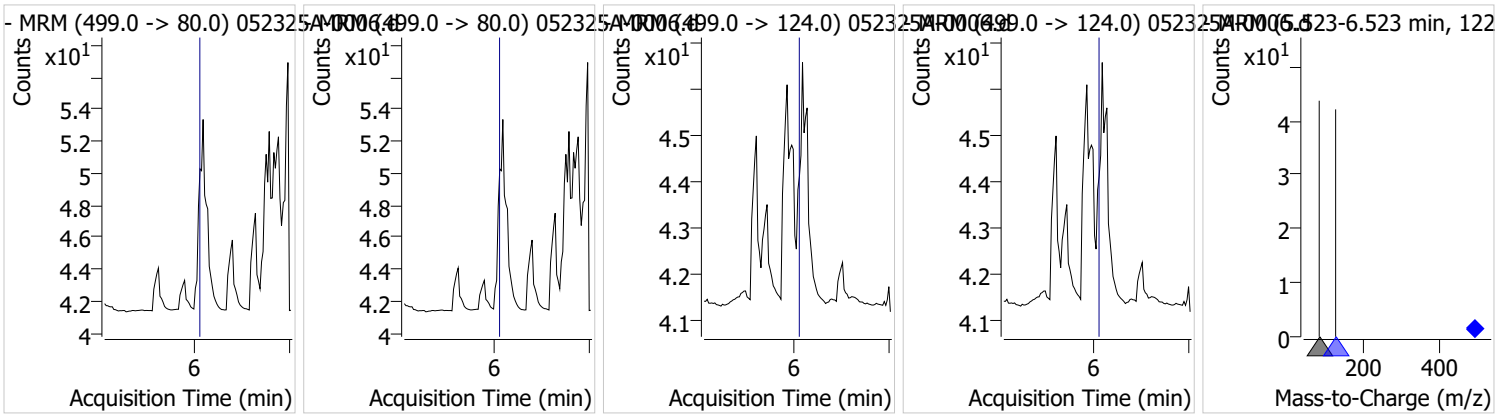
18O2-PFHxS_ISTD



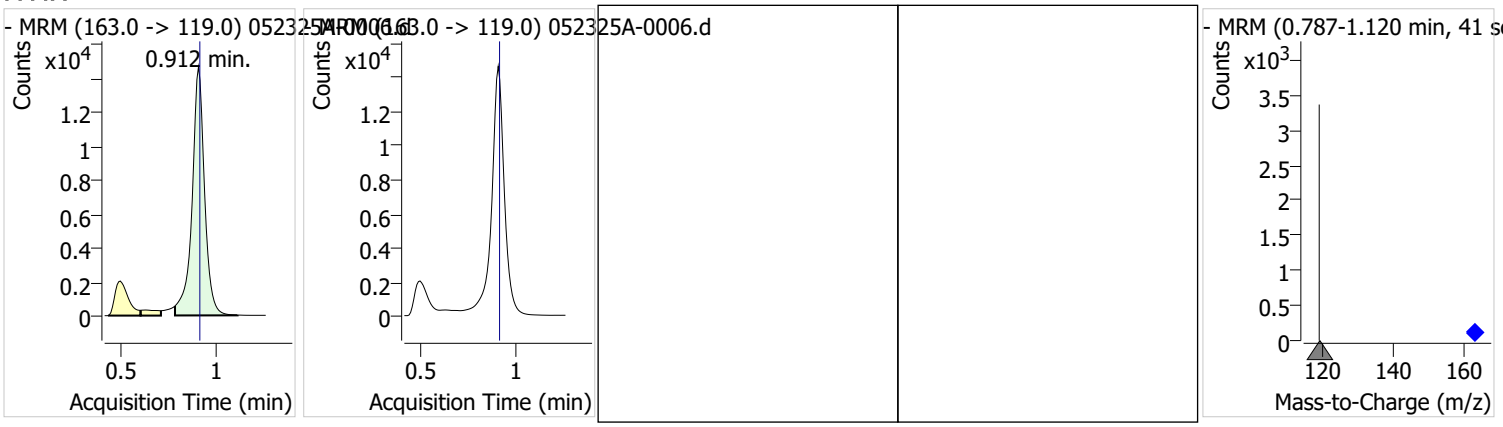
PFDoS



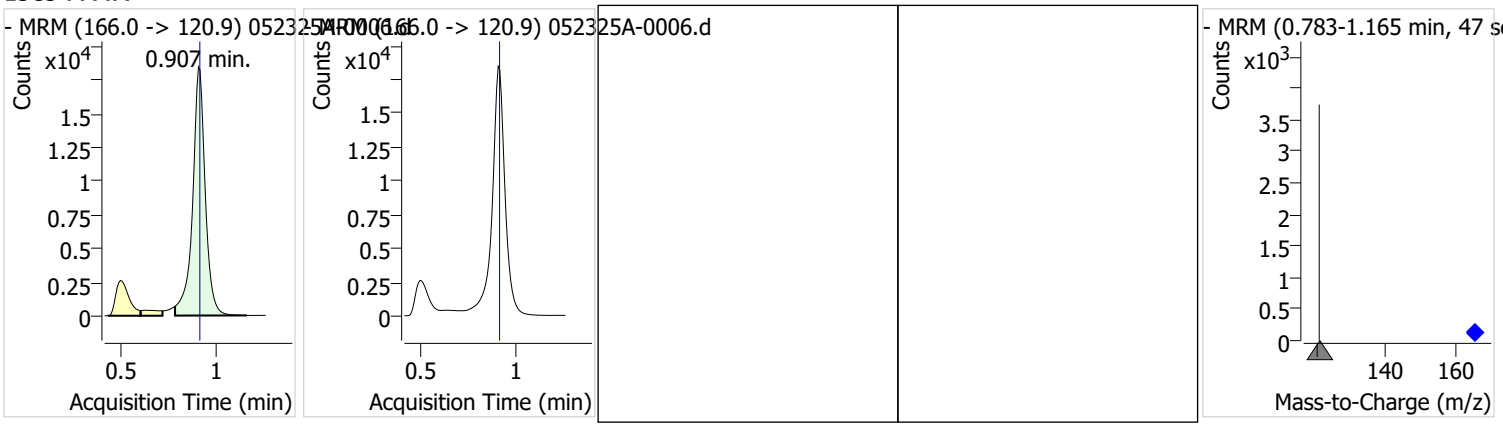
TDCA



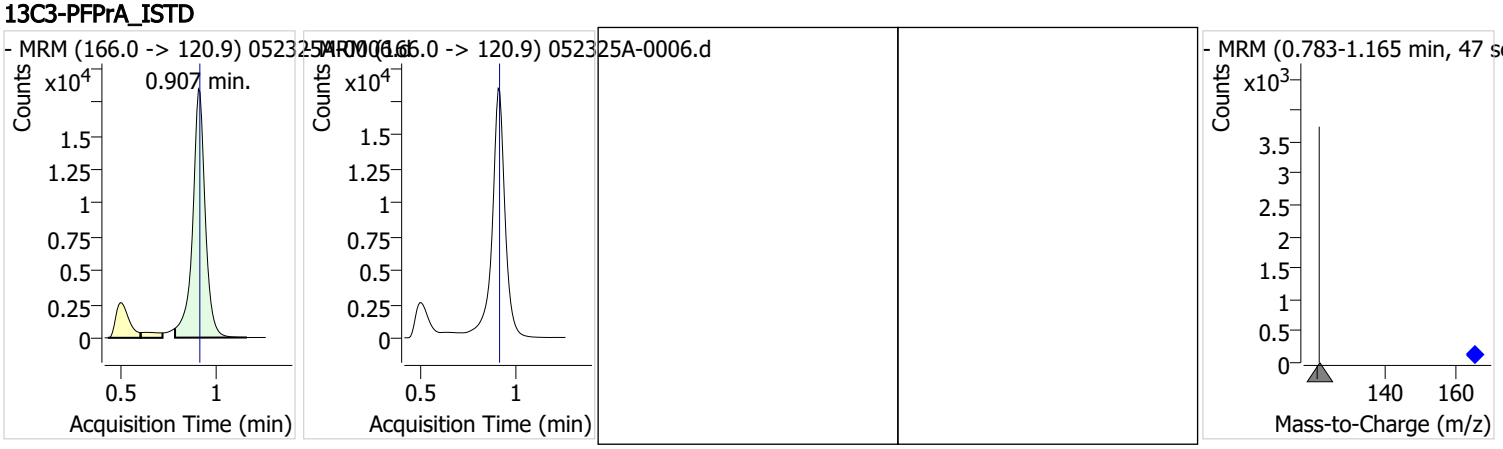
PFPrA



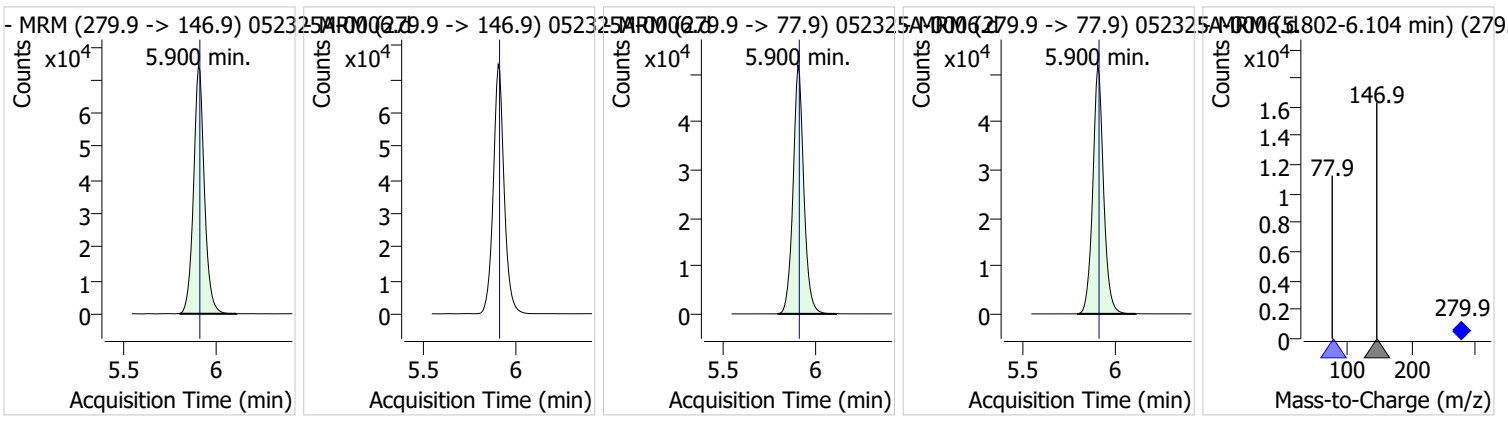
13C3-PFPrA



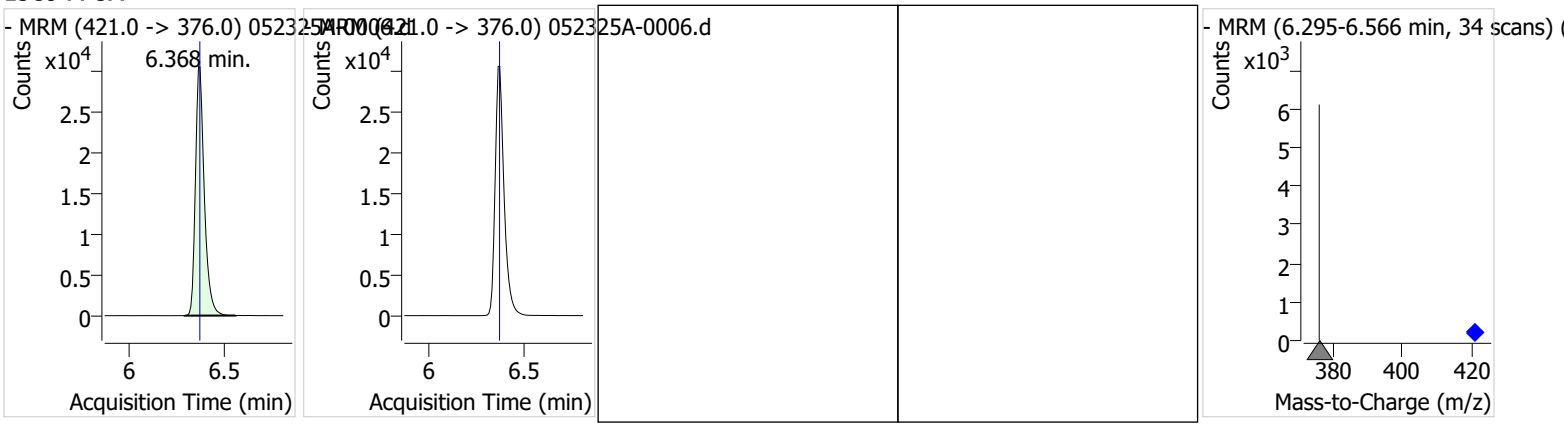
13C3-PFPrA_ISTD



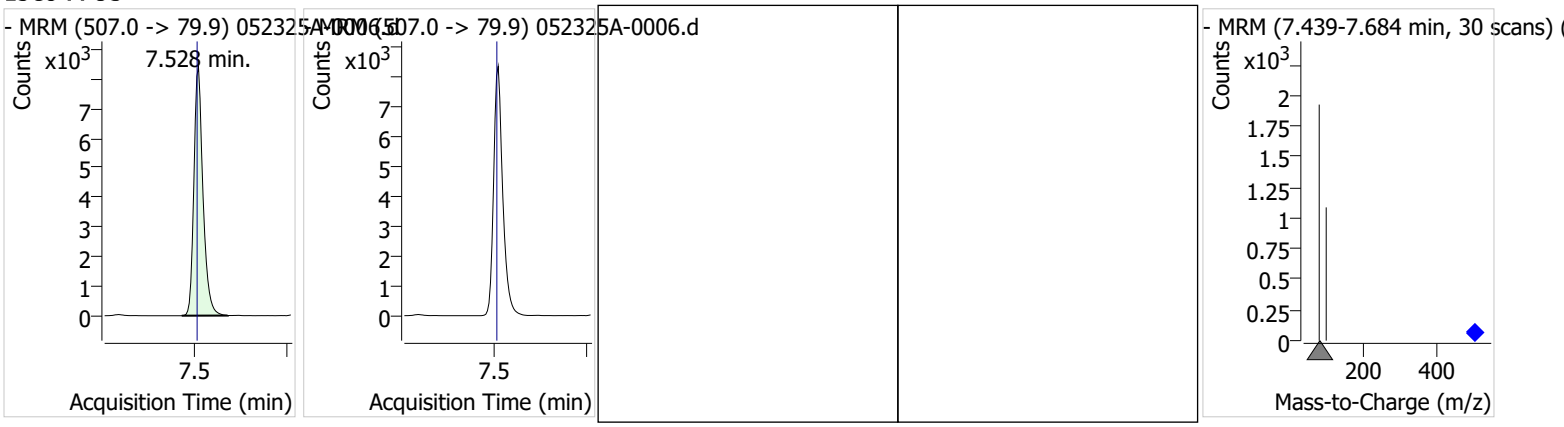
TFSI



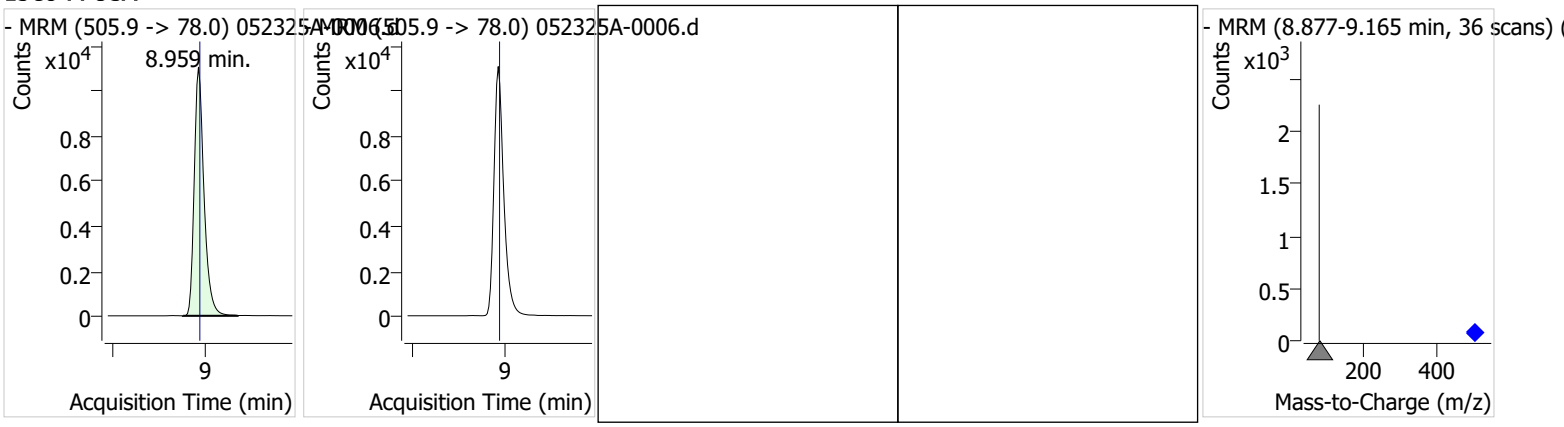
13C8-PFOA



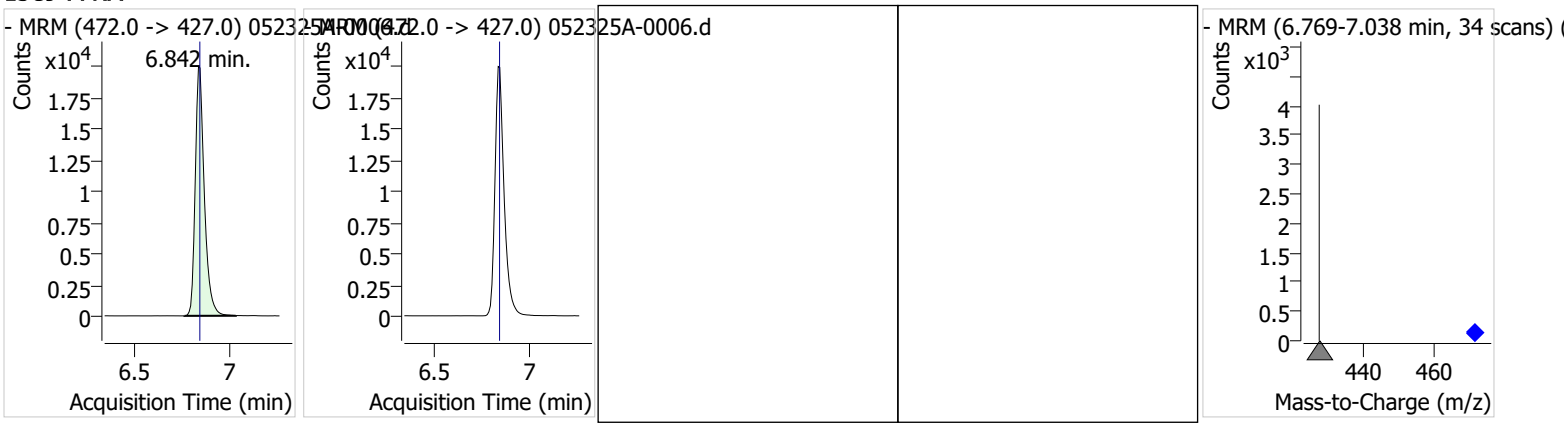
13C8-PFOS



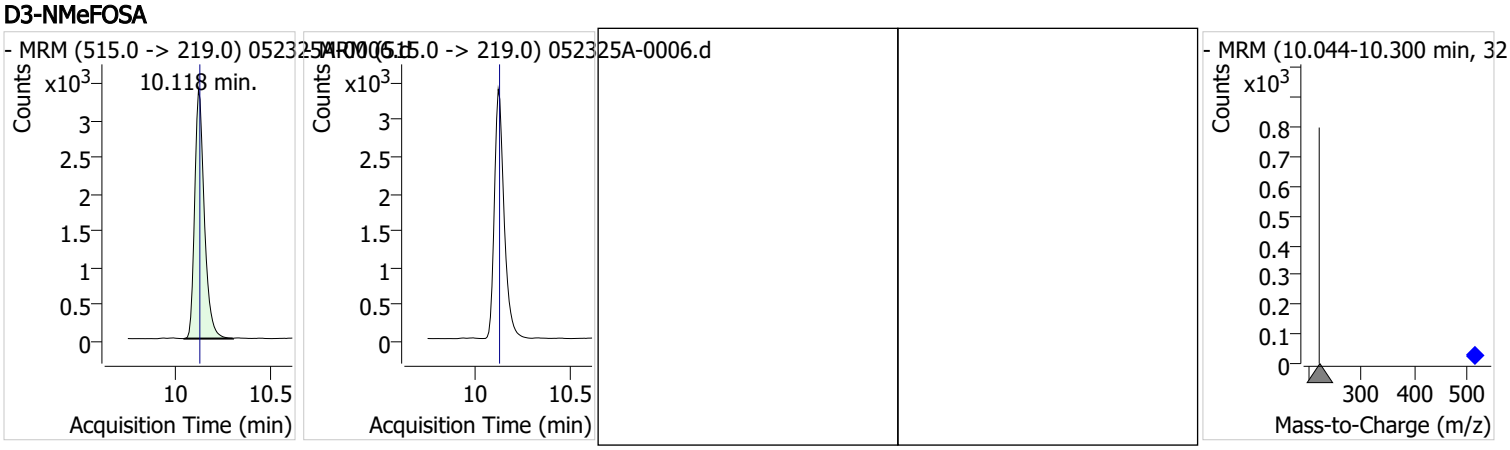
13C8-PFOSA



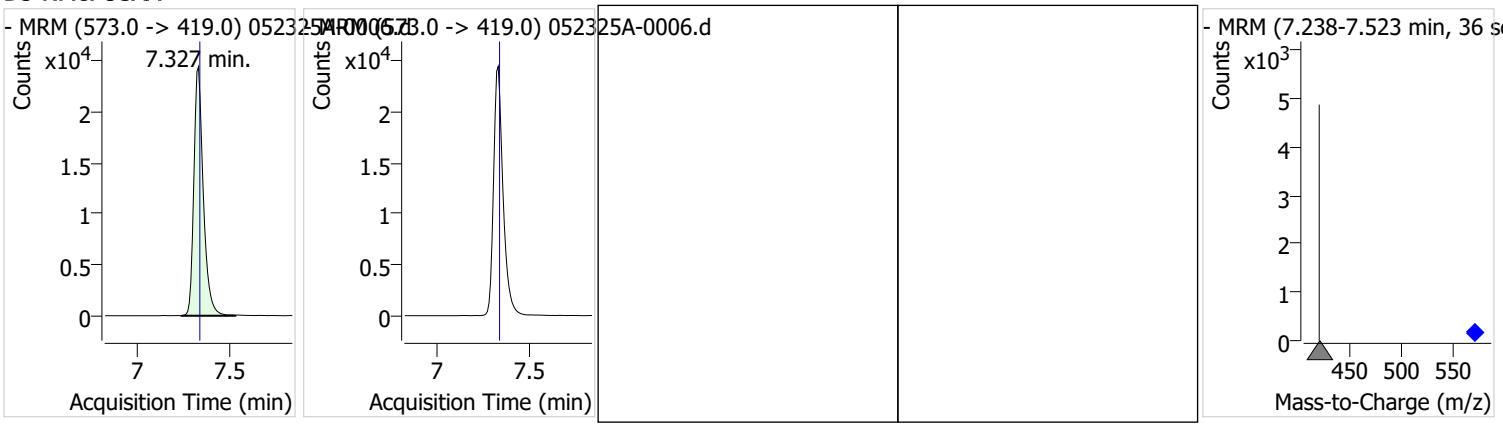
13C9-PFNA



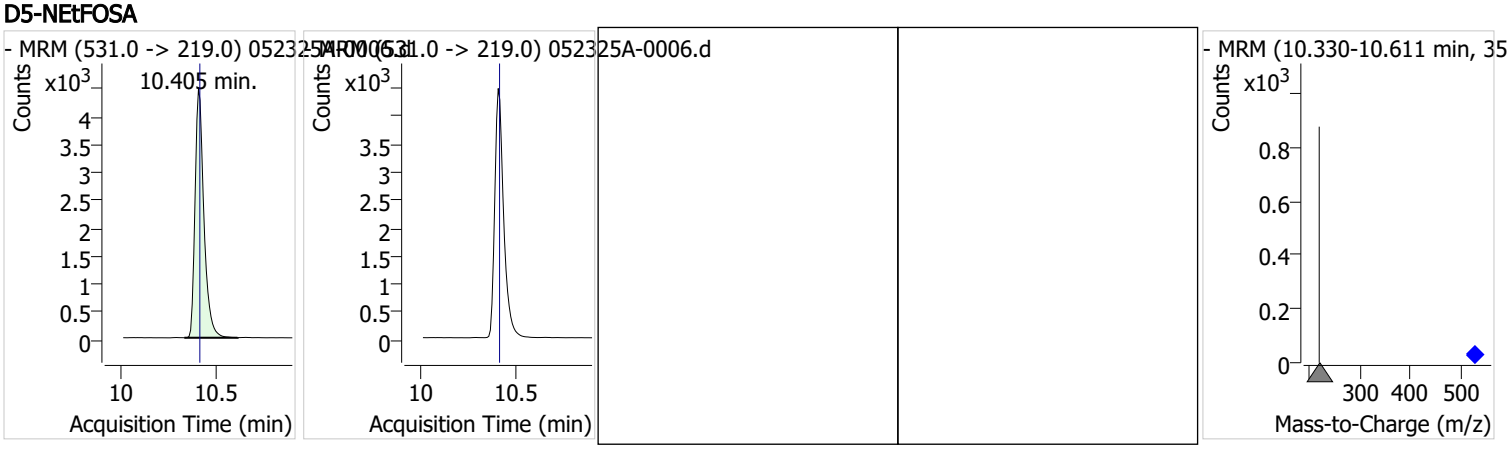
D3-NMeFOSA



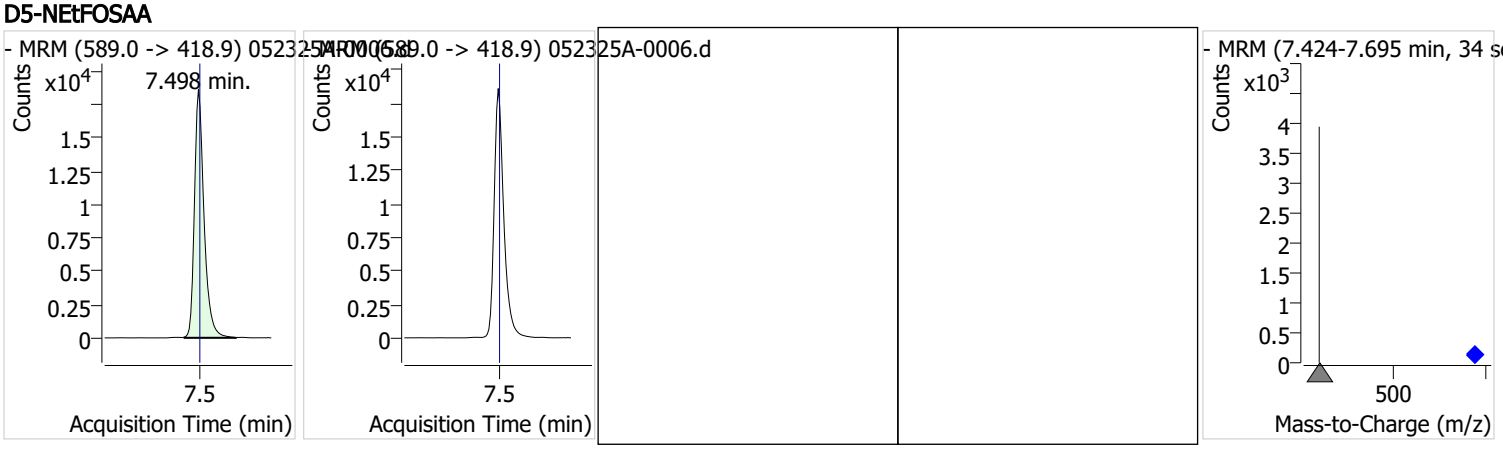
D3-NMeFOSAA



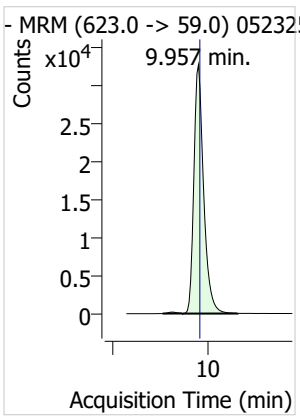
D5-NEtFOSA

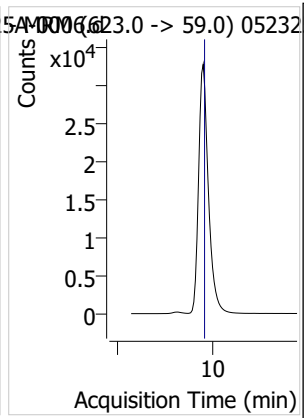


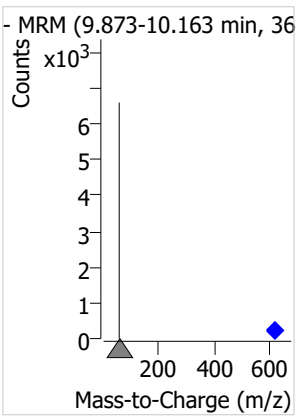
D5-NEtFOSAA



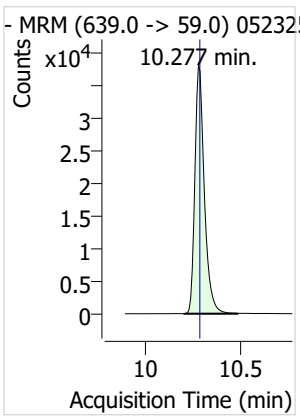
D7-NMeFOSE

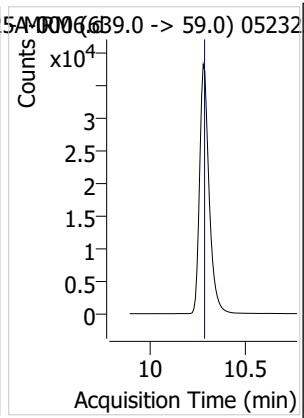


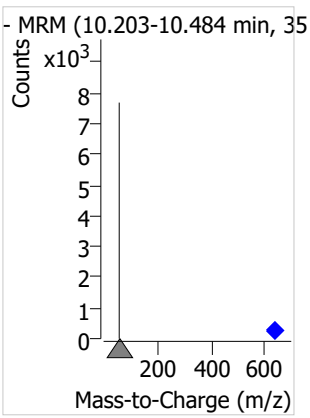




D9-NEtFOSE

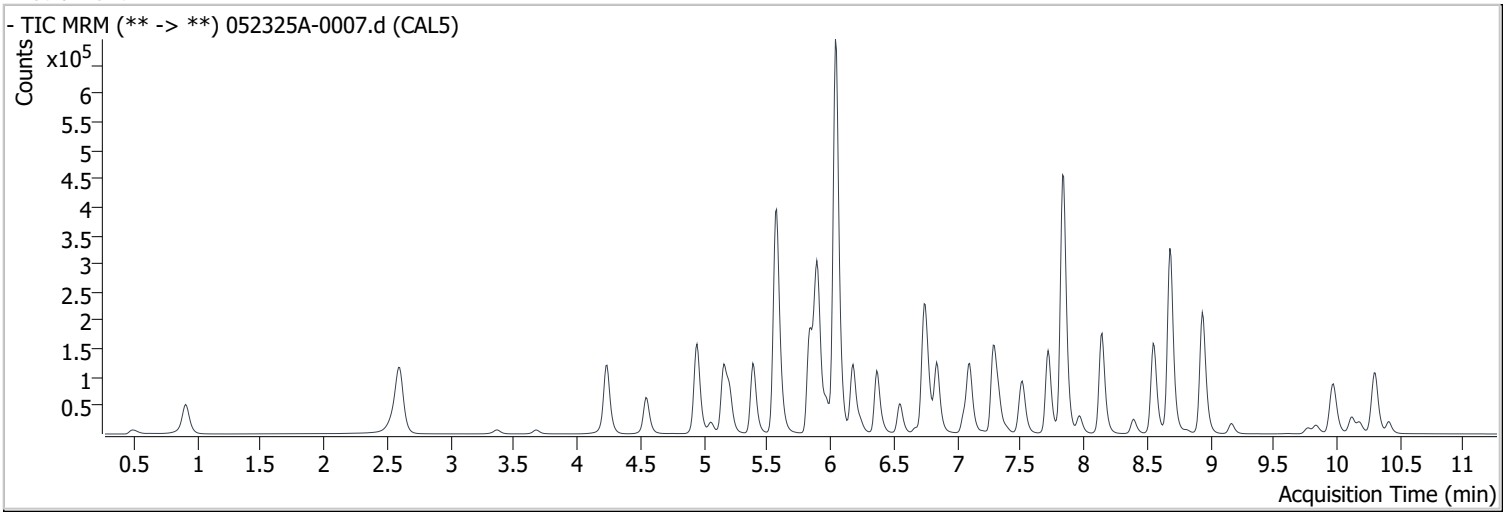






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 11:22 AM	**Data File**	052325A-0007.d
Sample Type	Cal	**Sample Name**	CAL5
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510289	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	171491	51257.97		13C3-HFPODA_ISTD	5.394	87686	19.9234	ng/ml			
285.0 -> 184.9	5.394	104361	7595.12	60.9								
4:2FTS	4.947	337735	58060.64		13C2-4:2FTS_ISTD	4.946	27987	18.3345	ng/ml			
327.0 -> 80.9	4.947	125545	206271.70	37.2								
6:2FTS	6.180	215407	25567.38		13C2-6:2FTS_ISTD	6.180	19487	20.5229	ng/ml			
427.0 -> 80.9	6.181	88726	537764.34	41.2								
ADONA	6.044	1580653	57829.17		13C4-PFHpA_ISTD	5.839	145107	16.7999	ng/ml			
377.0 -> 85.1	6.044	634022	811109.57	40.1								
8:2FTS	7.100	221938	64326.97		13C2-8:2FTS_ISTD	7.100	20721	19.5404	ng/ml			
527.0 -> 81.0	7.101	92719	27225.83	41.8								
13C4-PFBA	2.597	194843	3364.18		13C3-PFBA_ISTD	2.592	83011	9.6439	ng/ml			
9Cl-PF3ONS	7.838	1222733	12371.15		13C8-PFOS_ISTD	7.528	27591	19.5992	ng/ml			
533.0 -> 353.0	7.838	344623	12937.04	28.2								
11Cl-PF3OUdS	8.685	895865	80364.08		13C8-PFOS_ISTD	7.528	27591	20.5100	ng/ml			
633.0 -> 453.0	8.684	221496	10004.43	24.7								
PFHpS	7.064	76115	3287.54		13C8-PFOS_ISTD	7.528	27591	4.9709	ng/ml			
449.0 -> 98.8	7.064	33477	9904.37	44.0								
13C2-4:2FTS	4.946	27987	15098.04		18O2-PFHxS_ISTD	6.559	30432	5.3409	ng/ml			
13C2-6:2FTS	6.180	19487	24208.34		18O2-PFHxS_ISTD	6.559	30432	4.9356	ng/ml			
13C2-8:2FTS	7.100	20721	51145.48		18O2-PFHxS_ISTD	6.559	30432	5.2285	ng/ml			
13C2-PFDoA	8.146	98762	16443.74		13C2-PFDA_ISTD	7.290	64702	1.2217	ng/ml			
13C2-PFDA	7.290	64702	2185.77					1.3308	ng/ml			
13C2-PFHxA	5.162	83052	6182.57					2.6945	ng/ml			
13C2-PFTeDA	8.936	111376	32551.44		13C2-PFDA_ISTD	7.290	64702	1.2261	ng/ml			
13C4-PFOS	7.529	29954	8861.07					2.7173	ng/ml			
13C3-HFPODA	5.394	87686	88516.60		13C2-PFHxA_ISTD	5.162	83052	9.8816	ng/ml			
13C3-PFBS	5.205	51590	14506.33		18O2-PFHxS_ISTD	6.559	30432	2.4830	ng/ml			
13C3-PFHxS	6.551	34147	10129.88		18O2-PFHxS_ISTD	6.559	30432	2.4272	ng/ml			
NEtFOSAA	7.434	65044	3047.10		D5-NEtFOSAA_ISTD	7.498	71162	4.6950	ng/ml			
584.0 -> 526.0	7.433	54856	1990.09	84.3								

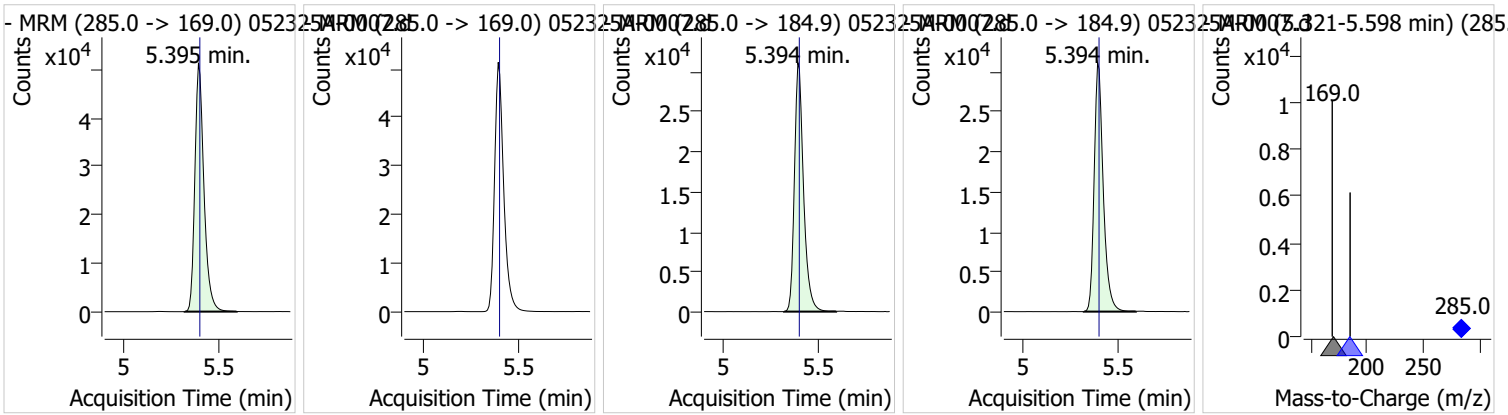
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	145107	44543.51		13C2-PFHxA_ISTD	5.162	83052	2.4603	ng/ml			
NMeFOSAA	7.247	31449	4328.05		D3-NMeFOSAA_ISTD	7.327	92542	4.5719	ng/ml			
570.0 -> 483.0	7.246	39596	1689.89	125.9								
PFBA	2.594	388213	68378.79		13C4-PFBA_ISTD	2.597	194843	19.9939	ng/ml			
13C5-PFHxA	5.161	87914	26094.82		13C2-PFHxA_ISTD	5.162	83052	2.3845	ng/ml			
PFBS	5.205	121632	14993.43		13C3-PFBS_ISTD	5.205	51590	4.4703	ng/ml			
298.9 -> 98.8	5.205	42551	53427.12	35.0								
NMeFOSA	10.073	29801	2377.15		D3-NMeFOSA_ISTD	10.118	12845	4.8742	ng/ml			
512.0 -> 169.0	10.074	40446	2808.56	135.7								
PFDA	7.290	301498	7608.43		13C6-PFDA_ISTD	7.289	73987	4.9800	ng/ml			
513.0 -> 219.0	7.290	57350	211896.06	19.0								
PFDoA	8.146	453549	9232.66		13C2-PFDoA_ISTD	8.146	98762	5.0987	ng/ml			
613.0 -> 319.0	8.147	51490	410757.35	11.4								
NEtFOSA	10.377	36839	1821.83		D5-NEtFOSA_ISTD	10.405	15007	5.0177	ng/ml			
526.0 -> 169.0	10.377	50046	2939.17	135.8								
PFHpA	5.839	321855	3215.00		13C4-PFHpA_ISTD	5.839	145107	4.9443	ng/ml			
362.9 -> 169.0	5.839	53651	16449.97	16.7								
PFHxA	5.163	203675	16000.41		13C5-PFHxA_ISTD	5.161	87914	4.9659	ng/ml			
313.0 -> 118.9	5.163	6431	37705.87	3.2								
NMeFOSE	9.899	298797	4257.30		D7-NMeFOSE_ISTD	9.957	123224	49.2597	ng/ml			
PFHxS	6.498	74963	9058.74		13C3-PFHxS_ISTD	6.551	34147	4.3449	ng/ml			
398.9 -> 99.0	6.498	33604	3467.03	44.8								
PFNA	6.789	234294	5152.24		13C9-PFNA_ISTD	6.842	68219	4.9078	ng/ml			
463.0 -> 219.0	6.789	69357	4091.88	29.6								
NEtFOSE	10.249	368102	2309.59		D9-NEtFOSE_ISTD	10.277	132977	51.0919	ng/ml			
PFOA	6.300	228399	3373.61		13C8-PFOA_ISTD	6.368	99134	4.8775	ng/ml			
413.0 -> 169.0	6.300	66109	3197.21	28.9								
PFOS	7.399	72356	5521.91		13C8-PFOS_ISTD	7.528	27591	4.4360	ng/ml			
499.0 -> 99.0	7.402	34712	4937.08	48.0								
PFPeA	4.239	322966	6871.86		13C5-PFPeA_ISTD	4.237	144769	9.9092	ng/ml			
PFMPA	3.368	32084	2326.32		13C4-PFBA_ISTD	2.597	194843	9.5191	ng/ml			
13C5-PFPeA	4.237	144769	11170.77		13C2-PFHxA_ISTD	5.162	83052	4.9218	ng/ml			
PFMBA	4.547	237486	46928.39		13C5-PFPeA_ISTD	4.237	144769	9.8770	ng/ml			
PFTrDA	8.550	512359	4877.22		13C2-PFDoA_ISTD	8.146	98762	4.9325	ng/ml			
663.0 -> 168.9	8.551	42759	12416.64	8.3								
PFEESA	5.570	636017	22990.41		13C5-PFHxA_ISTD	5.161	87914	9.0503	ng/ml			
315.0 -> 83.0	5.571	44944	153825.46	7.1								
13C6-PFDA	7.289	73987	22245.80		13C2-PFDA_ISTD	7.290	64702	1.2144	ng/ml			
NFDHA	5.058	47266	13617.91		13C5-PFHxA_ISTD	5.161	87914	9.9388	ng/ml			
295.0 -> 85.0	5.058	15360	4366.15	32.5								
PFOSA	8.899	85301	2692.23		13C8-PFOSA_ISTD	8.959	41017	4.7280	ng/ml			
497.9 -> 478.0	8.902	2119	712.56	2.5								
13C7-PFUnA	7.721	81282	23924.70		13C2-PFDA_ISTD	7.290	64702	1.1946	ng/ml			
13C4-PFOA	6.369	22546	7017.73					2.7268	ng/ml			
PFDS	8.398	57157	29537.02		13C8-PFOS_ISTD	7.528	27591	4.9263	ng/ml			
599.0 -> 98.8	8.397	28361	67138.57	49.6								
PFNS	7.969	66996	19860.03		13C8-PFOS_ISTD	7.528	27591	4.6971	ng/ml			
549.0 -> 98.8	7.968	31888	9381.65	47.6								
PFPeS	5.971	99983	24066.59		13C3-PFHxS_ISTD	6.551	34147	4.6686	ng/ml			
349.0 -> 98.9	5.979	43940	5805.97	43.9								
PFTeDA	8.937	514984	12596.35		13C2-PFTeDA_ISTD	8.936	111376	5.0094	ng/ml			

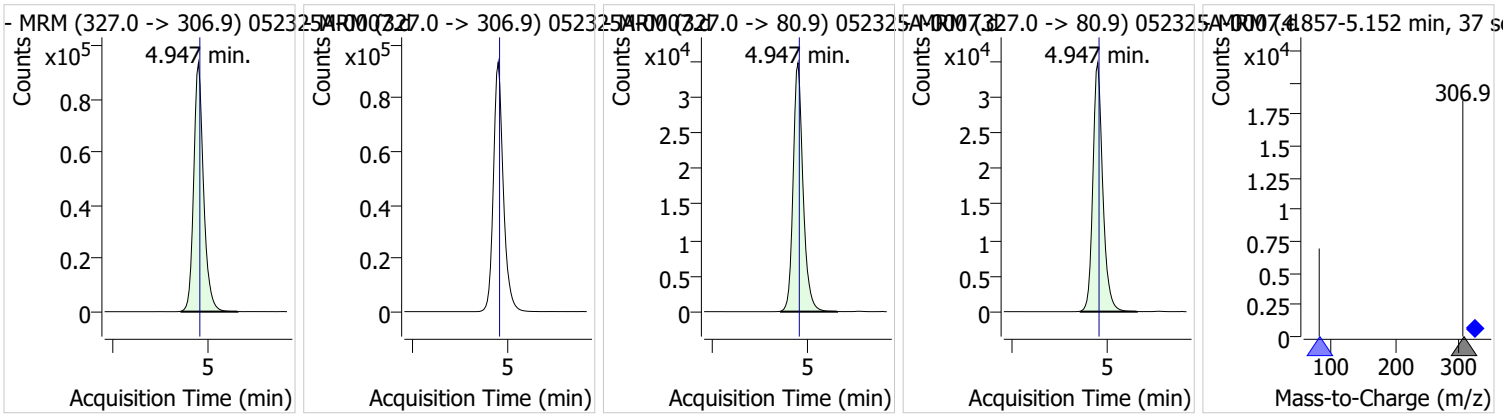
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	25264	3409.96	4.9								
PFUnA	7.722	345695	4774.79		13C7-PFUnA_ISTD	7.721	81282	5.0928	ng/ml			
563.0 -> 269.1	7.722	59509	162172.39	17.2								
13C3-PFBA	2.592	83011	2204.14					5.4661	ng/ml			
3:3FTCA	3.679	19082	1487.58		13C5-PFPeA_ISTD	4.237	144769	23.2773	ng/ml			
241.0 -> 117.0	3.673	10028	466.37	52.6								
5:3FTCA	5.577	414028	112220.74		13C5-PFHxA_ISTD	5.161	87914	126.1838	ng/ml			
341.0 -> 217.0	5.577	363857	32881.38	87.9								
7:3FTCA	6.754	433522	106483.53		13C9-PFNA_ISTD	6.842	68219	118.7871	ng/ml			
441.0 -> 337.0	6.745	468109	2400140.70	108.0								
13C5-PFNA	6.842	61215	220351.55					1.2944	ng/ml			
18O2-PFHxS	6.559	30432	90887.05					2.6791	ng/ml			
PFDoS	9.171	39280	2773.79		13C8-PFOS_ISTD	7.528	27591	5.0361	ng/ml			
698.9 -> 99.0	9.170	21927	6426.13	55.8								
TDCA	6.023	46386	7492.32		13C8-PFOS_ISTD	7.528	27591	10.5481	ng/ml			
499.0 -> 124.0	6.023	80282	89005.85	173.1								
PFPrA	0.912	153075	6570.59		13C3-PFPrA_ISTD	0.907	89006	19.5727	ng/ml			
13C3-PFPrA	0.907	89006	62706.75		13C3-PFBA_ISTD	2.592	83011	9.9114	ng/ml			
TFSI	5.900	684409	8410.17		13C3-HFPODA_ISTD	5.394	87686	9.8945	ng/ml			
279.9 -> 77.9	5.900	467537	2022200.26	68.3								
13C8-PFOA	6.368	99134	30631.99		13C4-PFOA_ISTD	6.369	22546	2.3468	ng/ml			
13C8-PFOS	7.528	27591	3960.16		13C4-PFOS_ISTD	7.529	29954	2.3552	ng/ml			
13C8-PFOSA	8.959	41017	23798.15		13C4-PFOS_ISTD	7.529	29954	2.4350	ng/ml			
13C9-PFNA	6.842	68219	523219.49		13C5-PFNA_ISTD	6.842	61215	1.2613	ng/ml			
D3-NMeFOSA	10.118	12845	4037.62		13C4-PFOS_ISTD	7.529	29954	2.3934	ng/ml			
D3-NMeFOSAA	7.327	92542	7046.12		13C4-PFOS_ISTD	7.529	29954	4.9672	ng/ml			
D5-NEtFOSA	10.405	15007	3804.06		13C4-PFOS_ISTD	7.529	29954	2.3262	ng/ml			
D5-NEtFOSAA	7.498	71162	20372.92		13C4-PFOS_ISTD	7.529	29954	5.0294	ng/ml			
D7-NMeFOSE	9.957	123224	11931.09		13C4-PFOS_ISTD	7.529	29954	23.9162	ng/ml			
D9-NEtFOSE	10.277	132977	6397.82		13C4-PFOS_ISTD	7.529	29954	23.2426	ng/ml			

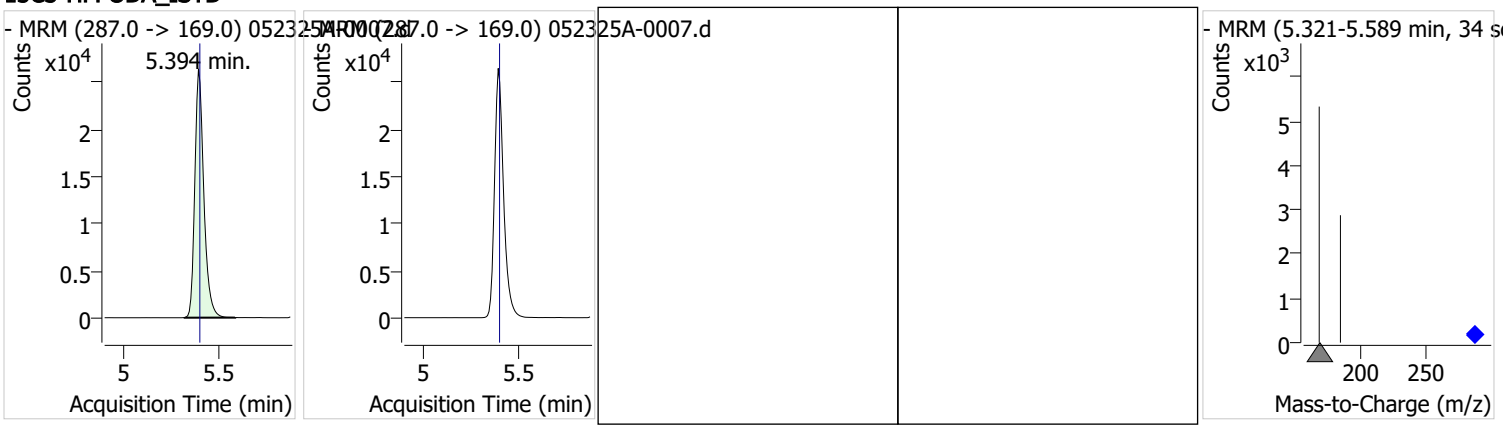
HFPO-DA



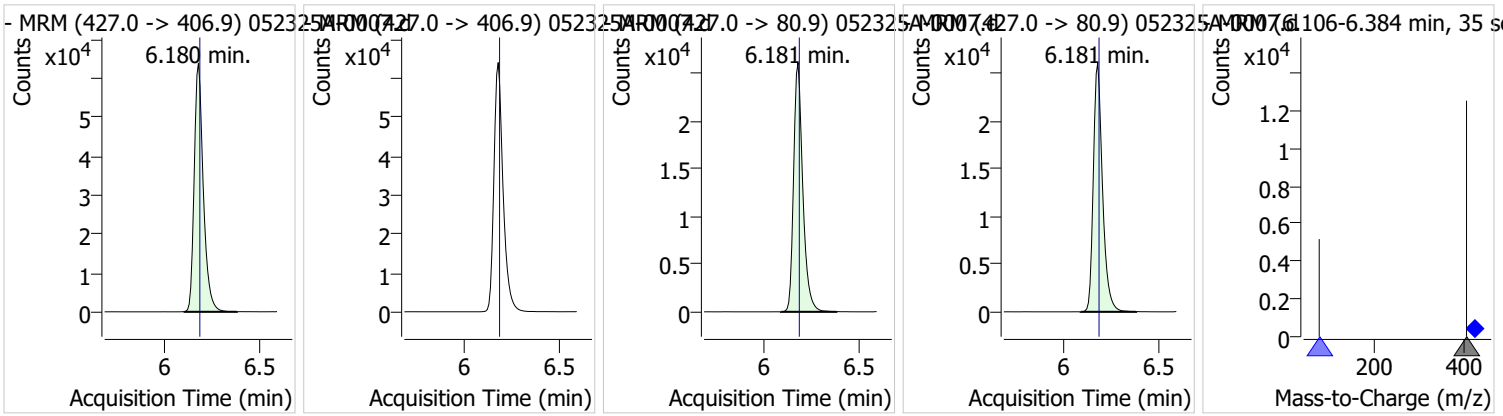
4:2FTS



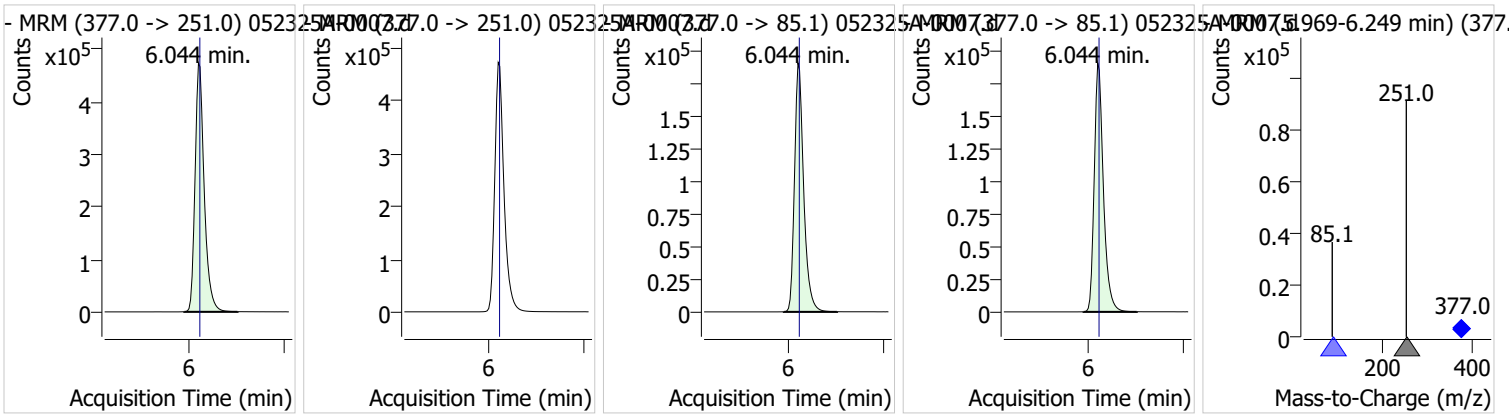
13C3-HFPODA_ISTD



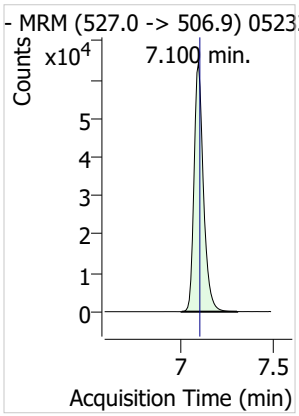
6:2FTS

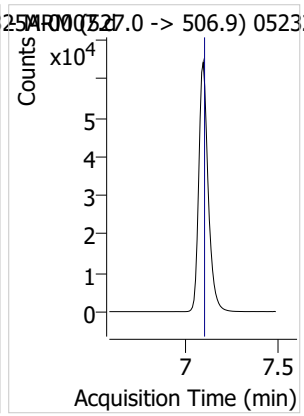


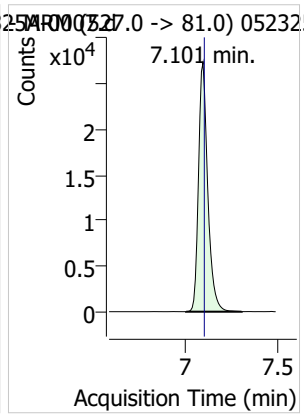
ADONA

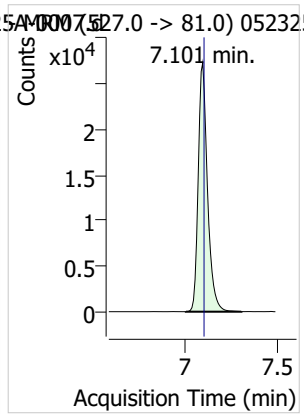


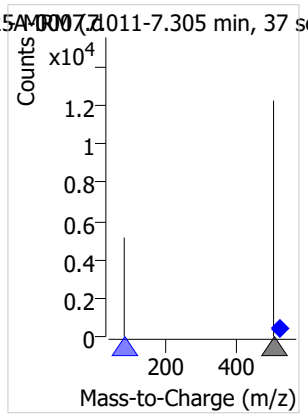
8:2FTS



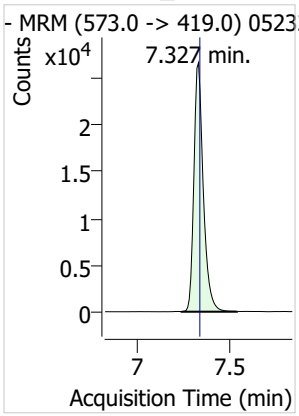


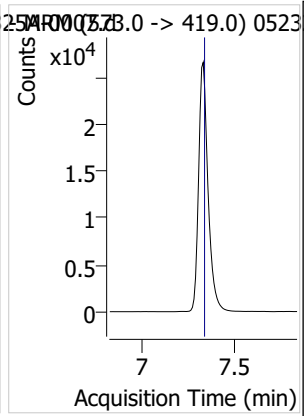


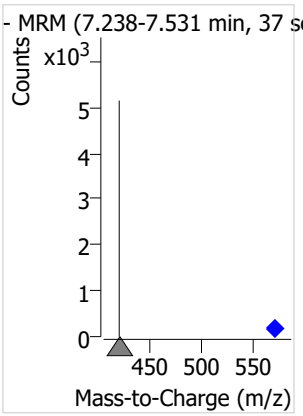




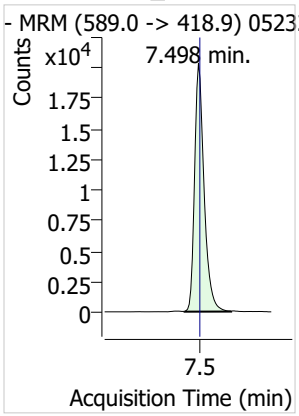
D3-NMeFOSAA_ISTD

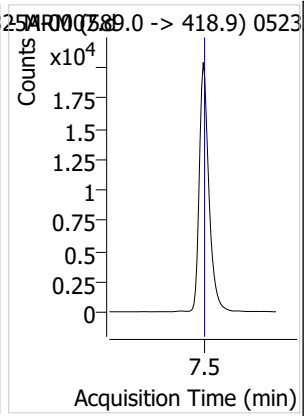


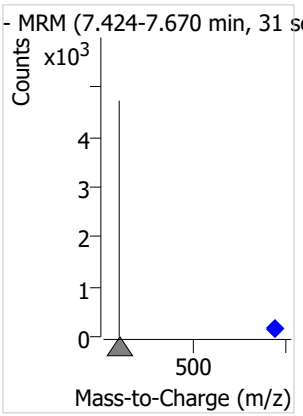




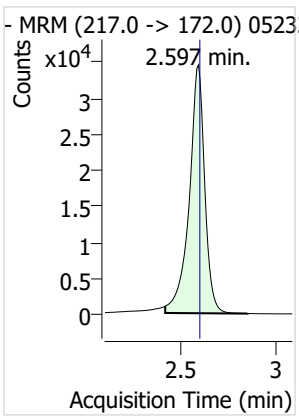
D5-NEtFOSAA_ISTD

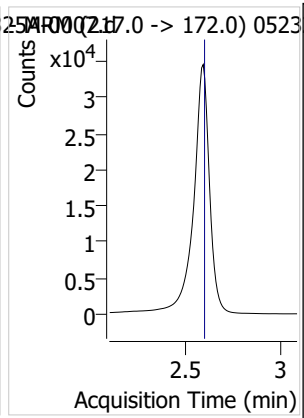


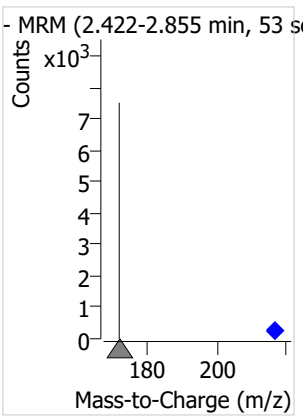




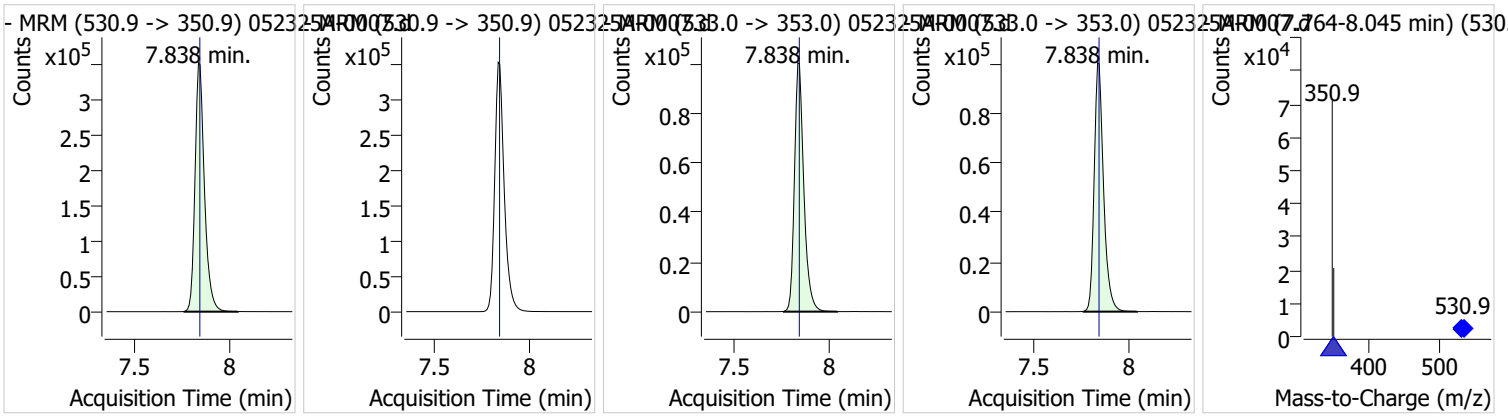
13C4-PFBA



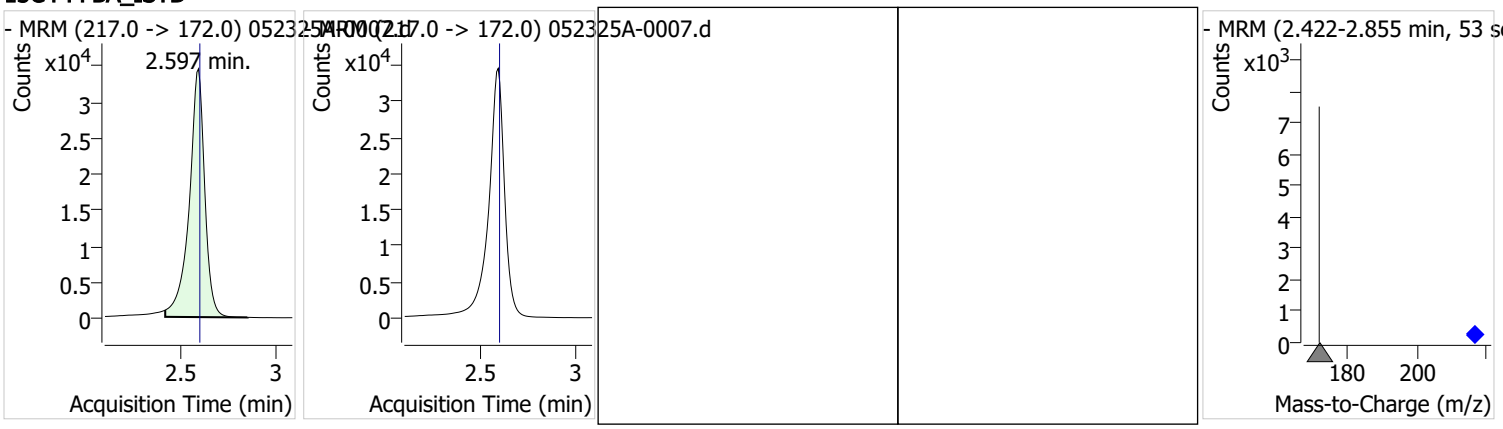




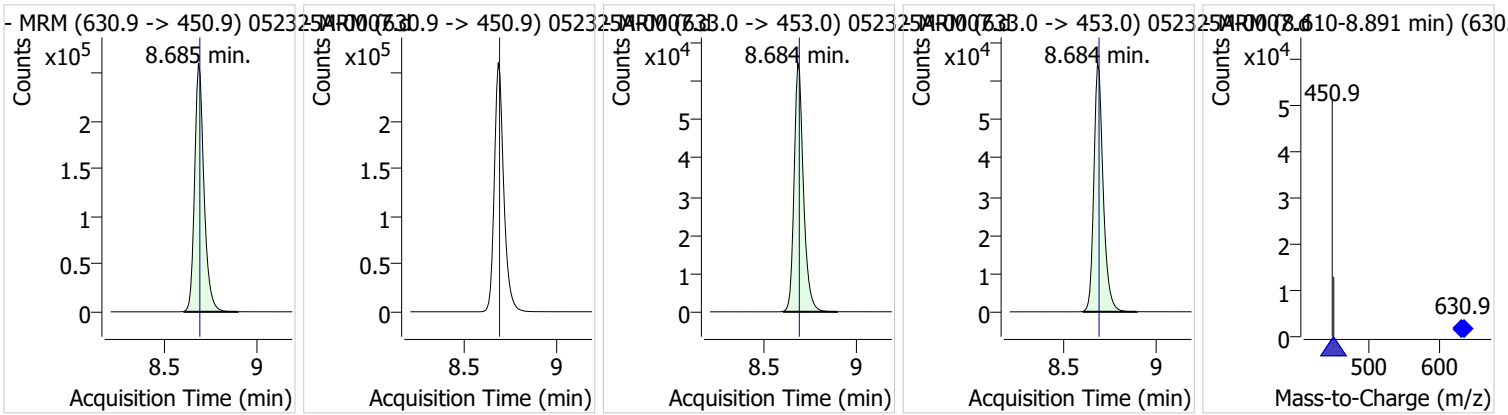
9Cl-PF3ONS



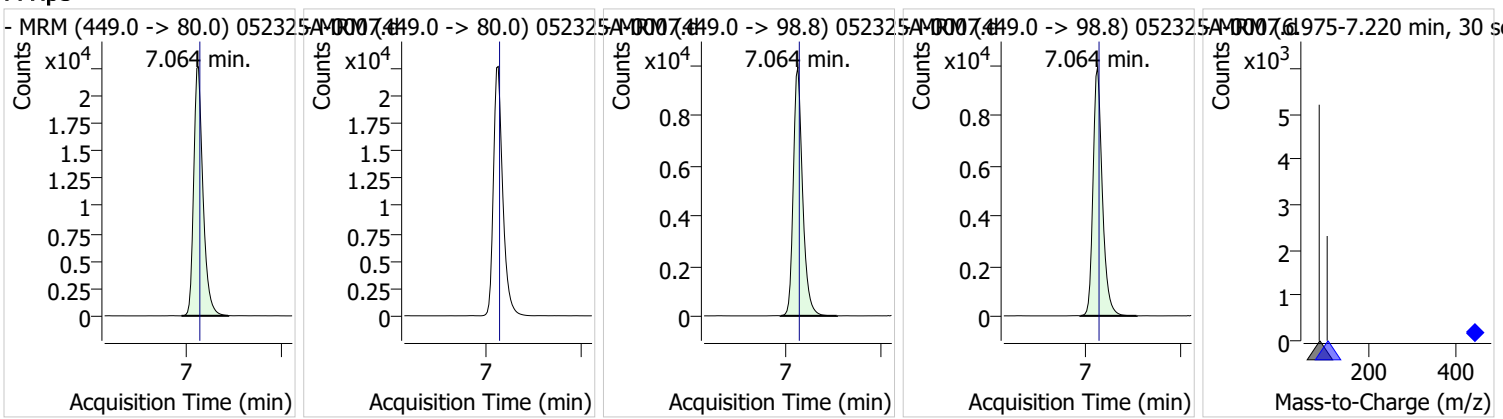
13C4-PFBA_ISTD



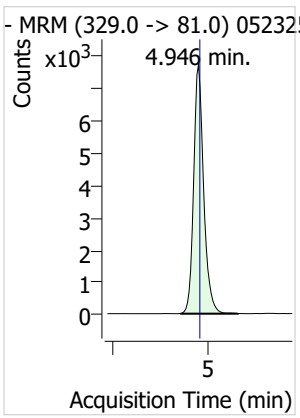
11Cl-PF3OUdS

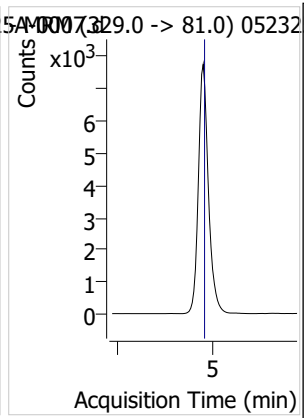


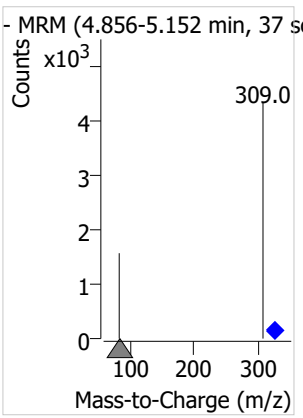
PFHpS



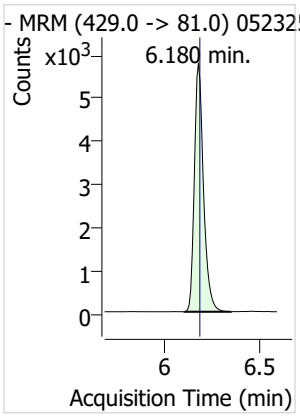
13C2-4:2FTS

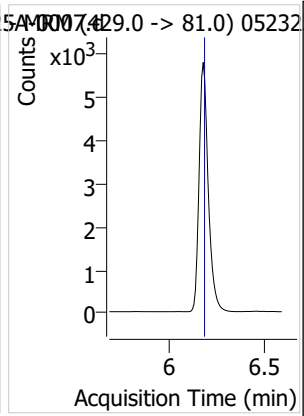


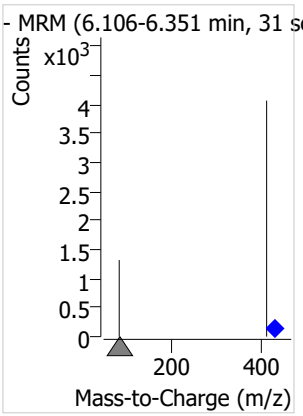




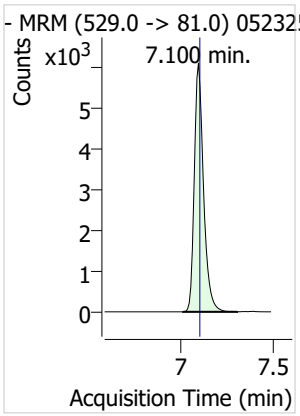
13C2-6:2FTS

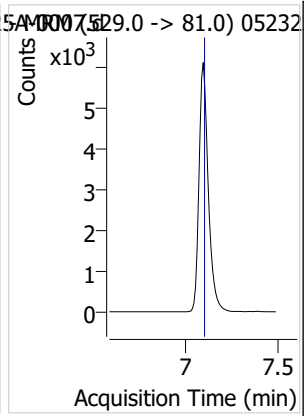


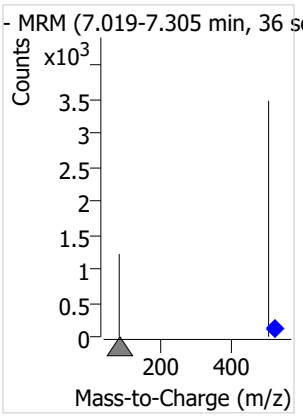




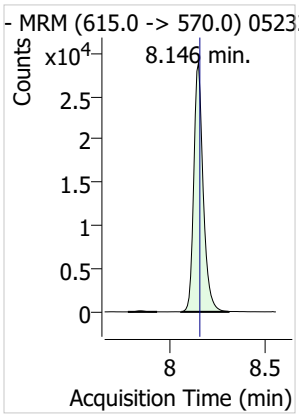
13C2-8:2FTS

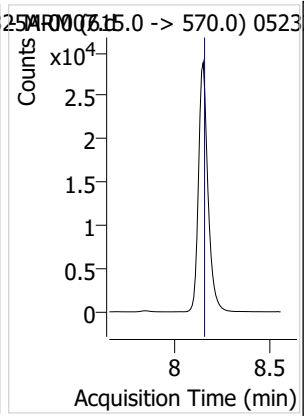


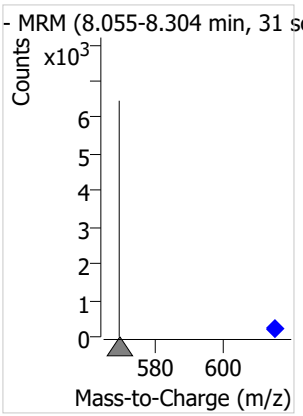




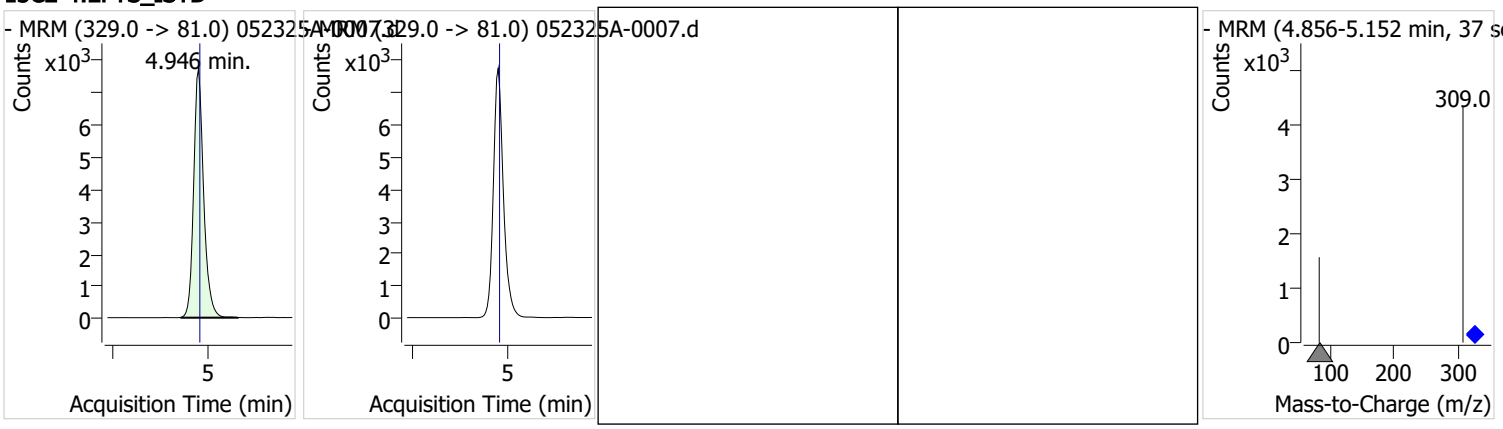
13C2-PFDoA







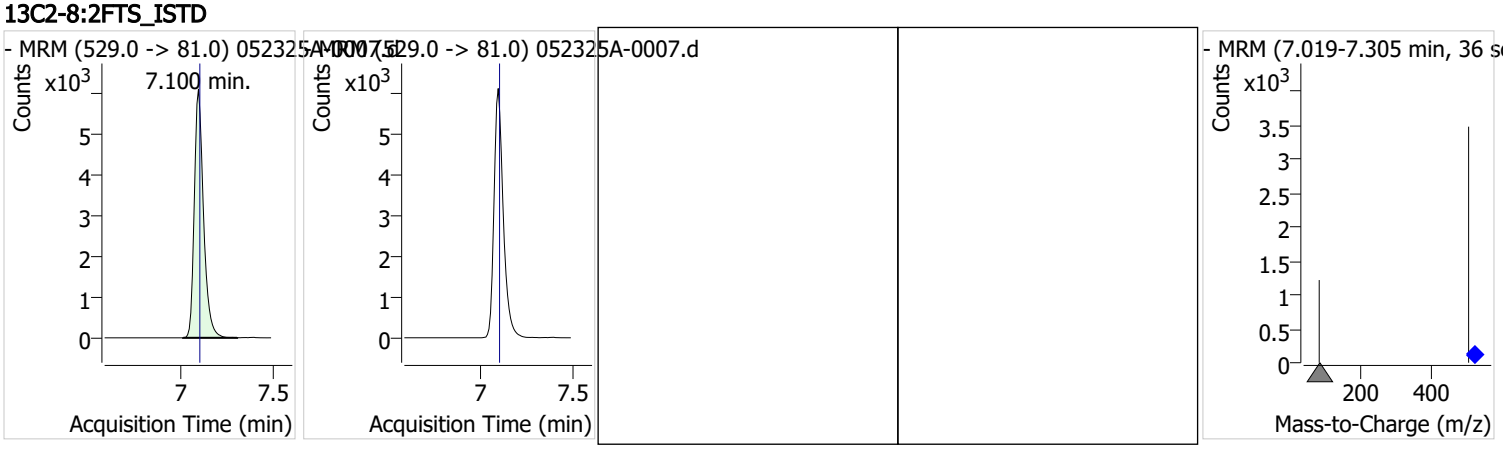
13C2-4:2FTS_ISTD



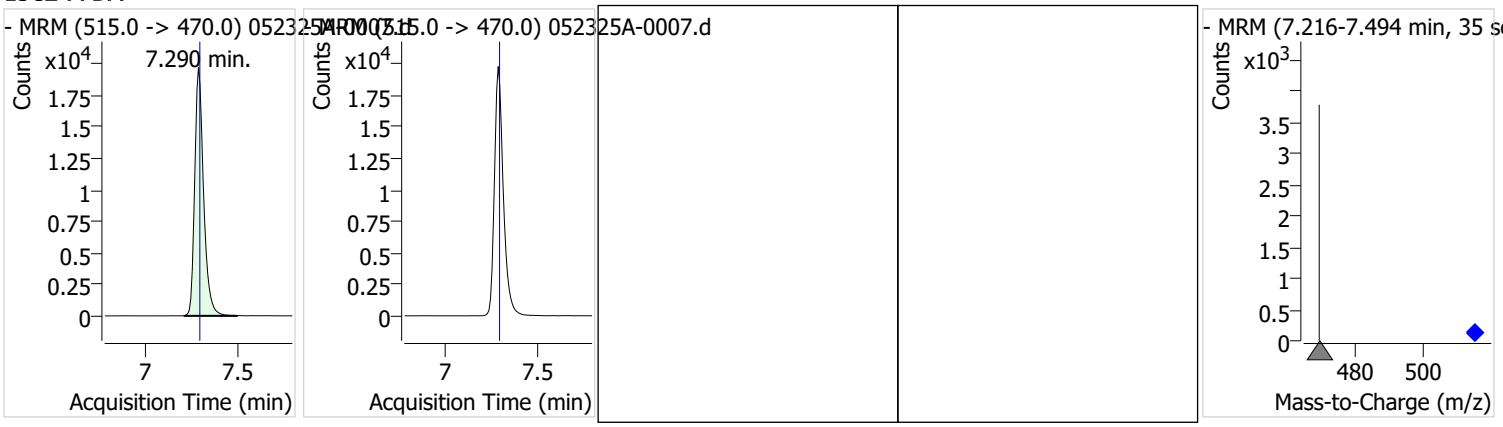
13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



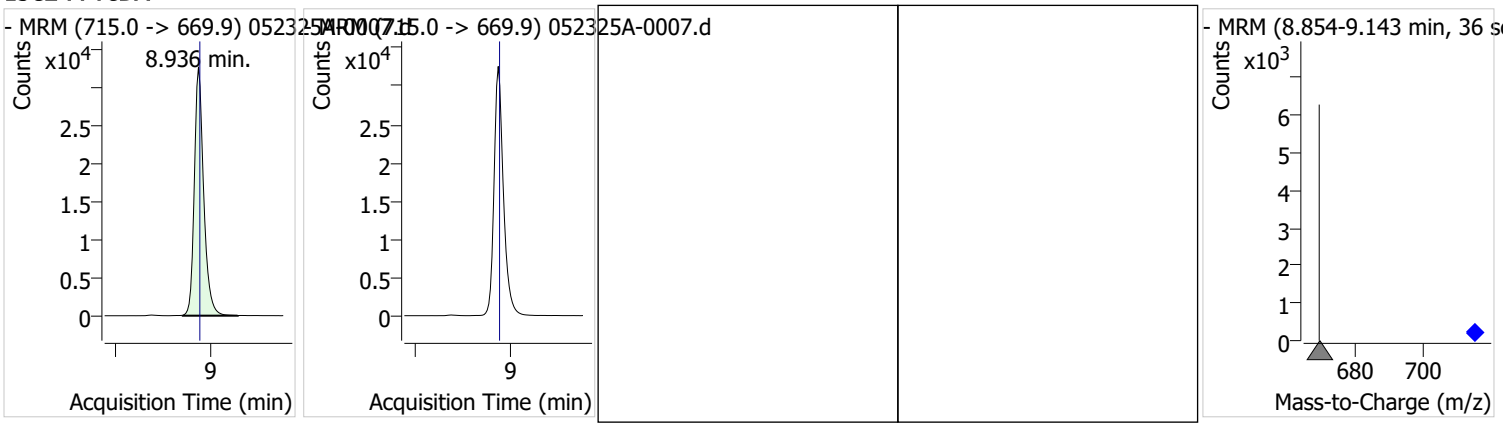
13C2-PFDA



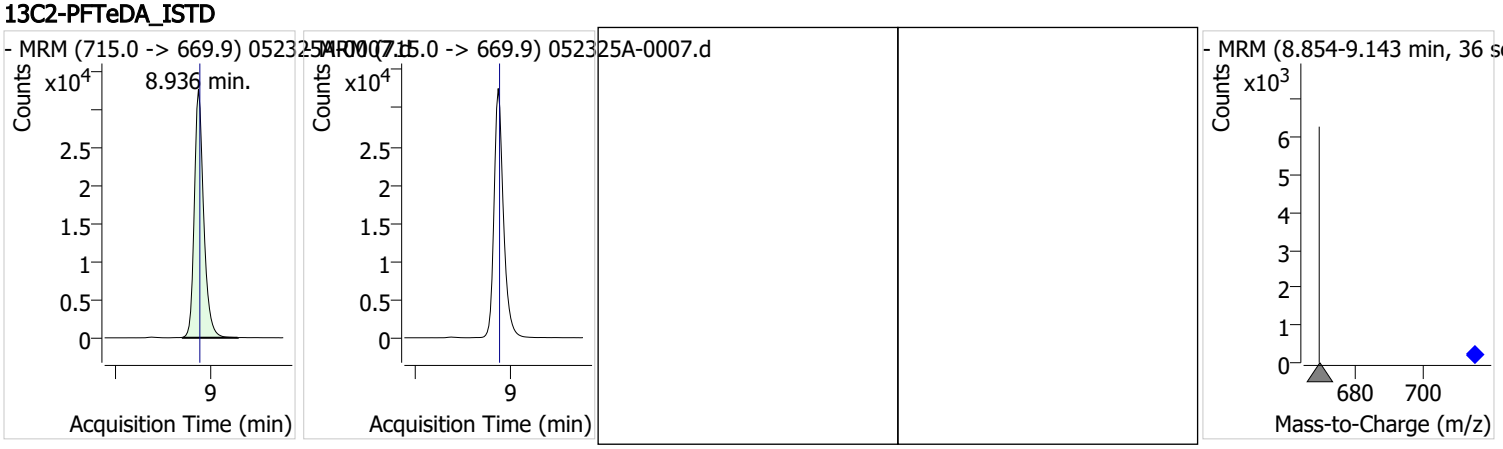
13C2-PFHxA



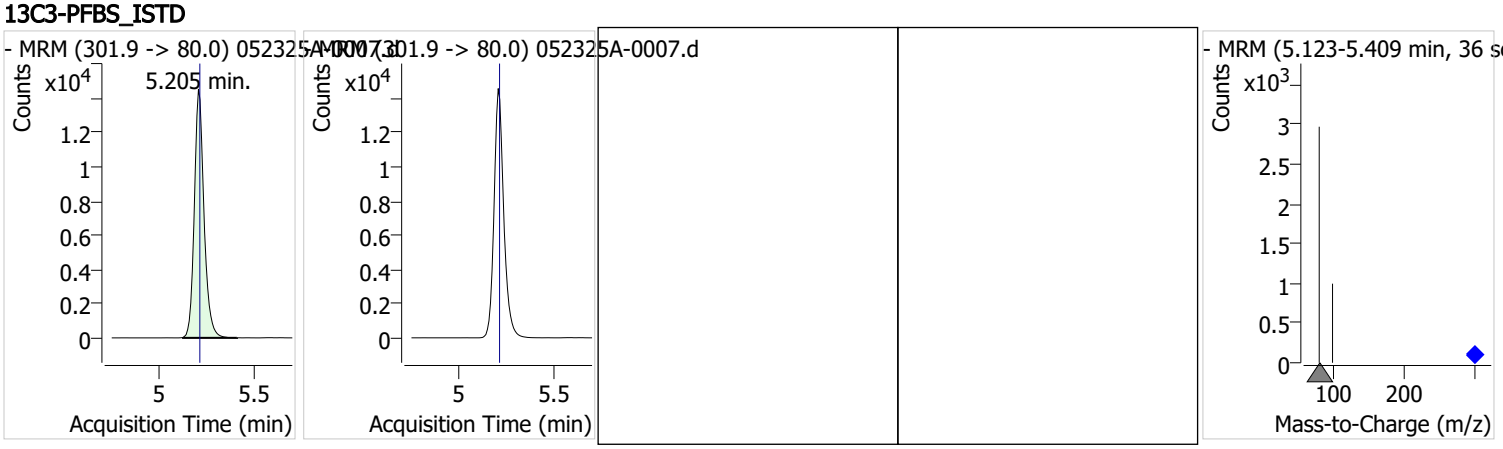
13C2-PFTeDA



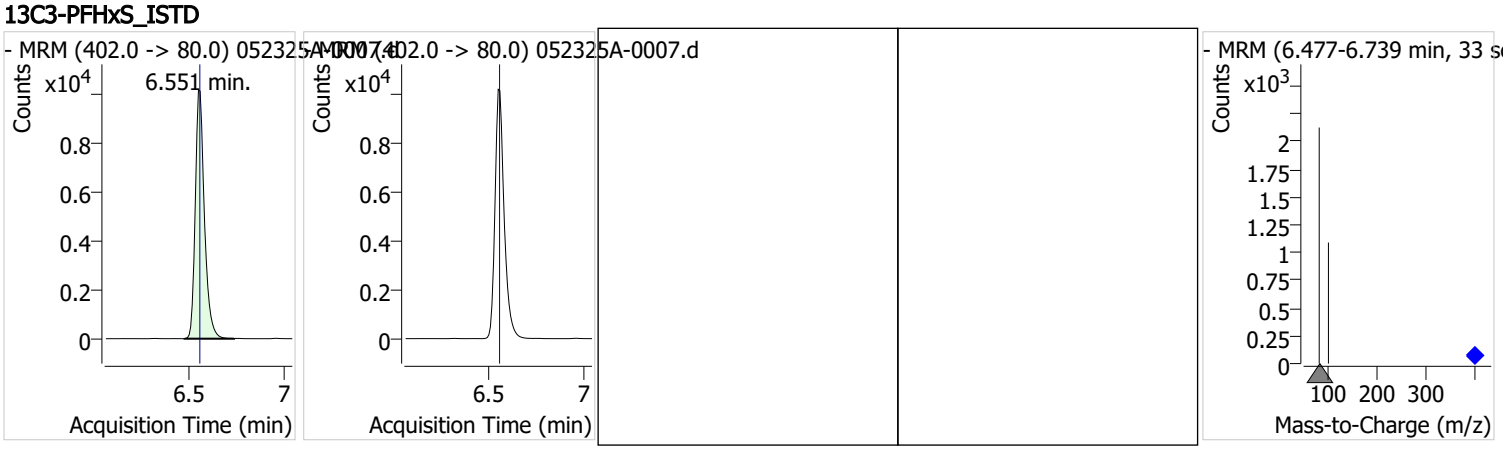
13C2-PFTeDA_ISTD



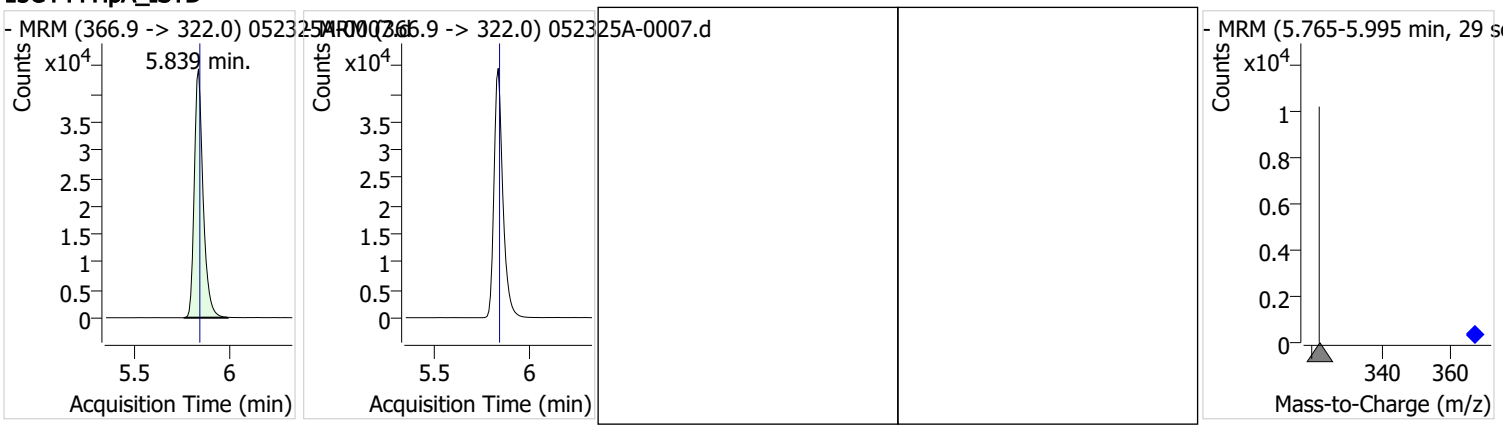
13C3-PFBS_ISTD



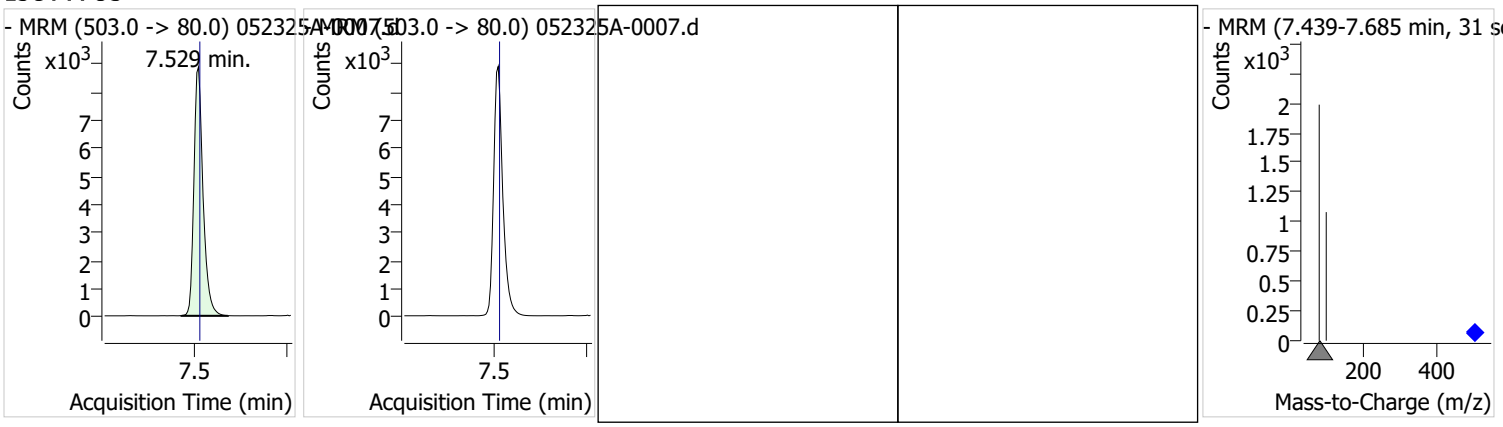
13C3-PFHxS_ISTD



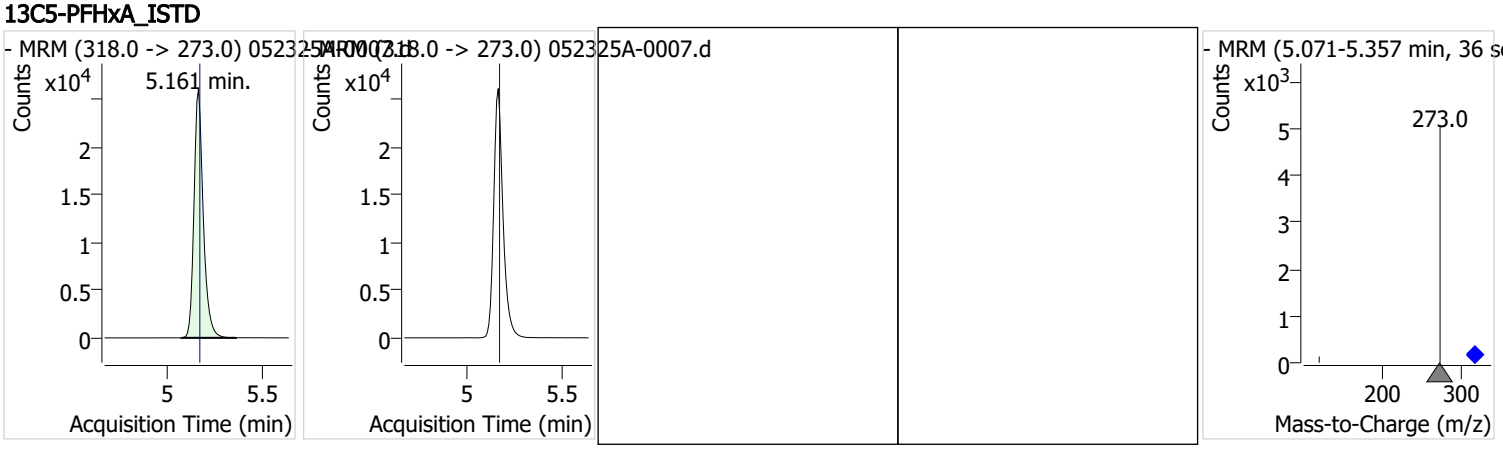
13C4-PFHpA_ISTD



13C4-PFOS



13C5-PFHxA_ISTD



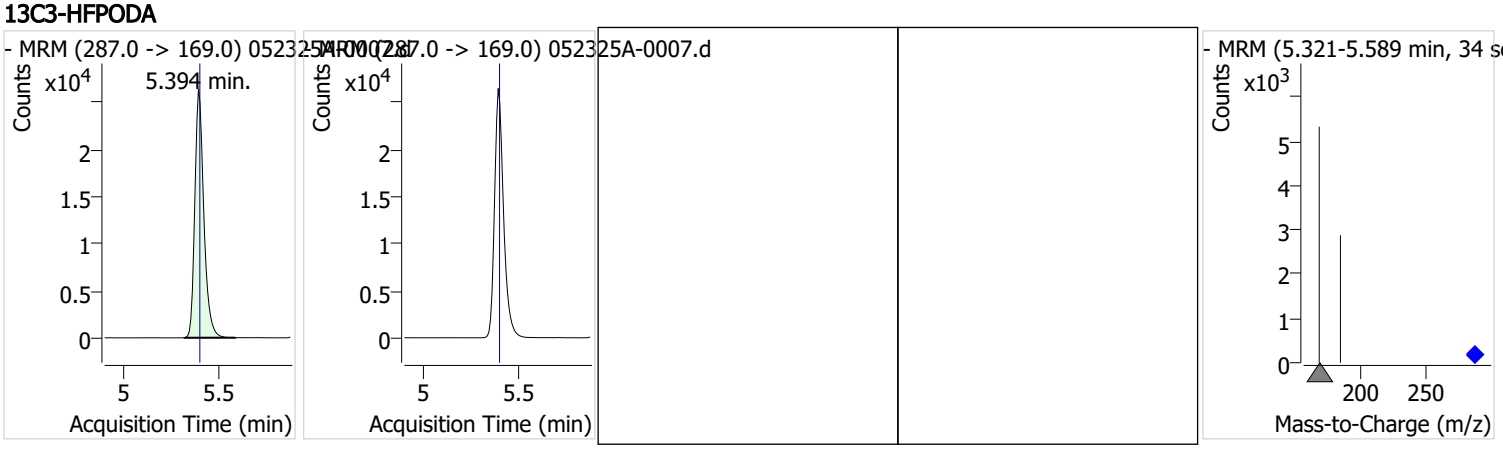
13C5-PFPeA_ISTD



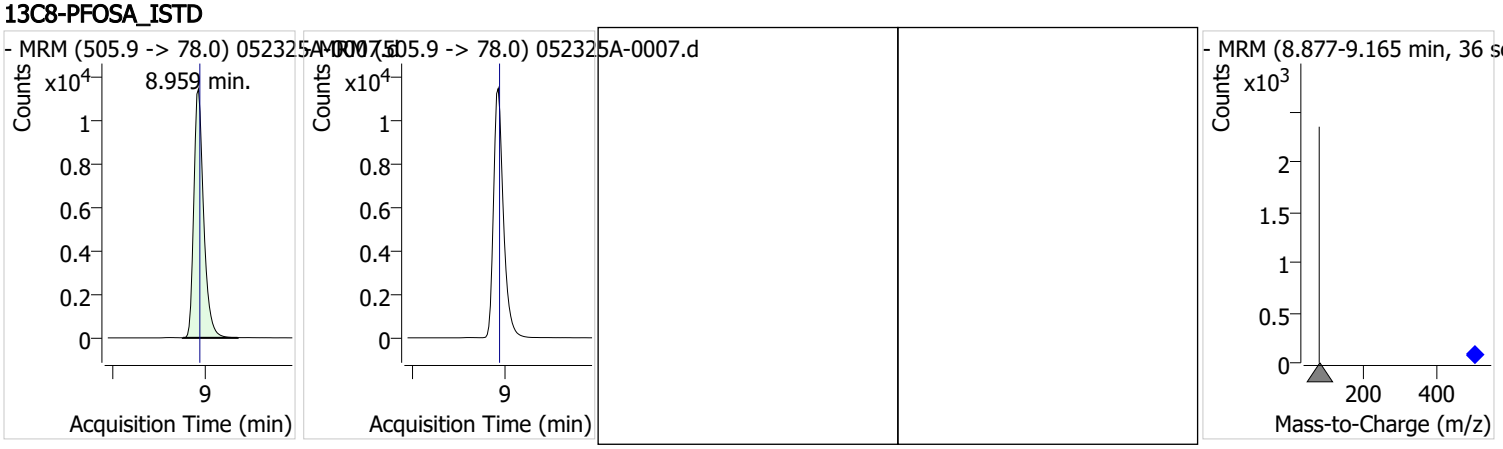
13C6-PFDA_ISTD



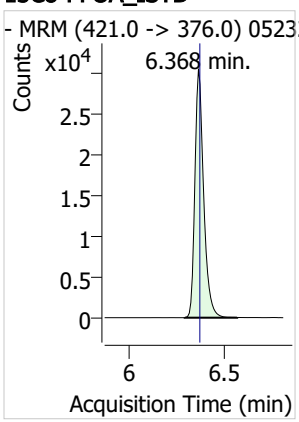
13C3-HFPODA

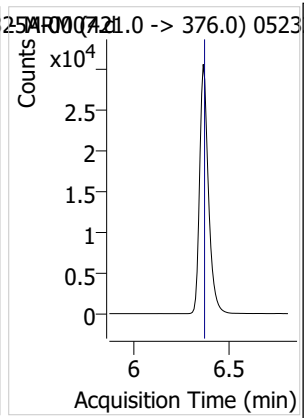


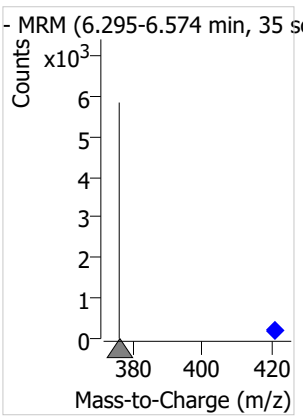
13C8-PFOSA_ISTD



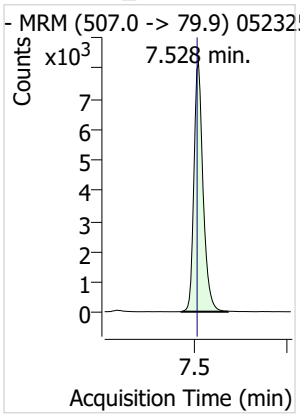
13C8-PFOA_ISTD

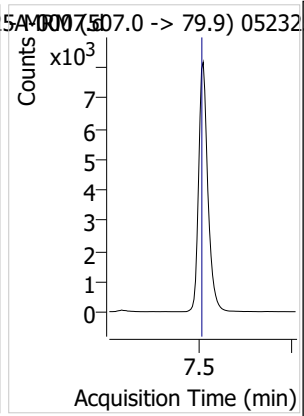


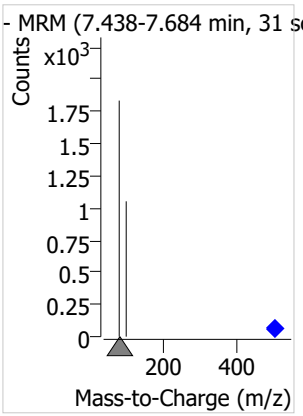




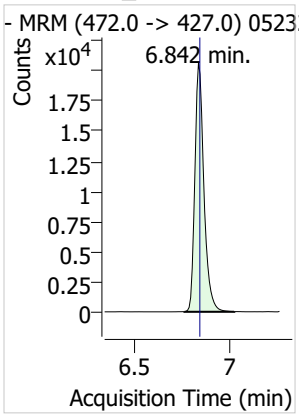
13C8-PFOS_ISTD

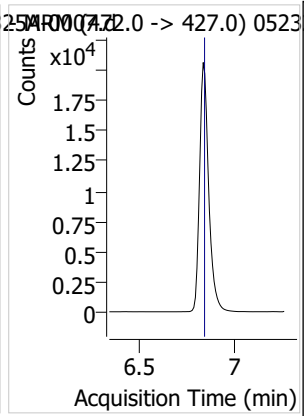


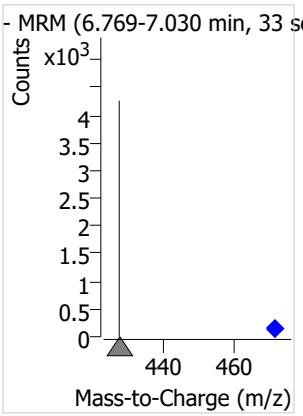




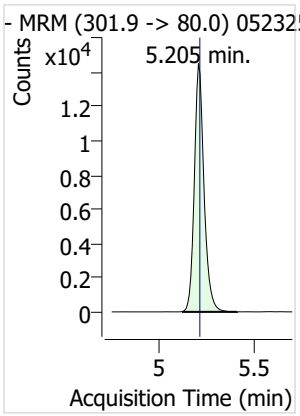
13C9-PFNA_ISTD

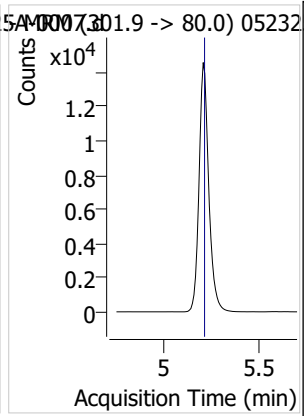


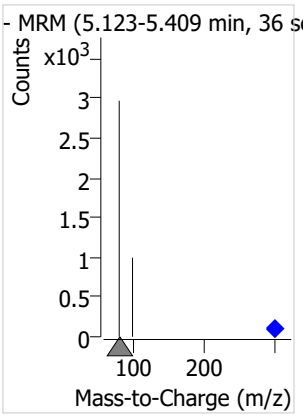




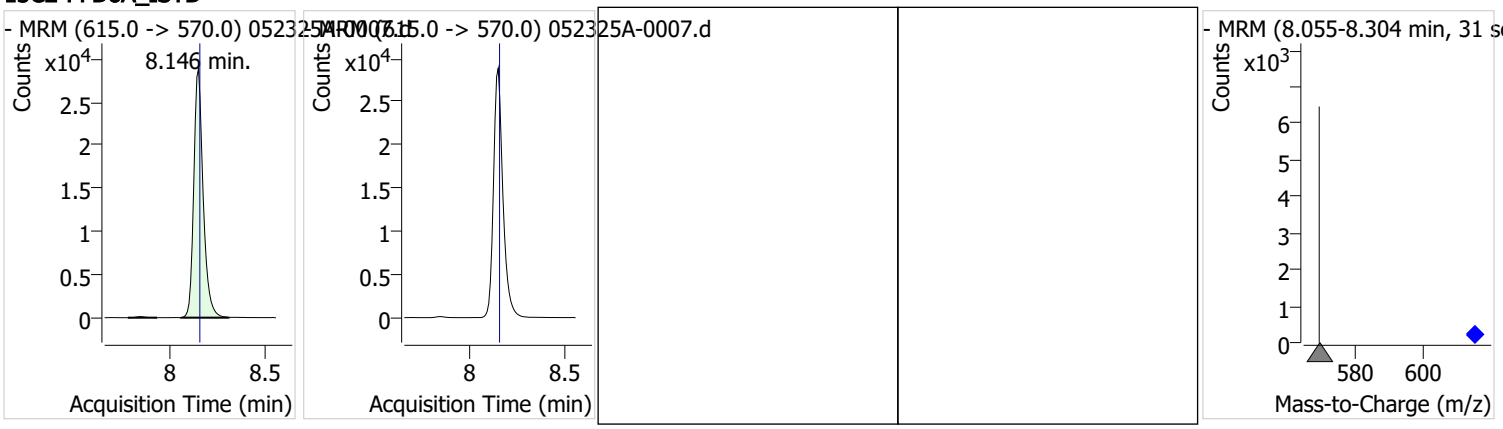
13C3-PFBS



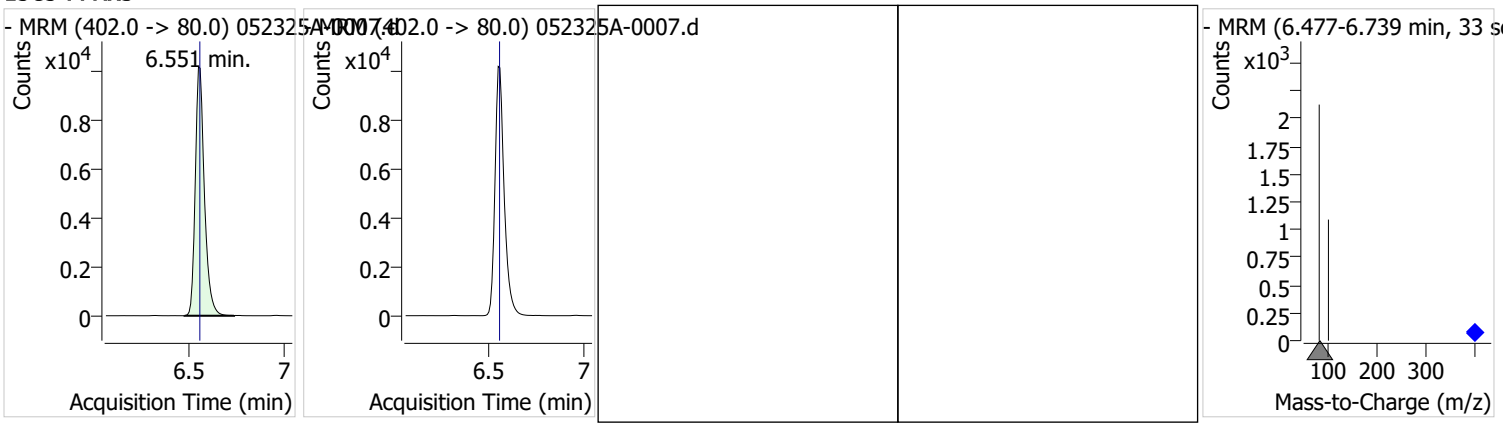




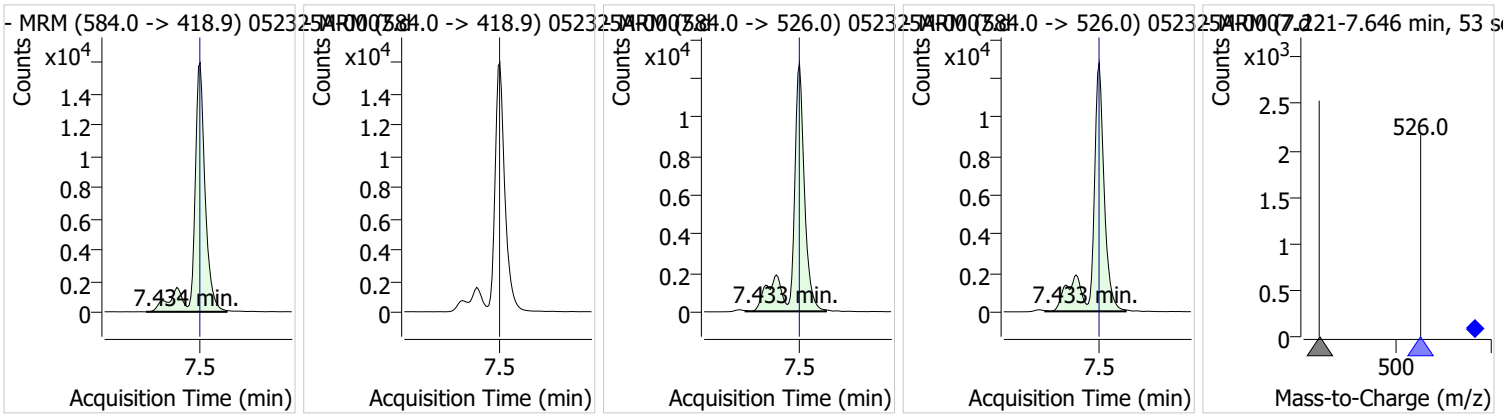
13C2-PFDoA_ISTD



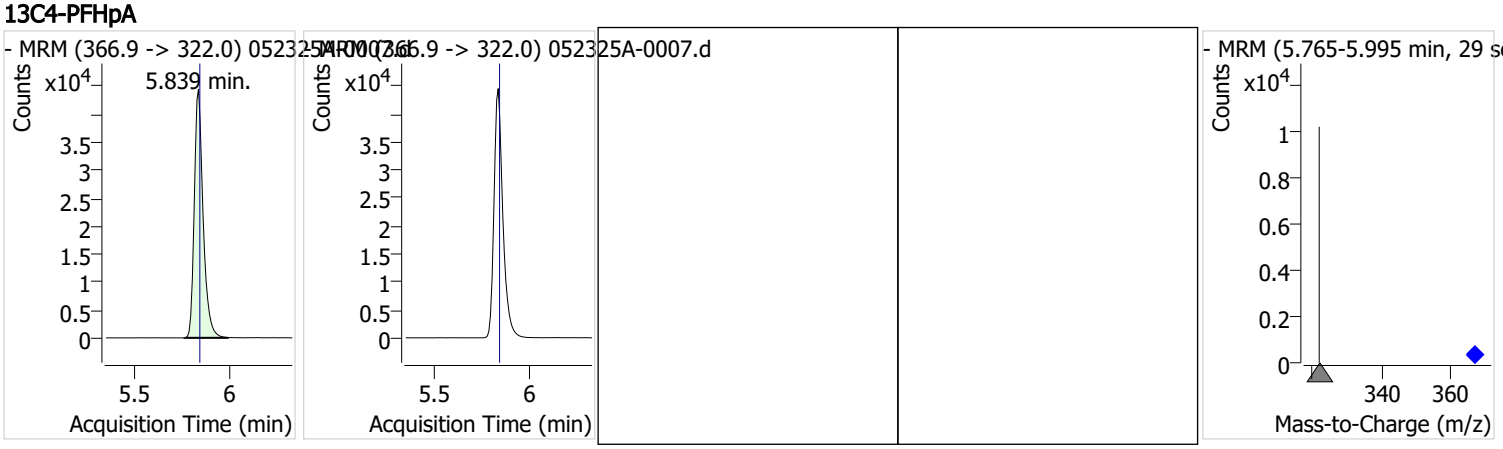
13C3-PFHxS



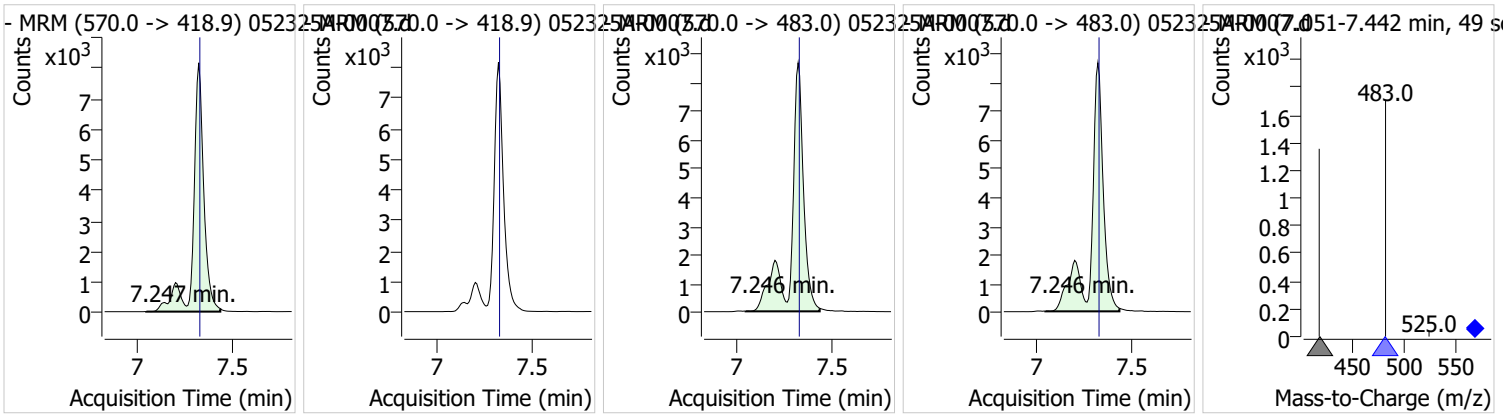
NEtFOSAA



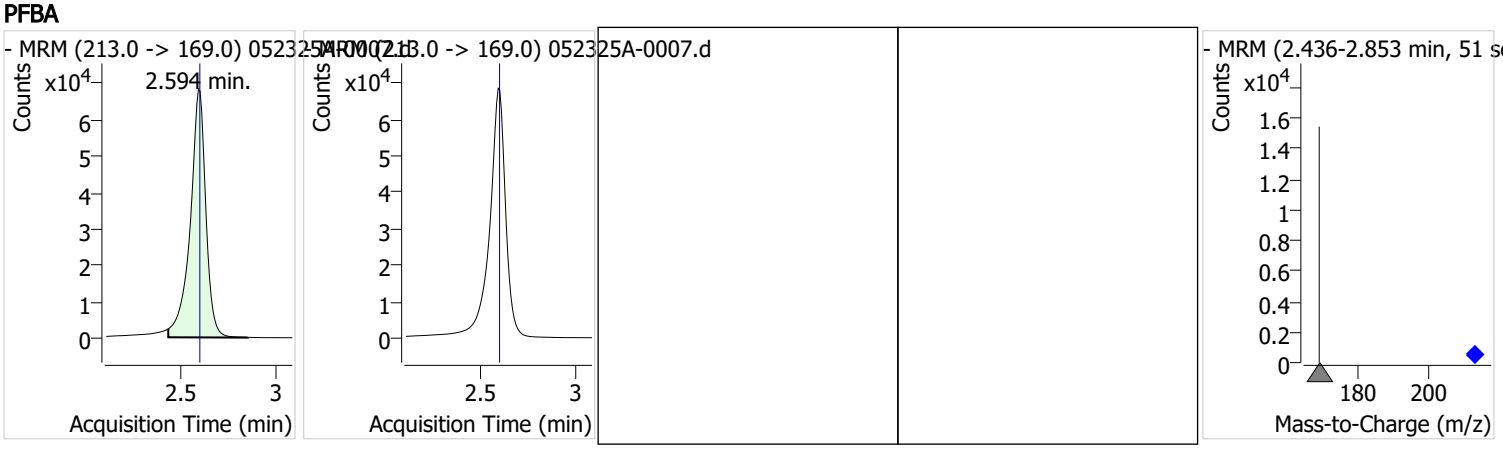
13C4-PFHpA



NMeFOSAA



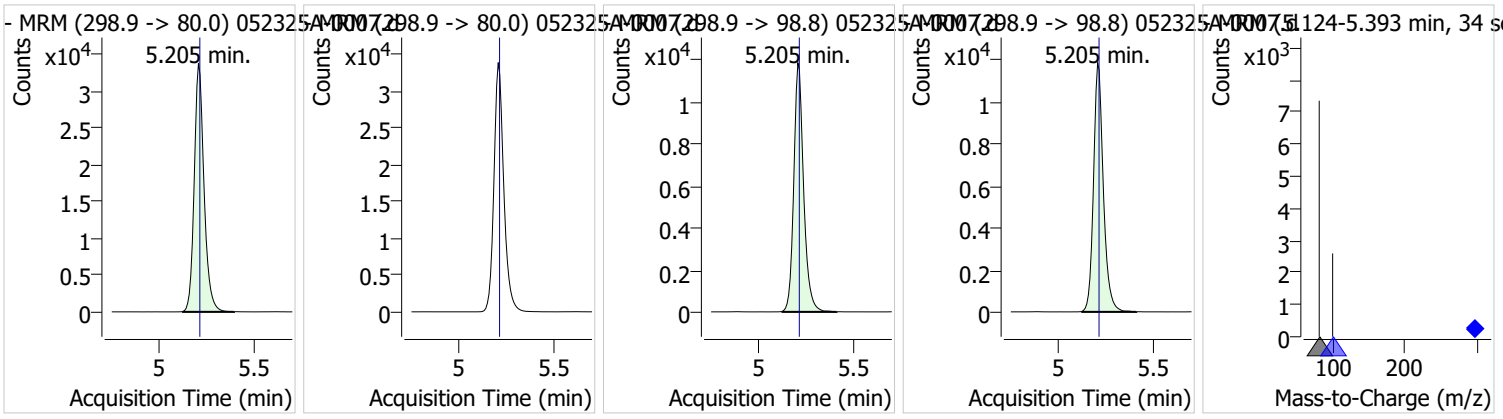
PFBA



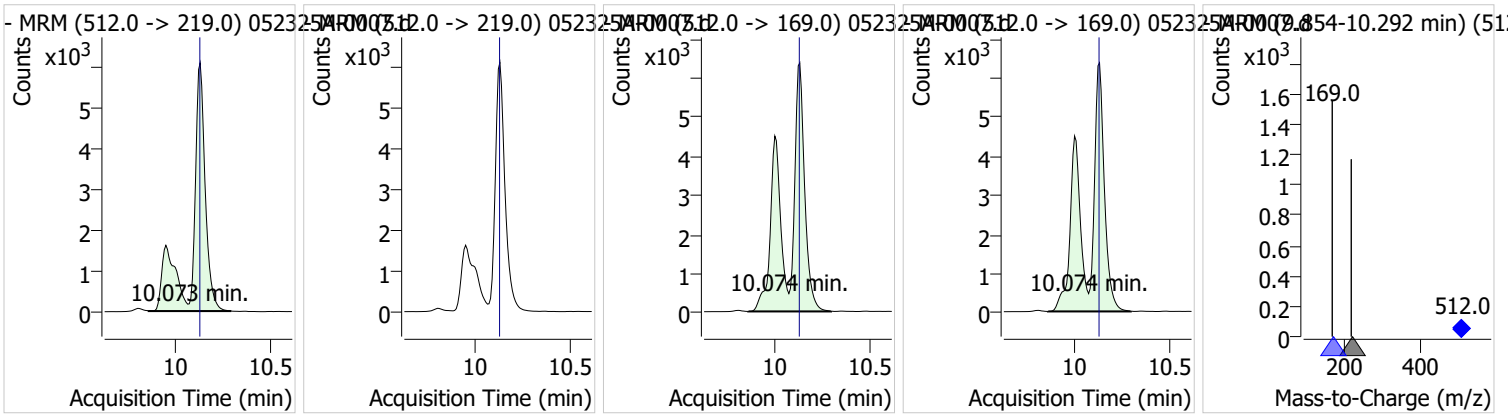
13C5-PFHxA



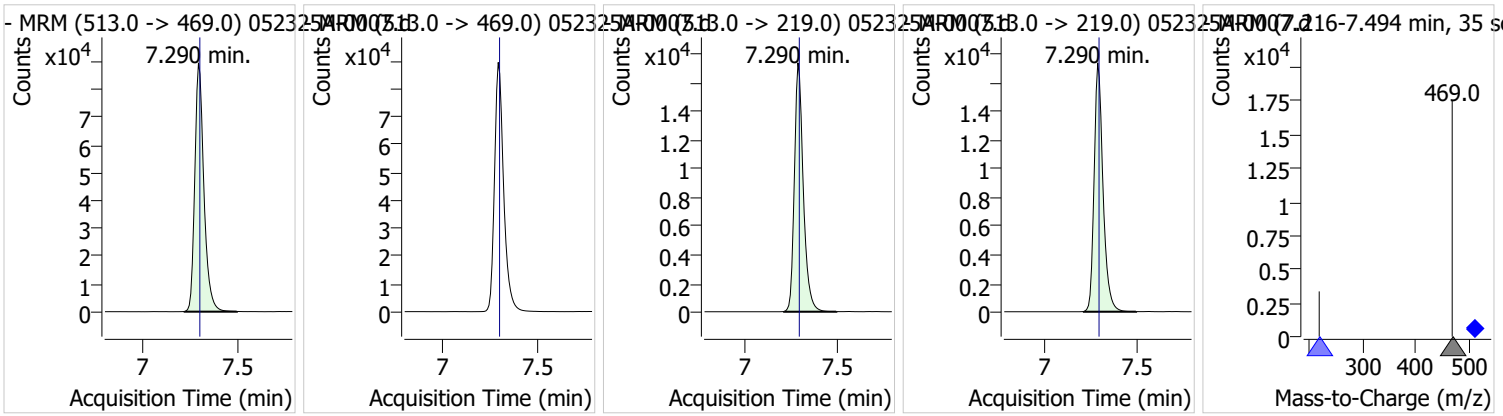
PFBS



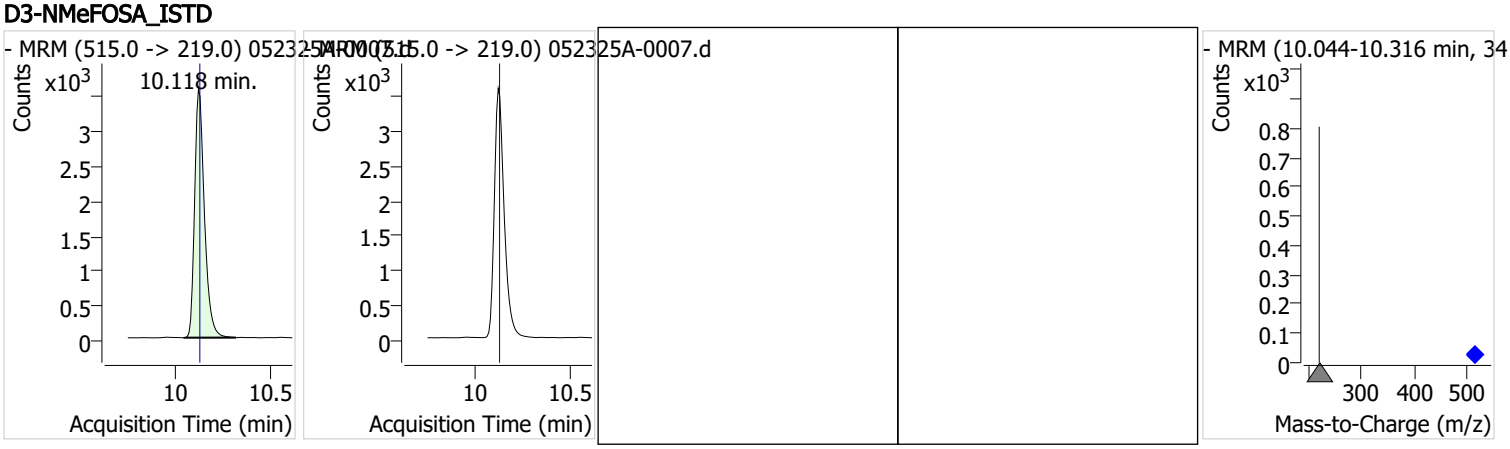
NMeFOSA



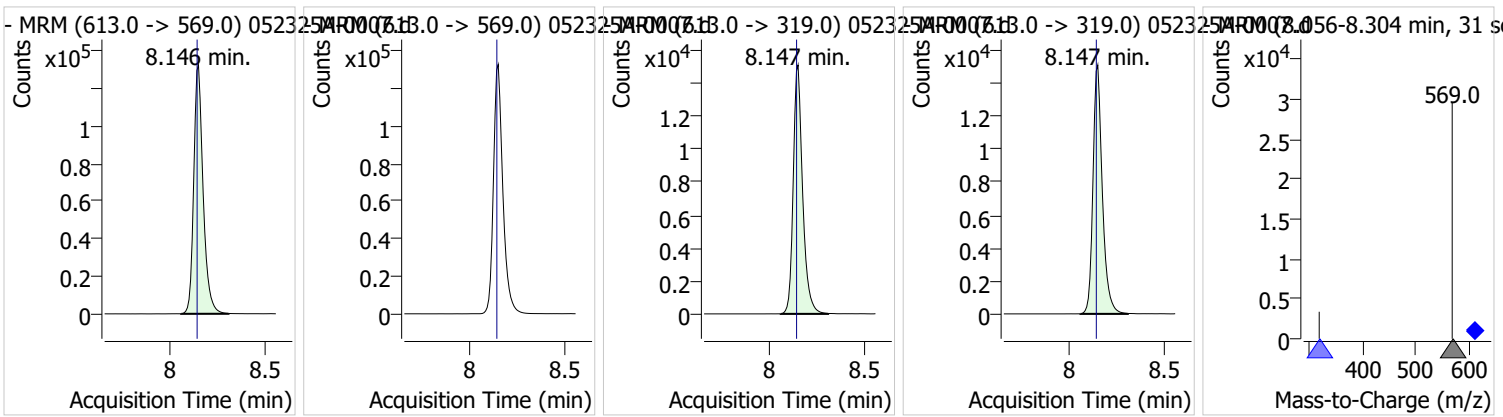
PFDA



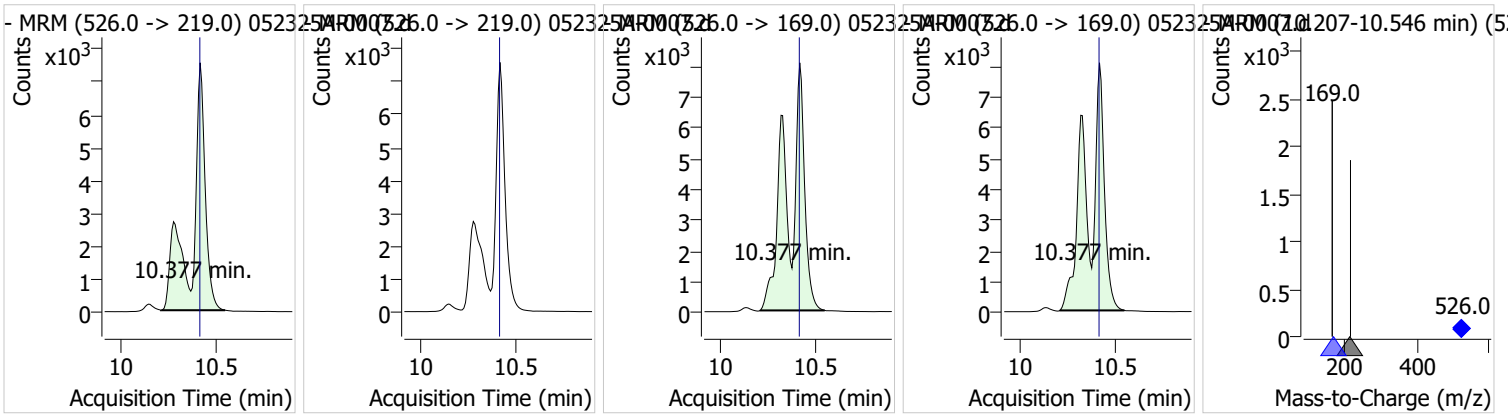
D3-NMeFOSA_ISTD



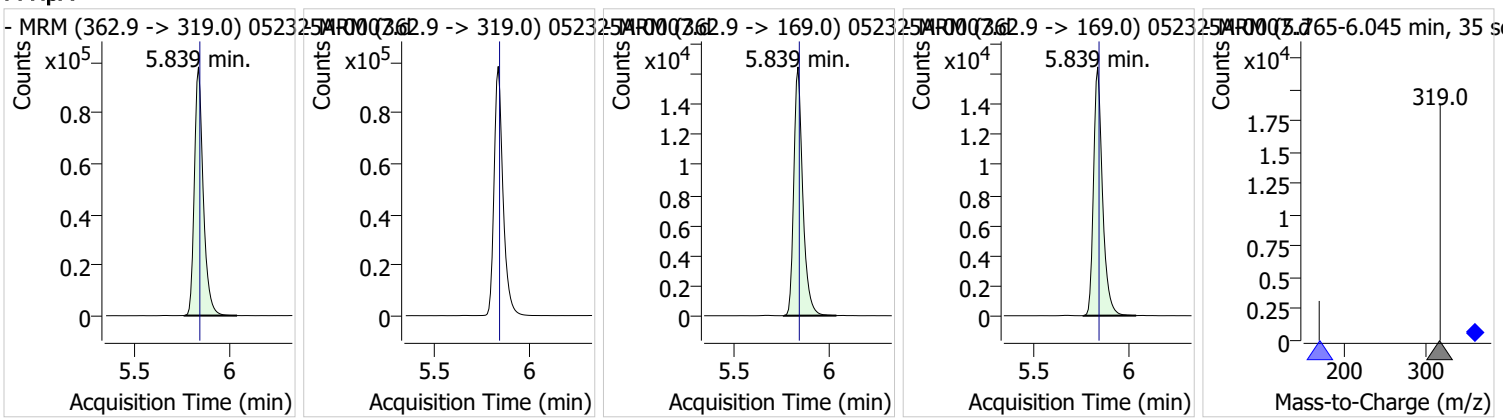
PFDoA



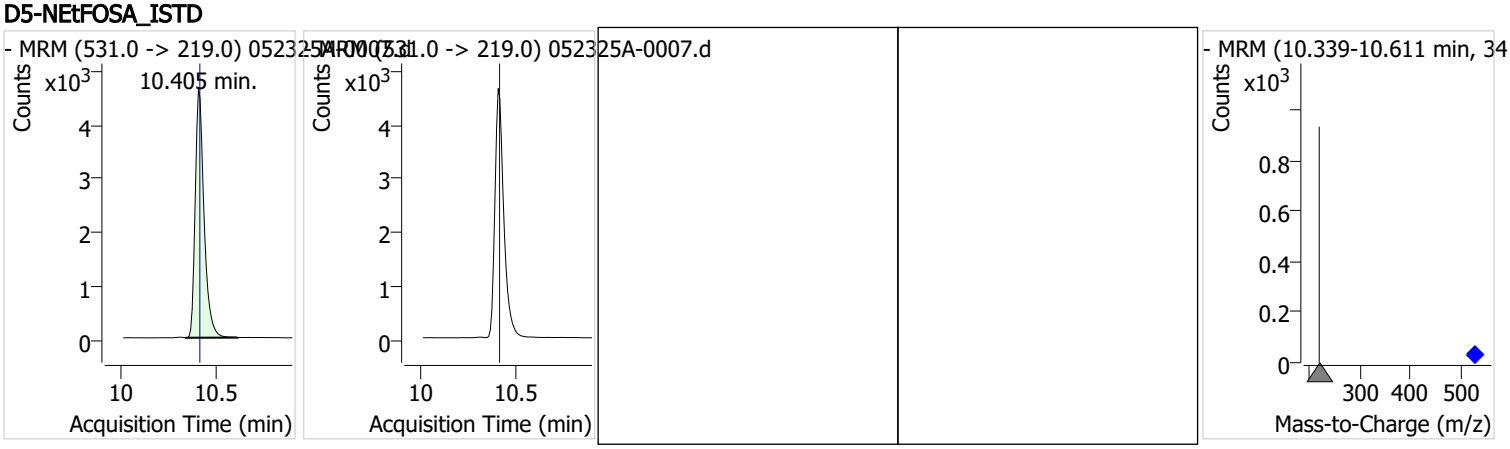
NEtFOSA



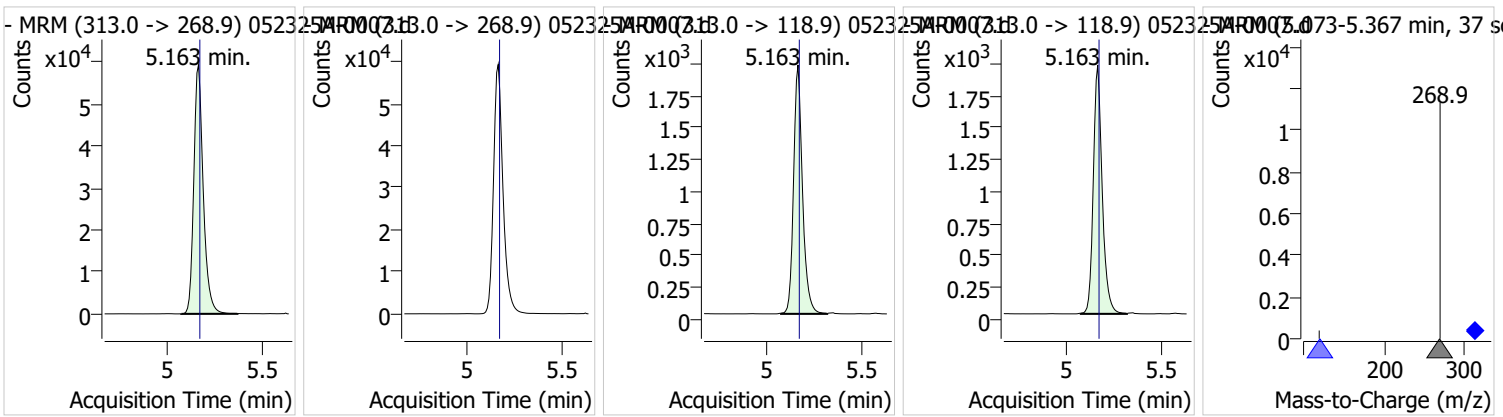
PFHpA



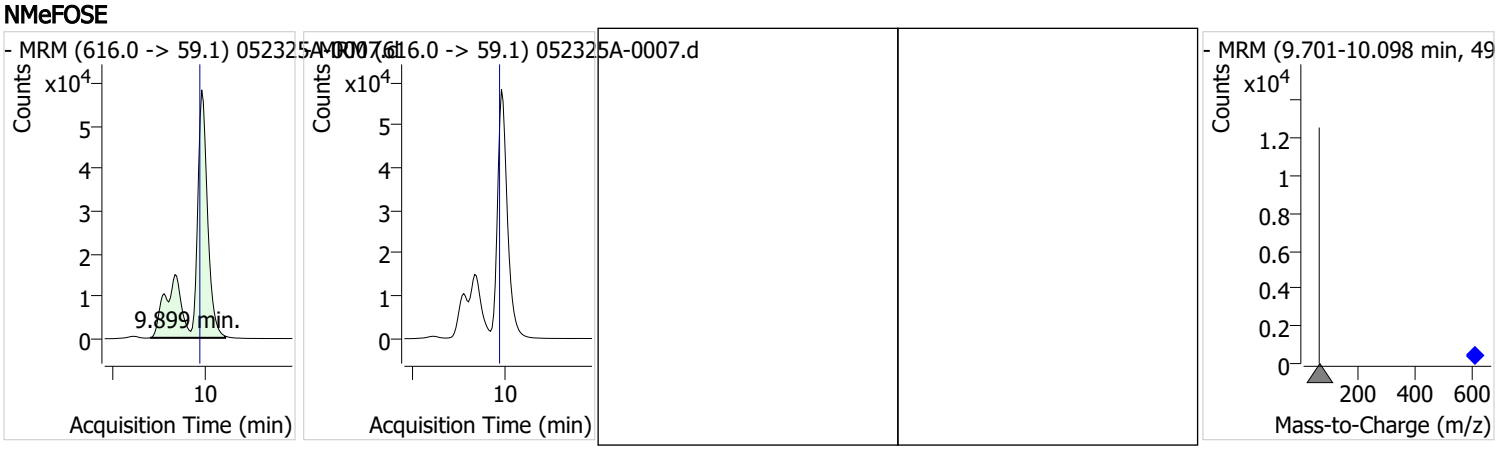
D5-NEtFOSA_ISTD



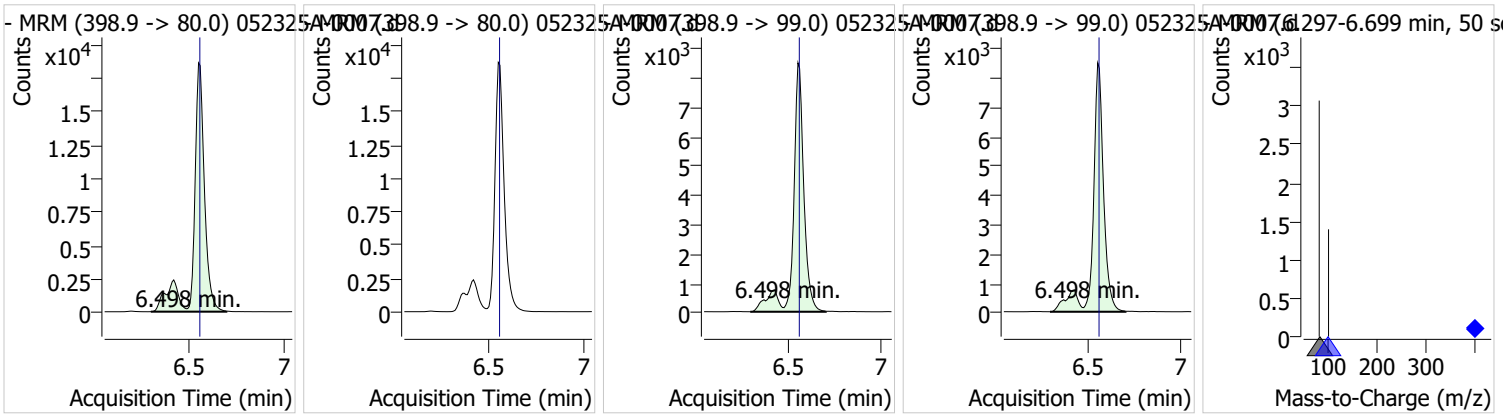
PFHxA



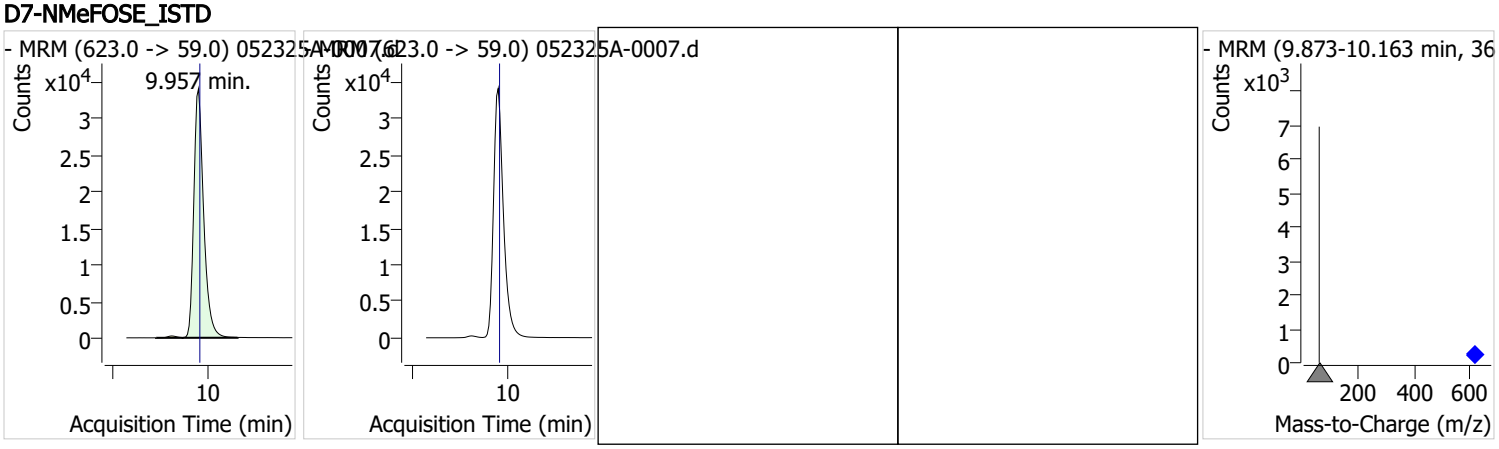
NMeFOSE



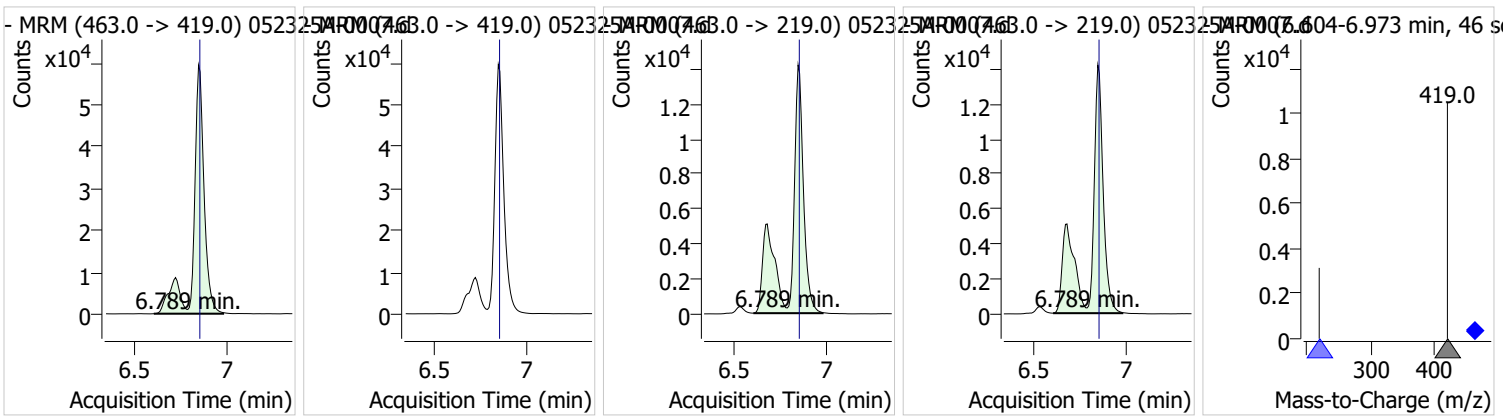
PFHxS



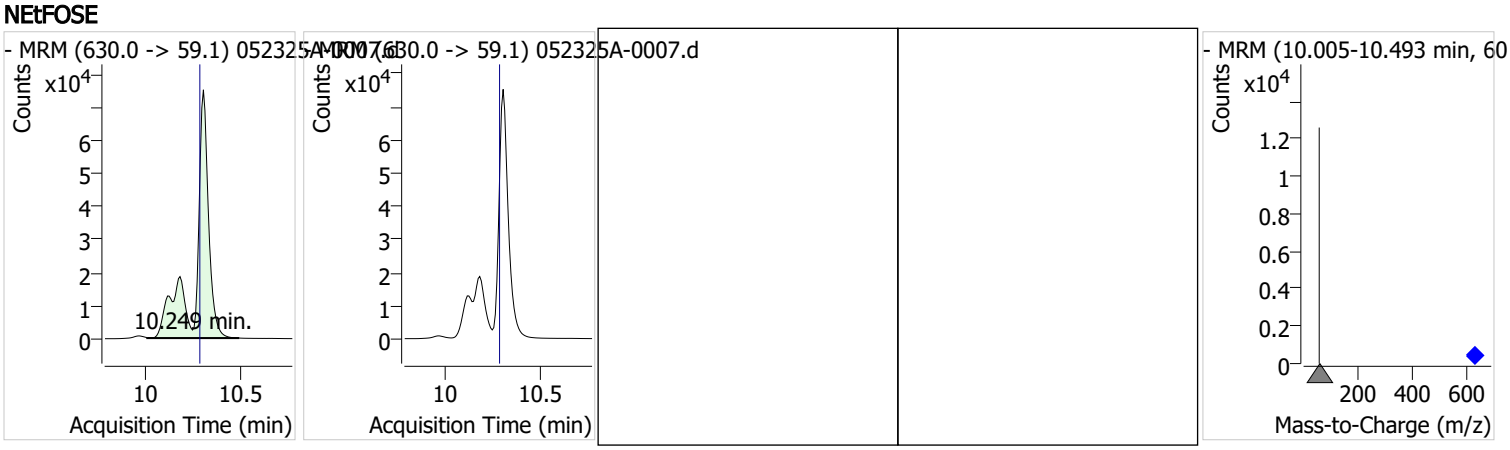
D7-NMeFOSE_ISTD



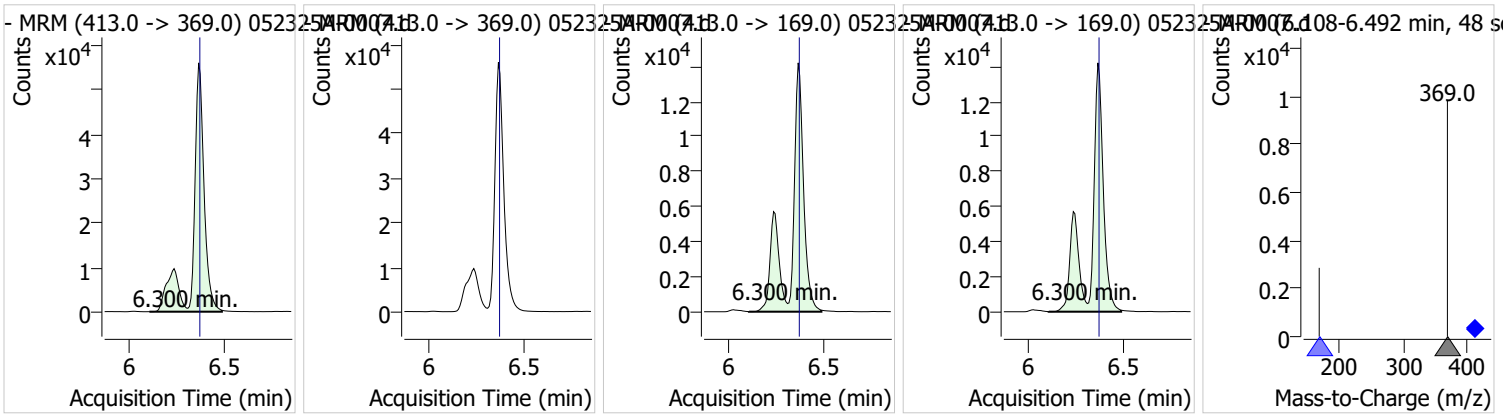
PFNA



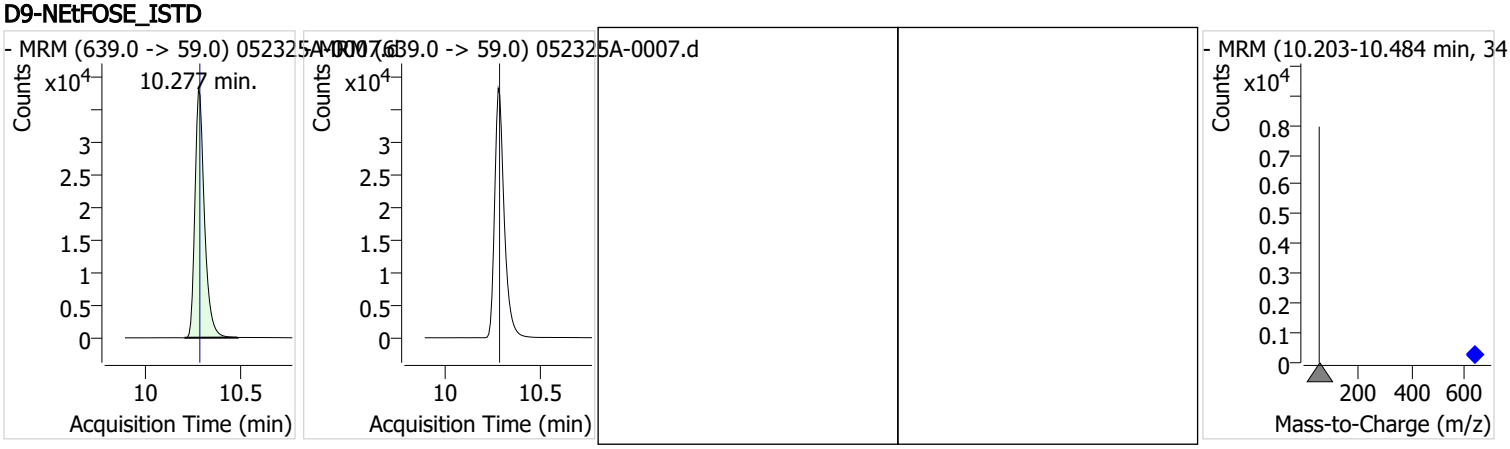
NEtFOSE



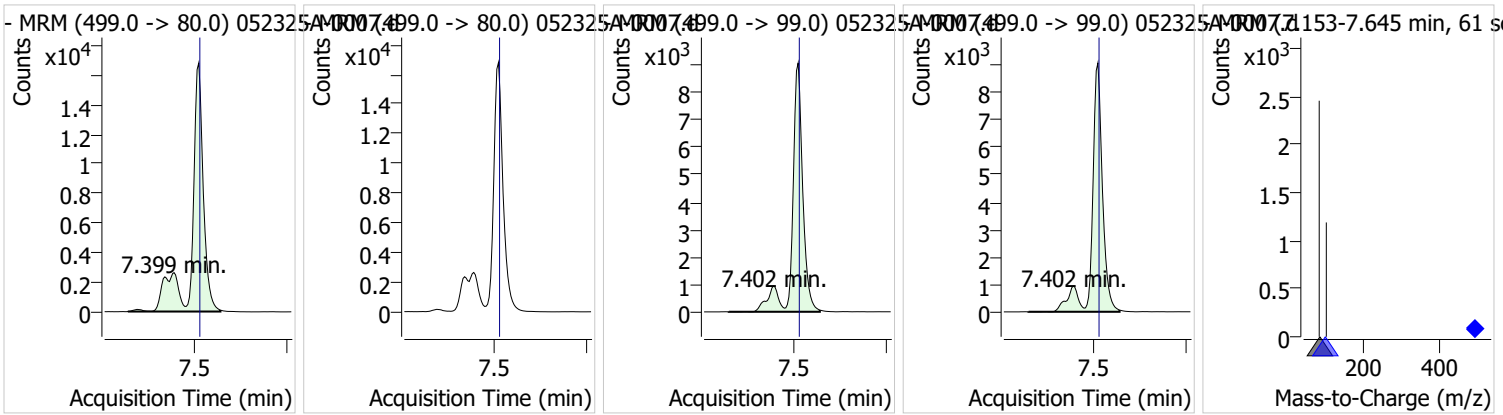
PFOA



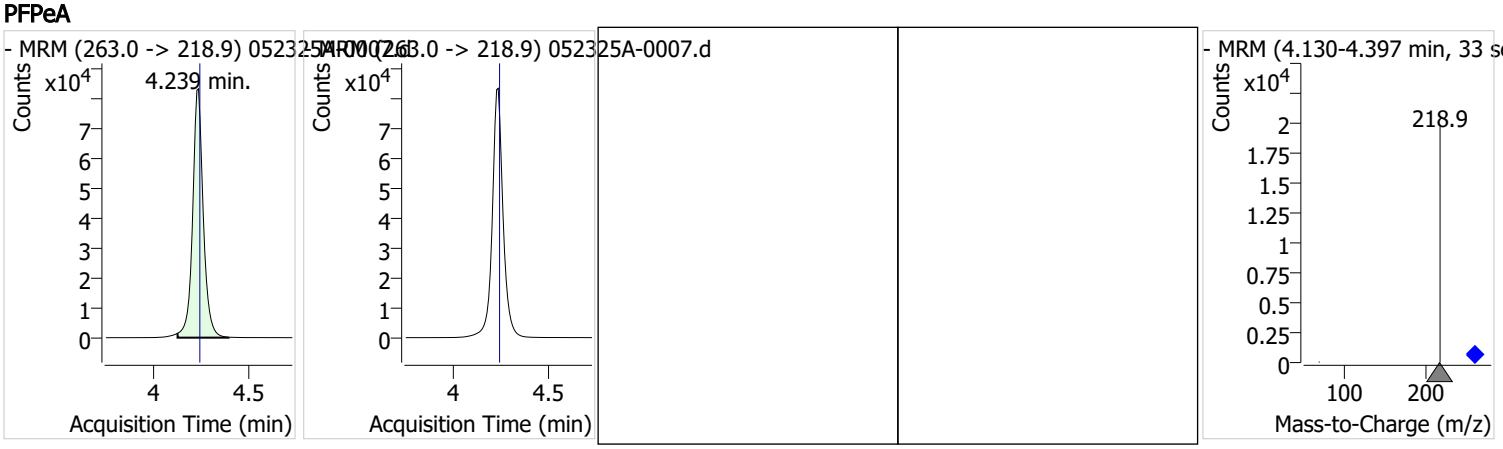
D9-NEtFOSE_ISTD



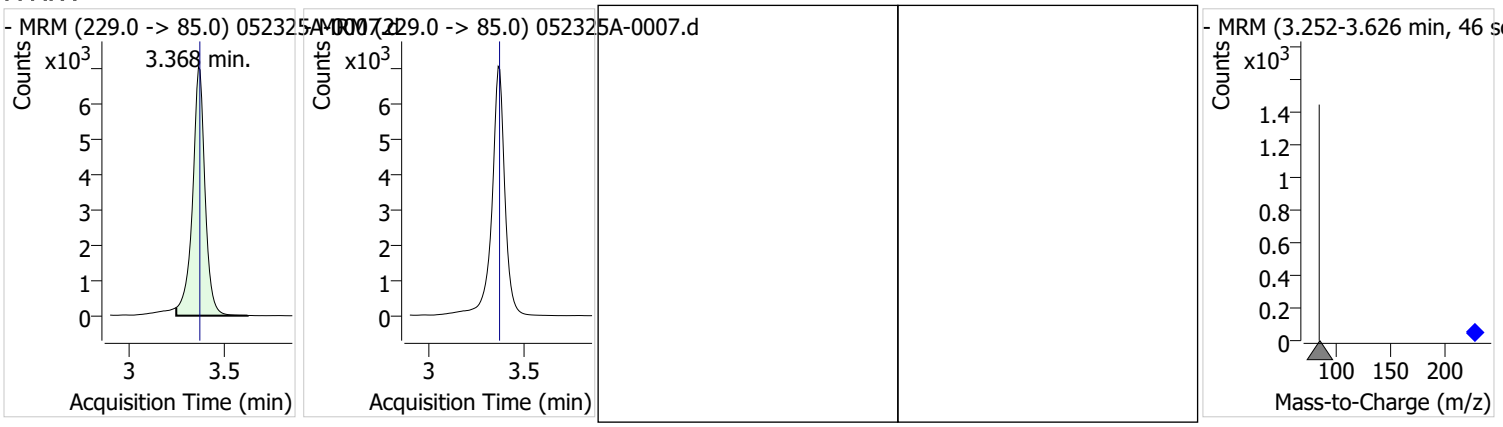
PFOS



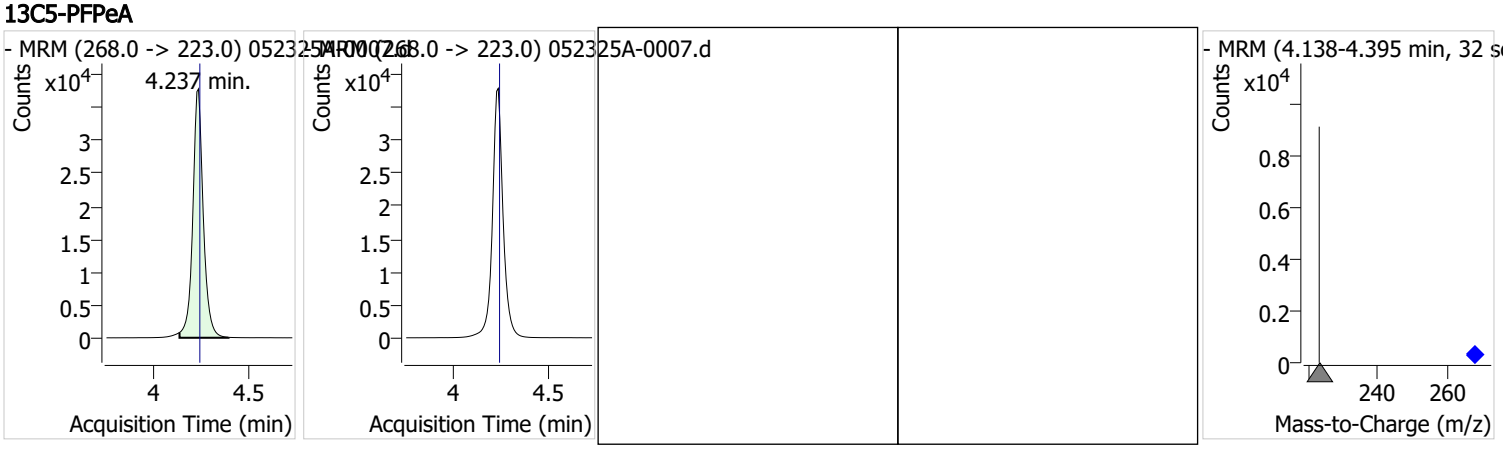
PFPeA



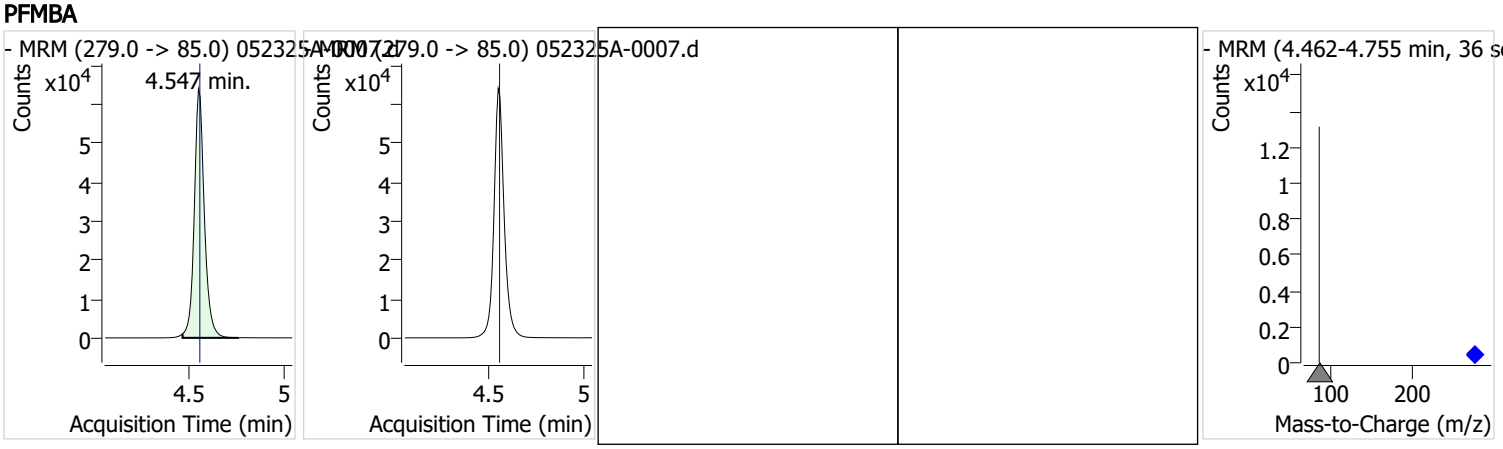
PFMPA



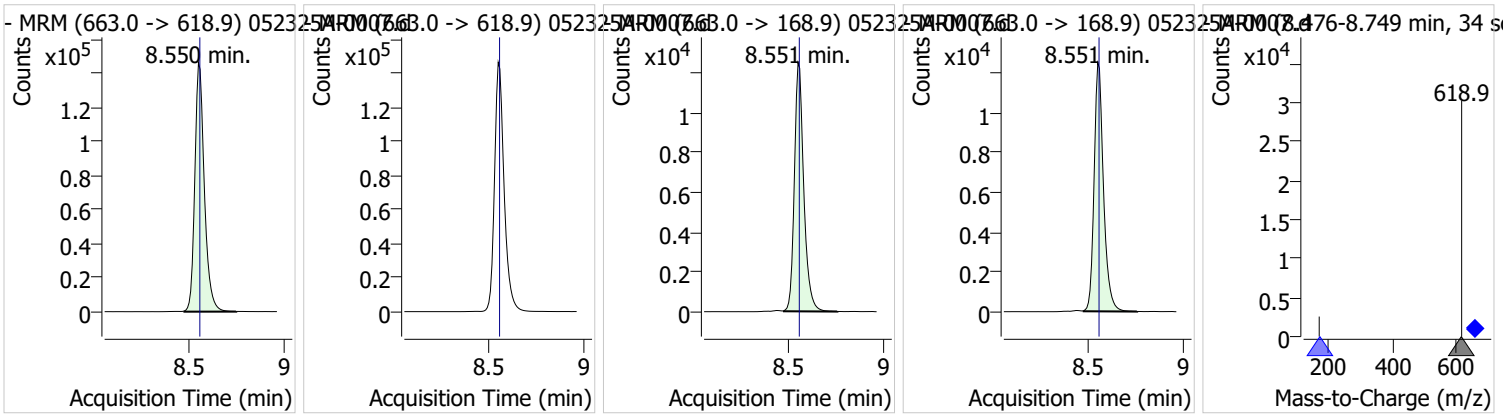
13C5-PFPeA



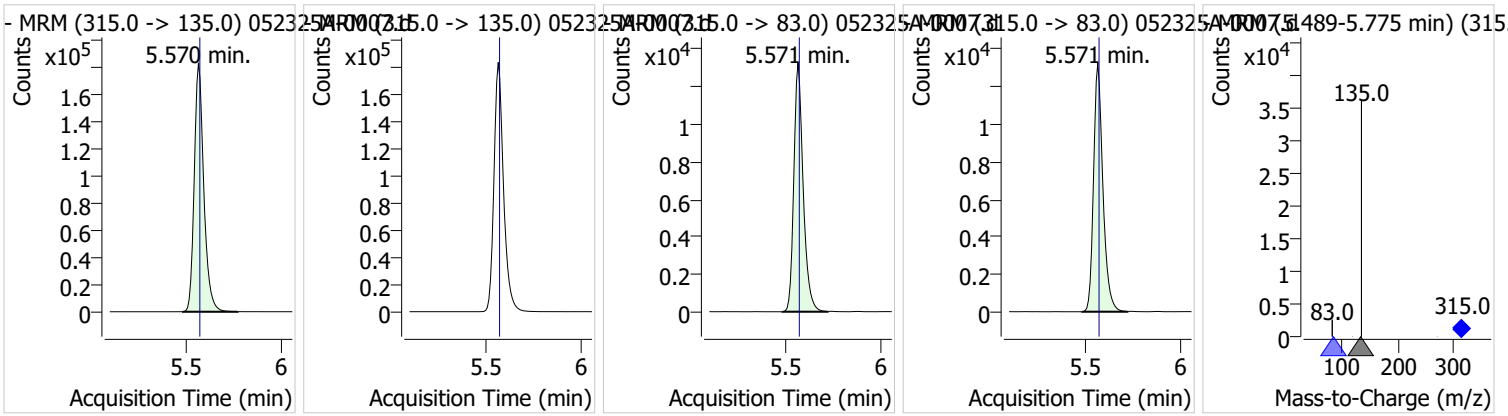
PFMBA



PFTrDA



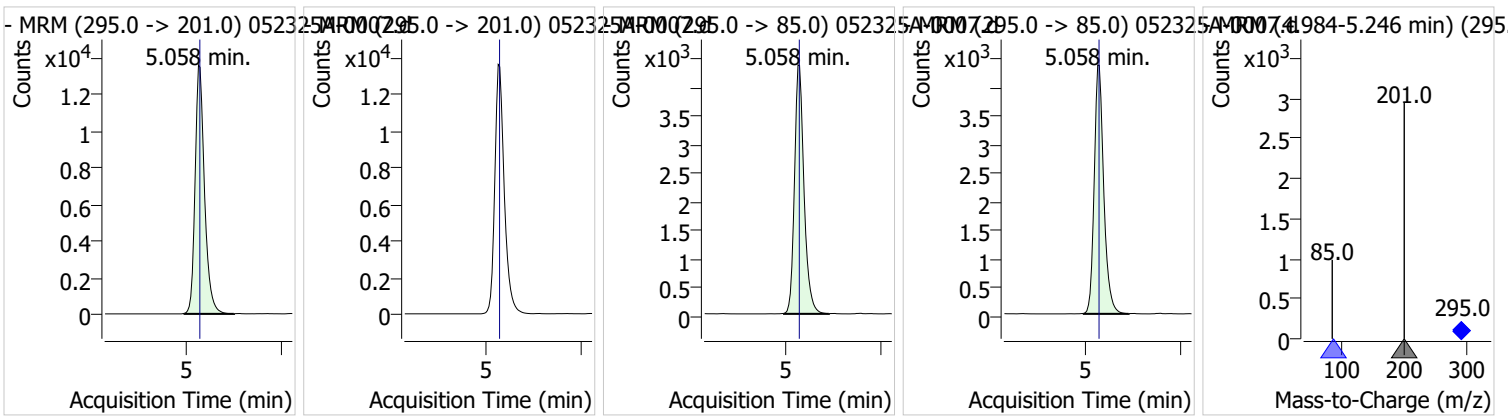
PFEESA



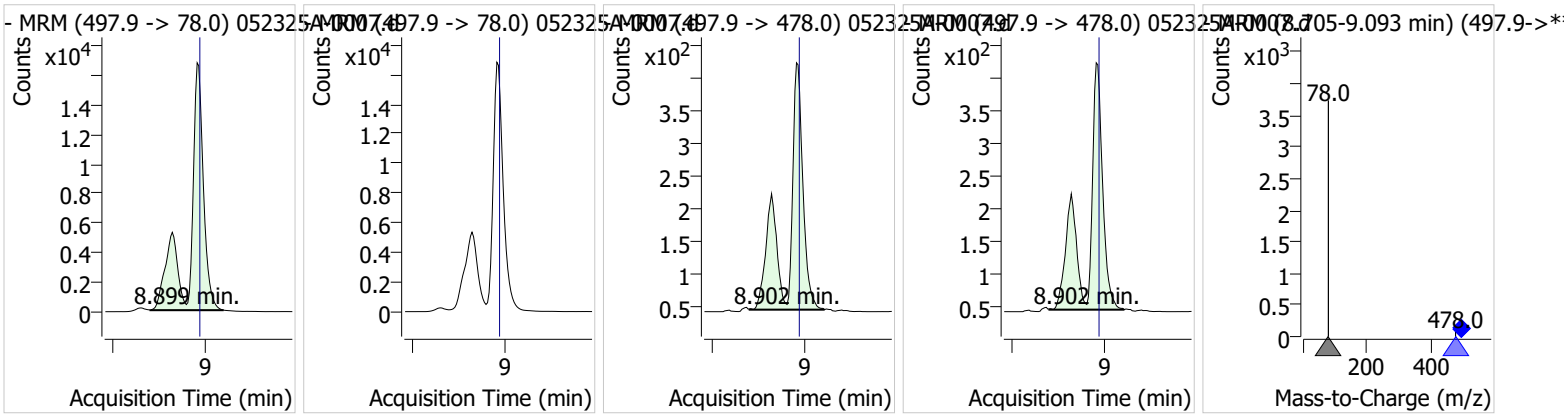
13C6-PFDA



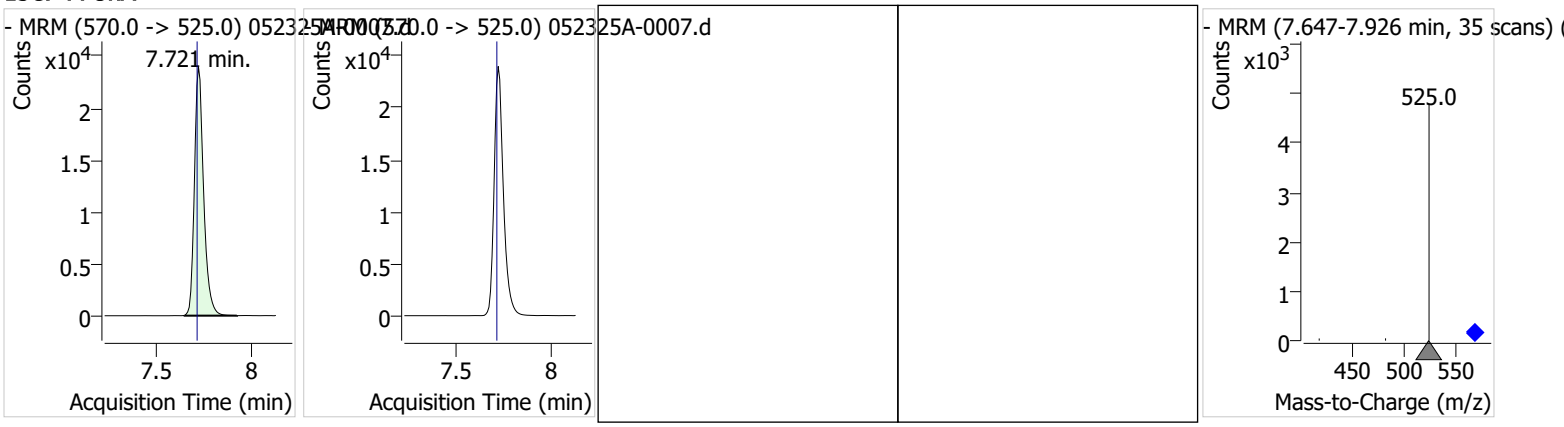
NFDHA



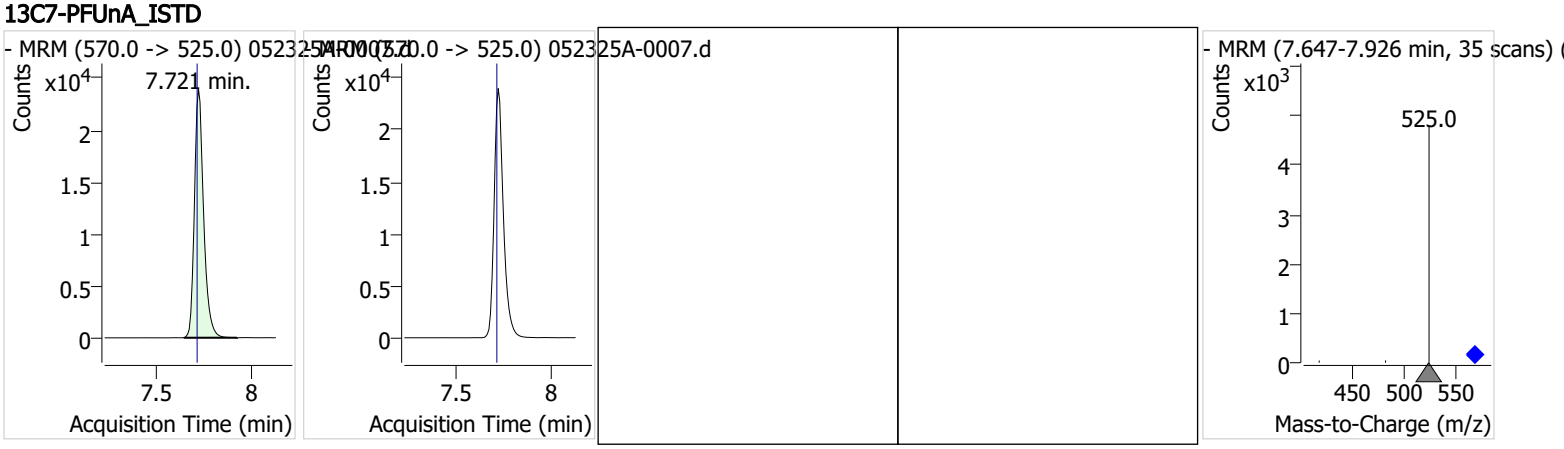
PFOSA



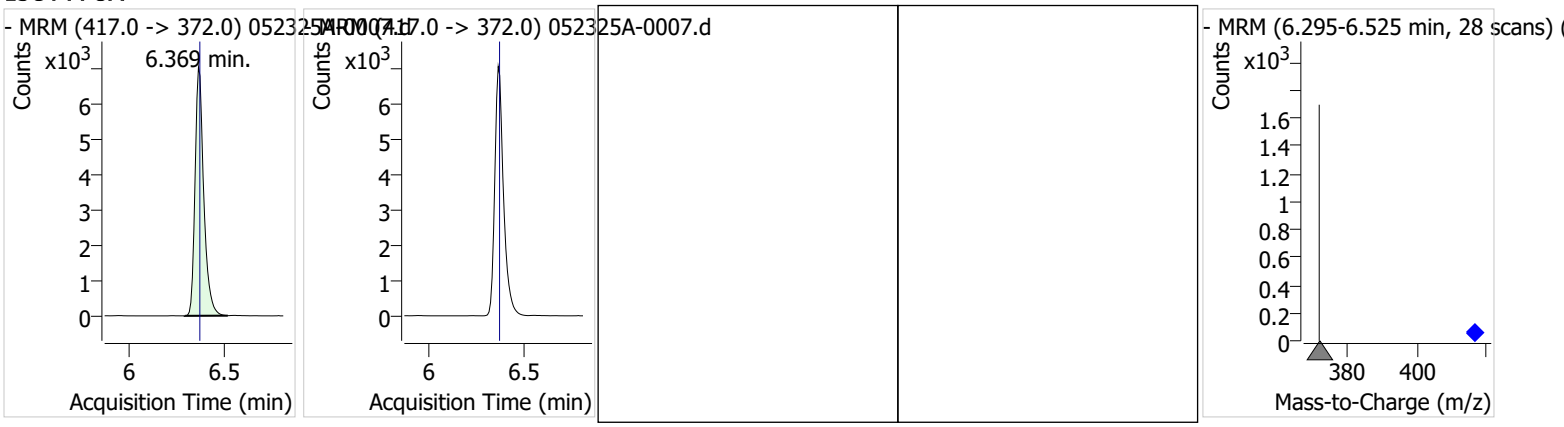
13C7-PFUnA



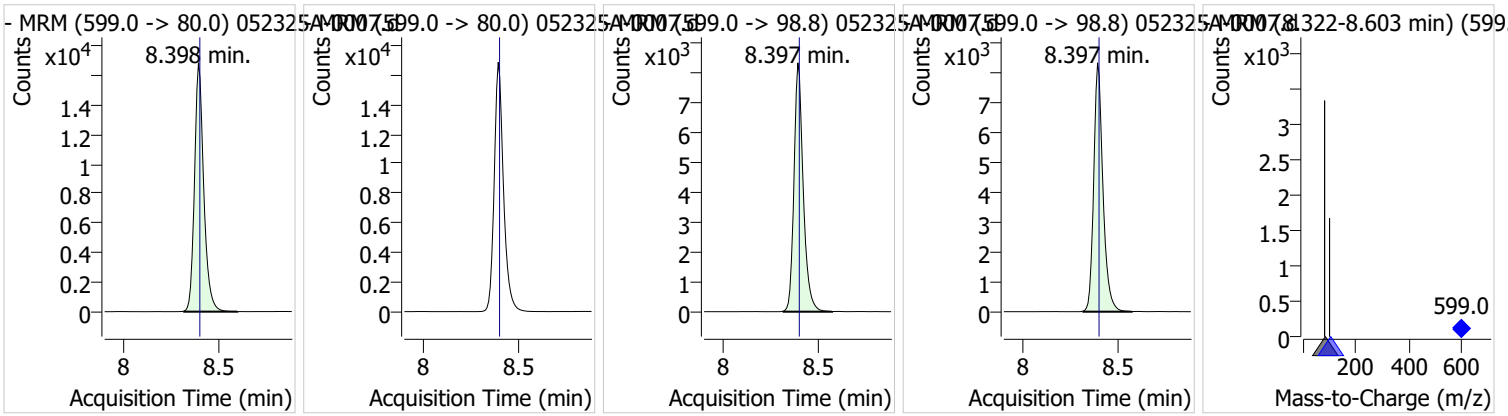
13C7-PFUnA_ISTD



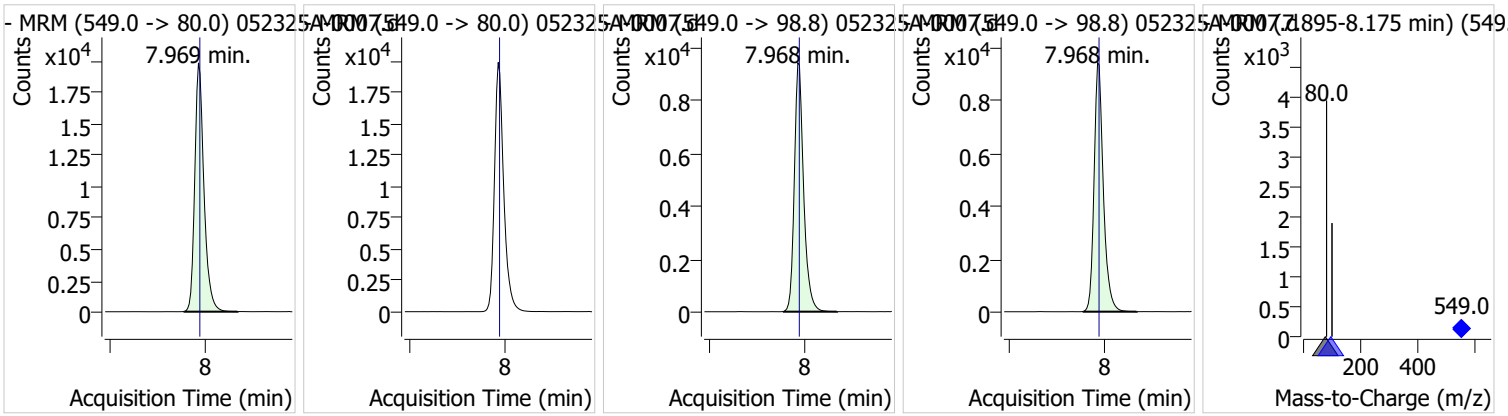
13C4-PFOA



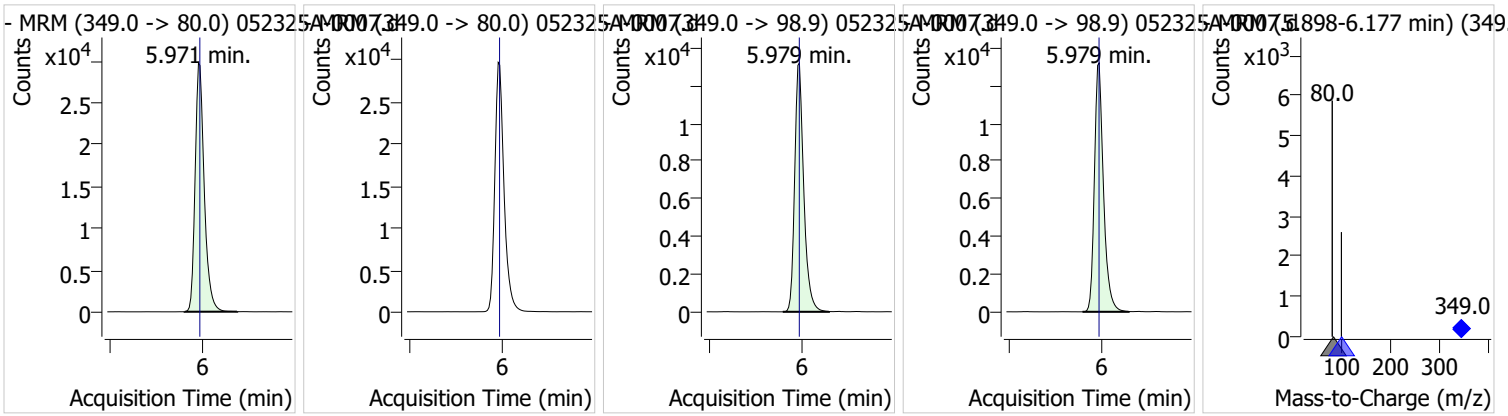
PFDS



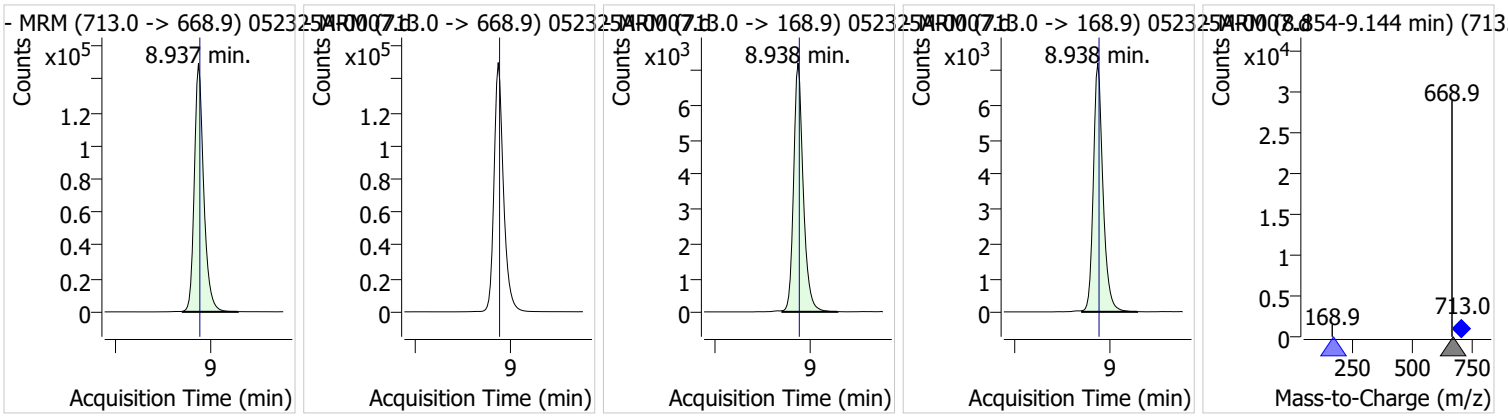
PFNS



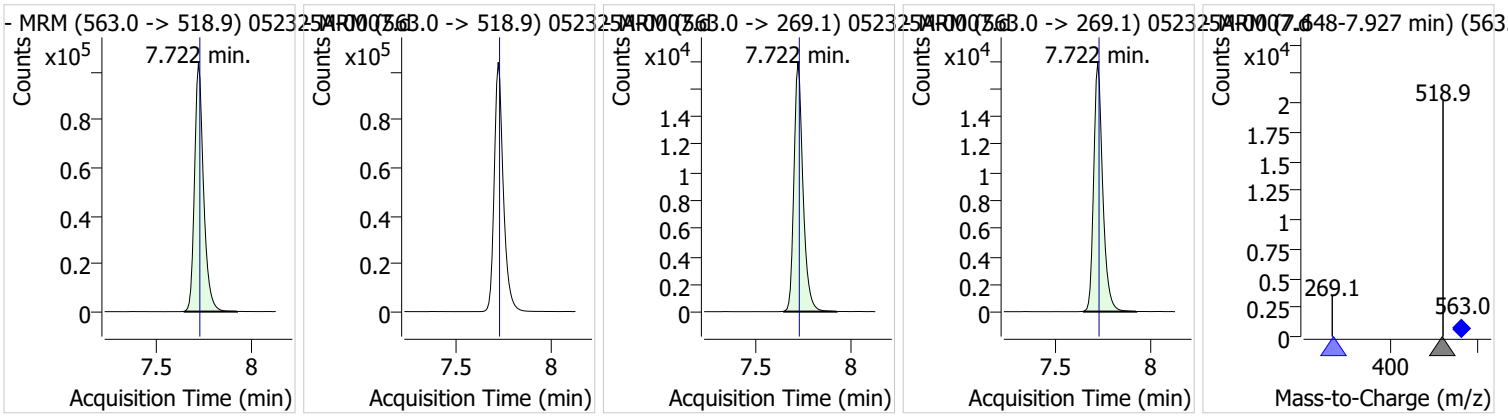
PFPeS



PFTeDA



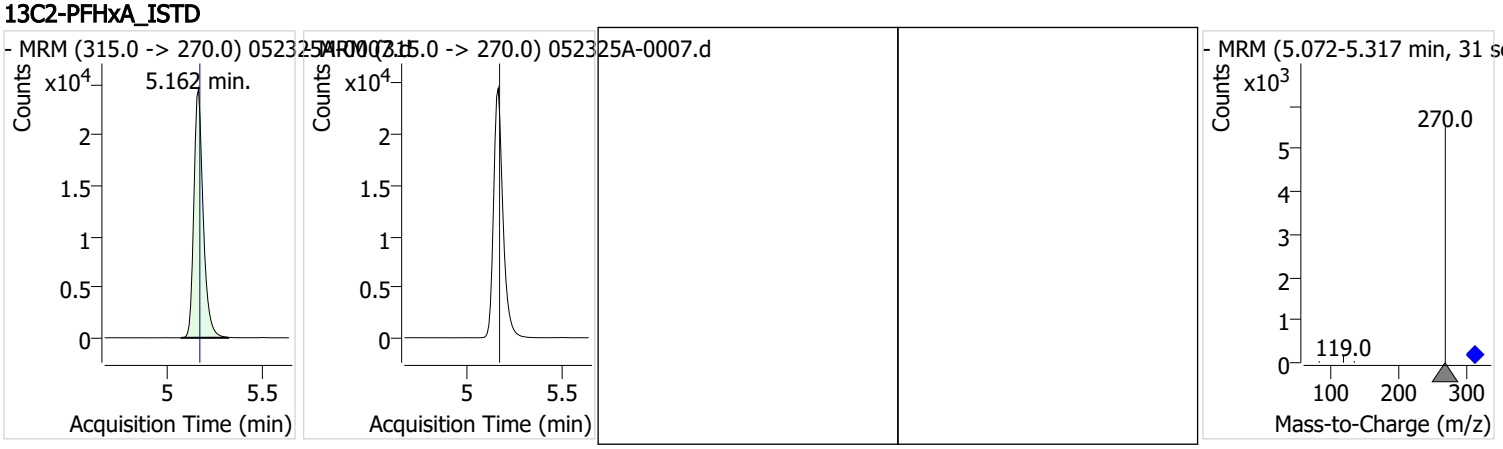
PFUnA



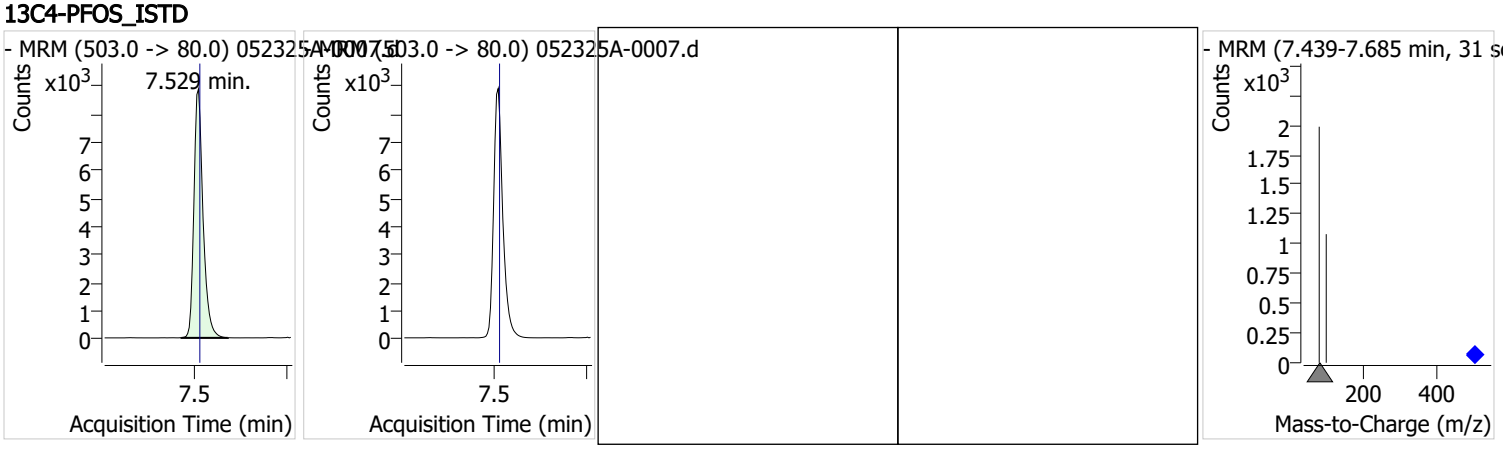
13C2-PFDA_ISTD



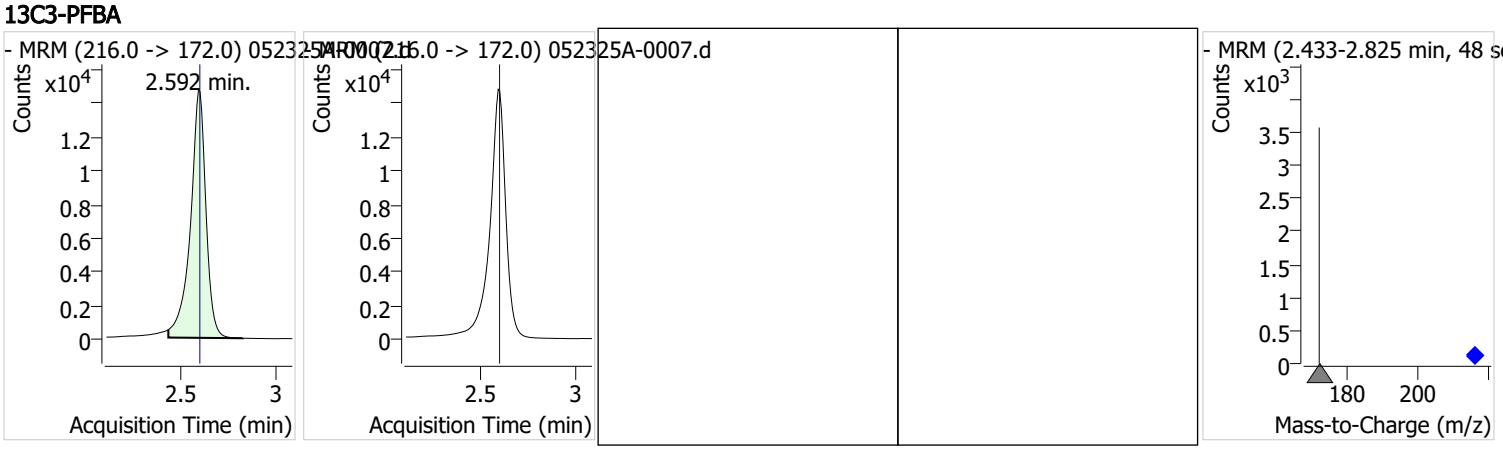
13C2-PFHxA_ISTD



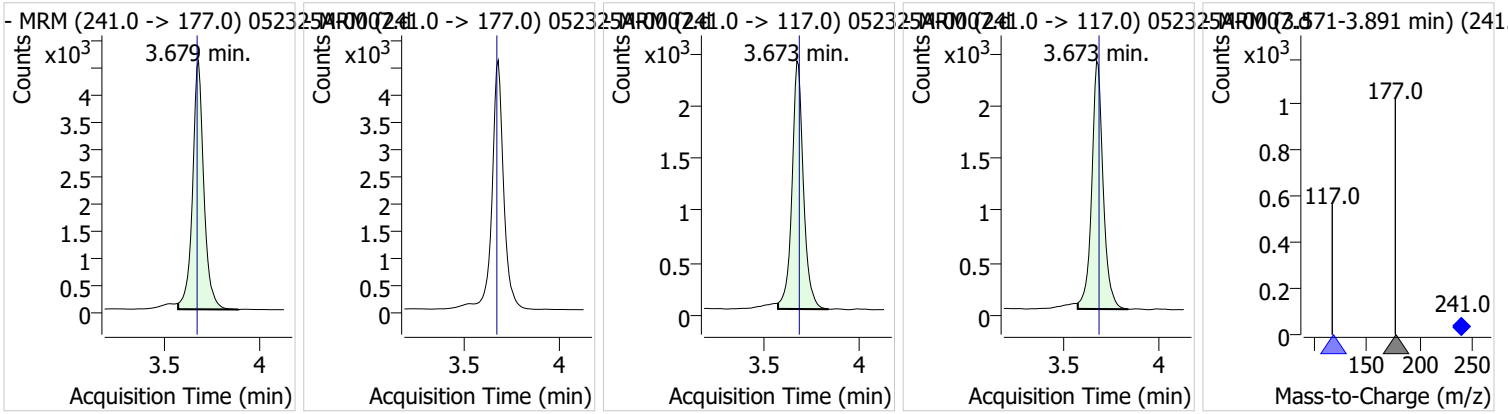
13C4-PFOS_ISTD



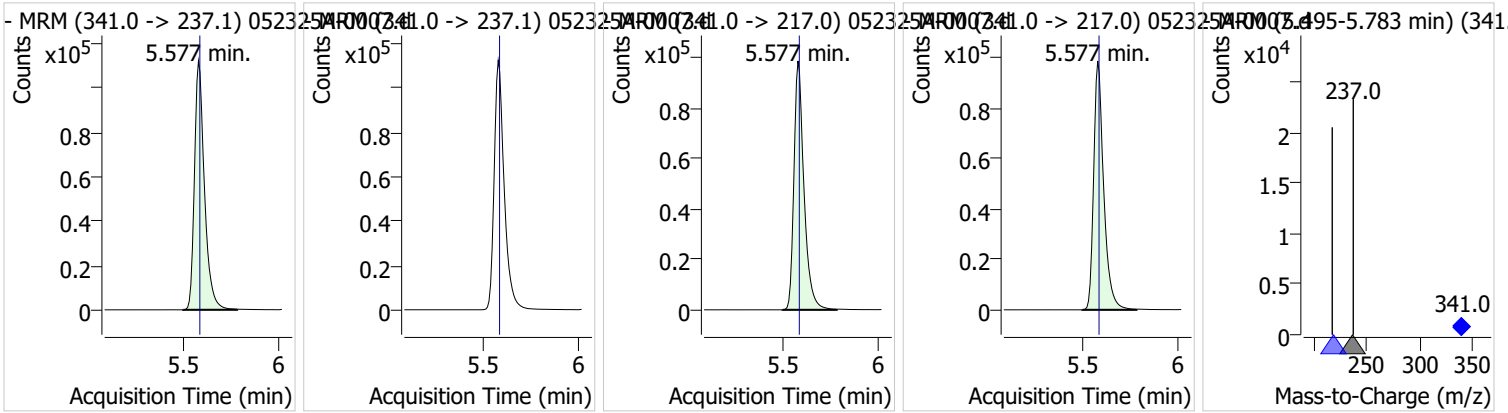
13C3-PFBA



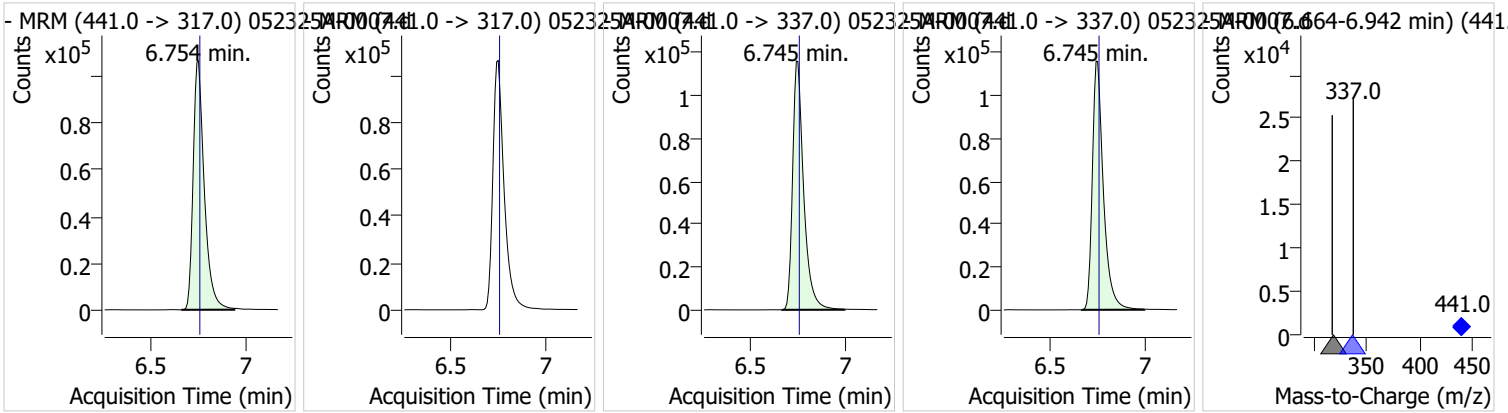
3:3FTCA



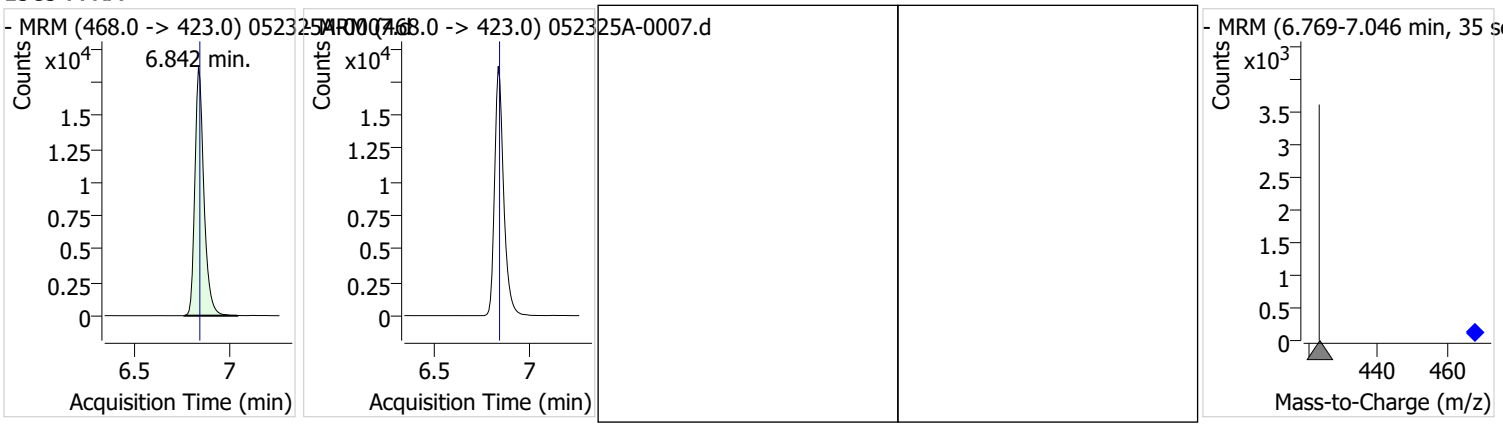
5:3FTCA



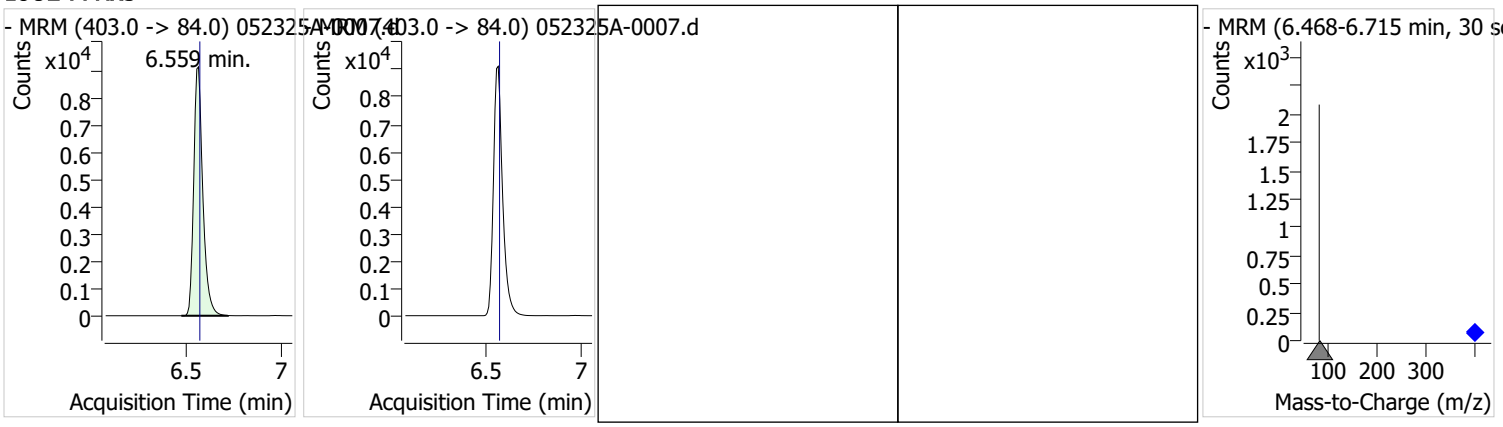
7:3FTCA



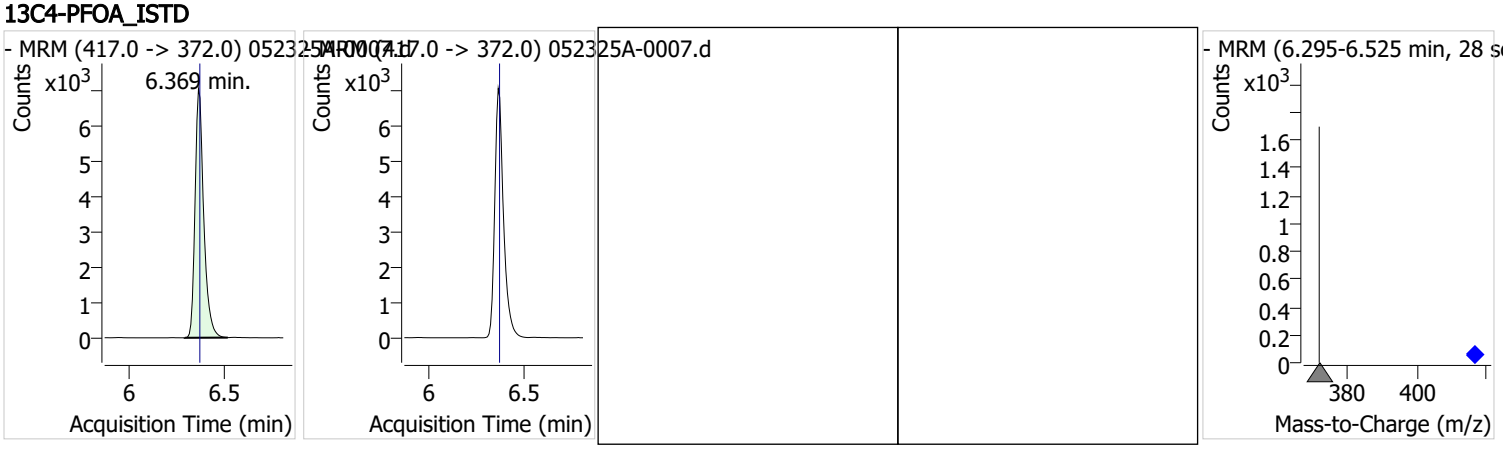
13C5-PFNA



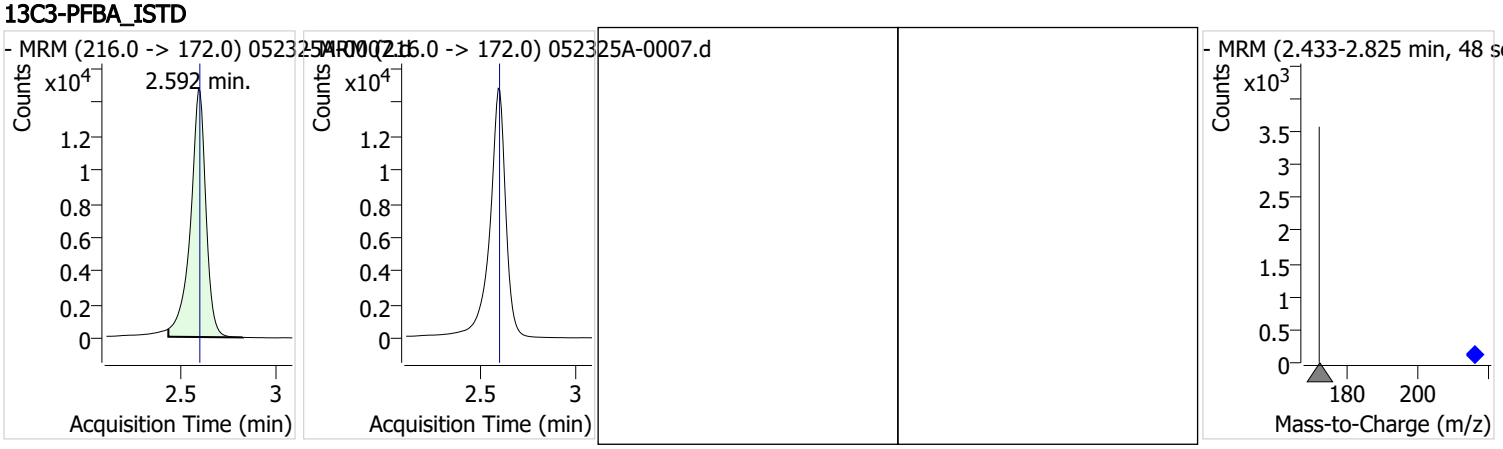
18O2-PFHxS



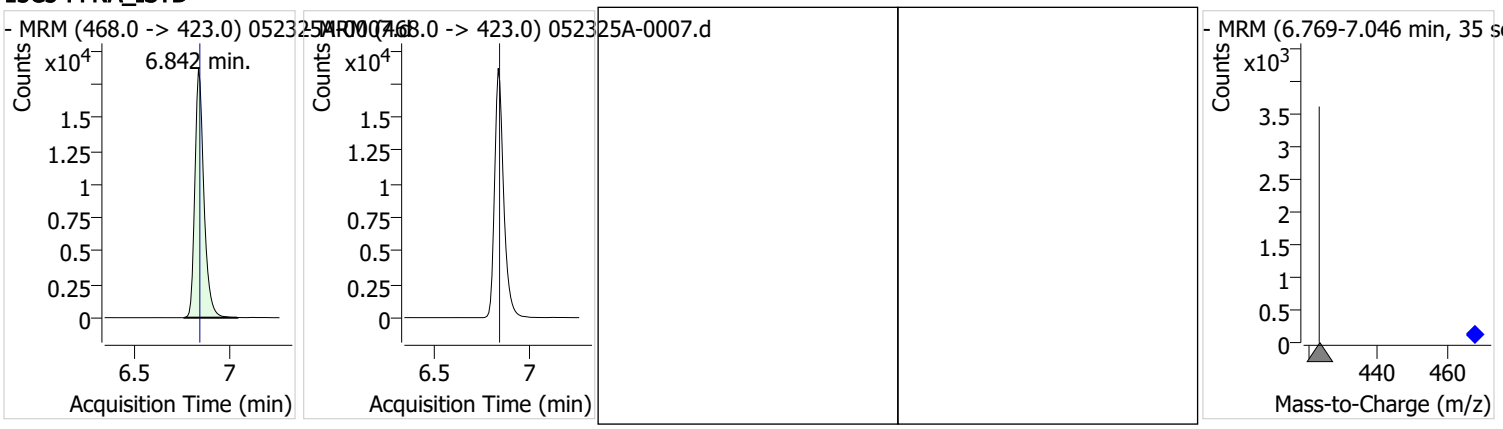
13C4-PFOA_ISTD



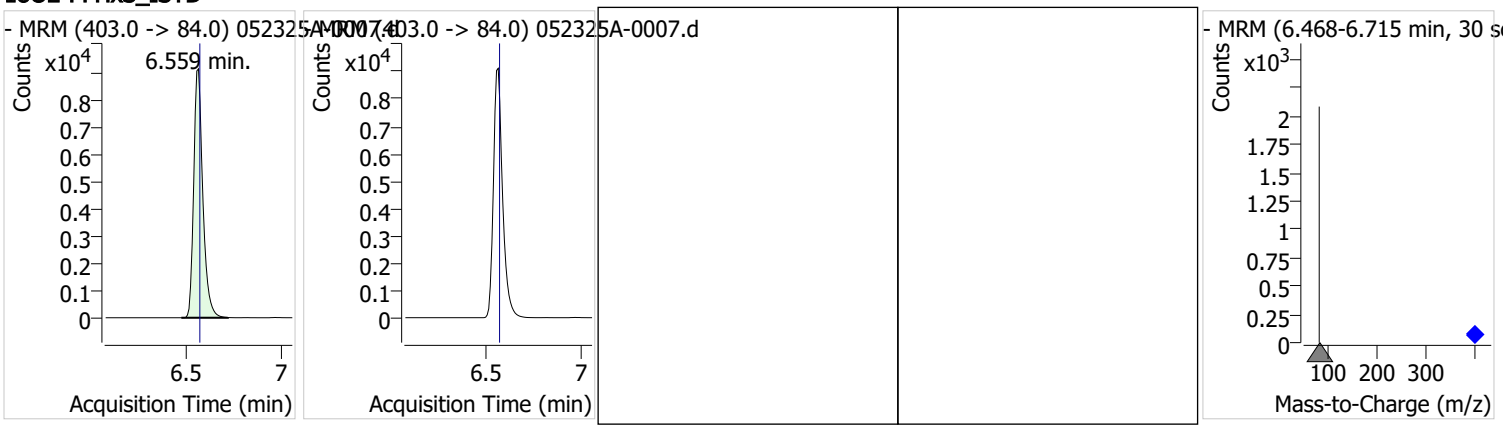
13C3-PFBA_ISTD



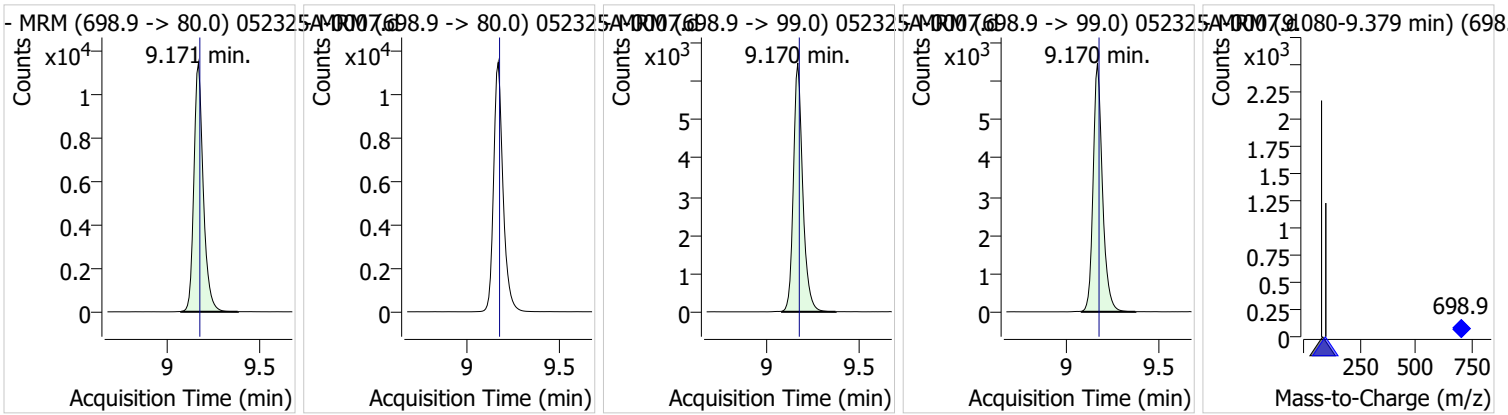
13C5-PFNA_ISTD



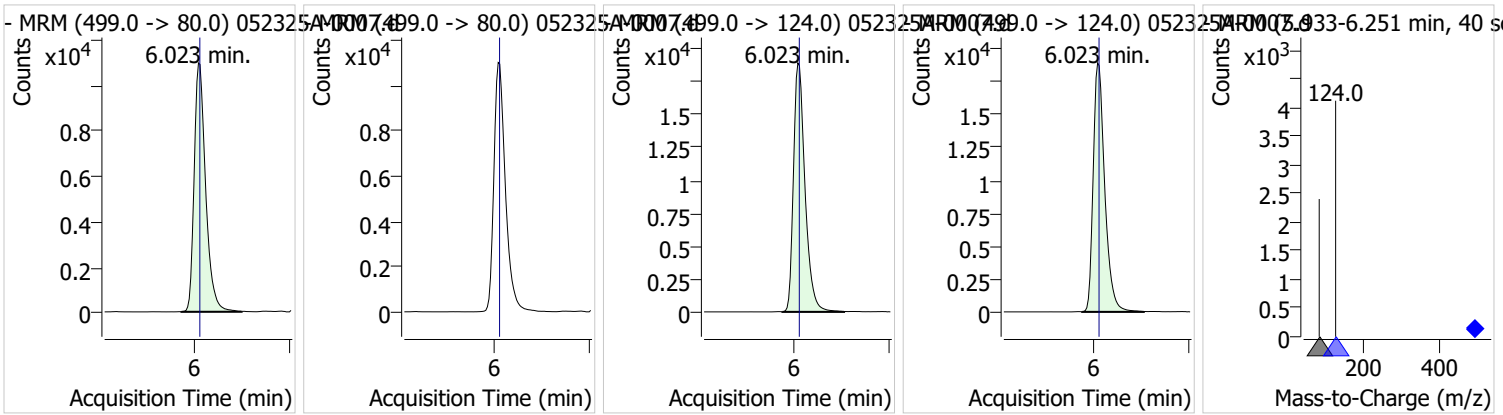
18O2-PFHxS_ISTD



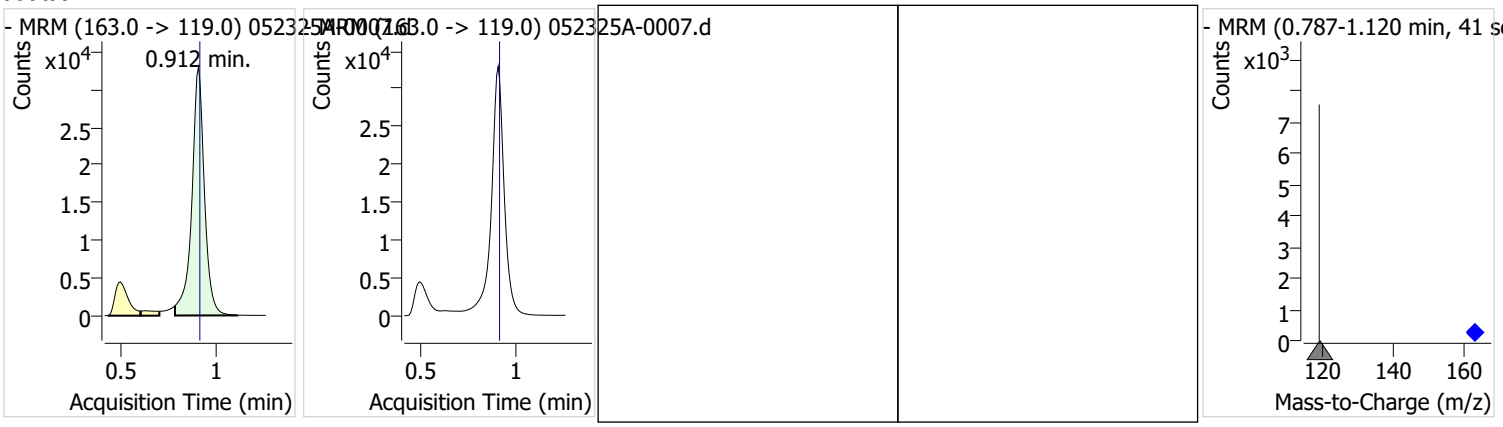
PFDoS



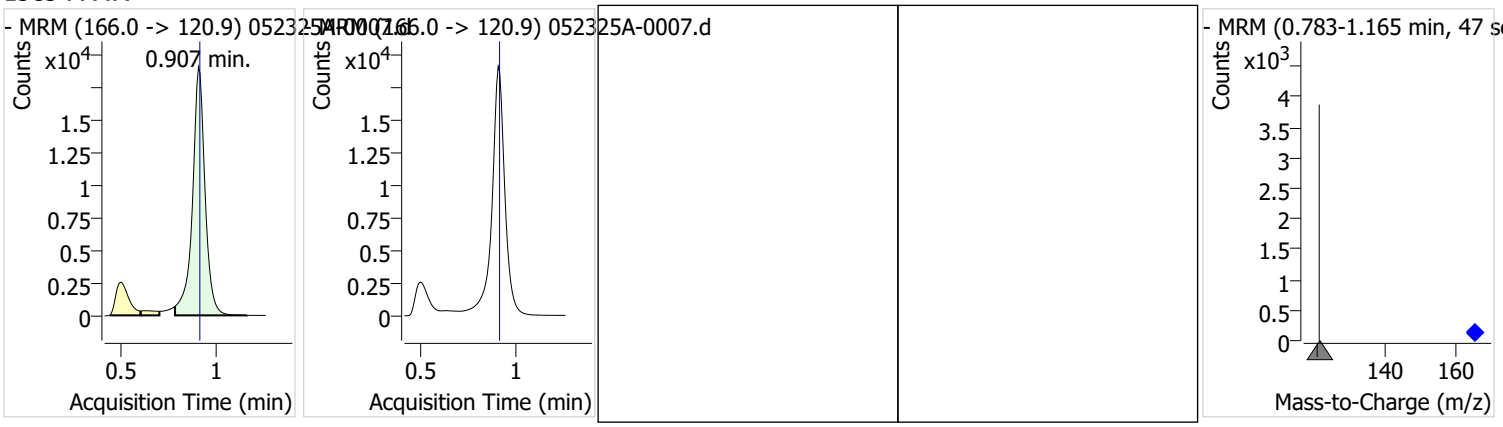
TDCA



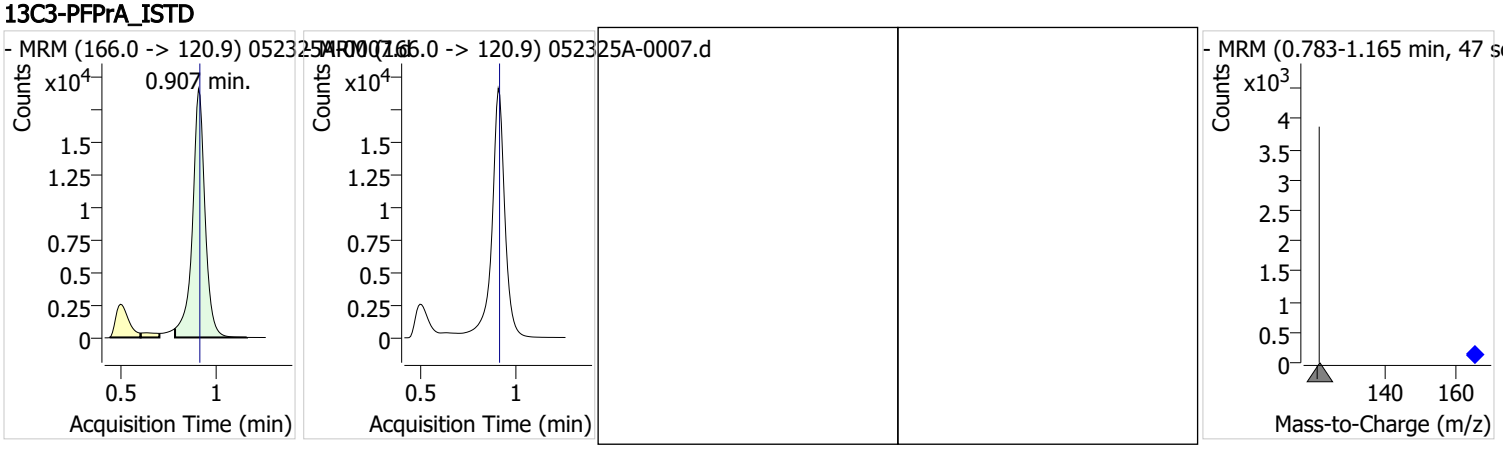
PFPrA



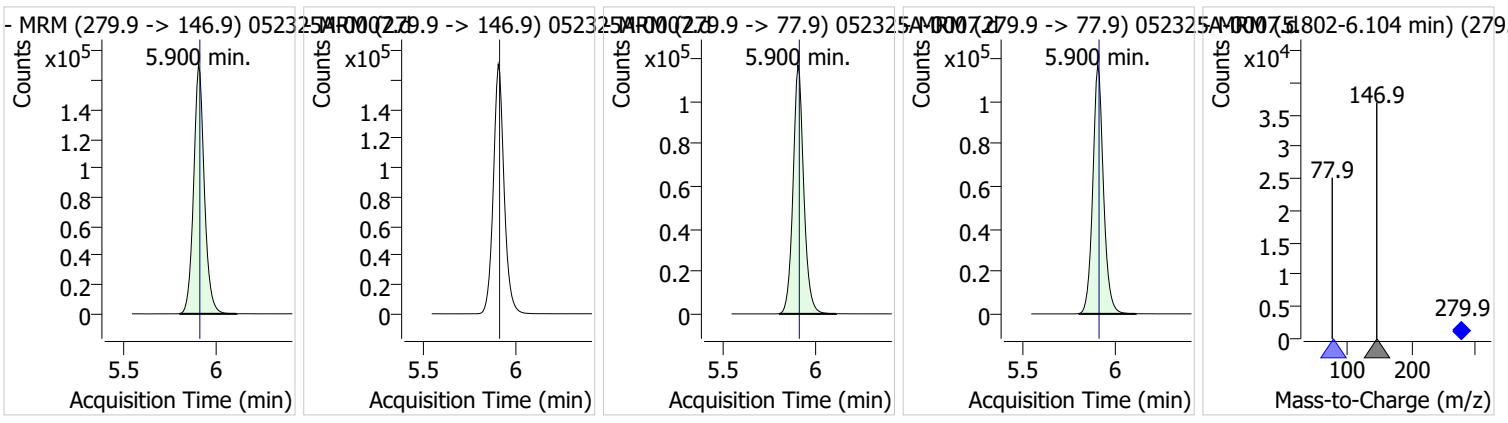
13C3-PFPrA



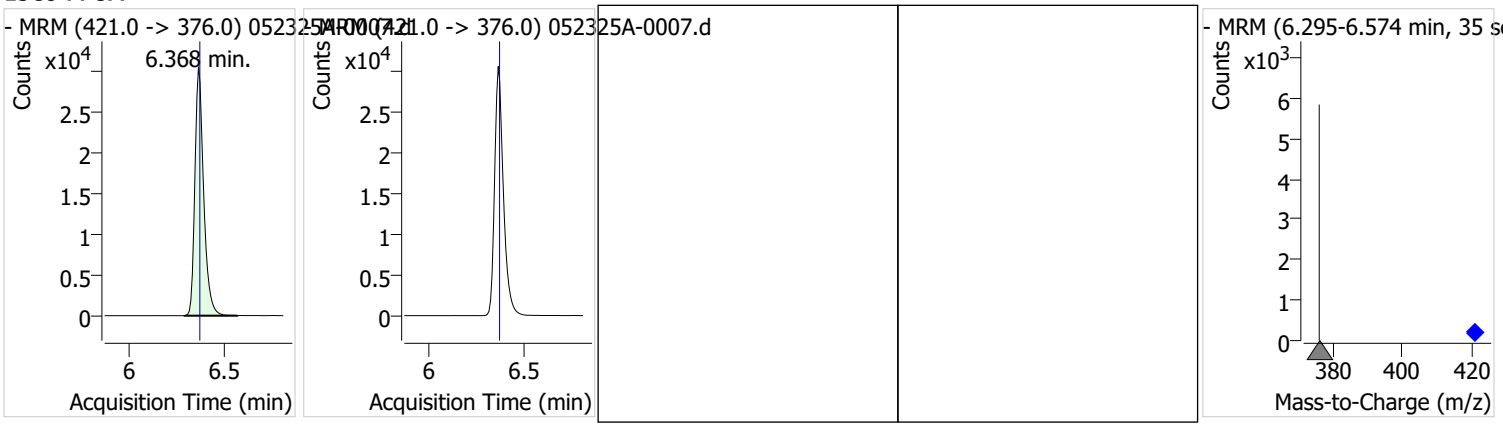
13C3-PFPrA_ISTD



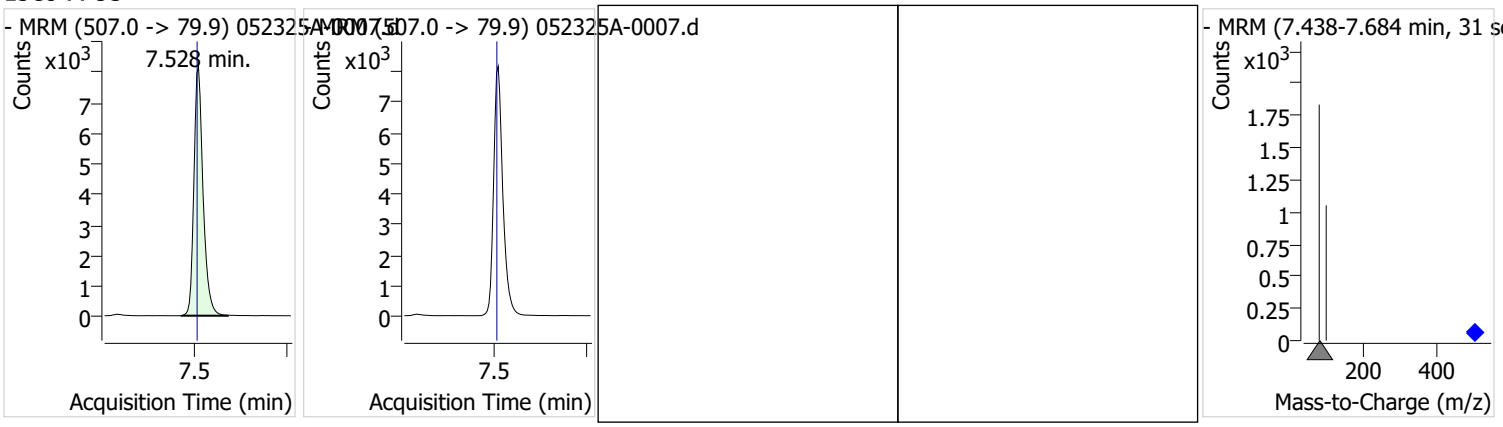
TFSI



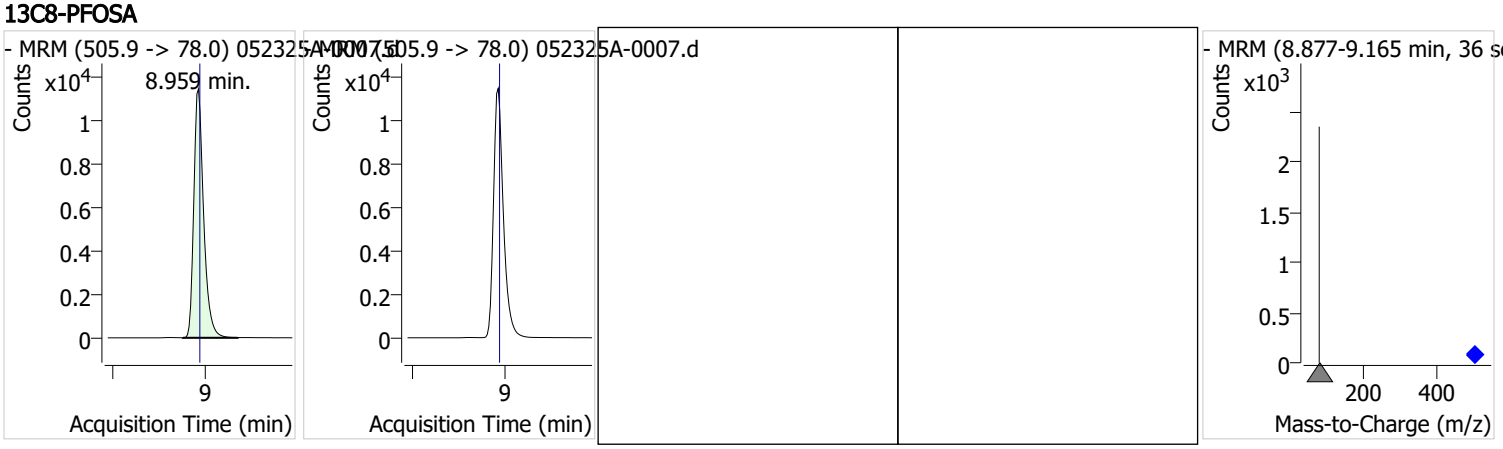
13C8-PFOA



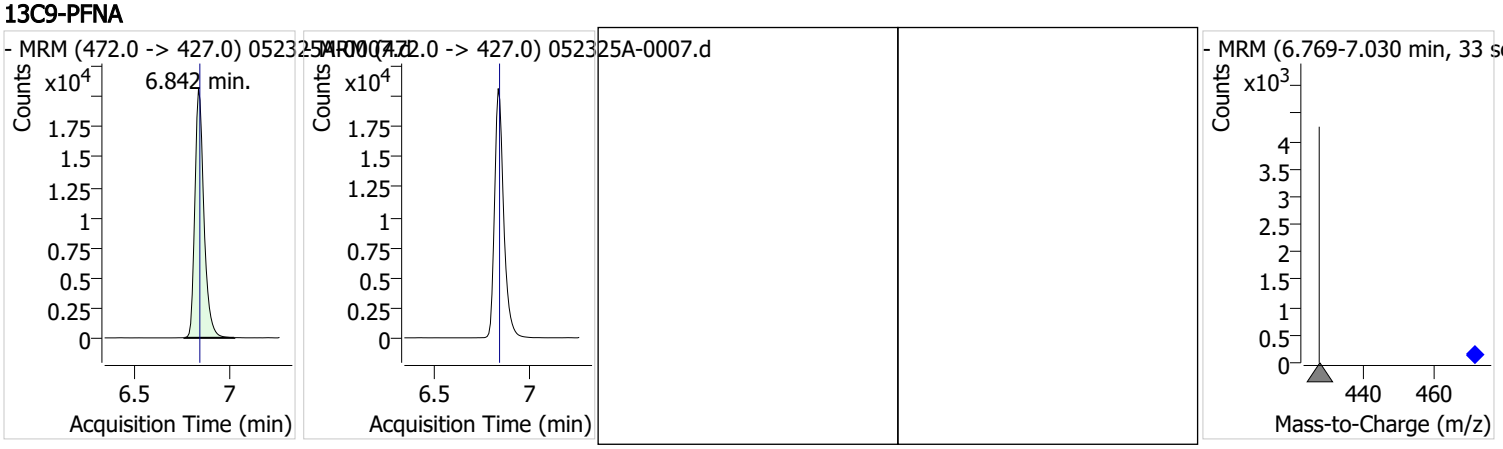
13C8-PFOS



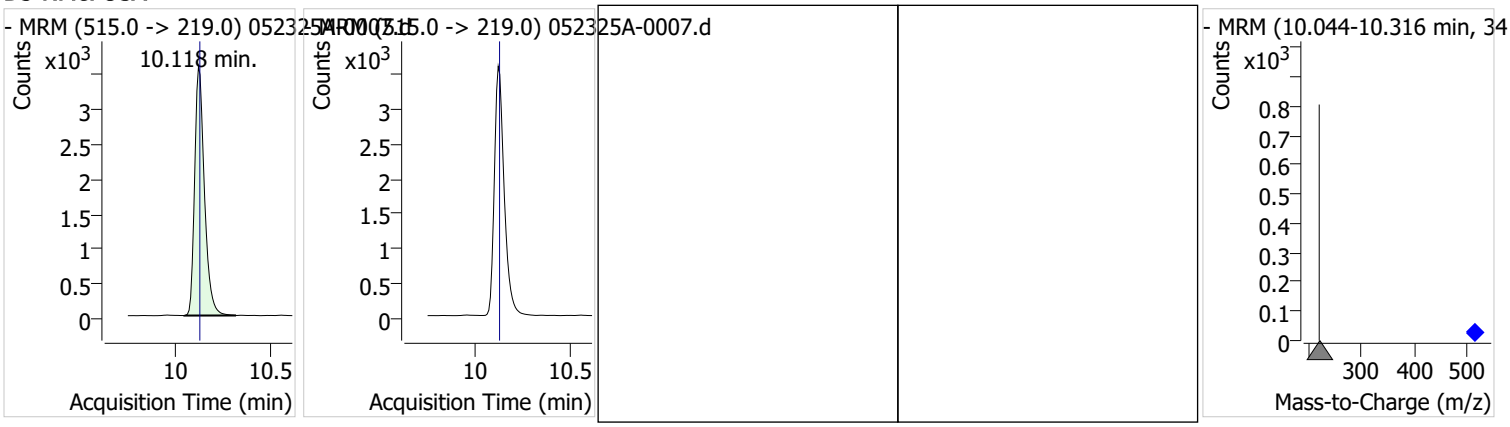
13C8-PFOSA



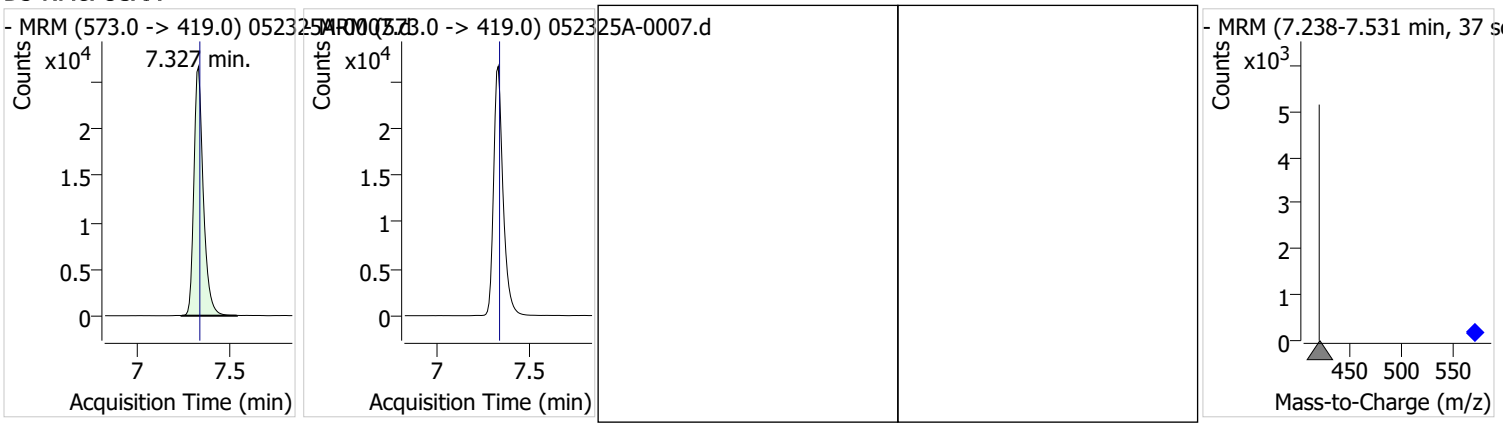
13C9-PFNA



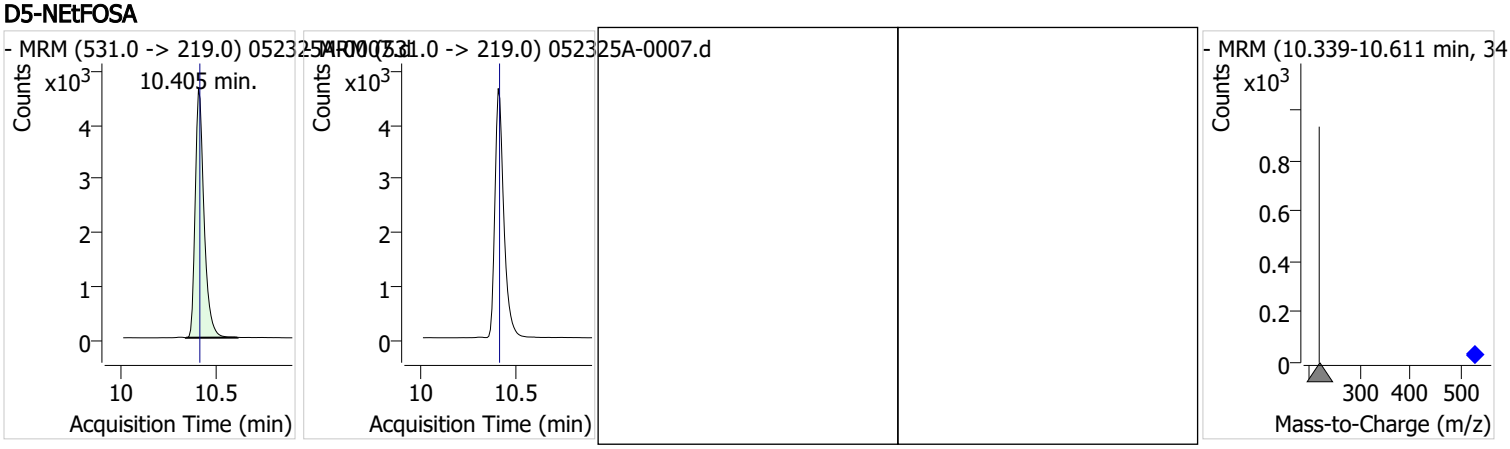
D3-NMeFOSA



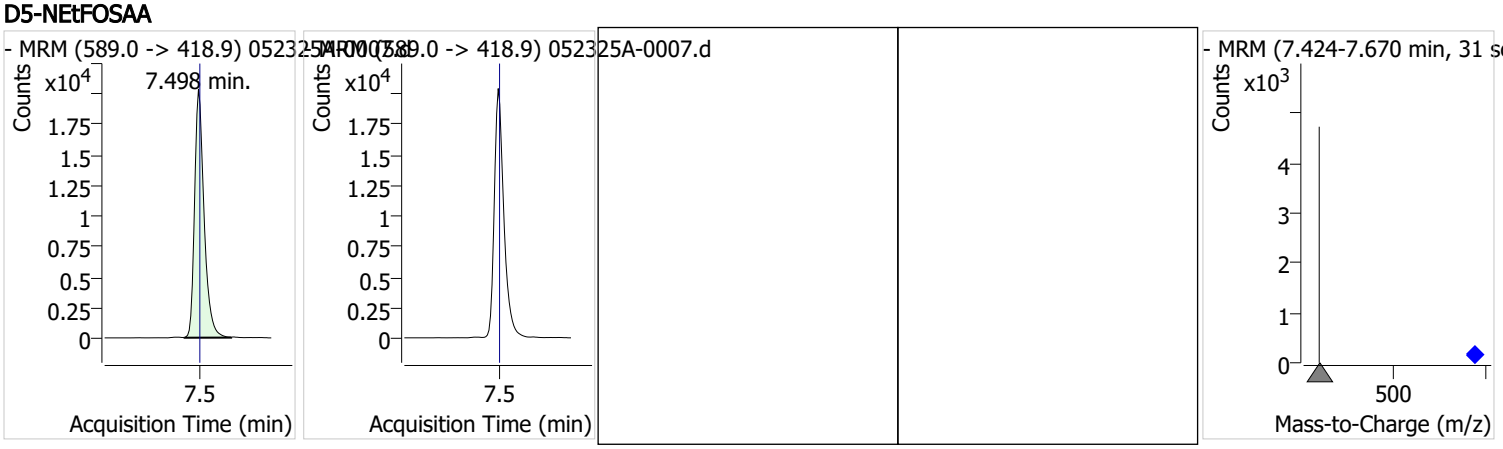
D3-NMeFOSAA



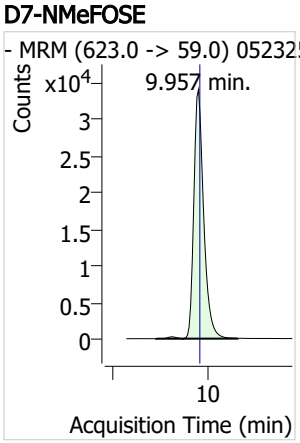
D5-NEtFOSA

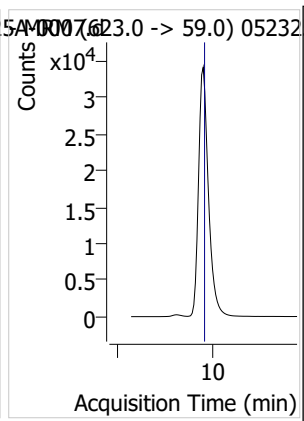


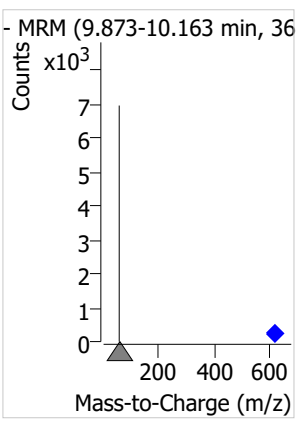
D5-NEtFOSAA



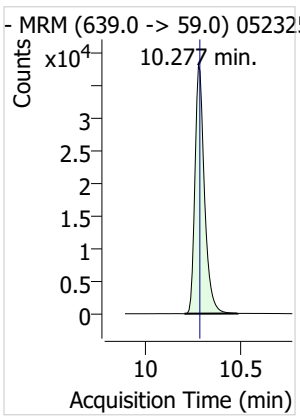
D7-NMeFOSE

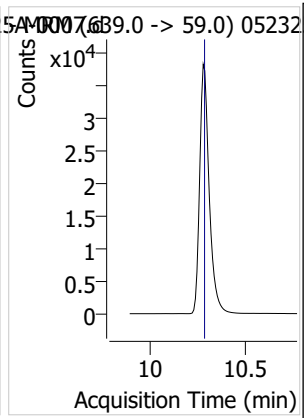


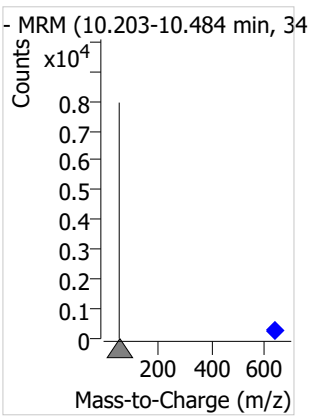




D9-NEtFOSE

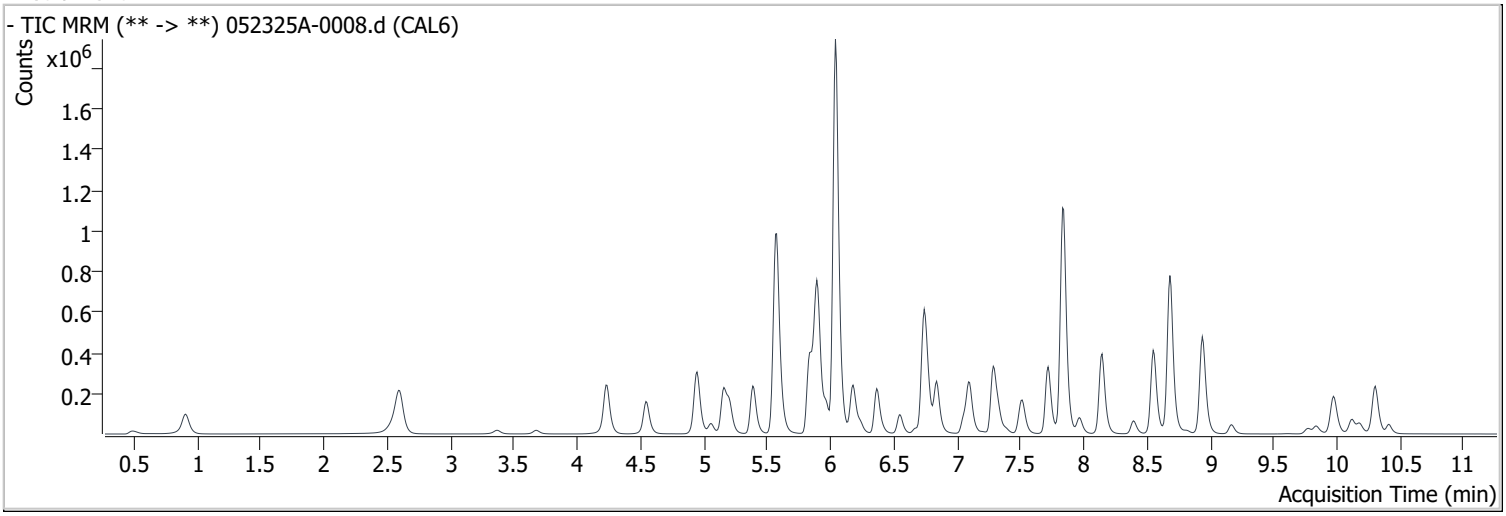






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 11:36 AM	**Data File**	052325A-0008.d
Sample Type	Cal	**Sample Name**	CAL6
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510290	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	417531	2415229.70		13C3-HFPODA_ISTD	5.394	79836	53.2775	ng/ml			
285.0 -> 184.9	5.394	257407	7322.26	61.6								
4:2FTS	4.947	754013	49544.28		13C2-4:2FTS_ISTD	4.946	22386	51.1738	ng/ml			
327.0 -> 80.9	4.947	270728	115372.37	35.9								
6:2FTS	6.180	477934	35317.09		13C2-6:2FTS_ISTD	6.180	17496	50.7170	ng/ml			
427.0 -> 80.9	6.181	200018	483078.10	41.9								
ADONA	6.044	4558646	143339.32		13C4-PFHpA_ISTD	5.839	136299	51.5823	ng/ml			
377.0 -> 85.1	6.044	1833844	556457.73	40.2								
8:2FTS	7.100	524038	178057.19		13C2-8:2FTS_ISTD	7.100	18258	52.3610	ng/ml			
527.0 -> 81.0	7.101	206656	937586.70	39.4								
13C4-PFBA	2.597	183475	23788.98		13C3-PFBA_ISTD	2.592	76472	9.8577	ng/ml			
9Cl-PF3ONS	7.838	3040496	630227.22		13C8-PFOS_ISTD	7.528	27474	48.9429	ng/ml			
533.0 -> 353.0	7.838	813907	49698.42	26.8								
11Cl-PF3OUdS	8.685	2163970	362304.58		13C8-PFOS_ISTD	7.528	27474	49.7523	ng/ml			
633.0 -> 453.0	8.684	529092	38832.68	24.5								
PFHpS	7.055	186237	54431.60		13C8-PFOS_ISTD	7.528	27474	12.2145	ng/ml			
449.0 -> 98.8	7.055	85840	25233.21	46.1								
13C2-4:2FTS	4.946	22386	83282.77		18O2-PFHxS_ISTD	6.559	27764	4.6826	ng/ml			
13C2-6:2FTS	6.180	17496	13648.22		18O2-PFHxS_ISTD	6.559	27764	4.8571	ng/ml			
13C2-8:2FTS	7.100	18258	118565.91		18O2-PFHxS_ISTD	6.559	27764	5.0499	ng/ml			
13C2-PFDoA	8.146	93094	2044.62		13C2-PFDA_ISTD	7.290	60036	1.2411	ng/ml			
13C2-PFDA	7.290	60036	9047.07					1.2348	ng/ml			
13C2-PFHxA	5.162	75168	4377.67					2.4387	ng/ml			
13C2-PFTeDA	8.936	107306	46272.75		13C2-PFDA_ISTD	7.290	60036	1.2732	ng/ml			
13C4-PFOS	7.529	27615	8149.79					2.5052	ng/ml			
13C3-HFPODA	5.394	79836	23283.99		13C2-PFHxA_ISTD	5.162	75168	9.9406	ng/ml			
13C3-PFBS	5.205	48998	29549.49		18O2-PFHxS_ISTD	6.559	27764	2.5849	ng/ml			
13C3-PFHxS	6.551	32179	2775.24		18O2-PFHxS_ISTD	6.559	27764	2.5070	ng/ml			
NEtFOSAA	7.434	165553	3119.11		D5-NEtFOSAA_ISTD	7.498	66905	12.7103	ng/ml			
584.0 -> 526.0	7.433	148174	3084.91	89.5								

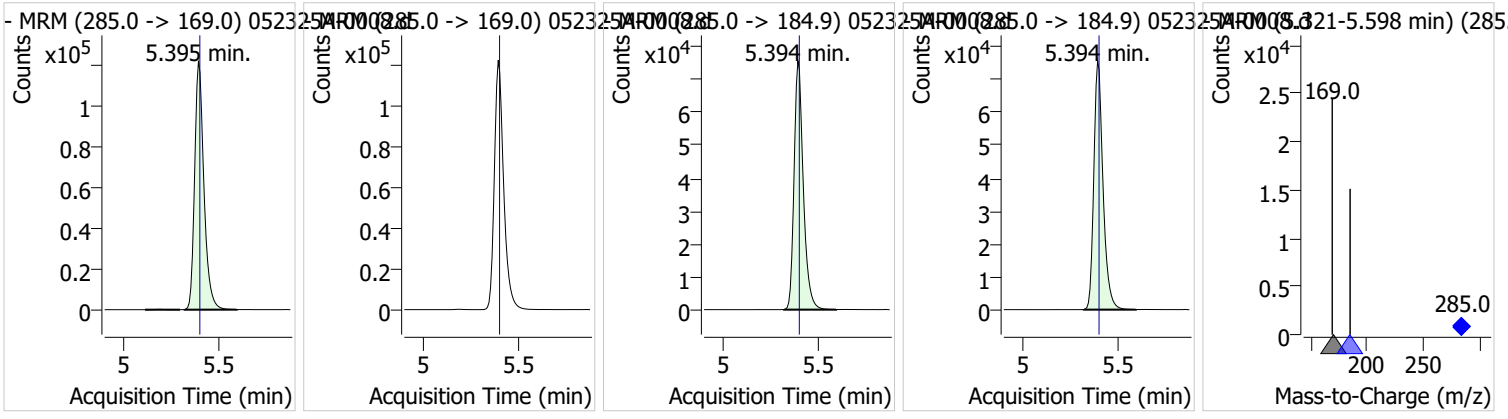
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	136299	6851.23		13C2-PFHxA_ISTD	5.162	75168	2.5534	ng/ml			
NMeFOSAA	7.247	86094	7841.65		D3-NMeFOSAA_ISTD	7.319	86221	13.4335	ng/ml			
570.0 -> 483.0	7.246	99107	2954.88	115.1								
PFBA	2.594	972549	169431.95		13C4-PFBA_ISTD	2.597	183475	53.1922	ng/ml			
13C5-PFHxA	5.161	86403	25247.11		13C2-PFHxA_ISTD	5.162	75168	2.5893	ng/ml			
PFBS	5.205	298143	16323.97		13C3-PFBS_ISTD	5.205	48998	11.5371	ng/ml			
298.9 -> 98.8	5.205	106068	269927.97	35.6								
NMeFOSA	10.073	76519	4189.67		D3-NMeFOSA_ISTD	10.126	12071	13.3175	ng/ml			
512.0 -> 169.0	10.074	104964	2229.39	137.2								
PFDA	7.290	790941	30480.92		13C6-PFDA_ISTD	7.289	71134	13.5883	ng/ml			
513.0 -> 219.0	7.290	146857	3535.95	18.6								
PFDoA	8.146	1132542	106298.65		13C2-PFDoA_ISTD	8.146	93094	13.5069	ng/ml			
613.0 -> 319.0	8.147	132081	38547.57	11.7								
NEtFOSA	10.377	94125	3123.05		D5-NEtFOSA_ISTD	10.405	14843	12.9619	ng/ml			
526.0 -> 169.0	10.377	127511	3091.60	135.5								
PFHpA	5.839	812048	14164.41		13C4-PFHpA_ISTD	5.839	136299	13.2807	ng/ml			
362.9 -> 169.0	5.839	135492	41278.00	16.7								
PFHxA	5.163	528277	19191.35		13C5-PFHxA_ISTD	5.161	86403	13.1054	ng/ml			
313.0 -> 118.9	5.155	16399	4825.49	3.1								
NMeFOSE	9.899	770592	4513.10		D7-NMeFOSE_ISTD	9.957	118867	131.6958	ng/ml			
PFHxS	6.498	192547	13057.02		13C3-PFHxS_ISTD	6.551	32179	11.8429	ng/ml			
398.9 -> 99.0	6.498	87657	6661.19	45.5								
PFNA	6.789	595783	16199.51		13C9-PFNA_ISTD	6.842	64136	13.2745	ng/ml			
463.0 -> 219.0	6.789	183556	6628.79	30.8								
NEtFOSE	10.249	948403	2214.60		D9-NEtFOSE_ISTD	10.277	133632	130.9922	ng/ml			
PFOA	6.300	591366	8090.54		13C8-PFOA_ISTD	6.368	95464	13.1140	ng/ml			
413.0 -> 169.0	6.300	172690	3513.77	29.2								
PFOS	7.399	186162	9293.70		13C8-PFOS_ISTD	7.528	27474	11.4617	ng/ml			
499.0 -> 99.0	7.402	86513	10741.53	46.5								
PFPeA	4.231	797602	46422.43		13C5-PFPeA_ISTD	4.229	134582	26.3243	ng/ml			
PFMPA	3.377	82117	4365.34		13C4-PFBA_ISTD	2.597	183475	25.8730	ng/ml			
13C5-PFPeA	4.229	134582	10784.41		13C2-PFHxA_ISTD	5.162	75168	5.0554	ng/ml			
PFMBA	4.547	596264	79975.28		13C5-PFPeA_ISTD	4.229	134582	26.6756	ng/ml			
PFTrDA	8.550	1317987	67100.42		13C2-PFDoA_ISTD	8.146	93094	13.4607	ng/ml			
663.0 -> 168.9	8.551	111935	32370.65	8.5								
PFEESA	5.570	1582446	55851.57		13C5-PFHxA_ISTD	5.161	86403	22.9114	ng/ml			
315.0 -> 83.0	5.571	114050	10250.39	7.2								
13C6-PFDA	7.289	71134	23239.78		13C2-PFDA_ISTD	7.290	60036	1.2583	ng/ml			
NFDHA	5.066	123830	574806.17		13C5-PFHxA_ISTD	5.161	86403	26.4935	ng/ml			
295.0 -> 85.0	5.067	40177	4774.37	32.4								
PFOSA	8.899	224305	5135.70		13C8-PFOSA_ISTD	8.959	38489	13.2491	ng/ml			
497.9 -> 478.0	8.902	6100	686.36	2.7								
13C7-PFUnA	7.721	80756	24202.46		13C2-PFDA_ISTD	7.290	60036	1.2791	ng/ml			
13C4-PFOA	6.369	21001	6523.45					2.5399	ng/ml			
PFDS	8.398	145705	15313.81		13C8-PFOS_ISTD	7.528	27474	12.6114	ng/ml			
599.0 -> 98.8	8.397	72525	6564.78	49.8								
PFNS	7.969	174757	9056.62		13C8-PFOS_ISTD	7.528	27474	12.3041	ng/ml			
549.0 -> 98.8	7.968	79471	23341.91	45.5								
PFPeS	5.971	259249	77801.50		13C3-PFHxS_ISTD	6.551	32179	12.8458	ng/ml			
349.0 -> 98.9	5.971	113526	6760.12	43.8								
PFTeDA	8.937	1315278	65097.98		13C2-PFTeDA_ISTD	8.936	107306	13.2795	ng/ml			

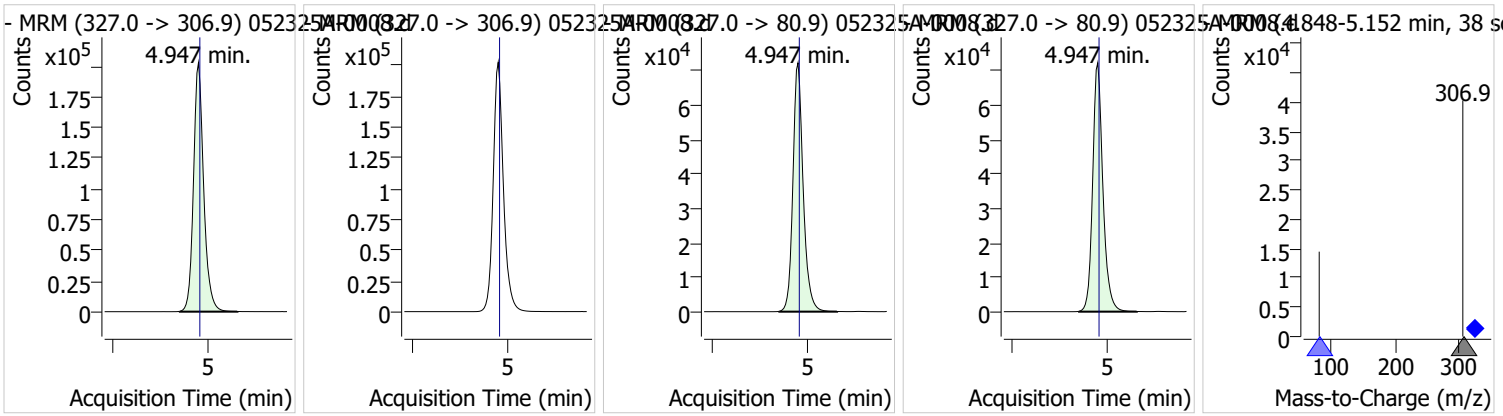
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	70628	20564.84	5.4								
PFUnA	7.722	881484	13058.13		13C7-PFUnA_ISTD	7.721	80756	13.0706	ng/ml			
563.0 -> 269.1	7.722	147253	43886.20	16.7								
13C3-PFBA	2.592	76472	619.25					5.0355	ng/ml			
3:3FTCA	3.679	48905	2821.74		13C5-PFPeA_ISTD	4.229	134582	64.1714	ng/ml			
241.0 -> 117.0	3.673	25730	1537.51	52.6								
5:3FTCA	5.577	1048161	107166.13		13C5-PFHxA_ISTD	5.161	86403	325.0365	ng/ml			
341.0 -> 217.0	5.577	922524	17411.44	88.0								
7:3FTCA	6.746	1146308	198586.99		13C9-PFNA_ISTD	6.842	64136	334.0889	ng/ml			
441.0 -> 337.0	6.745	1232693	391239.75	107.5								
13C5-PFNA	6.842	61567	3192.07					1.3019	ng/ml			
18O2-PFHxS	6.559	27764	8267.96					2.4442	ng/ml			
PFDoS	9.171	98814	11353.07		13C8-PFOS_ISTD	7.528	27474	12.7228	ng/ml			
698.9 -> 99.0	9.170	55766	60682.22	56.4								
TDCA					13C8-PFOS_ISTD	7.528	27474	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	382242	26714.38		13C3-PFPrA_ISTD	0.907	82829	52.5192	ng/ml			
13C3-PFPrA	0.907	82829	11308.02		13C3-PFBA_ISTD	2.592	76472	10.0123	ng/ml			
TFSI	5.900	1734895	18896.58		13C3-HFPODA_ISTD	5.394	79836	26.3081	ng/ml			
279.9 -> 77.9	5.900	1185825	294337.66	68.4								
13C8-PFOA	6.368	95464	463380.93		13C4-PFOA_ISTD	6.369	21001	2.4262	ng/ml			
13C8-PFOS	7.528	27474	916.97		13C4-PFOS_ISTD	7.529	27615	2.5438	ng/ml			
13C8-PFOSA	8.959	38489	10735.99		13C4-PFOS_ISTD	7.529	27615	2.4784	ng/ml			
13C9-PFNA	6.842	64136	19927.07		13C5-PFNA_ISTD	6.842	61567	1.1790	ng/ml			
D3-NMeFOSA	10.126	12071	4750.25		13C4-PFOS_ISTD	7.529	27615	2.4397	ng/ml			
D3-NMeFOSAA	7.319	86221	2050.72		13C4-PFOS_ISTD	7.529	27615	5.0197	ng/ml			
D5-NEtFOSA	10.405	14843	5473.33		13C4-PFOS_ISTD	7.529	27615	2.4956	ng/ml			
D5-NEtFOSAA	7.498	66905	3918.16		13C4-PFOS_ISTD	7.529	27615	5.1289	ng/ml			
D7-NMeFOSE	9.957	118867	6335.30		13C4-PFOS_ISTD	7.529	27615	25.0241	ng/ml			
D9-NEtFOSE	10.277	133632	4086.03		13C4-PFOS_ISTD	7.529	27615	25.3346	ng/ml			

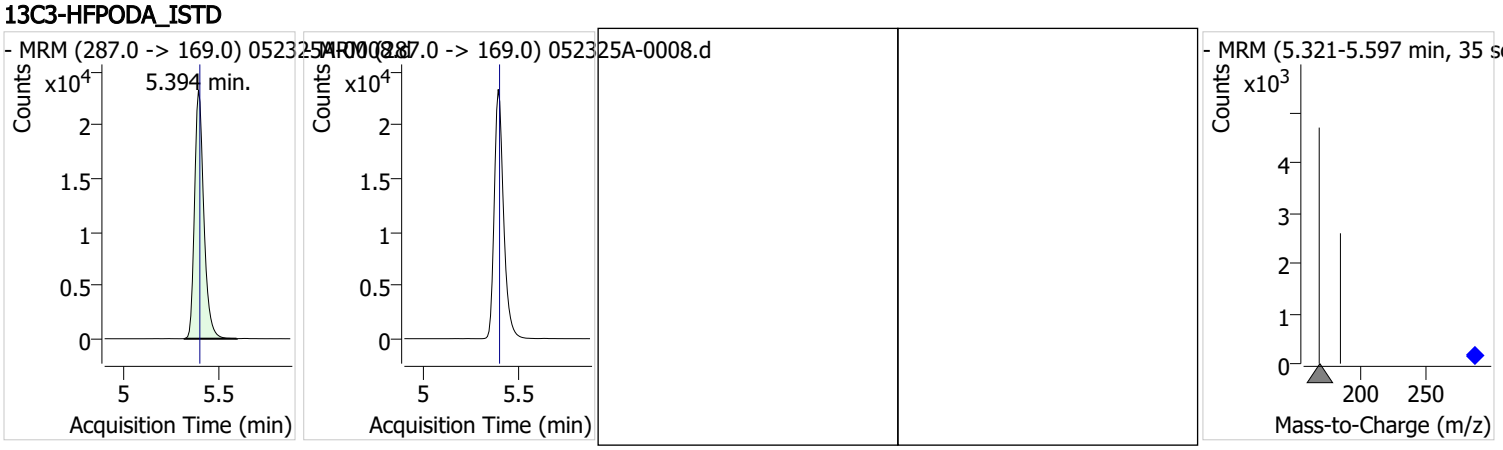
HFPO-DA



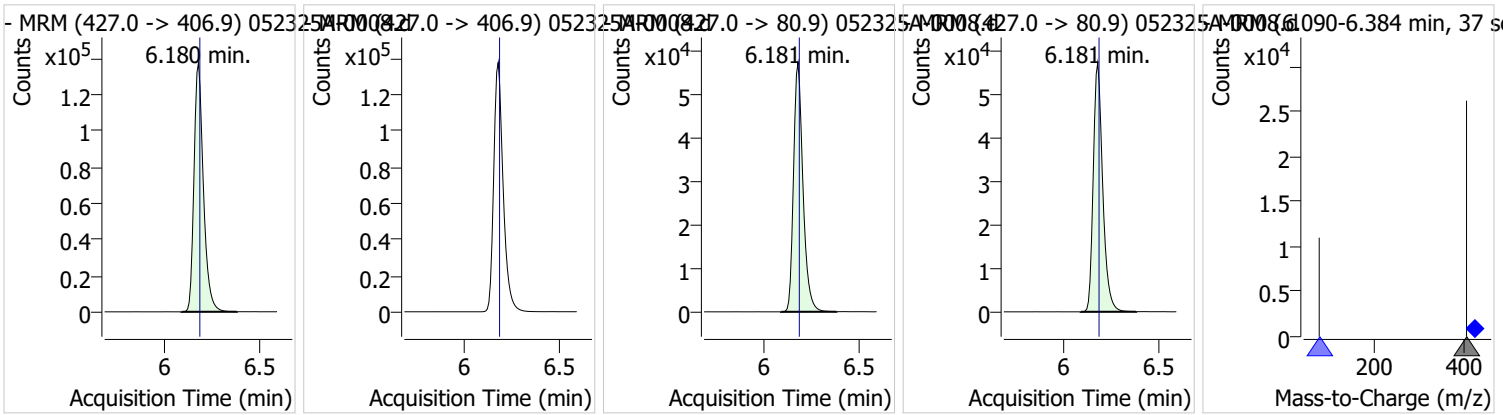
4:2FTS



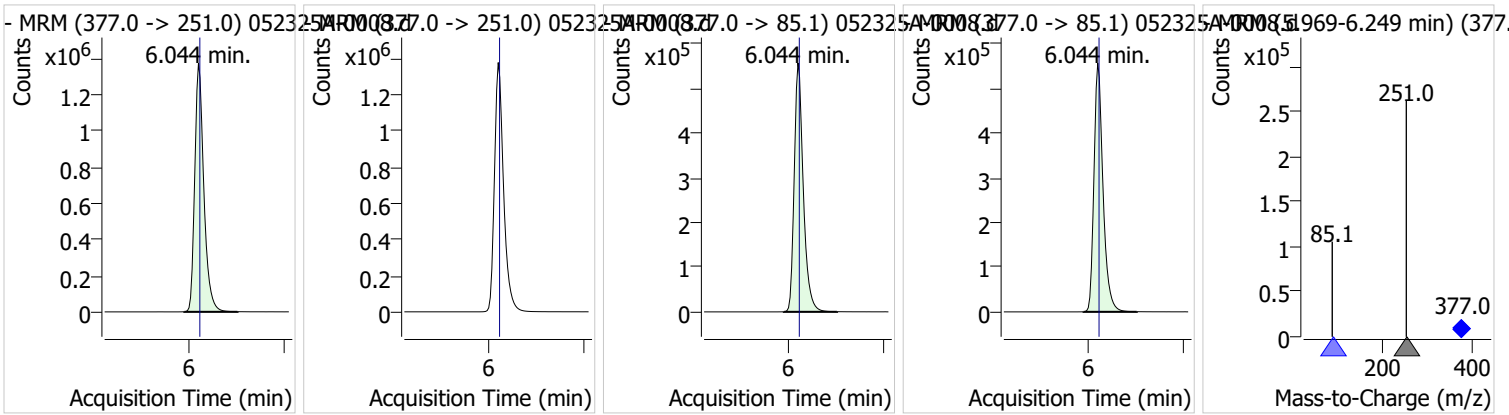
13C3-HFPODA_ISTD



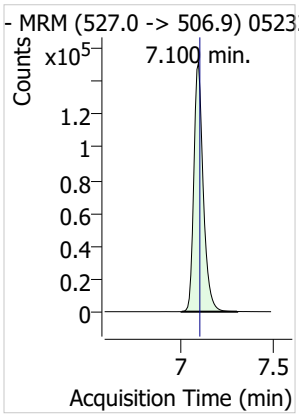
6:2FTS

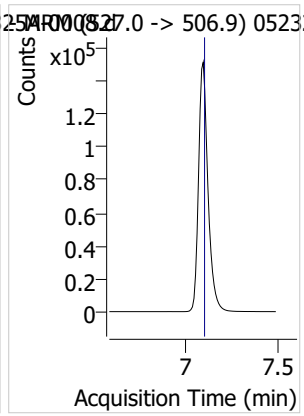


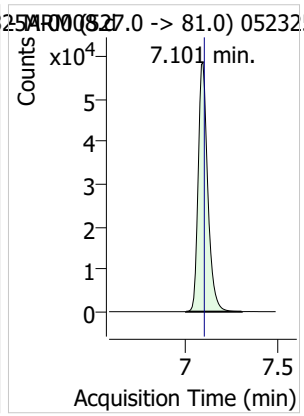
ADONA

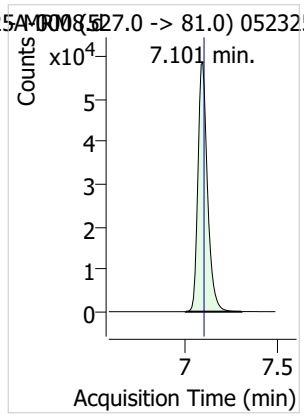


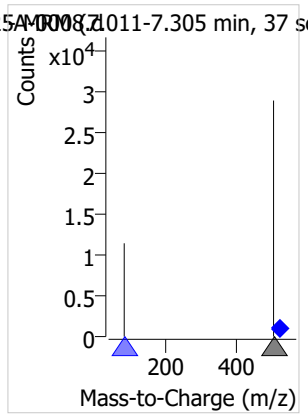
8:2FTS



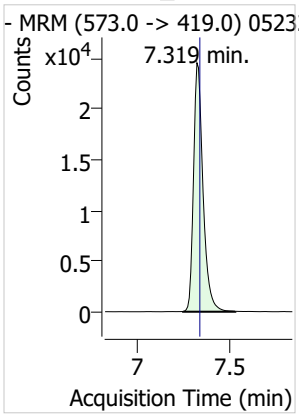


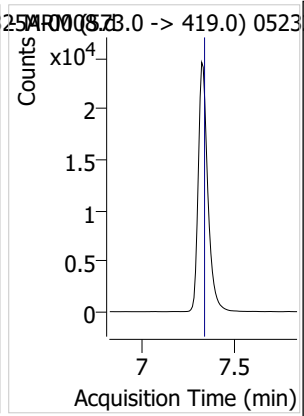


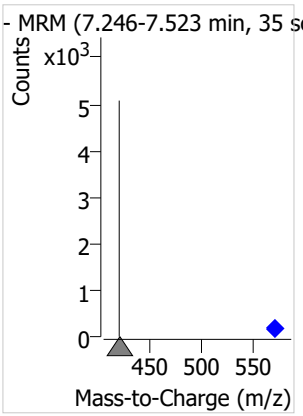




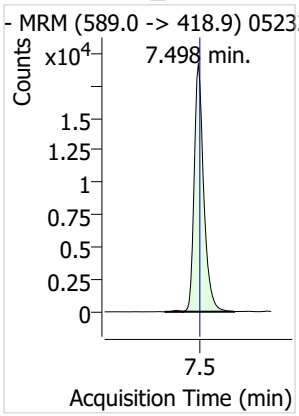
D3-NMeFOSAA_ISTD

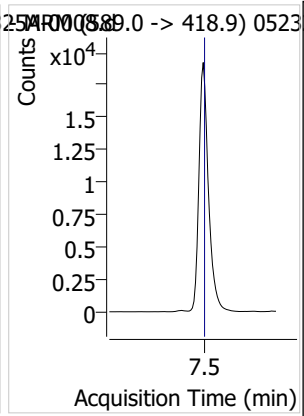


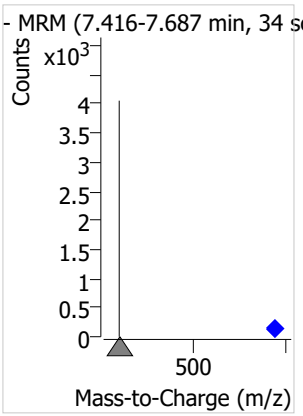




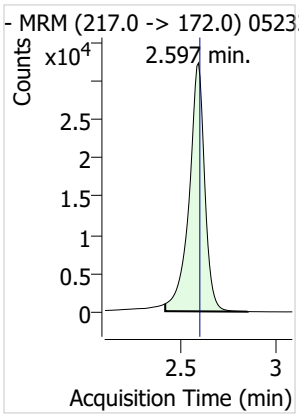
D5-NEtFOSAA_ISTD

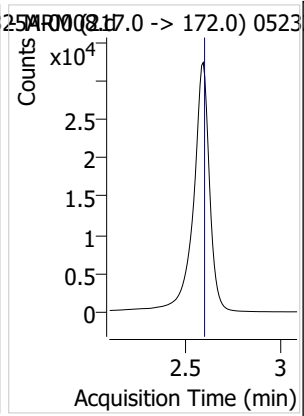


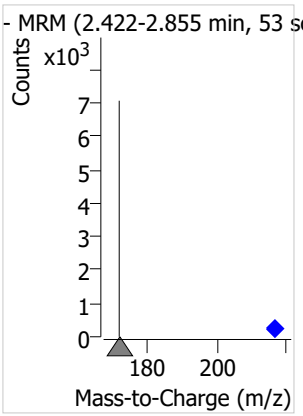




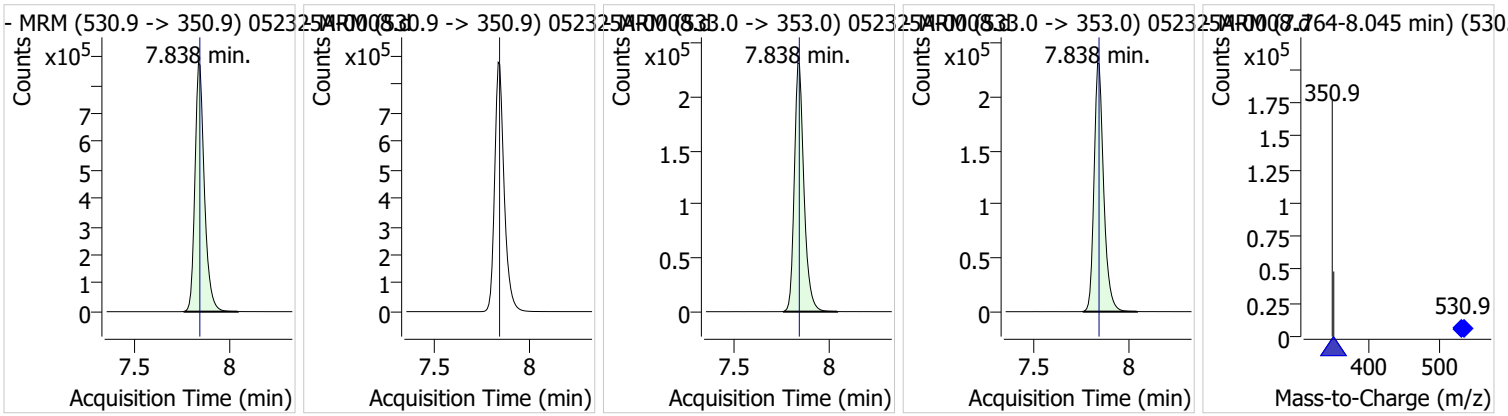
13C4-PFBA



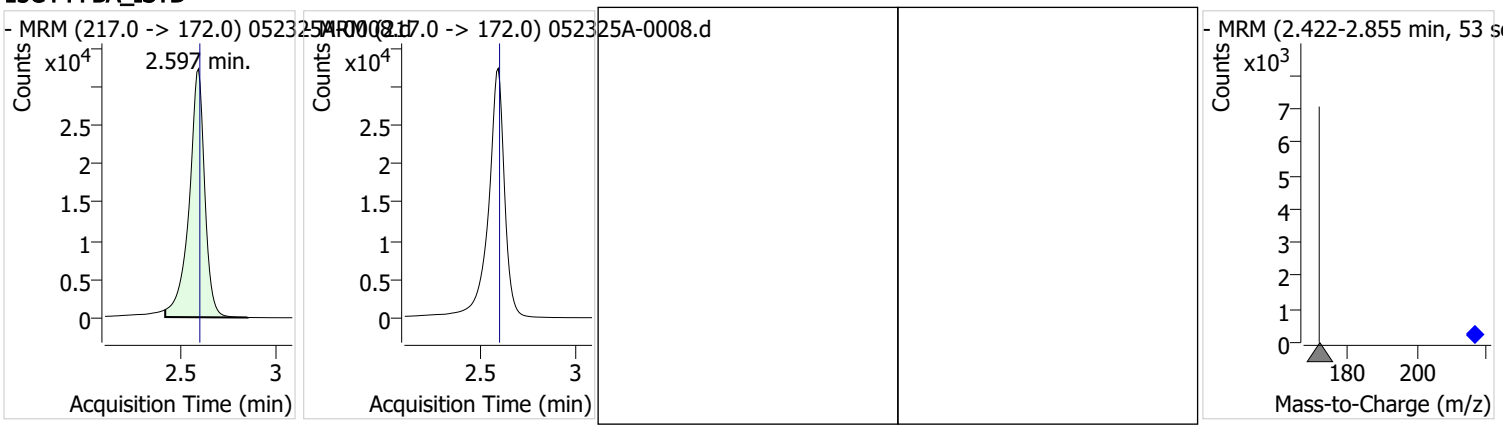




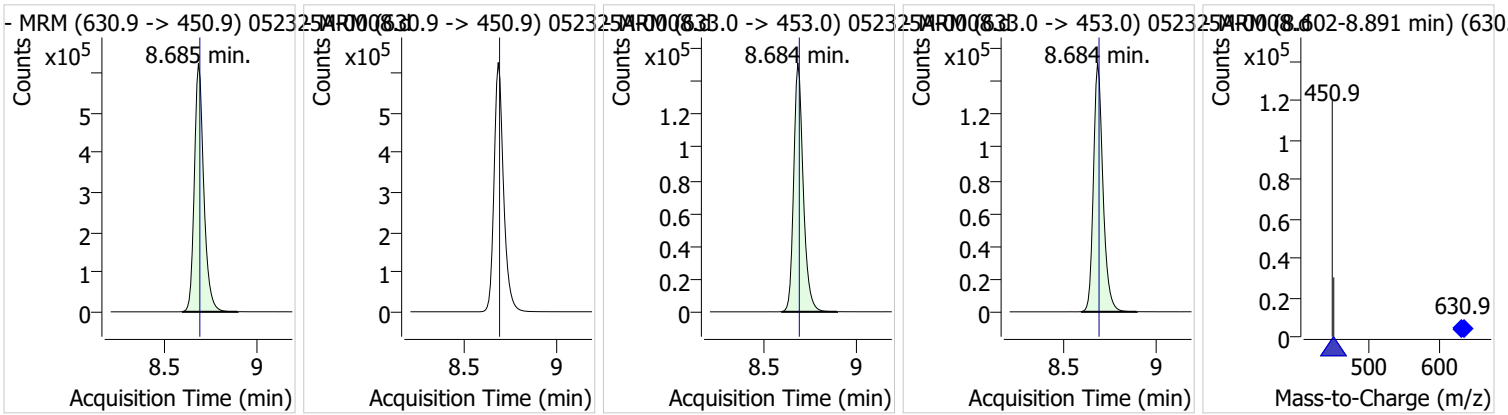
9Cl-PF3ONS



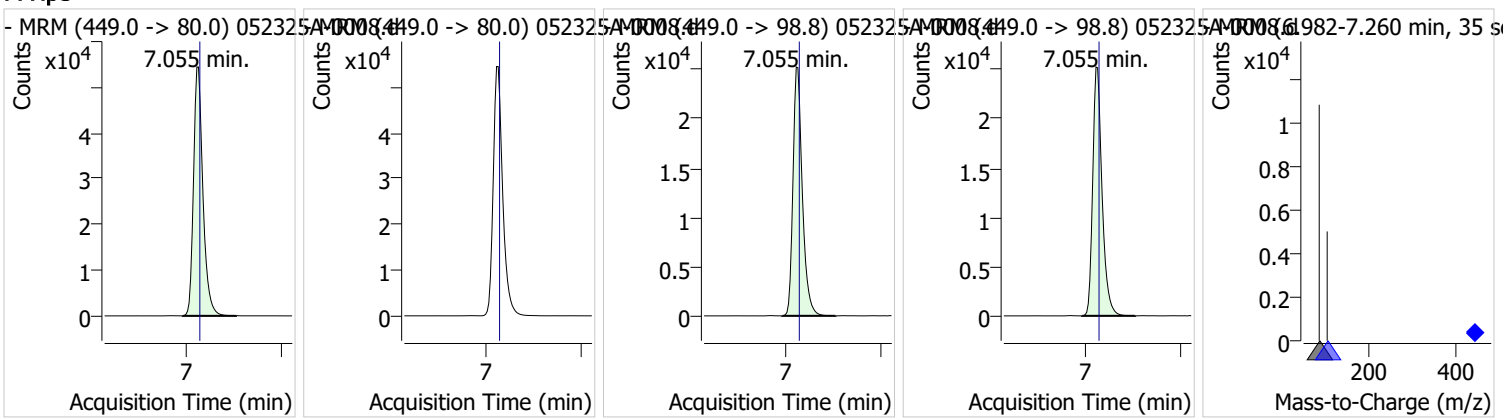
13C4-PFBA_ISTD



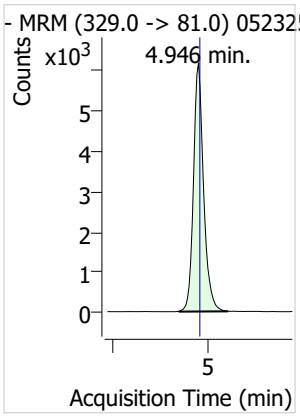
11Cl-PF3OUdS

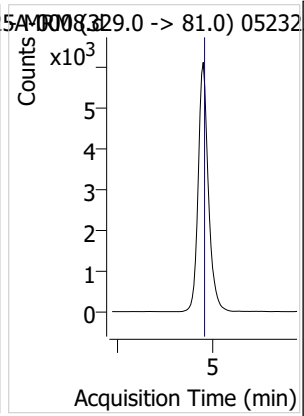


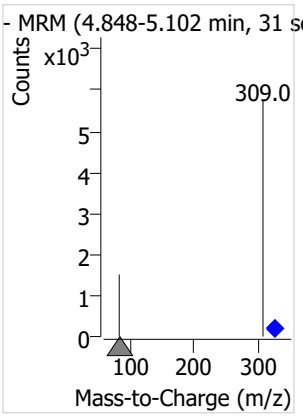
PFHpS



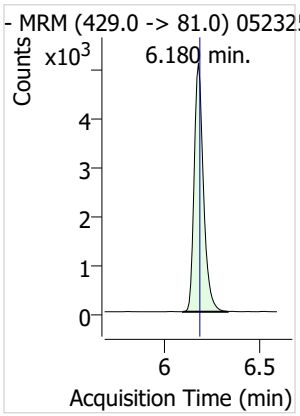
13C2-4:2FTS

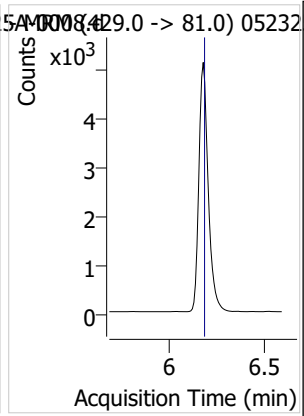


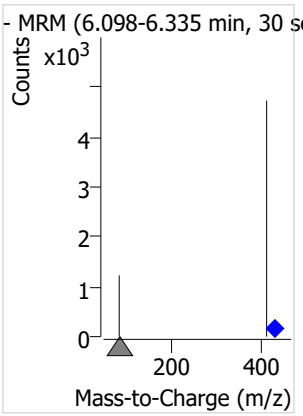




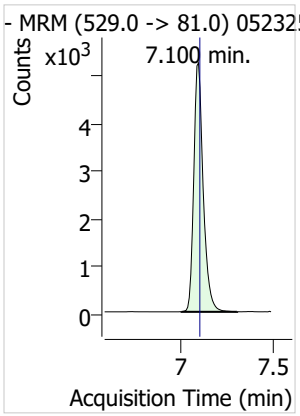
13C2-6:2FTS

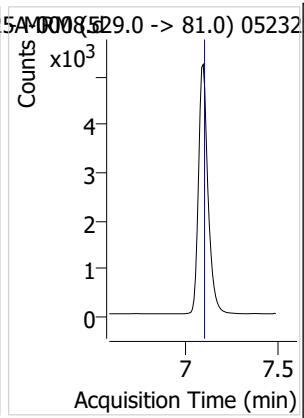


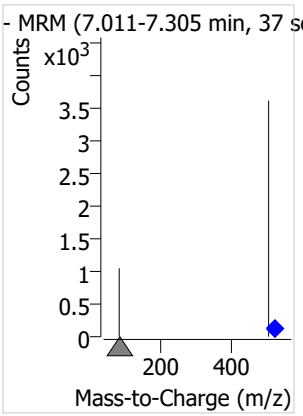




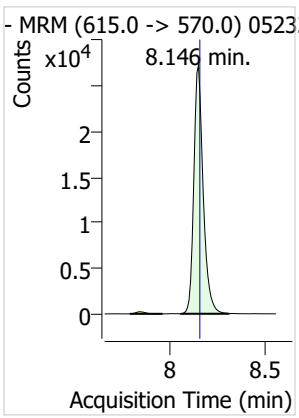
13C2-8:2FTS

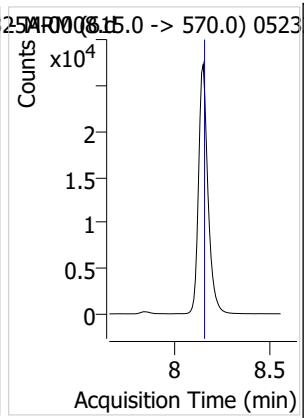


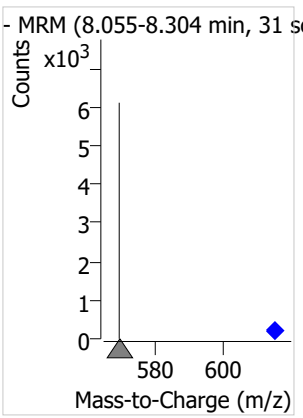




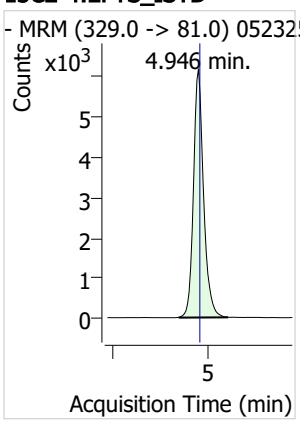
13C2-PFDoA

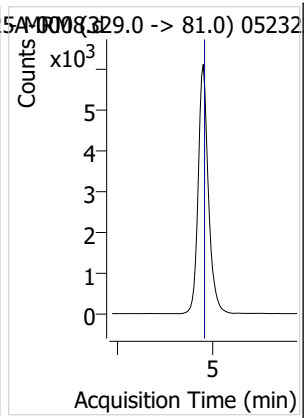


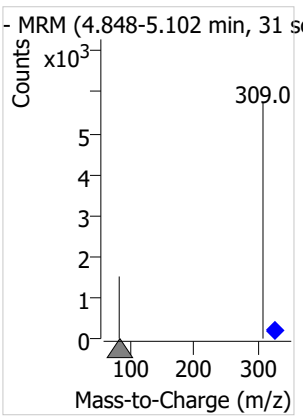




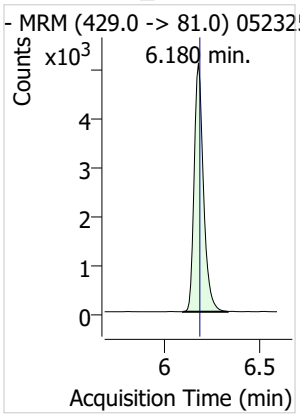
13C2-4:2FTS_ISTD

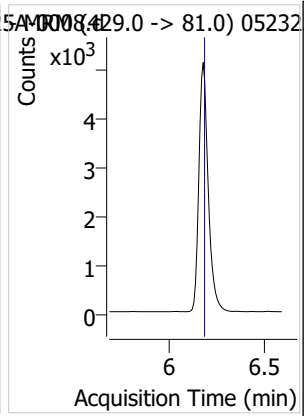


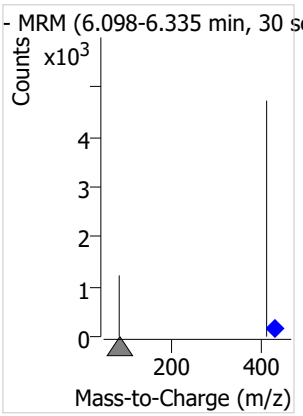




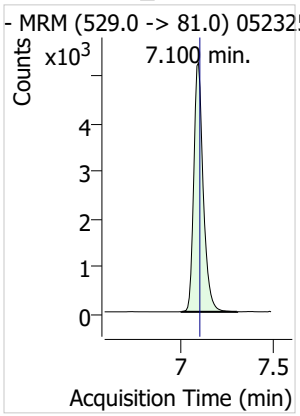
13C2-6:2FTS_ISTD

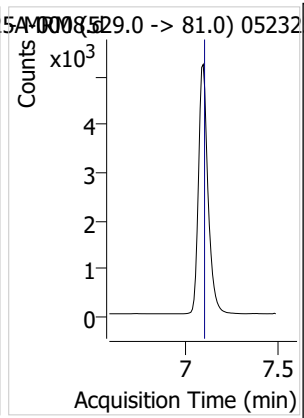


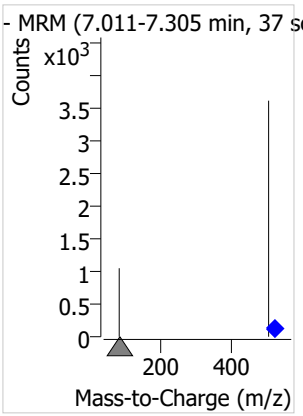




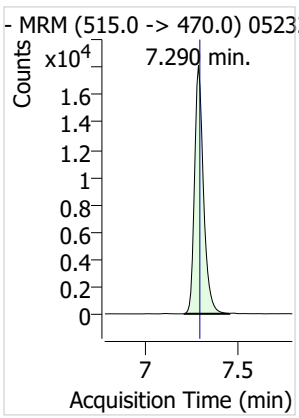
13C2-8:2FTS_ISTD

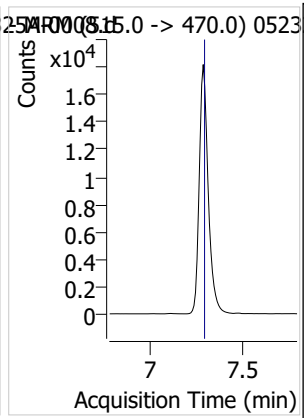


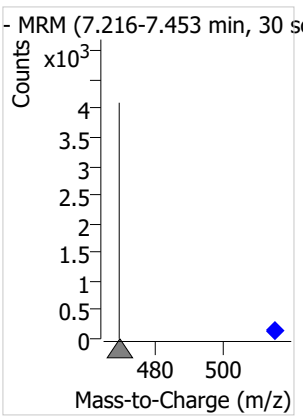




13C2-PFDA



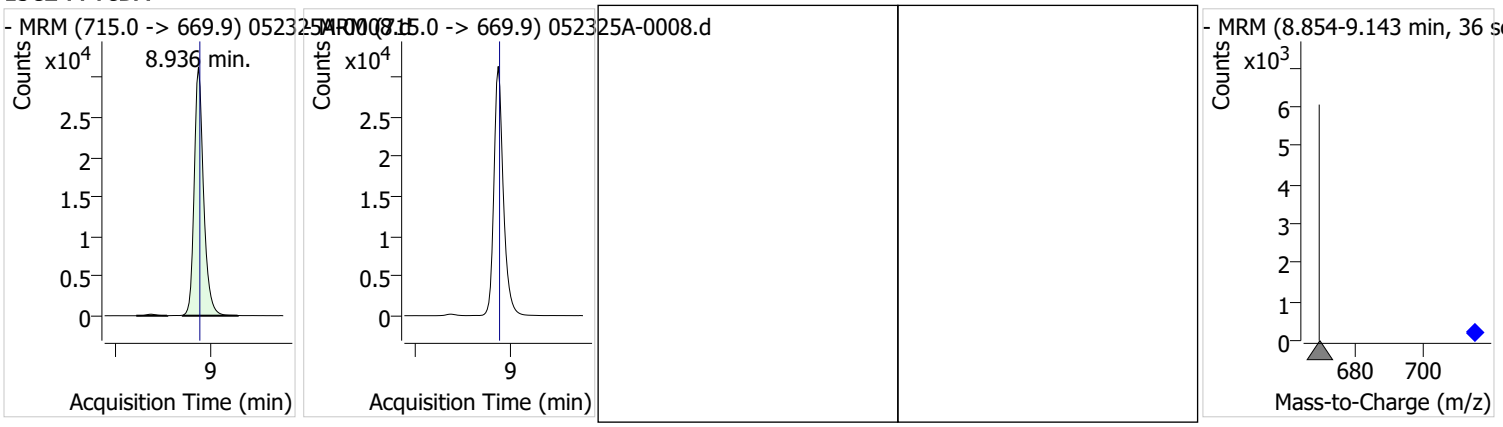




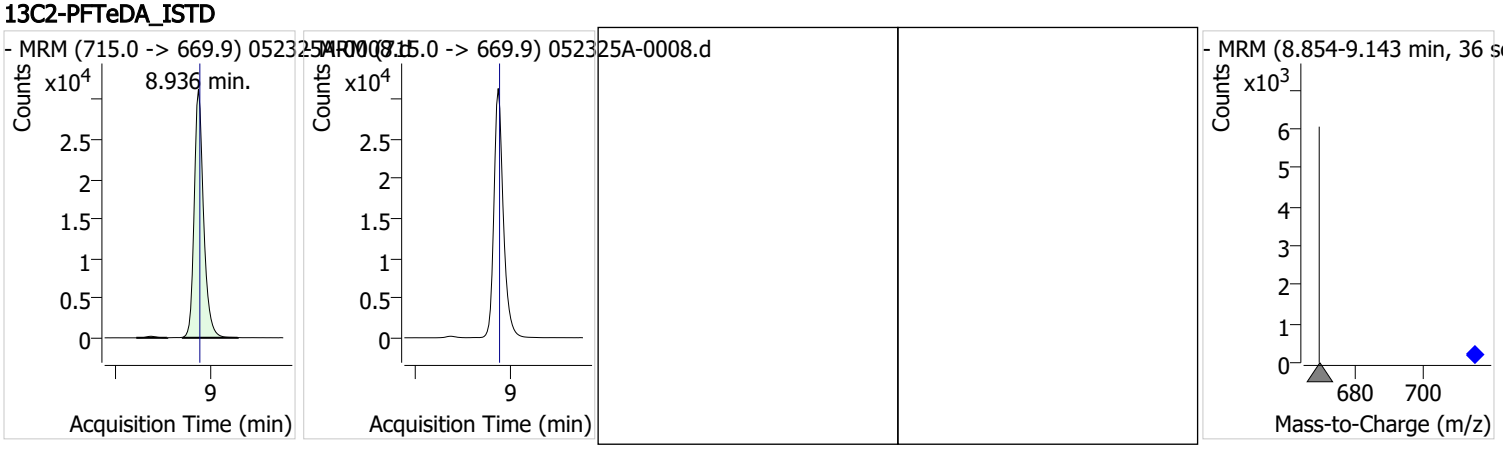
13C2-PFHxA



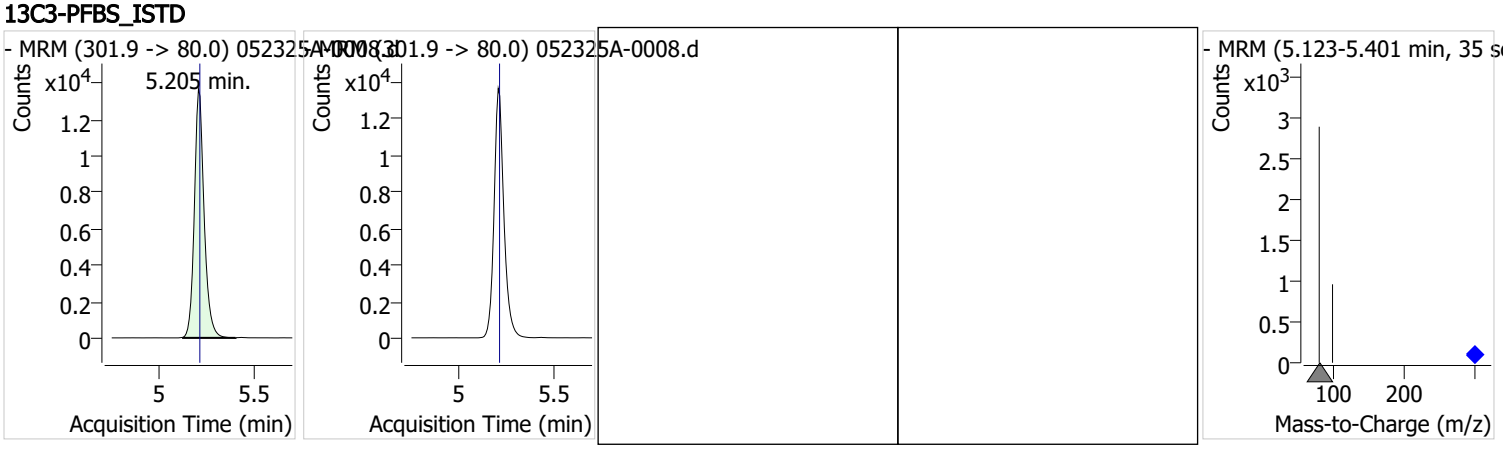
13C2-PFTeDA



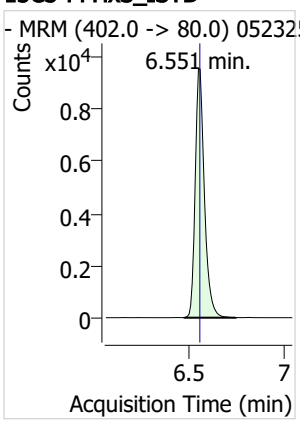
13C2-PFTeDA_ISTD

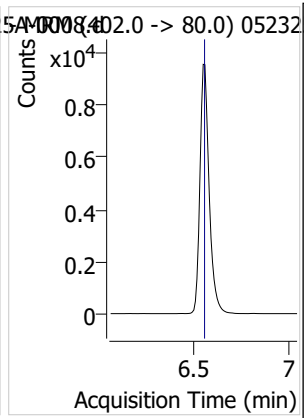


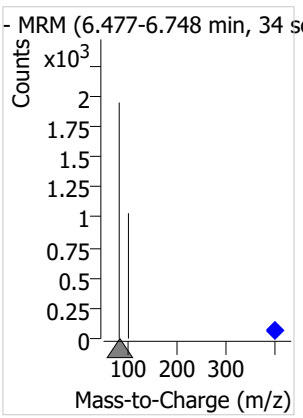
13C3-PFBS_ISTD



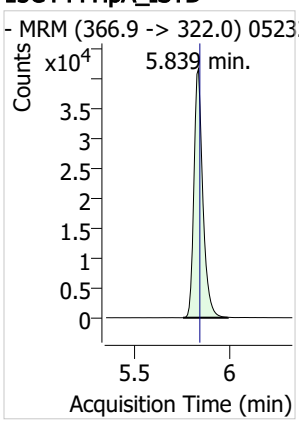
13C3-PFHxS_ISTD

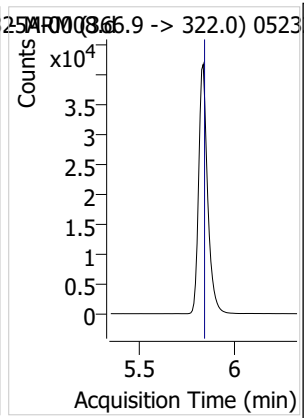


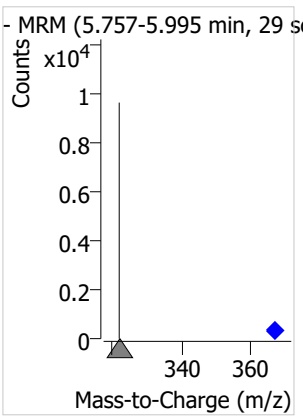




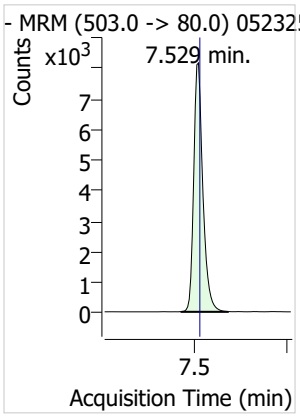
13C4-PFHpA_ISTD

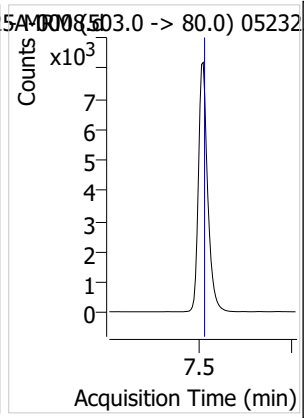


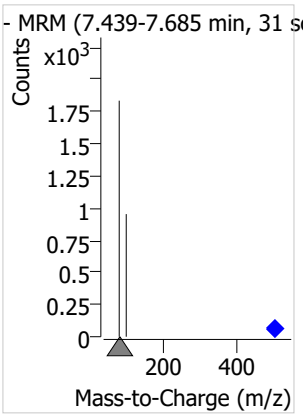




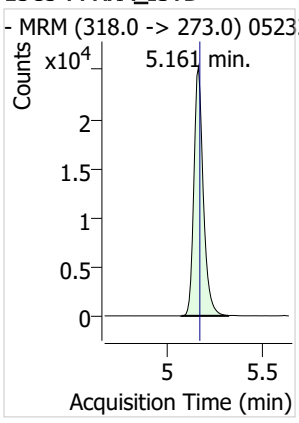
13C4-PFOS

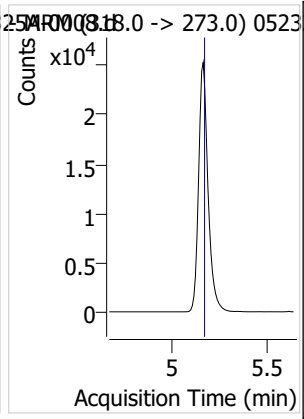


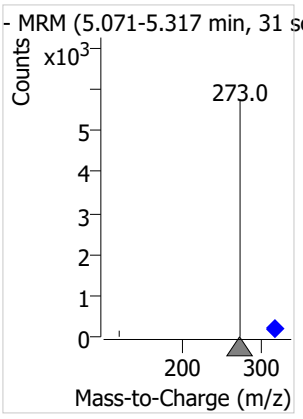




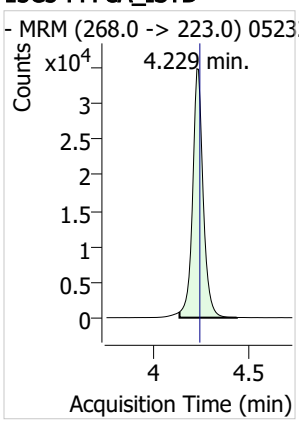
13C5-PFHxA_ISTD

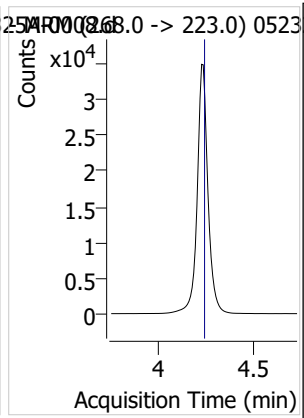


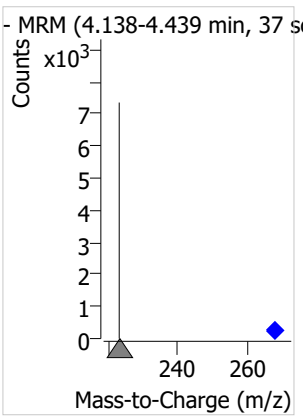




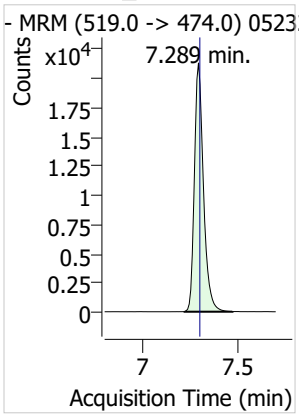
13C5-PFPeA_ISTD

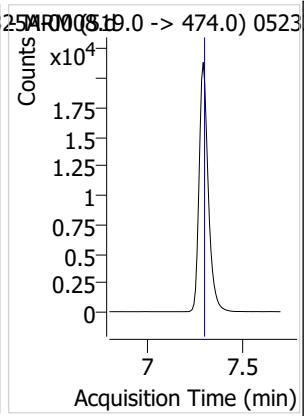


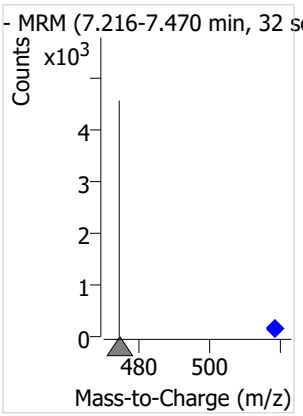




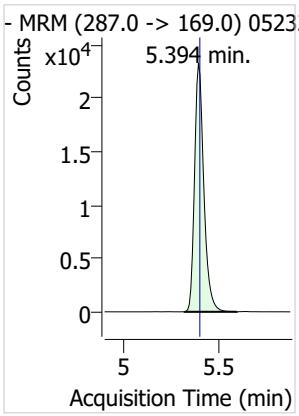
13C6-PFDA_ISTD

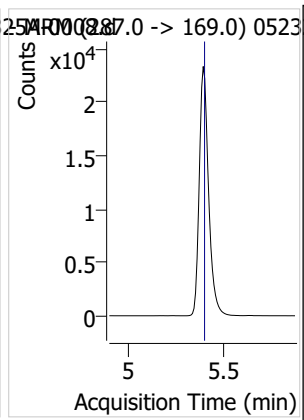


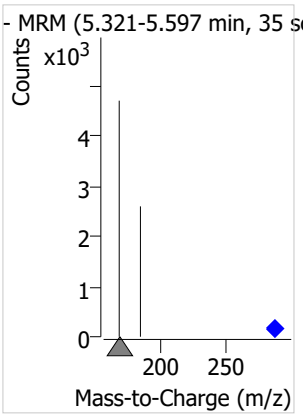




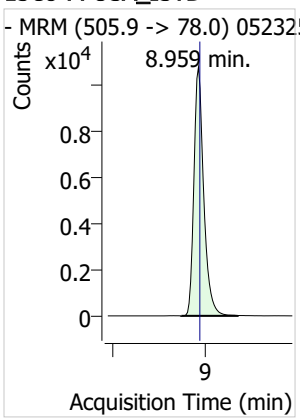
13C3-HFPODA

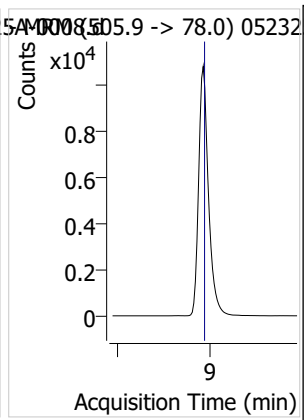


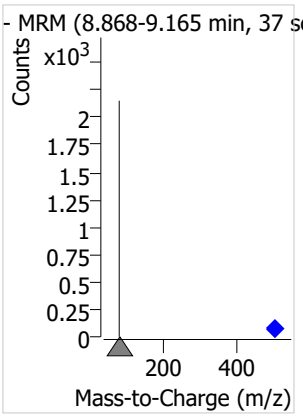




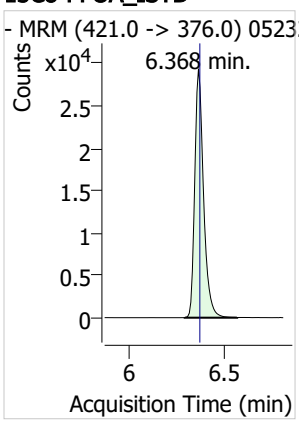
13C8-PFOSA_ISTD

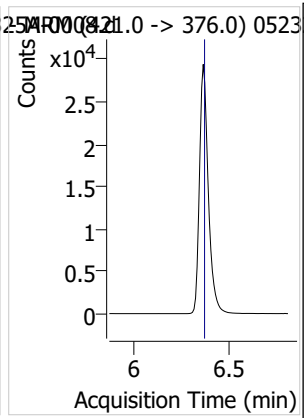


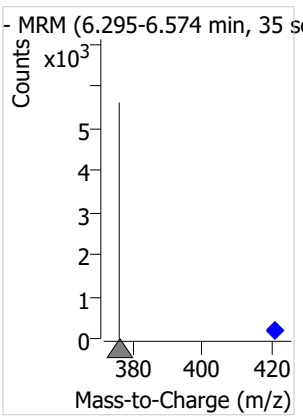




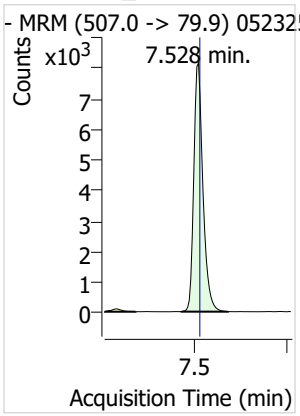
13C8-PFOA_ISTD

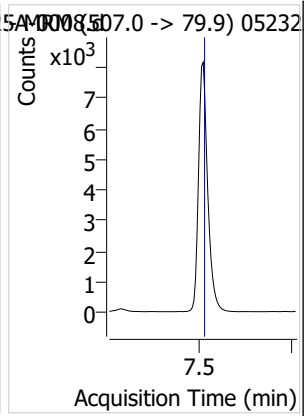


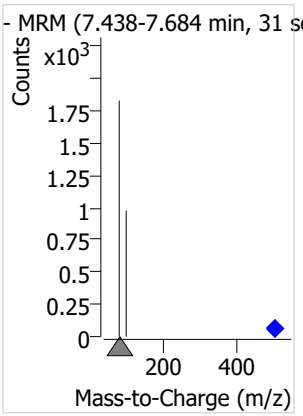




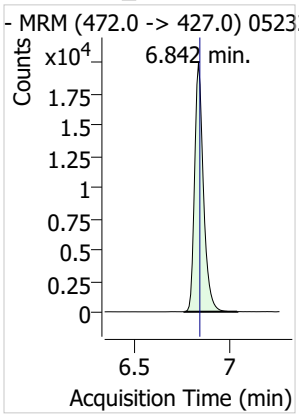
13C8-PFOS_ISTD

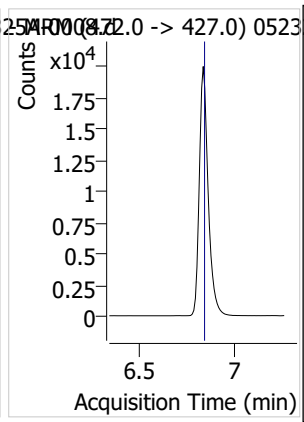


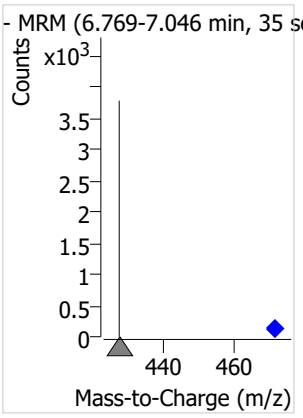




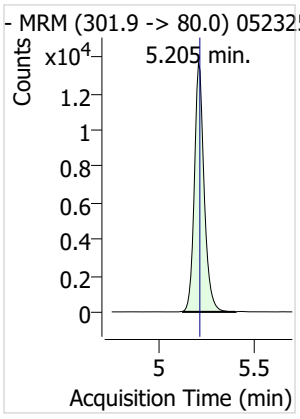
13C9-PFNA_ISTD

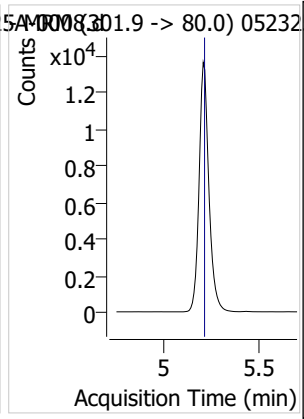


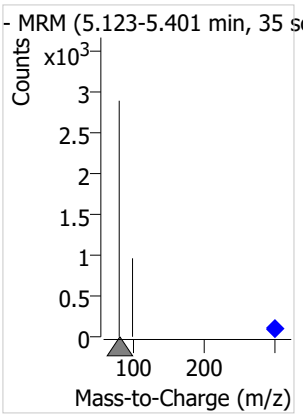




13C3-PFBS



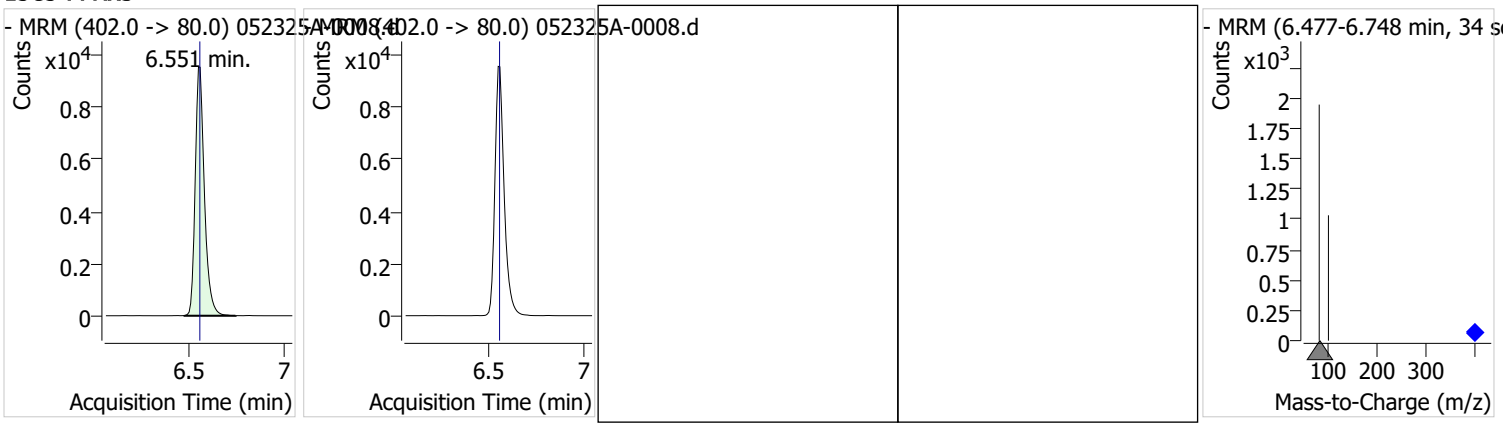




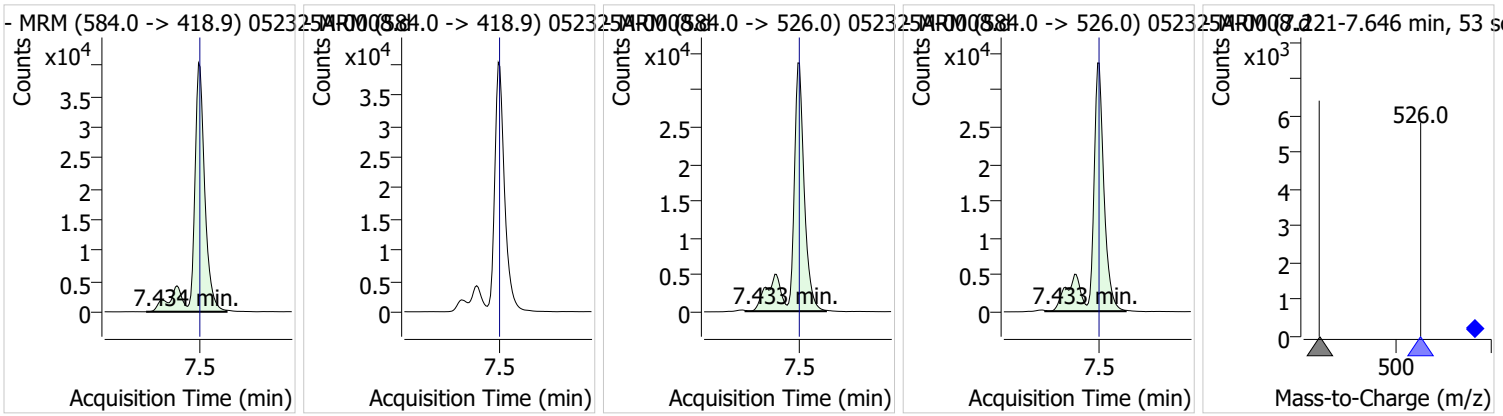
13C2-PFDoA_ISTD



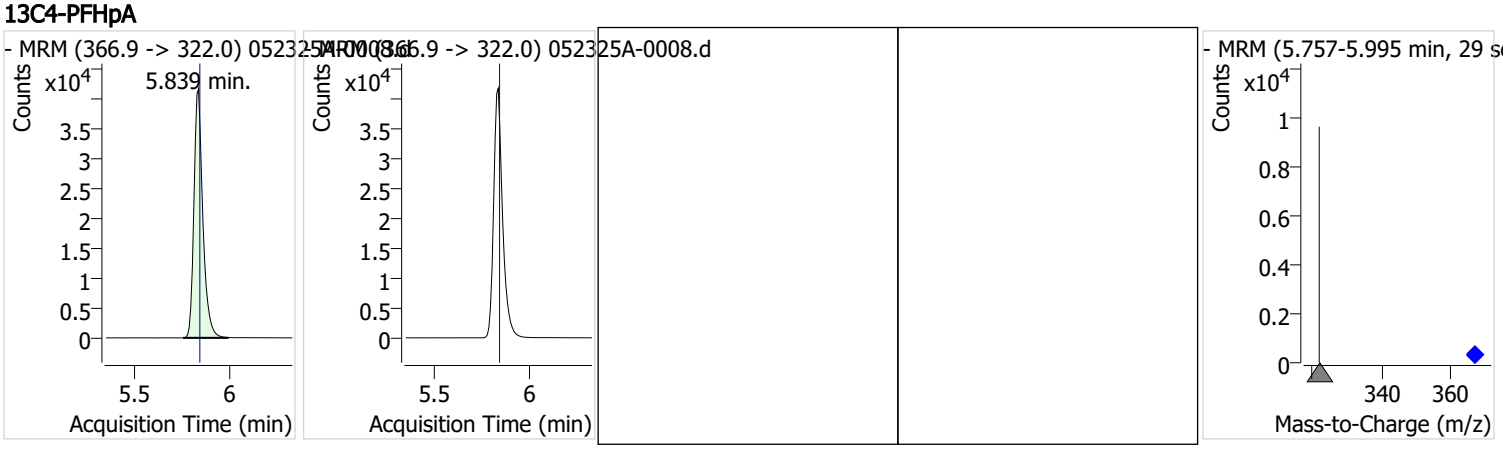
13C3-PFHxS



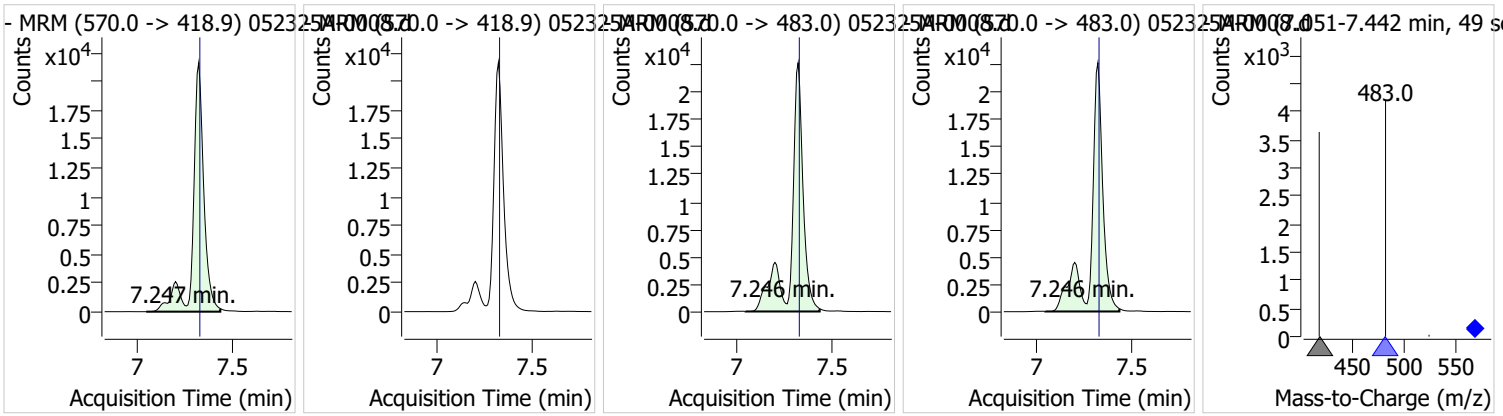
NEtFOSAA



13C4-PFHpA



NMeFOSAA



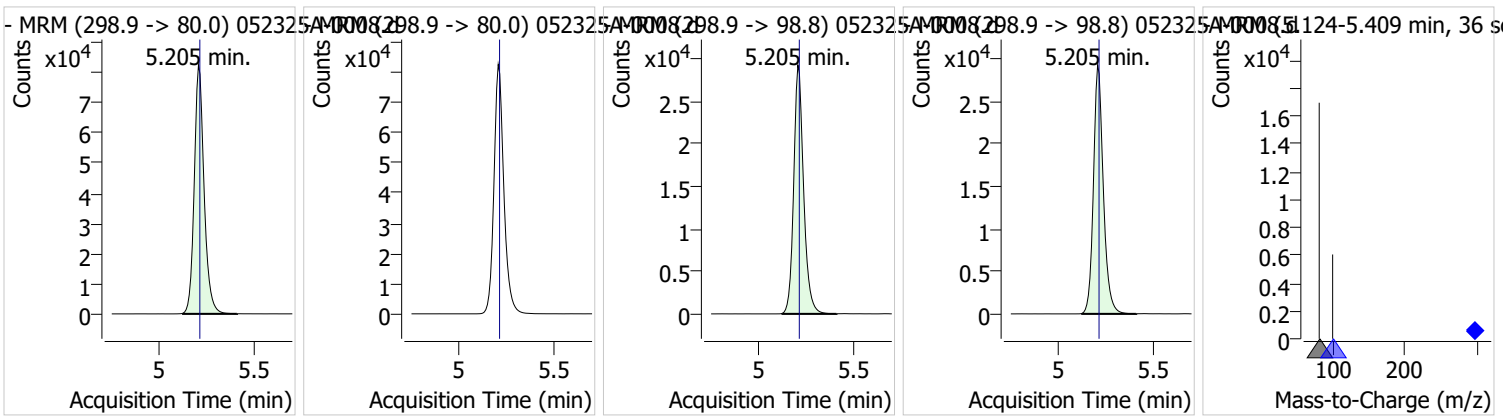
PFBA



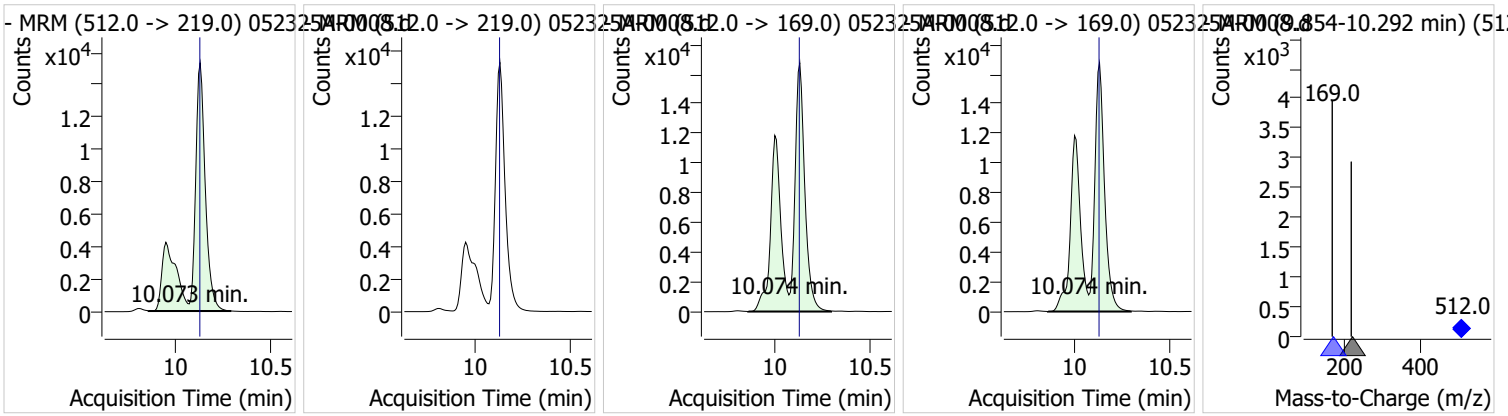
13C5-PFHxA



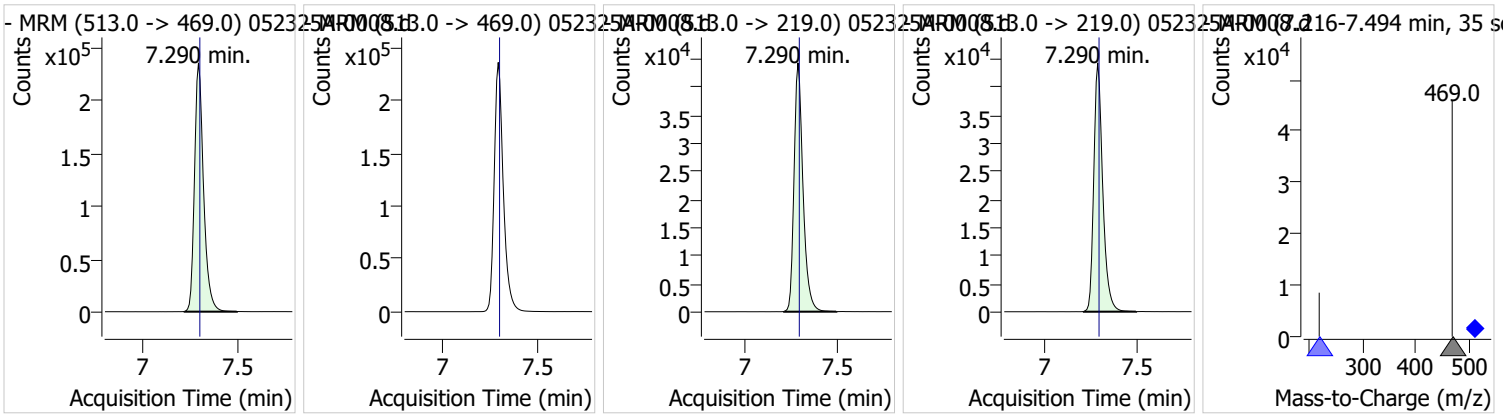
PFBS



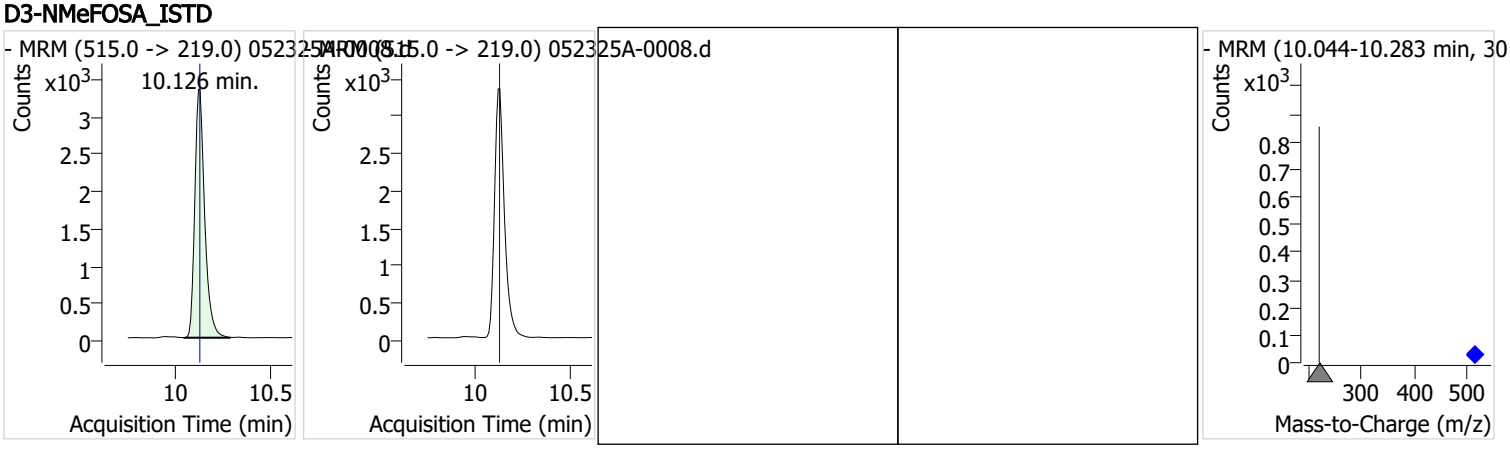
NMeFOSA



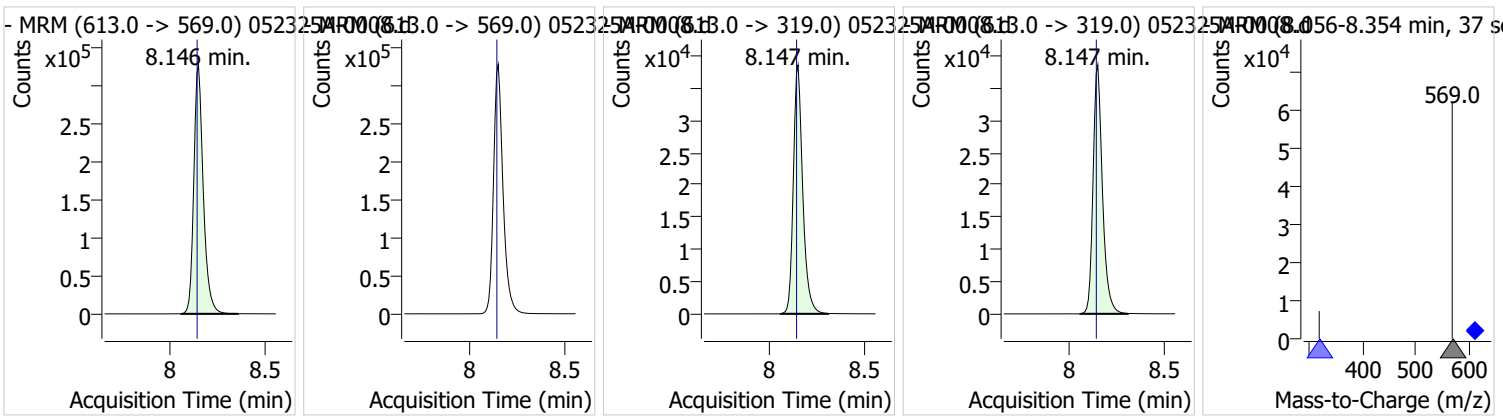
PFDA



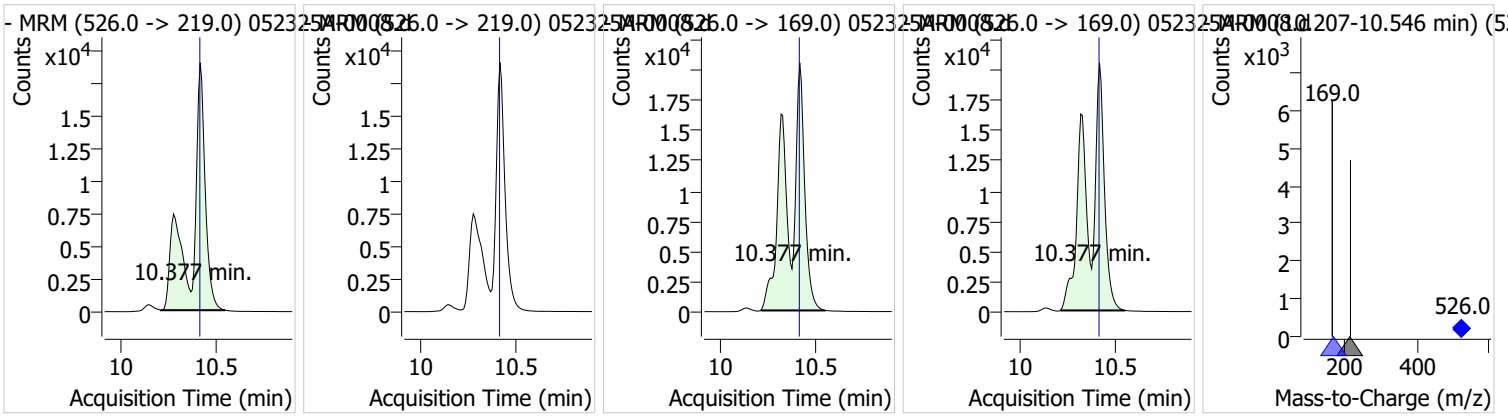
D3-NMeFOSA_ISTD



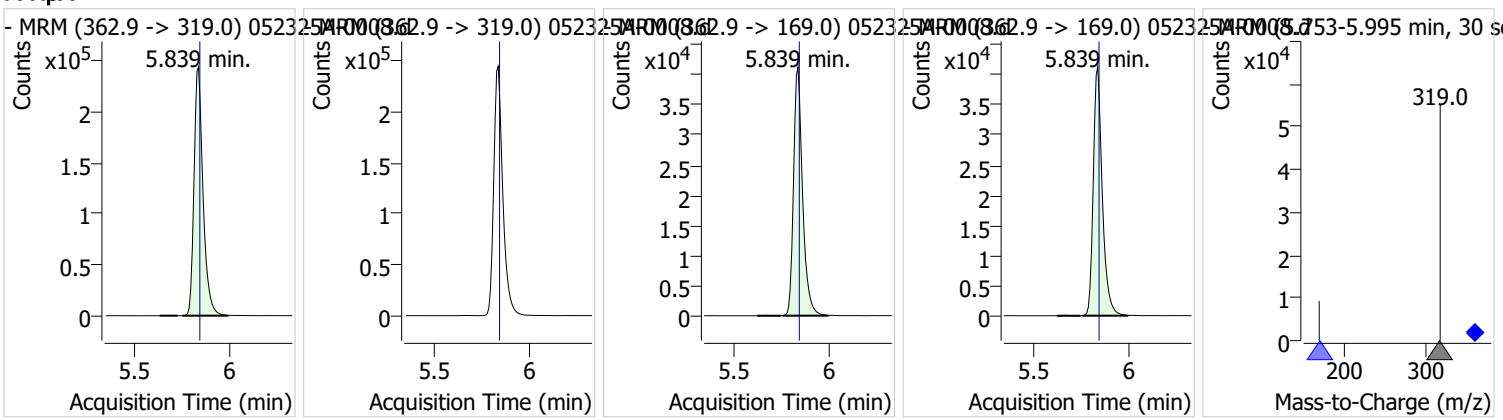
PFDoA



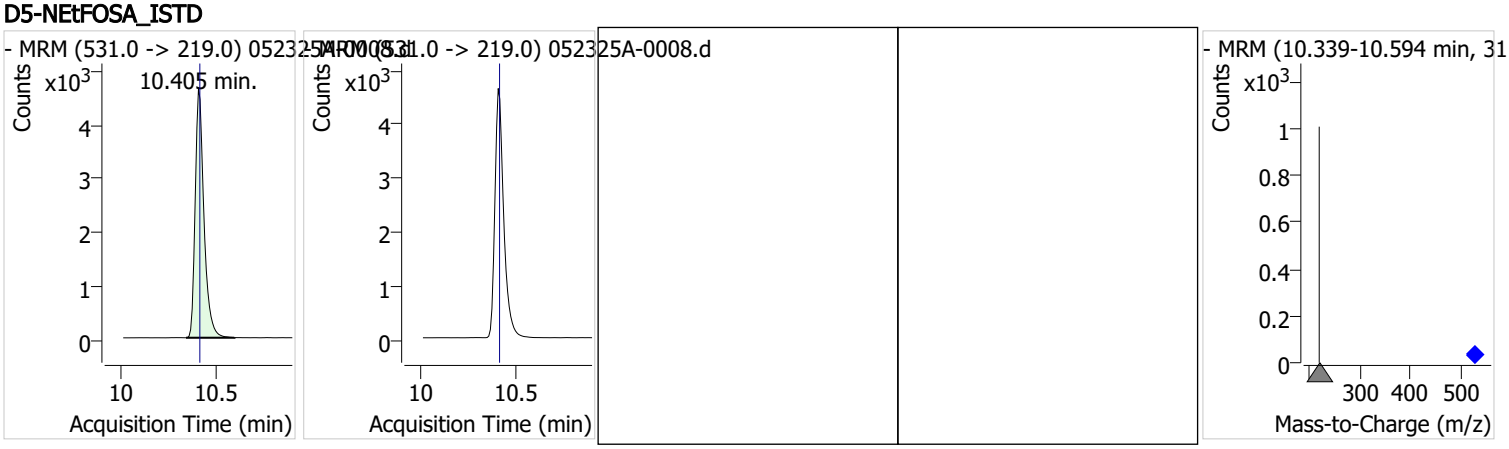
NEtFOSA



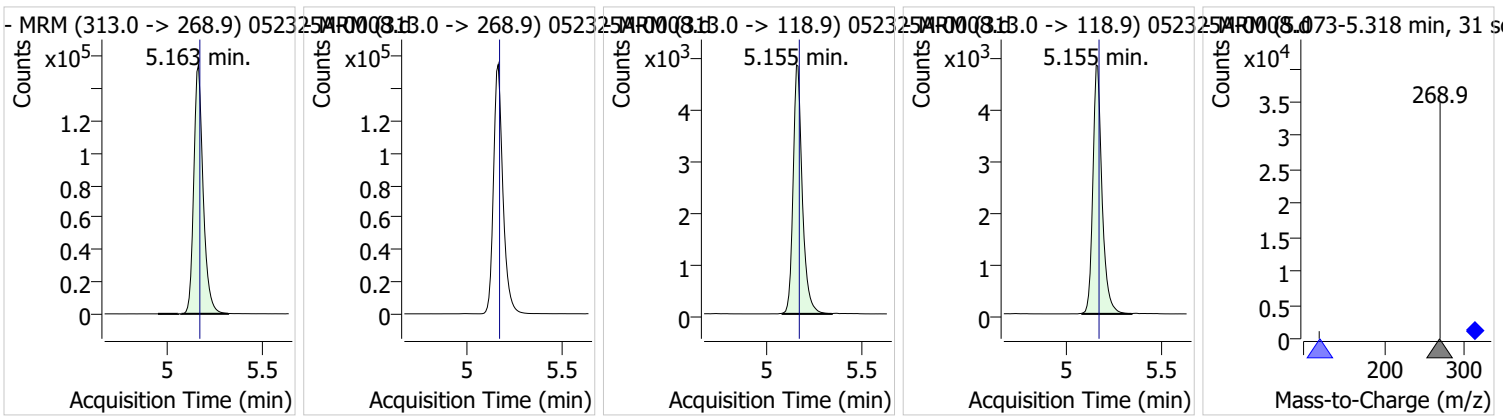
PFHpA



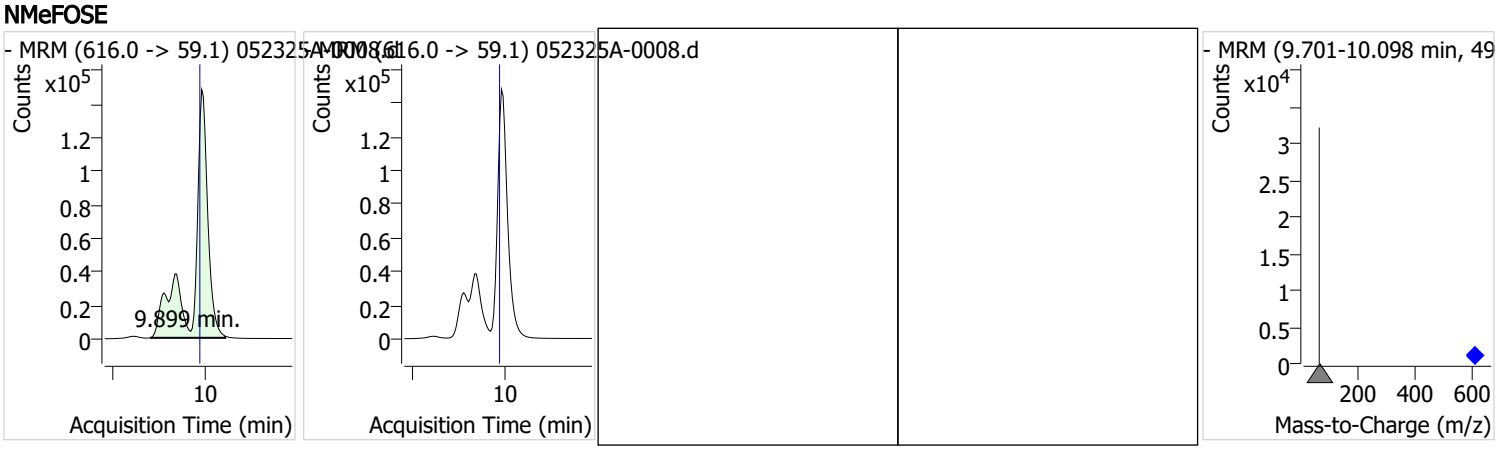
D5-NEtFOSA_ISTD



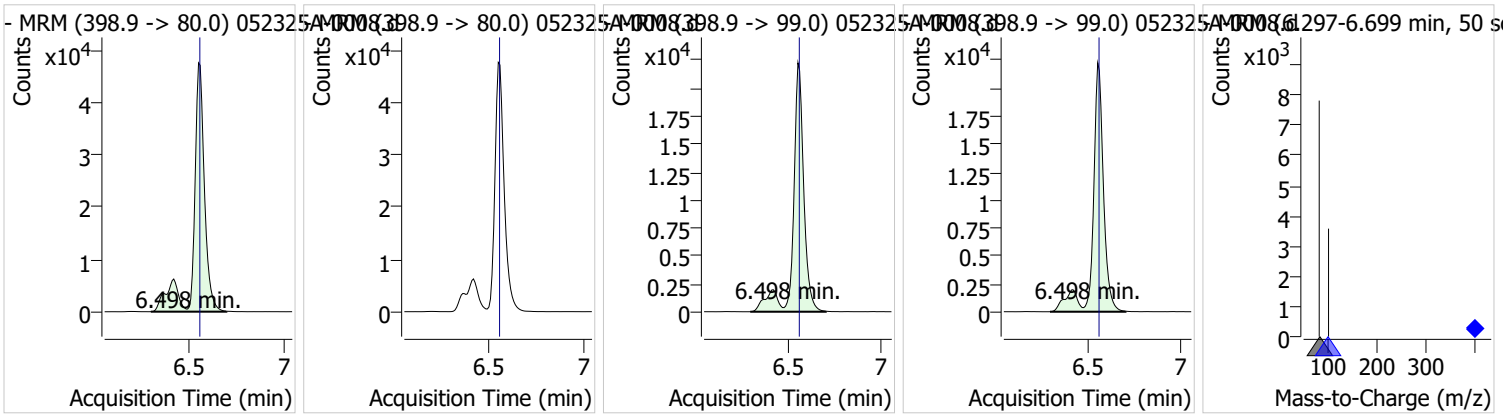
PFHxA



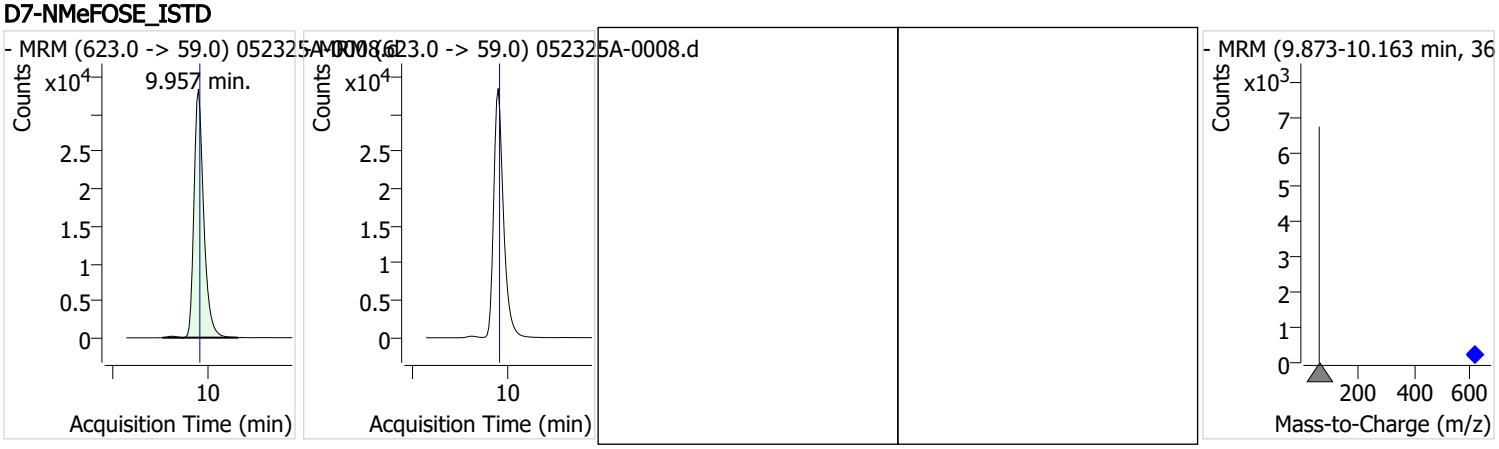
NMeFOSE



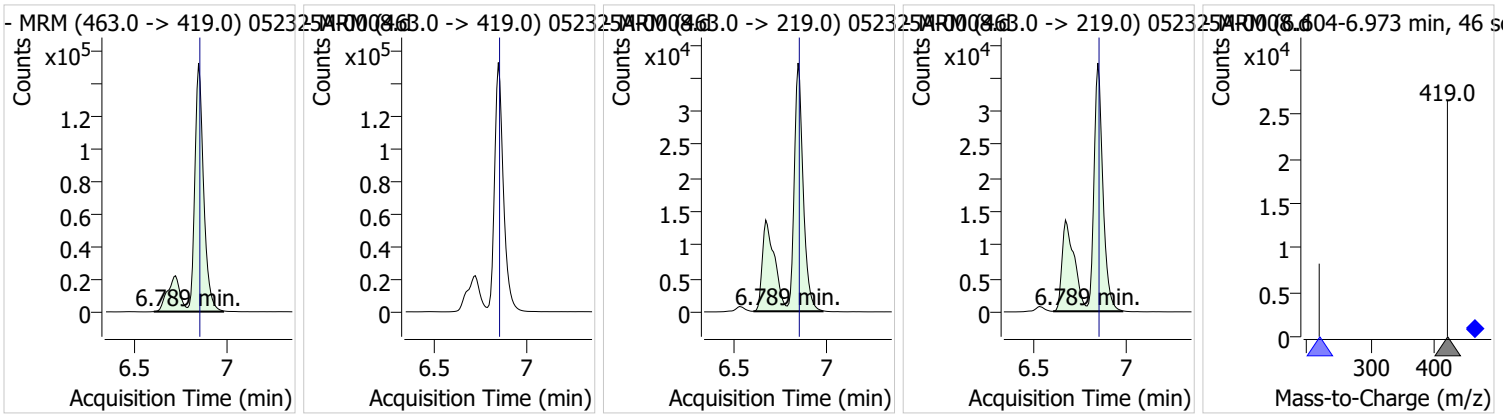
PFHxS



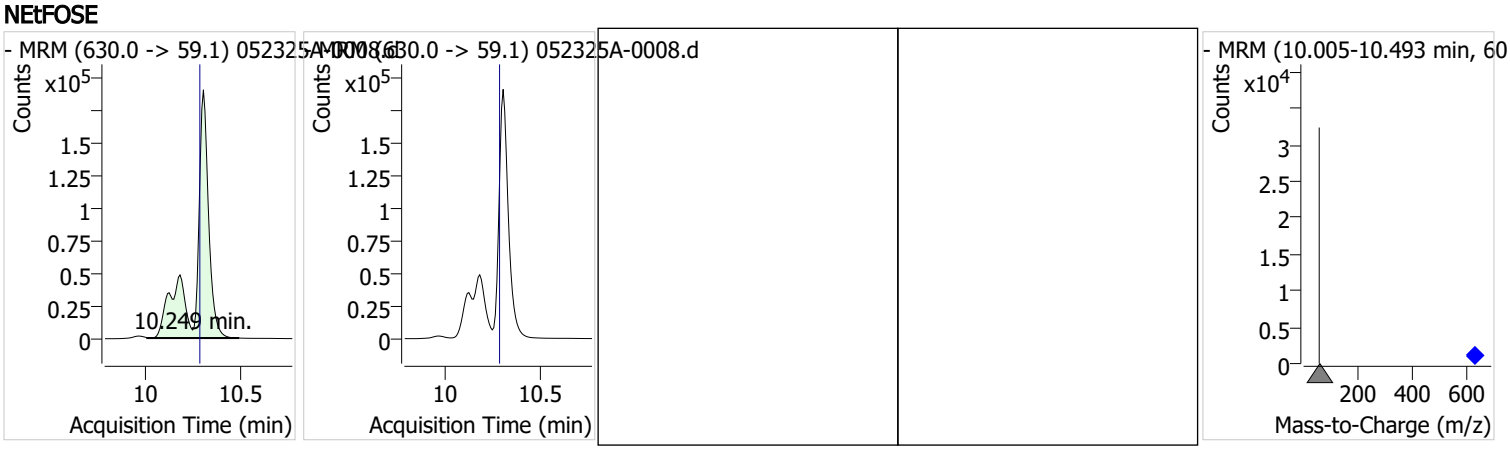
D7-NMeFOSE_ISTD



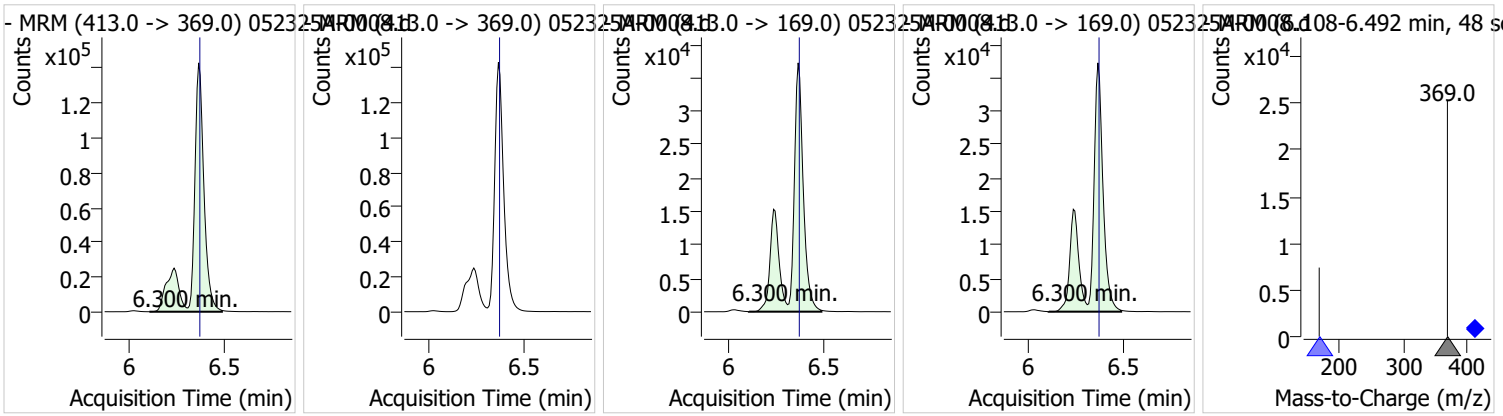
PFNA



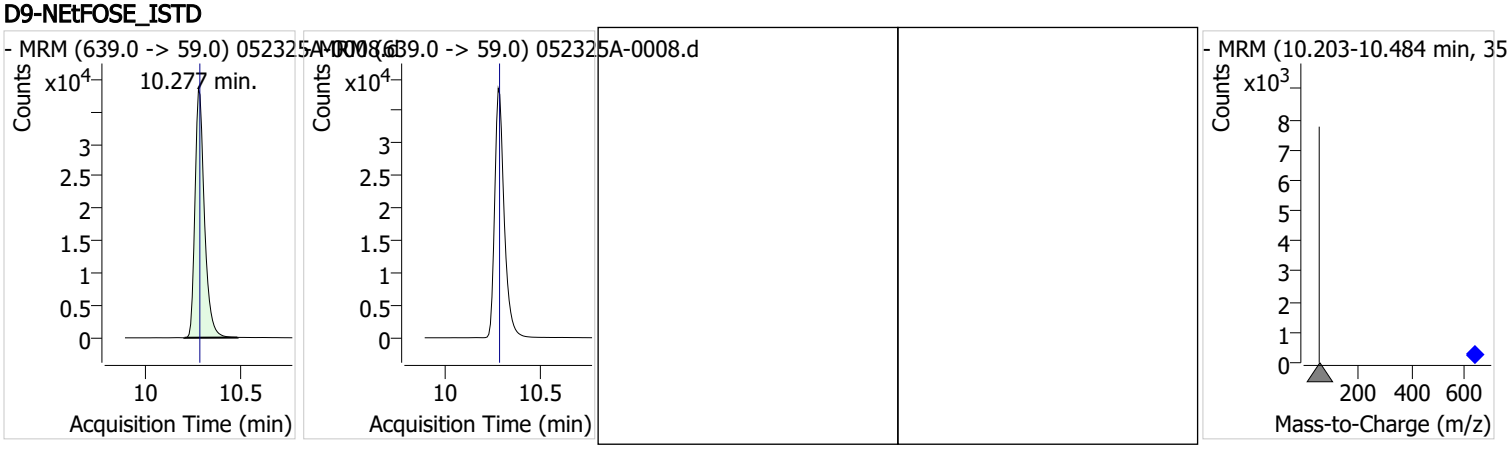
NEtFOSE



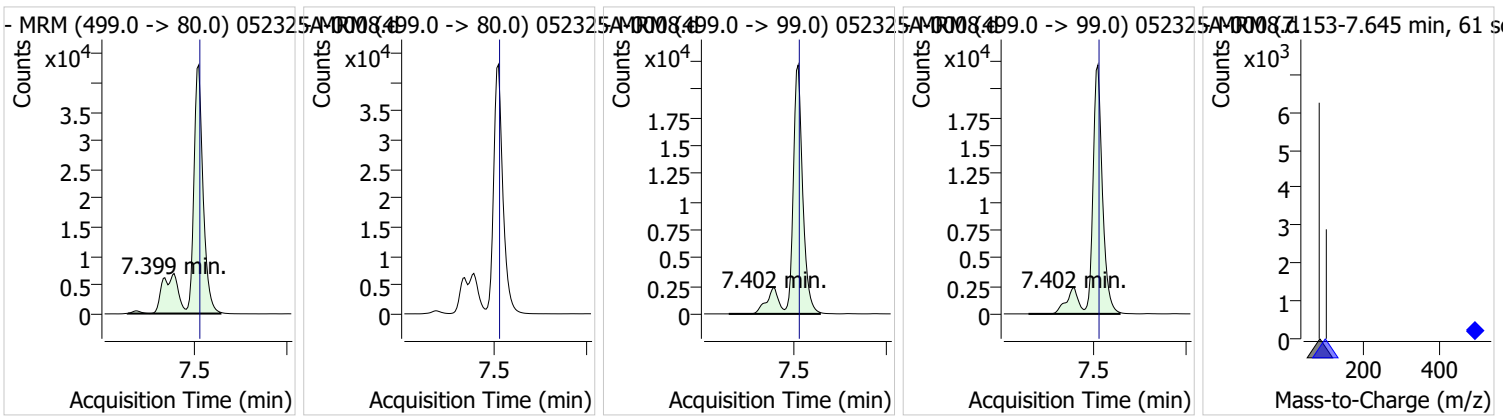
PFOA



D9-NEtFOSE_ISTD



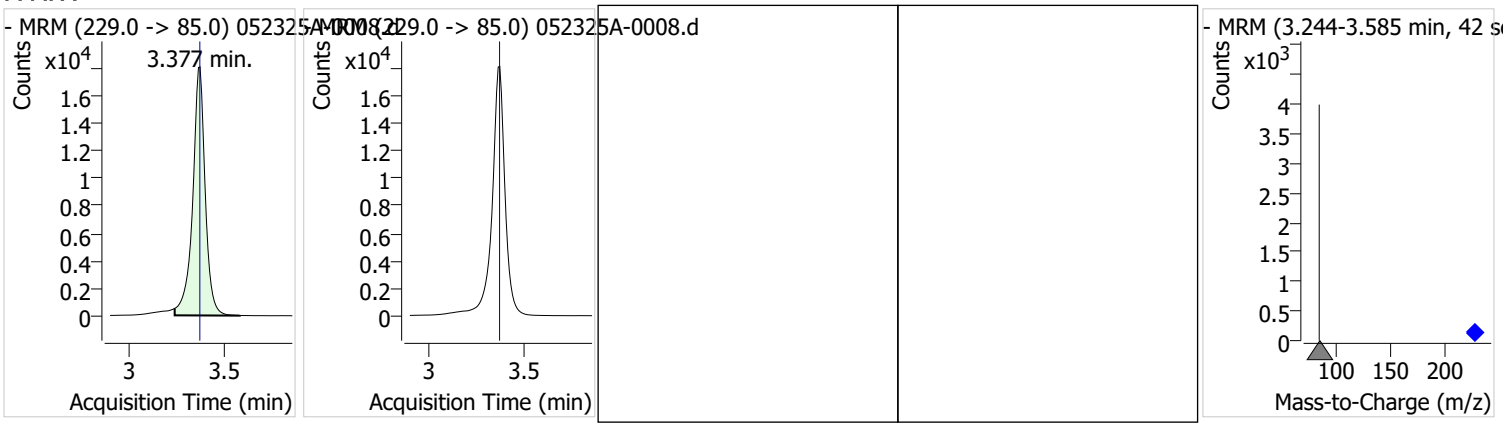
PFOS



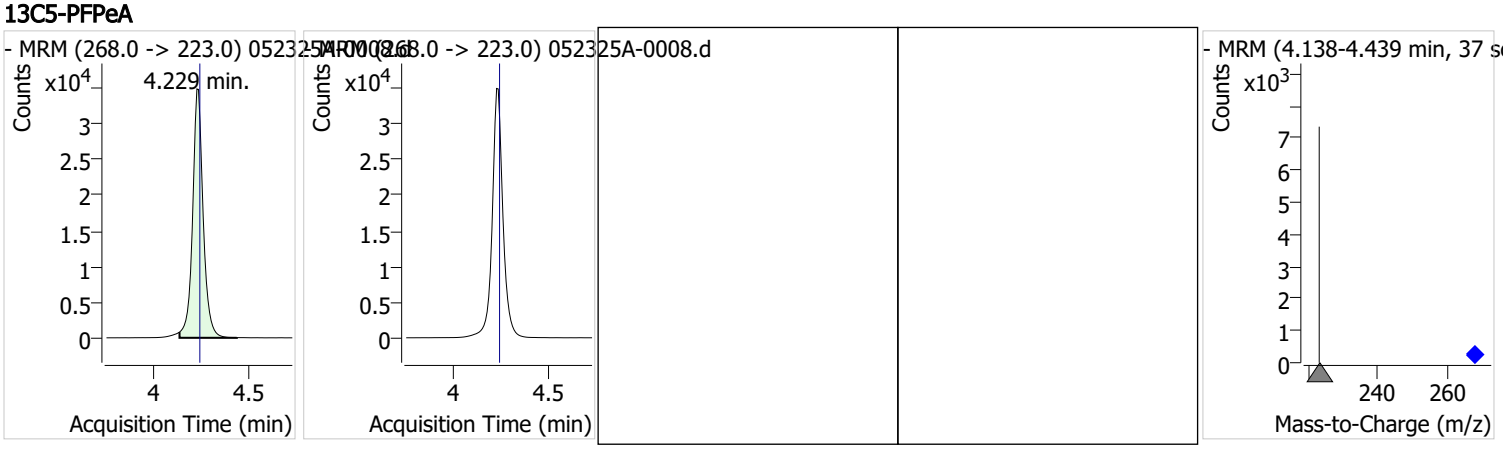
PFPeA



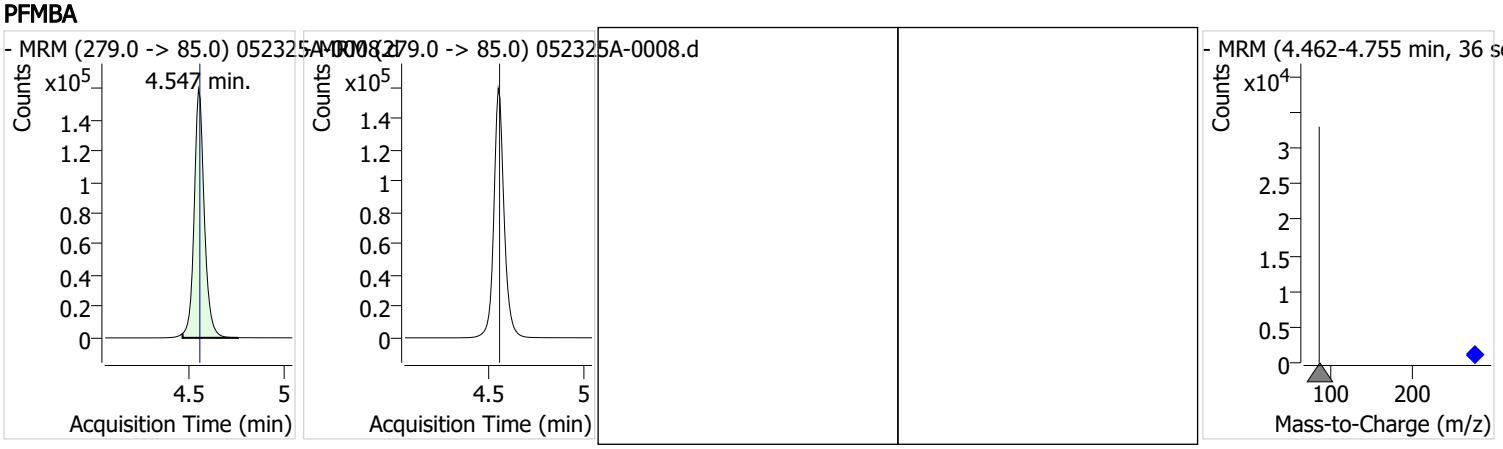
PFMPA



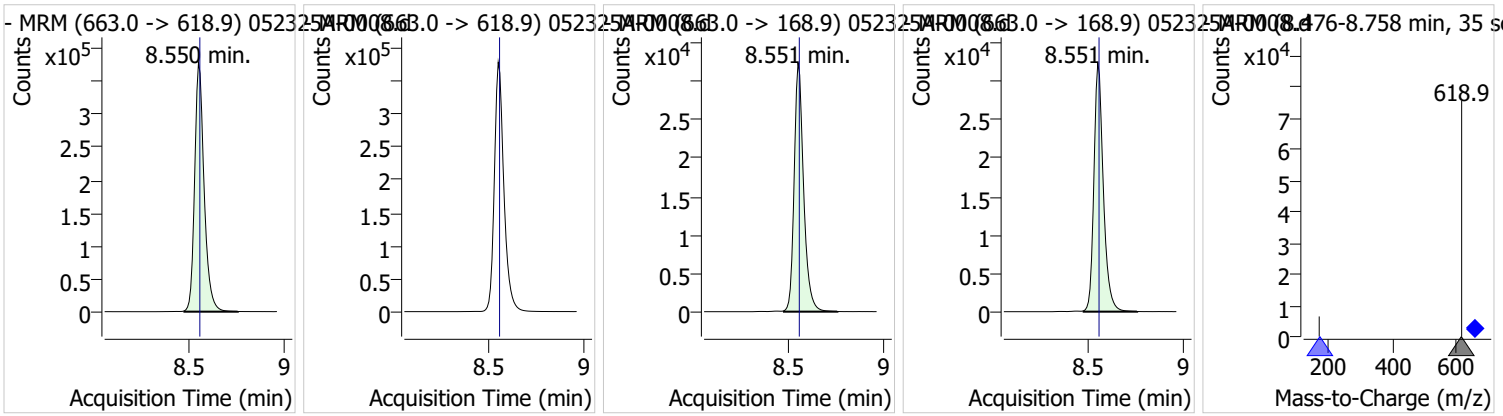
13C5-PFPeA



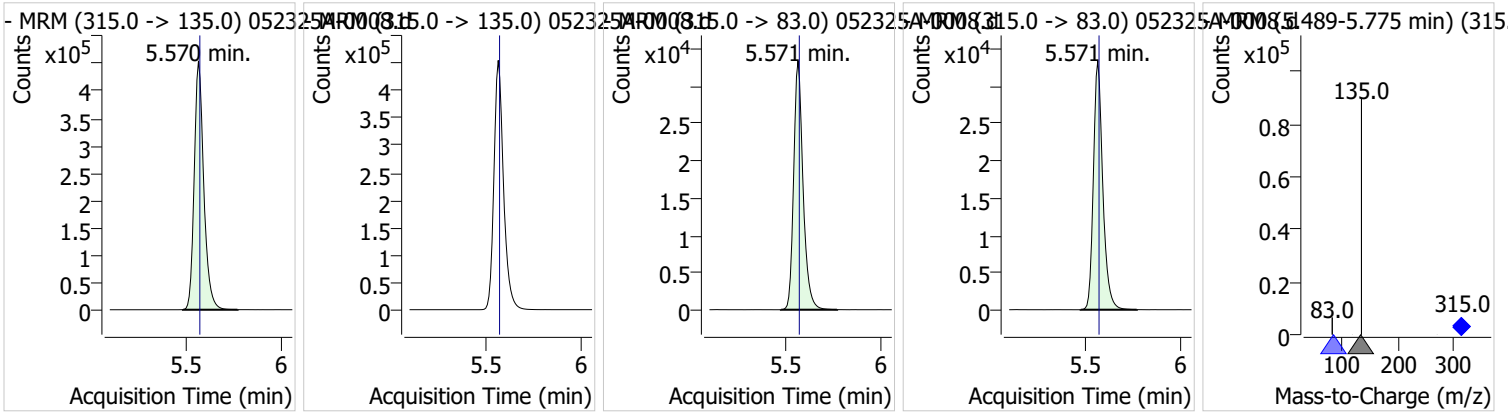
PFMBA



PFTrDA



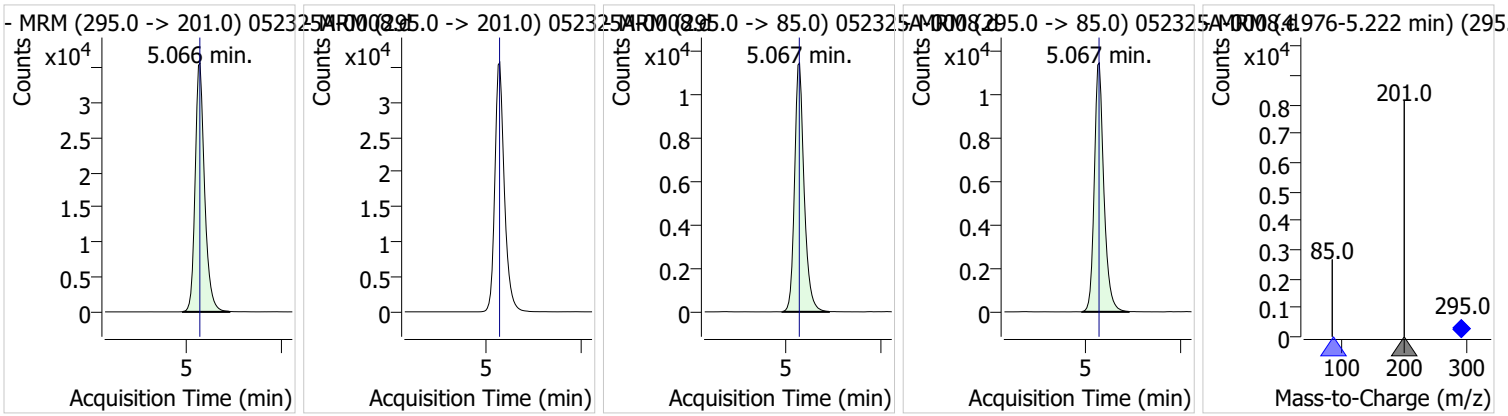
PFEESA



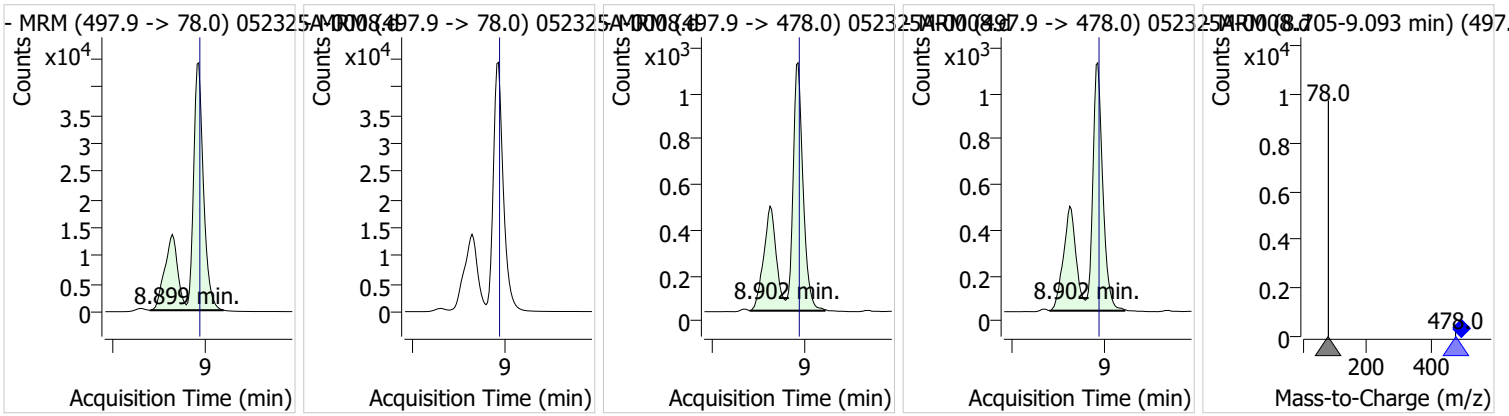
13C6-PFDA



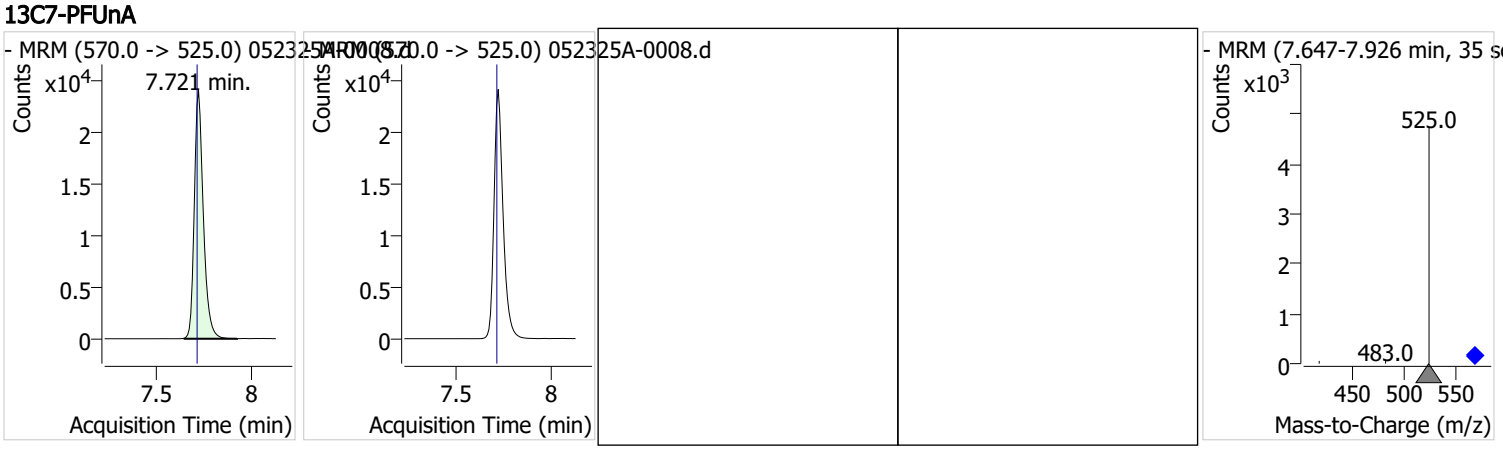
NFDHA



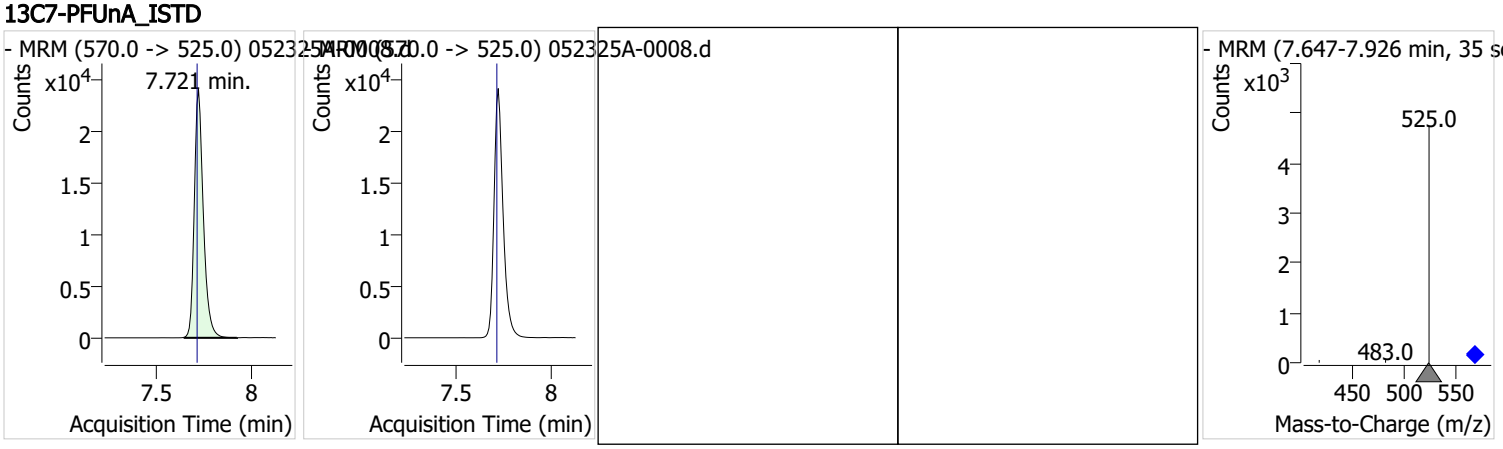
PFOSA



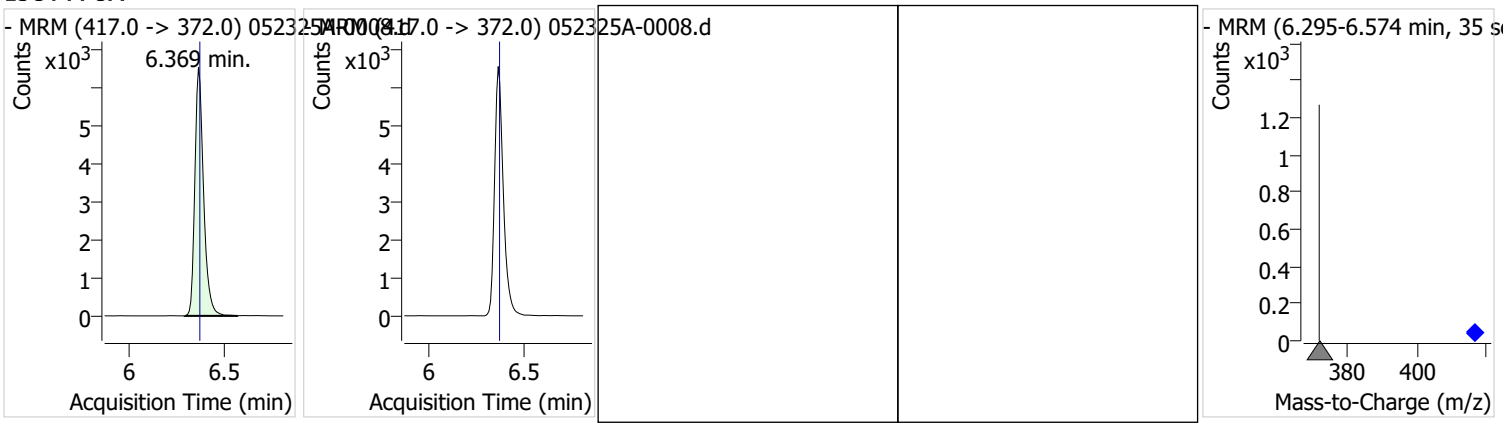
13C7-PFUnA



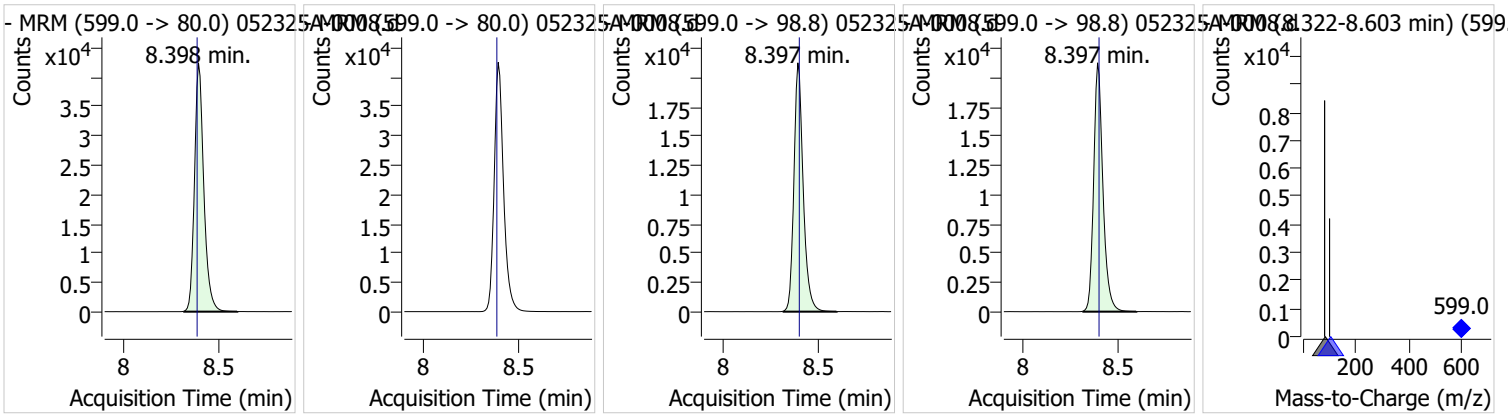
13C7-PFUnA_ISTD



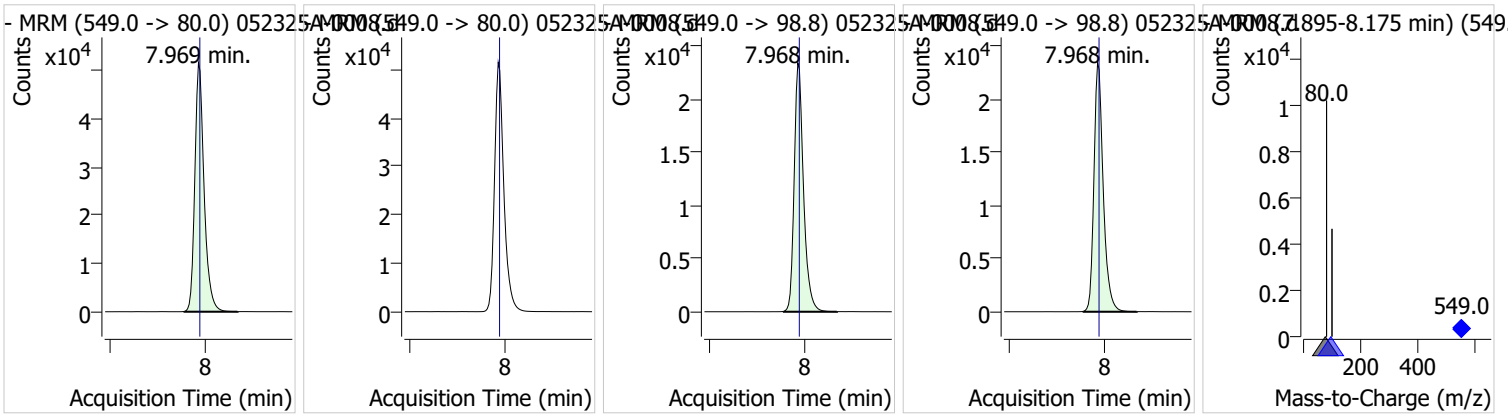
13C4-PFOA



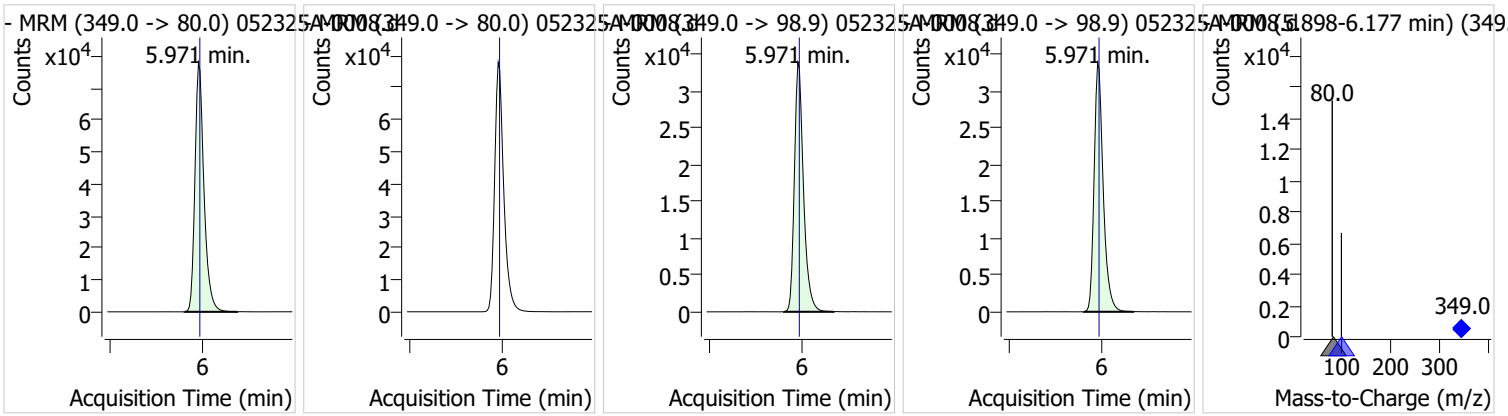
PFDS



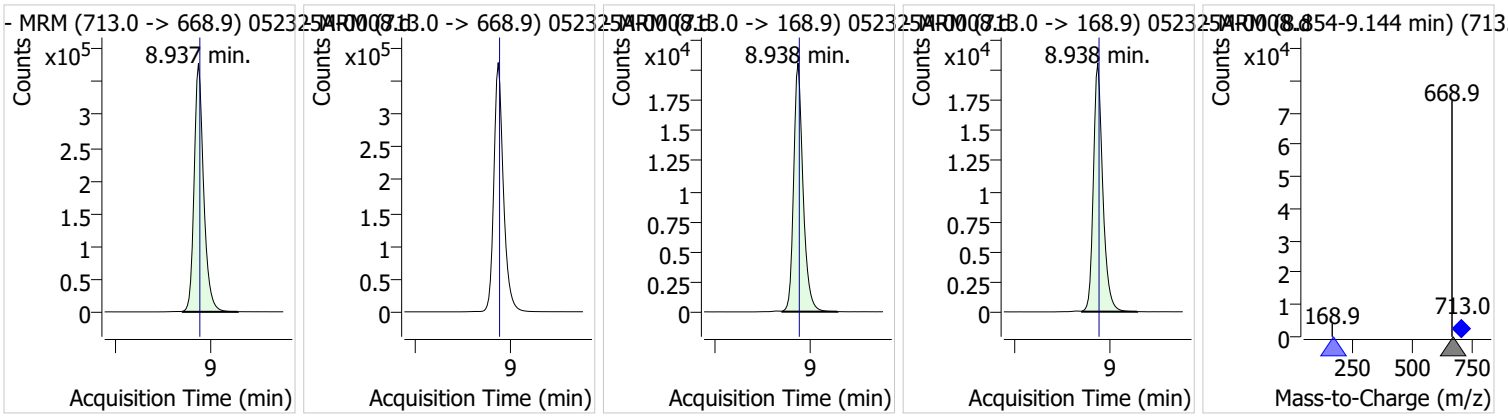
PFNS



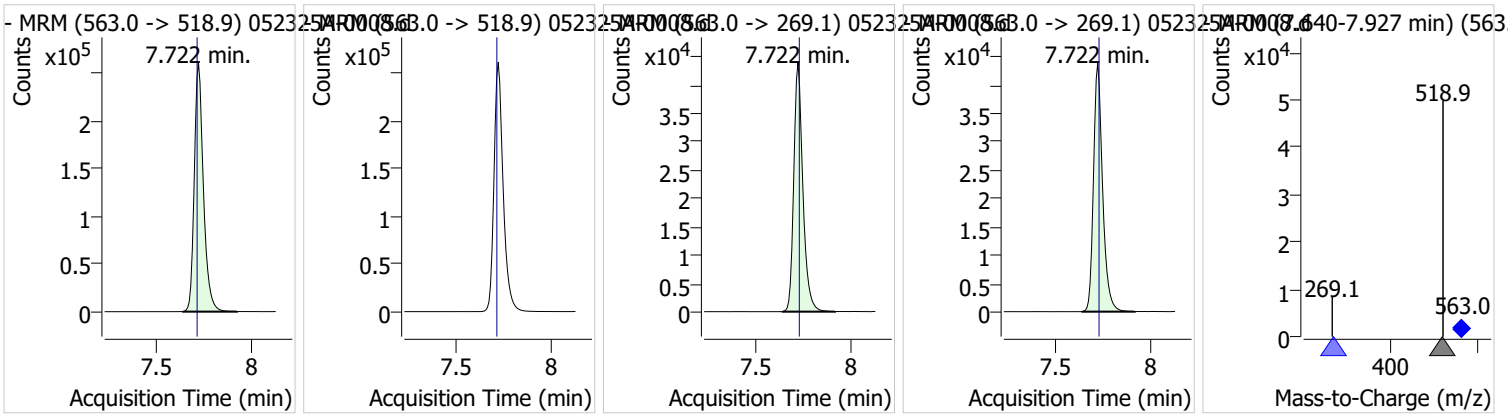
PFPeS



PFTeDA



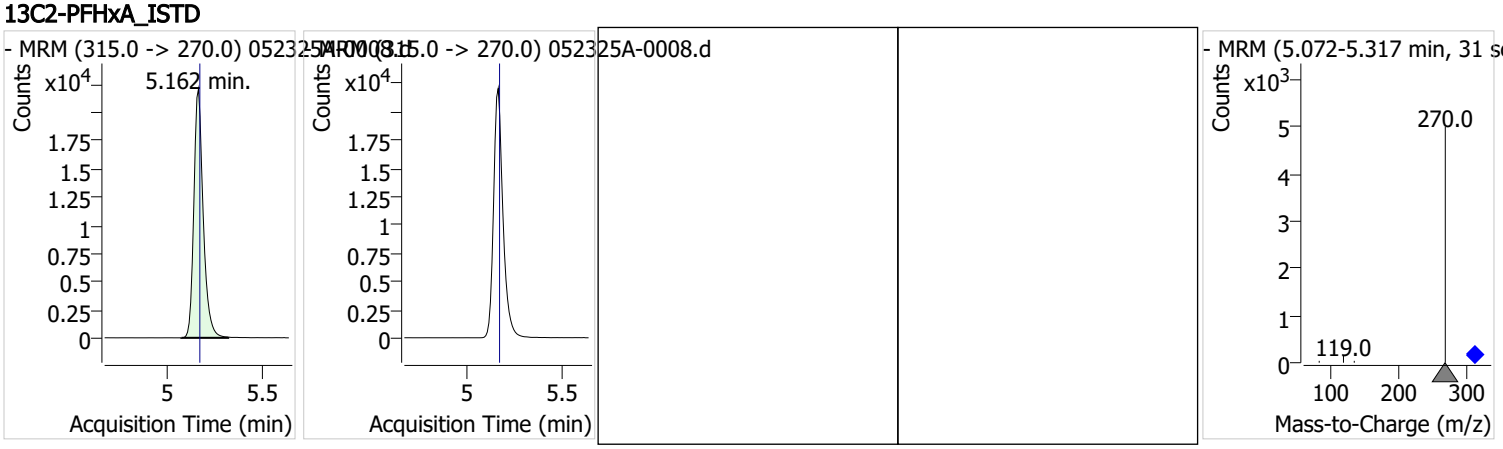
PFUnA



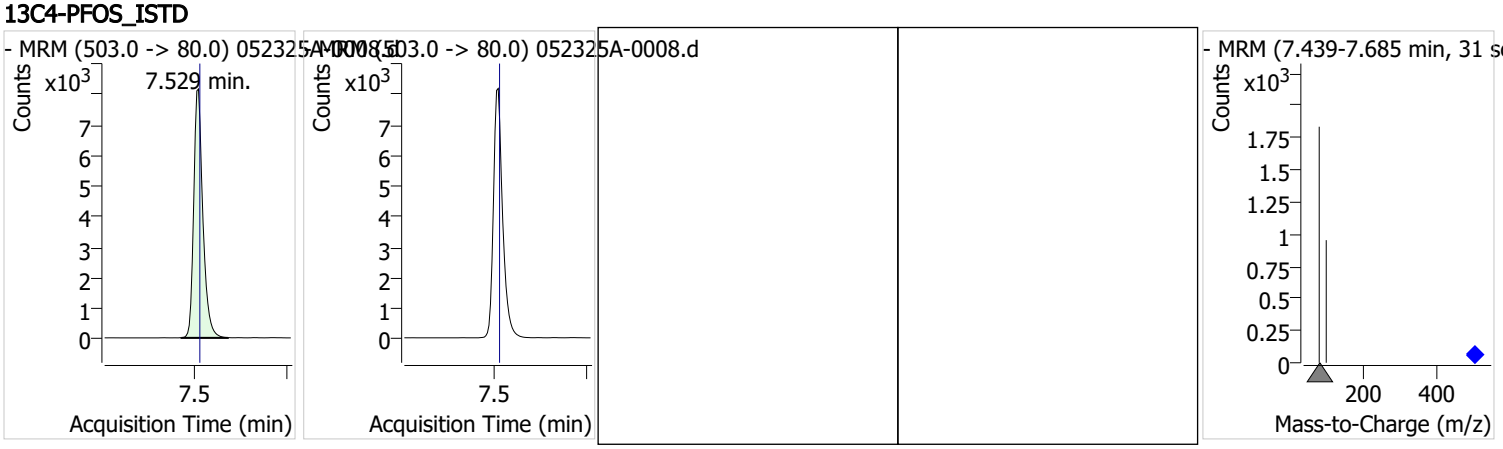
13C2-PFDA_ISTD



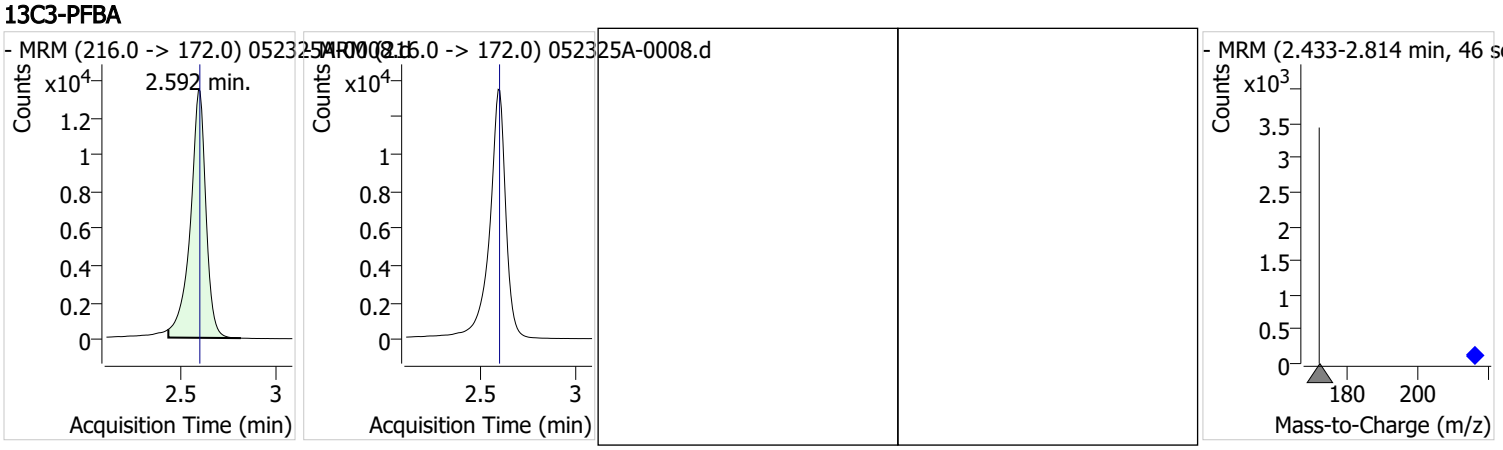
13C2-PFHxA_ISTD



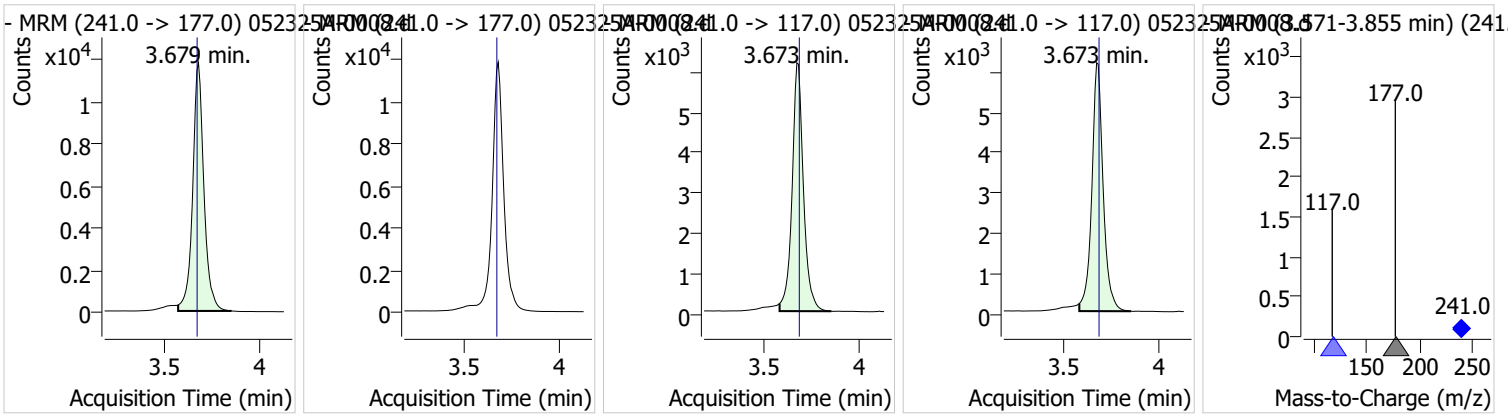
13C4-PFOS_ISTD



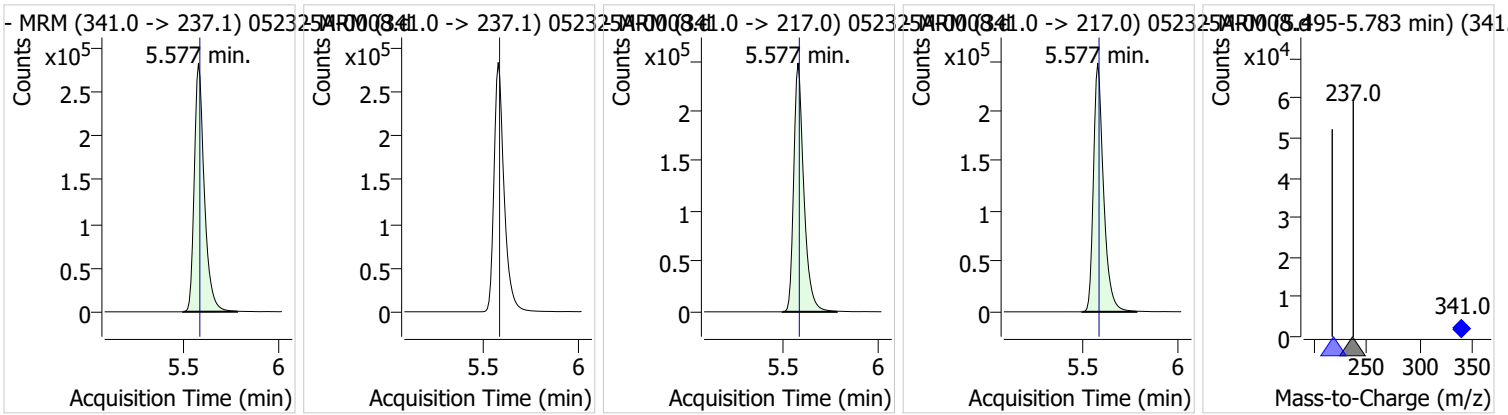
13C3-PFBA



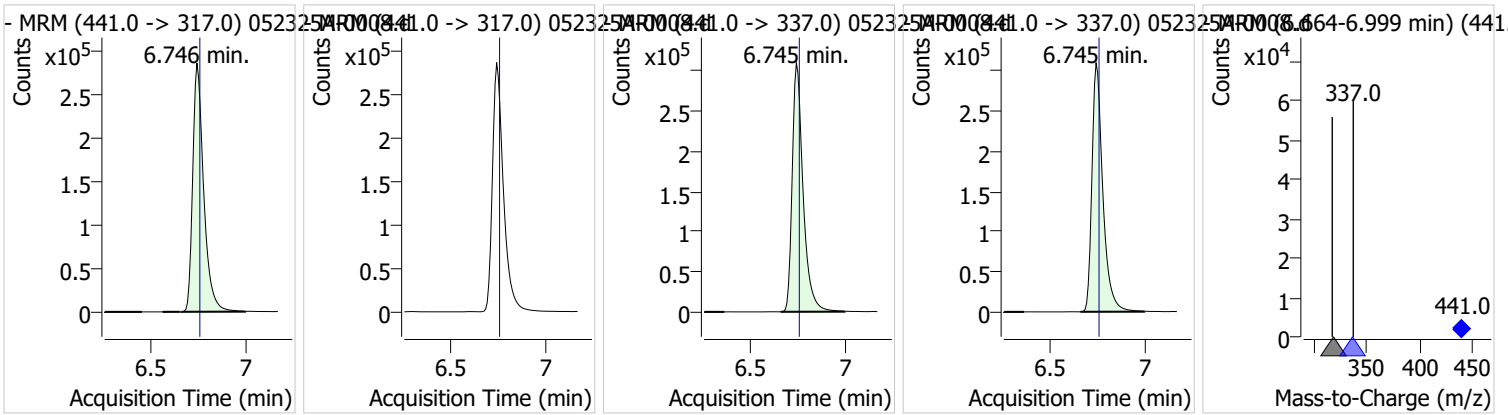
3:3FTCA



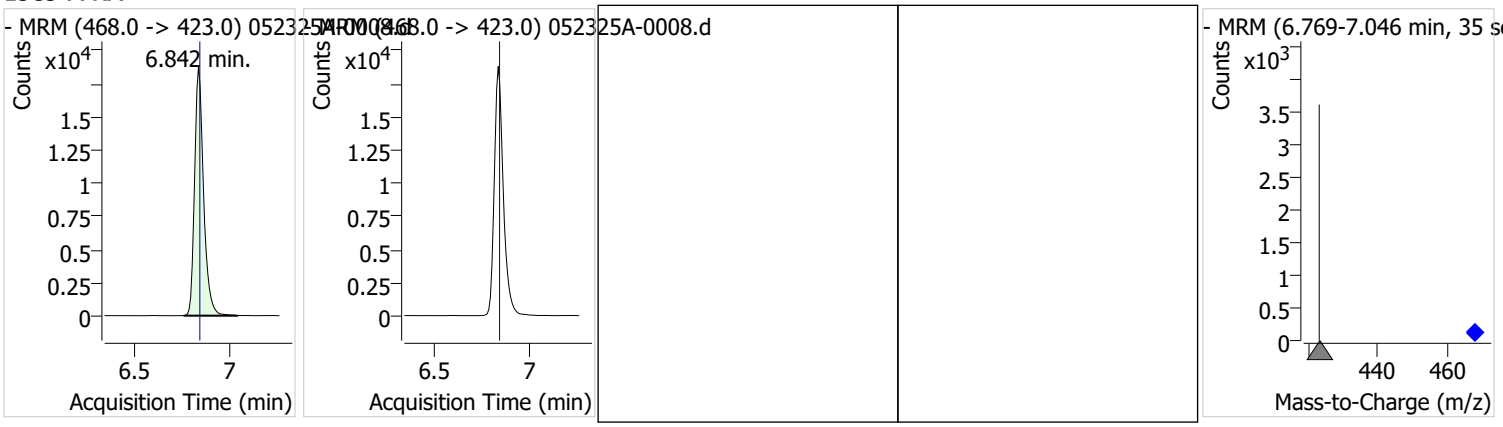
5:3FTCA



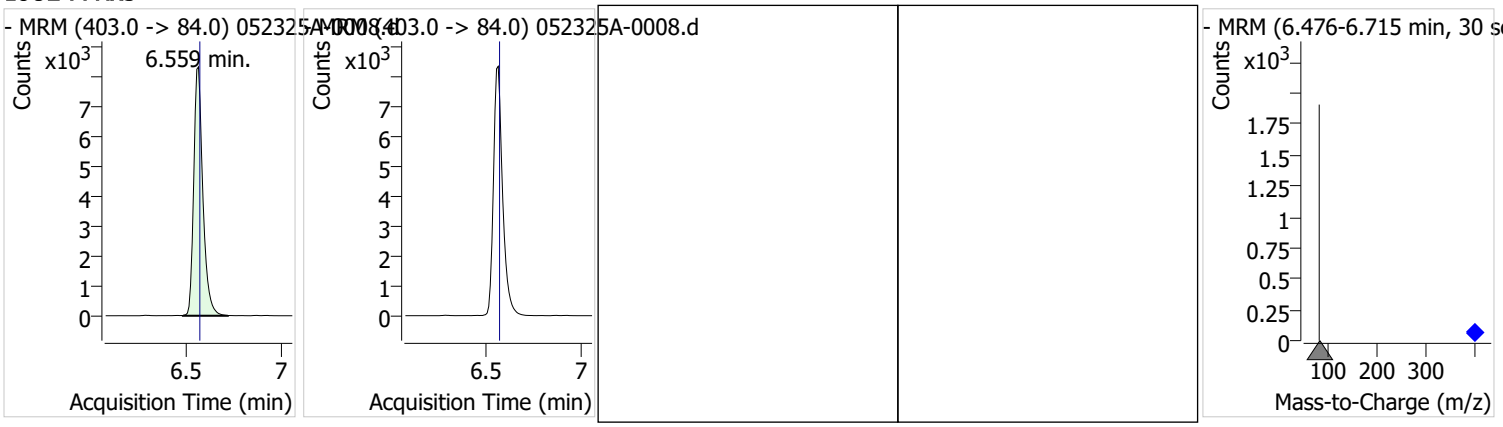
7:3FTCA



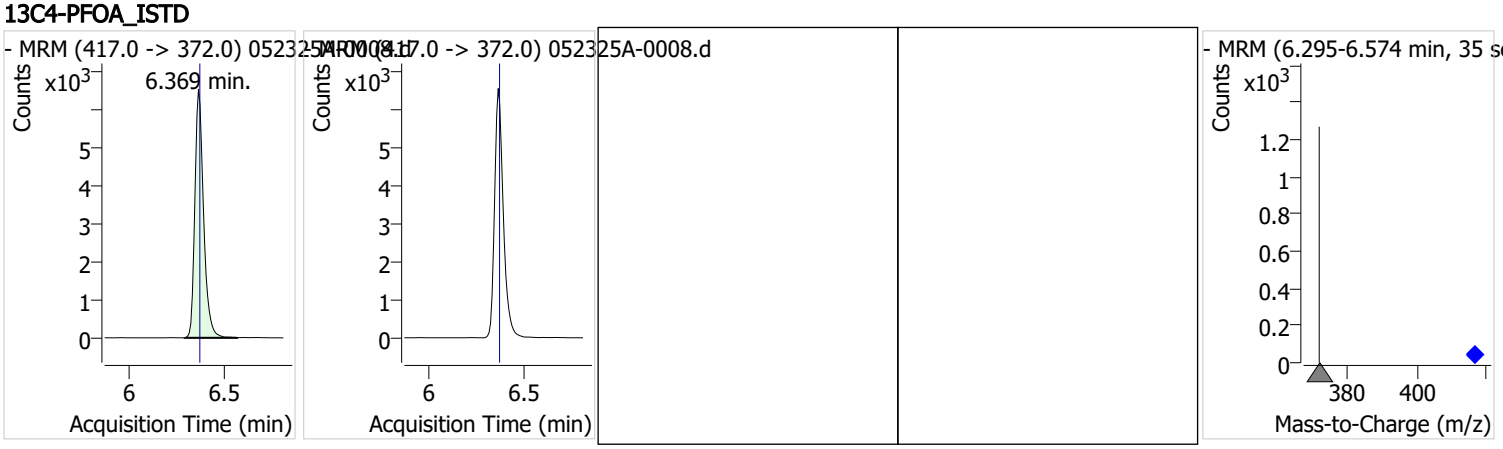
13C5-PFNA



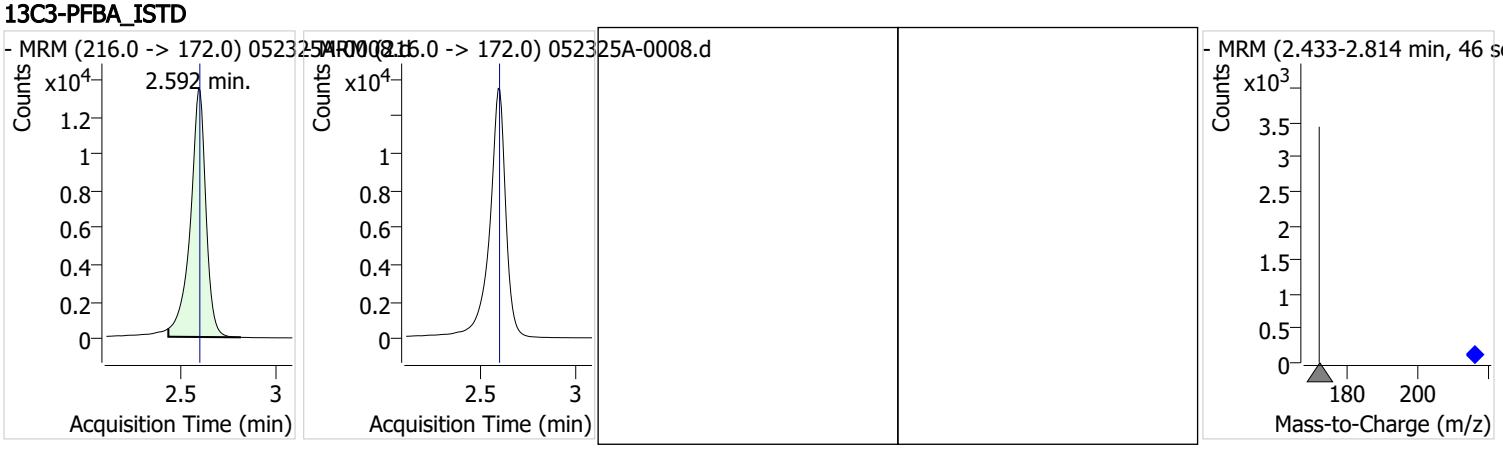
18O2-PFHxS



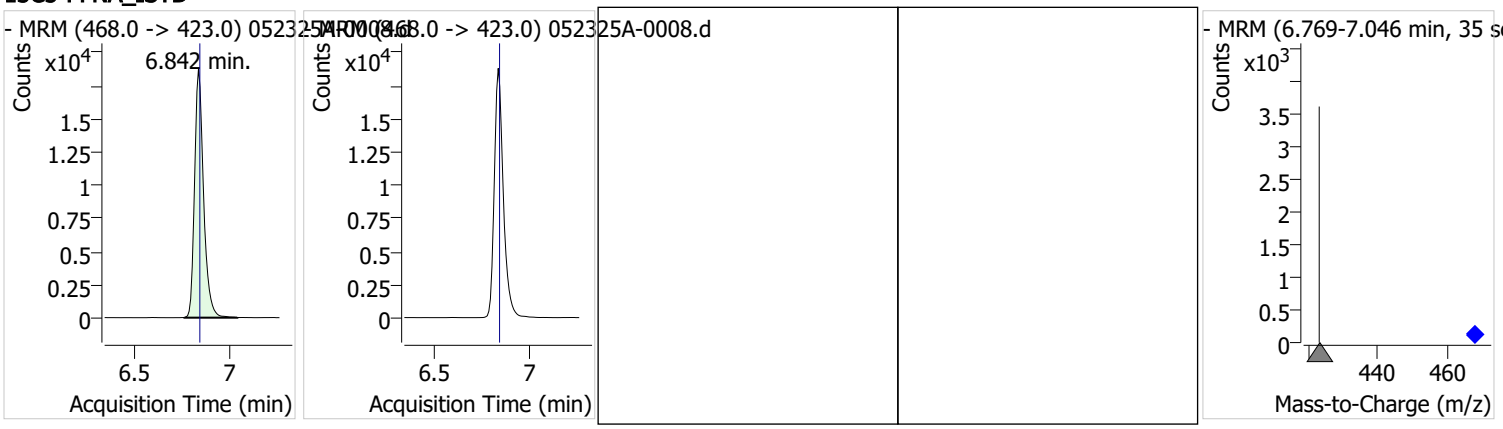
13C4-PFOA_ISTD



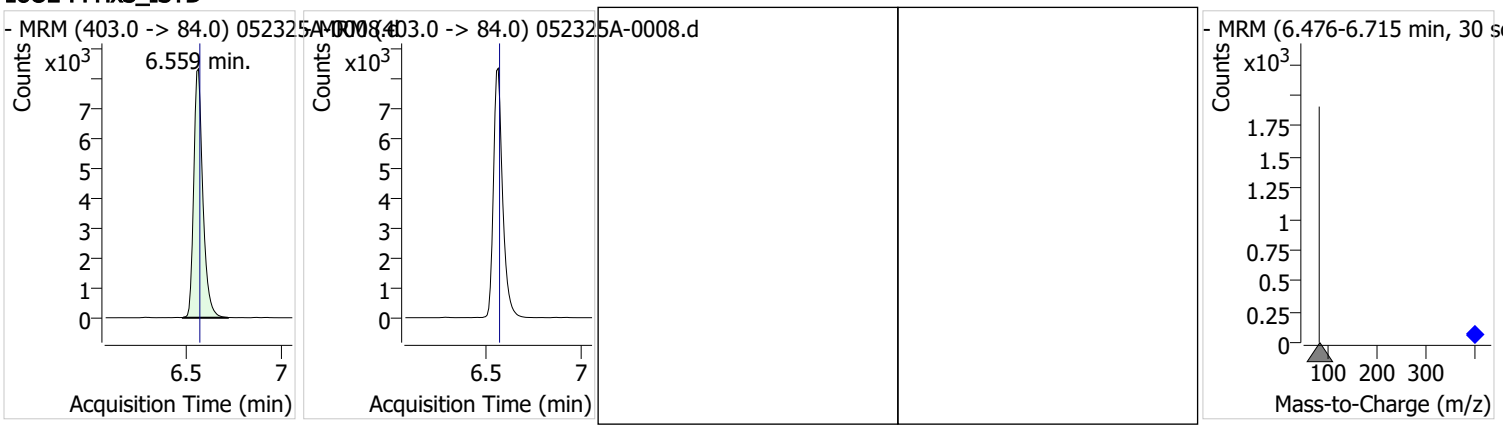
13C3-PFBA_ISTD



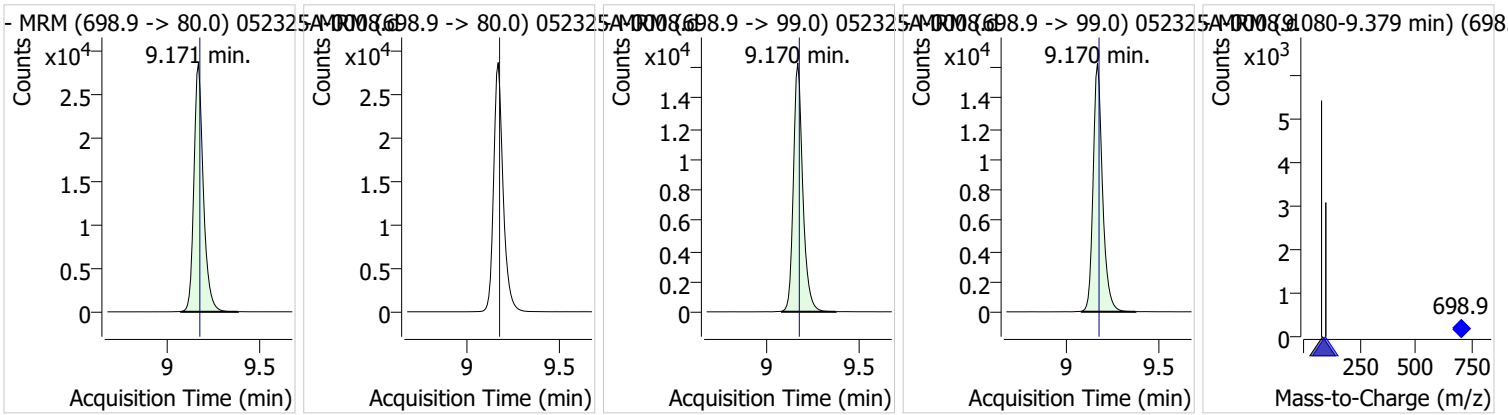
13C5-PFNA_ISTD



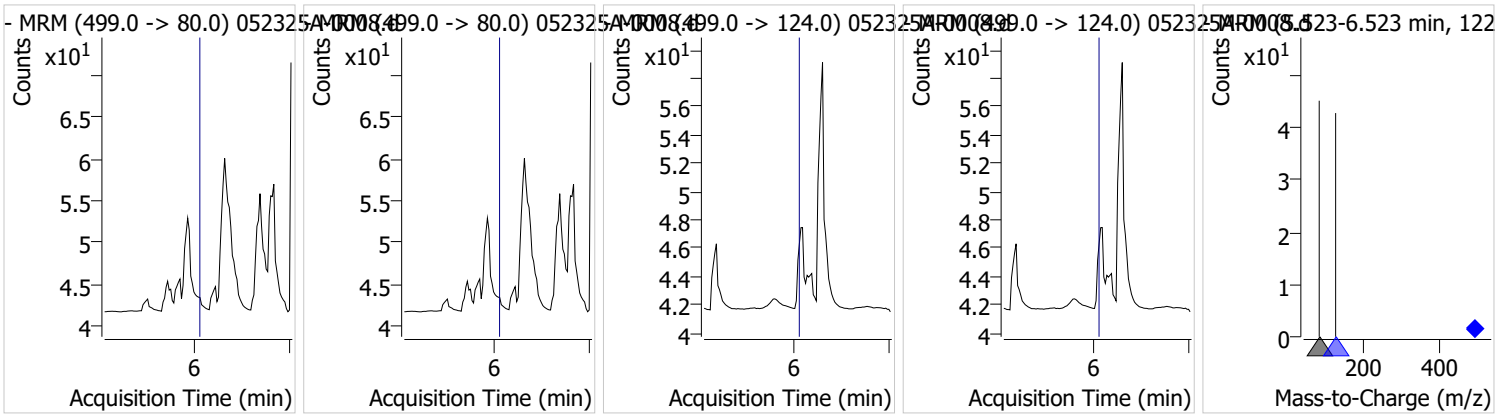
18O2-PFHxS_ISTD



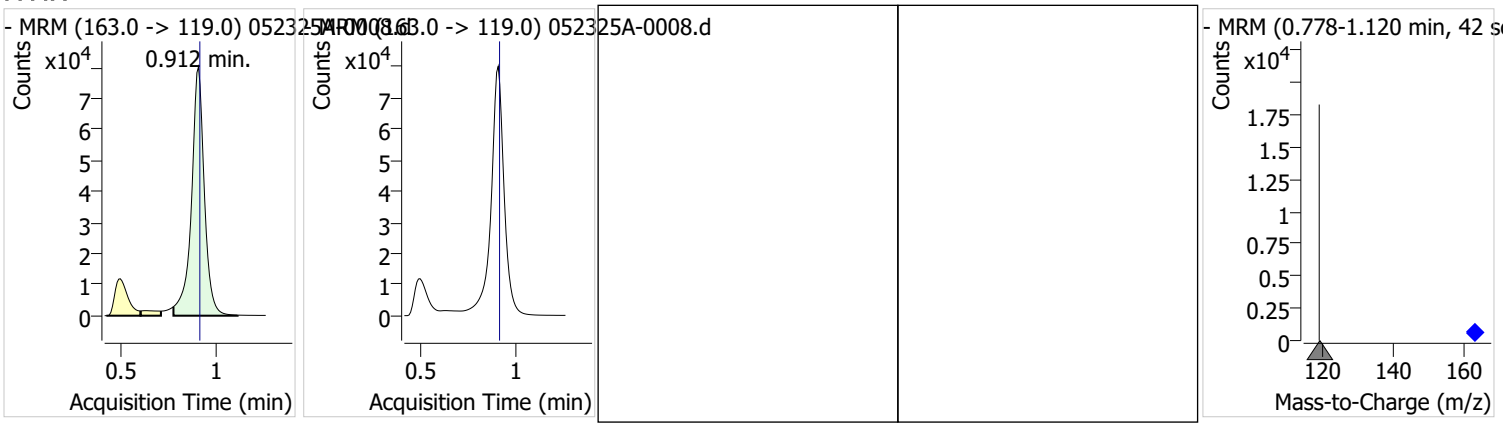
PFDoS



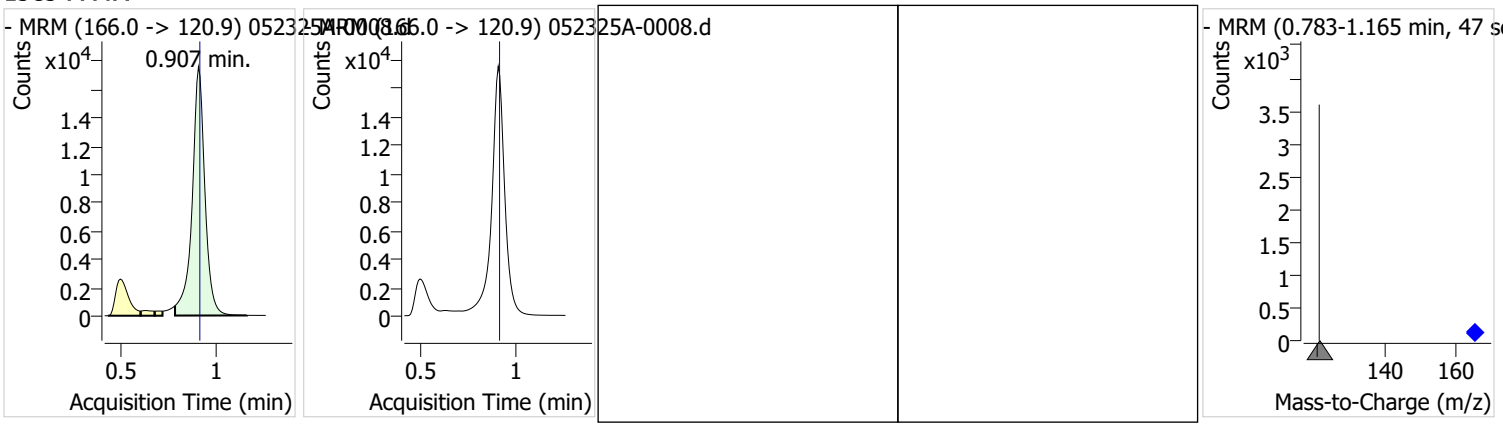
TDCA



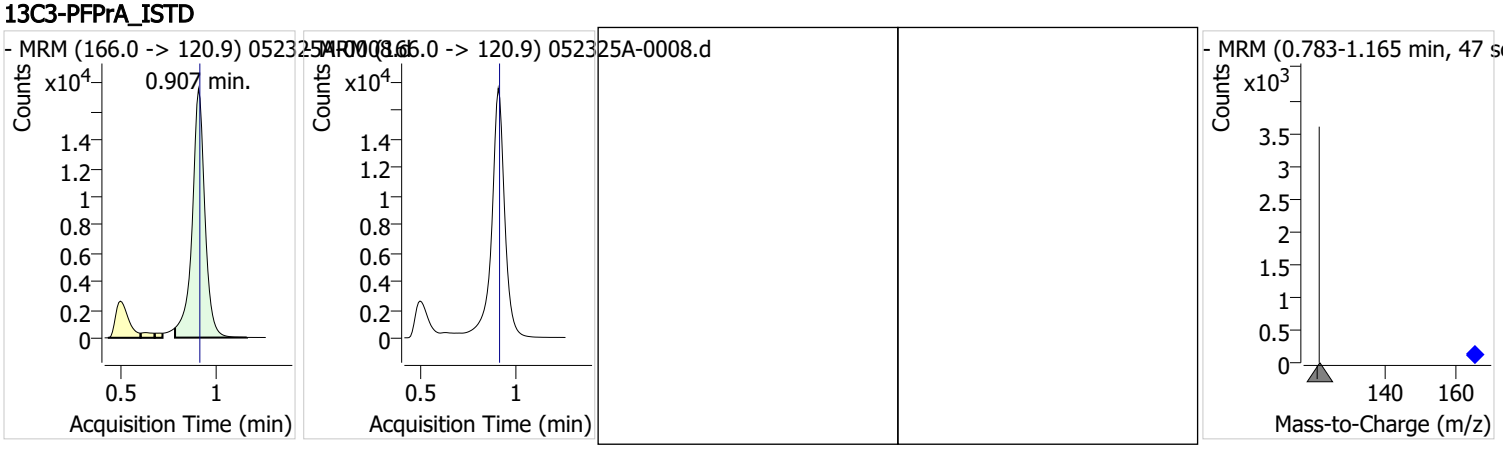
PFPrA



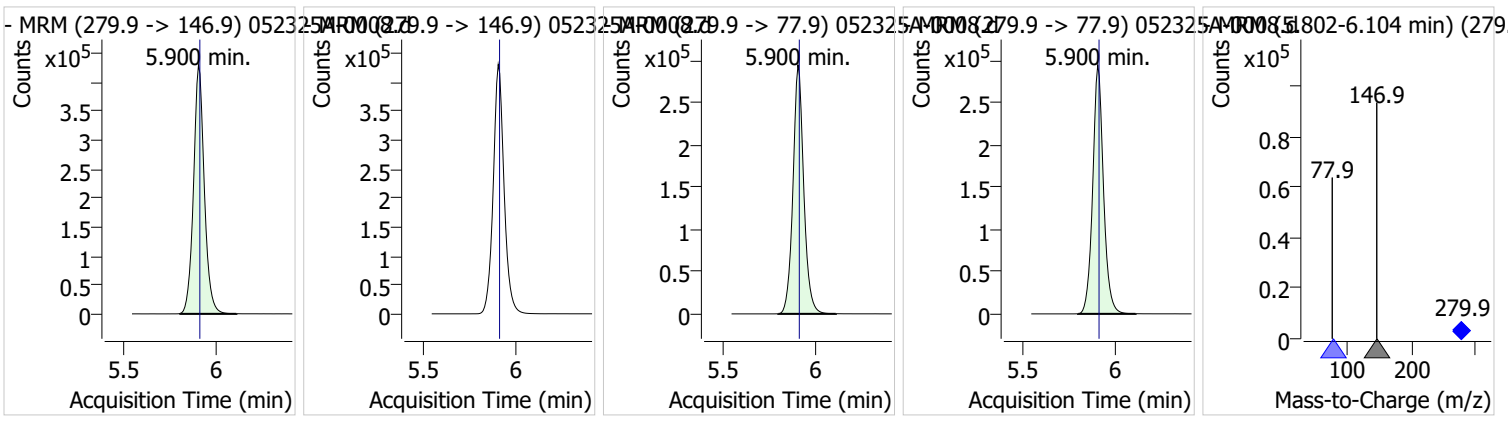
13C3-PFPrA



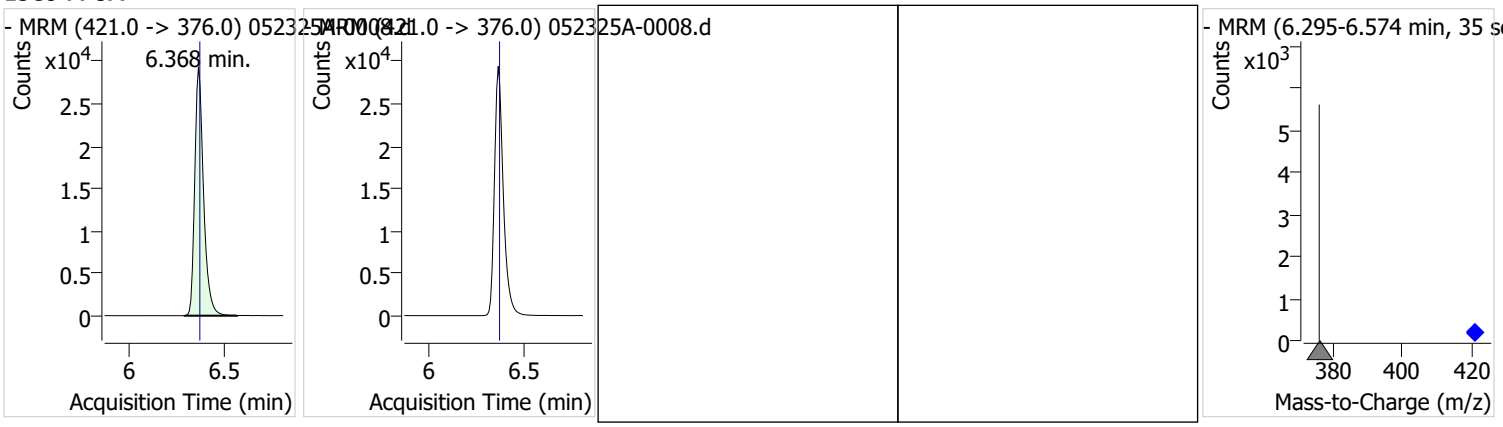
13C3-PFPrA_ISTD



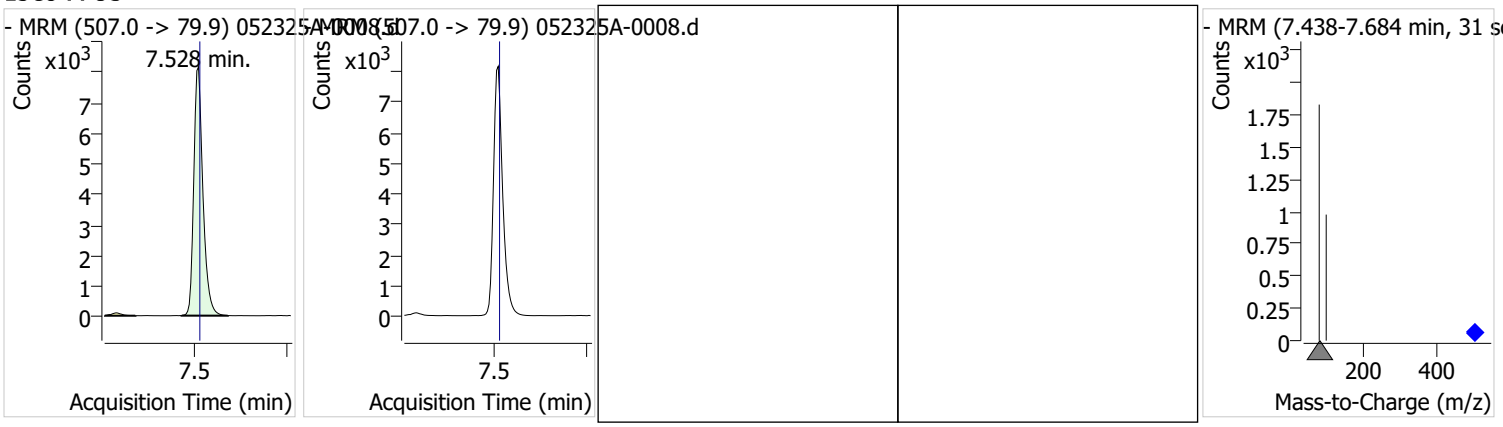
TFSI



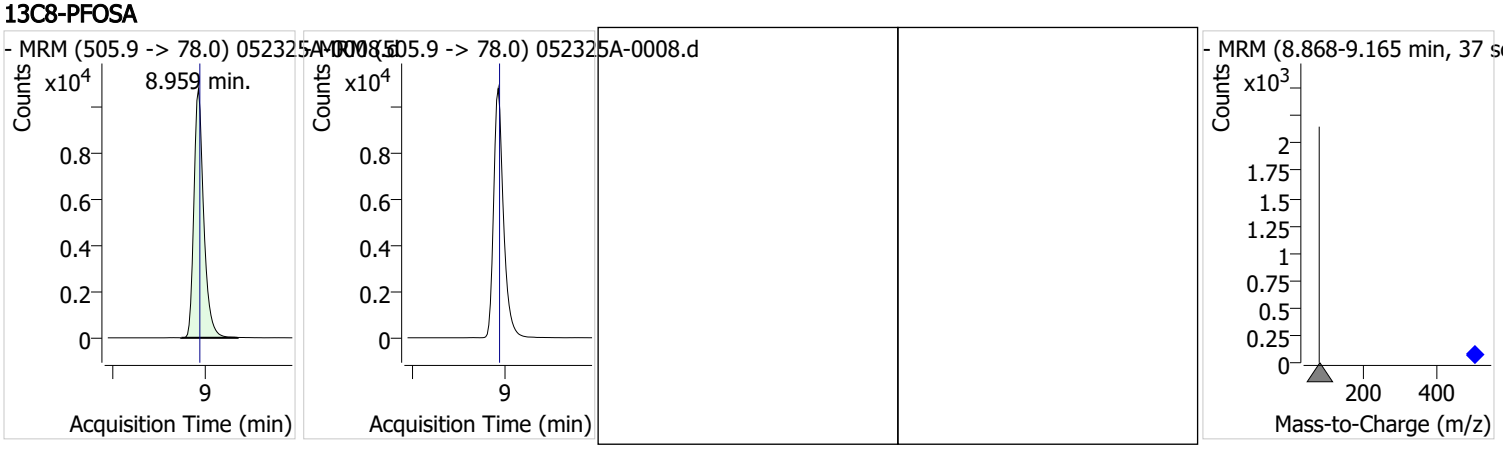
13C8-PFOA



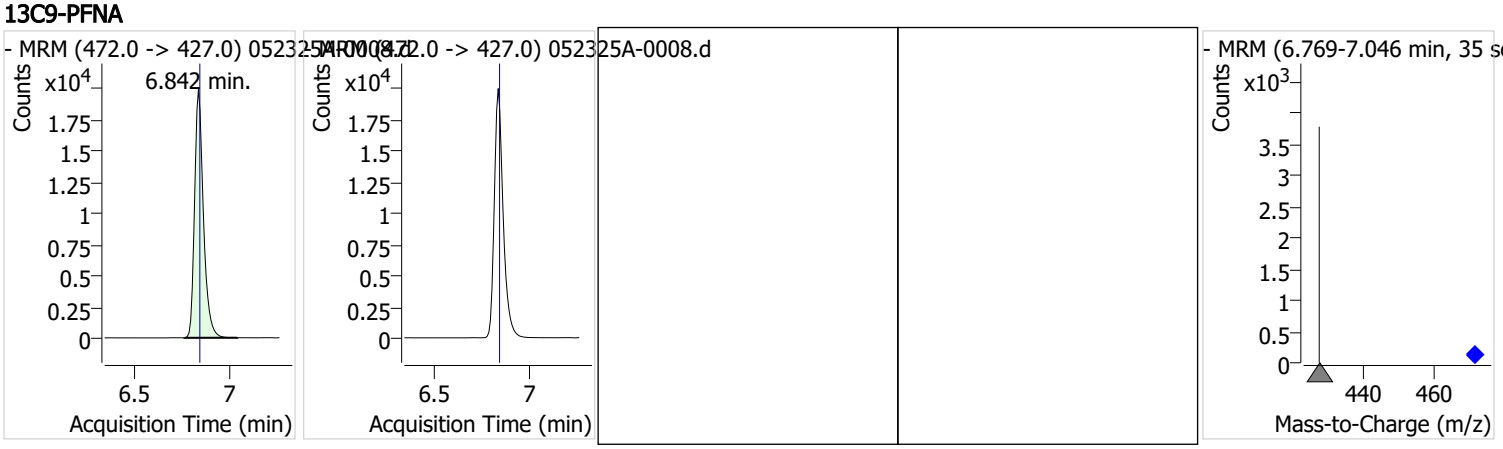
13C8-PFOS



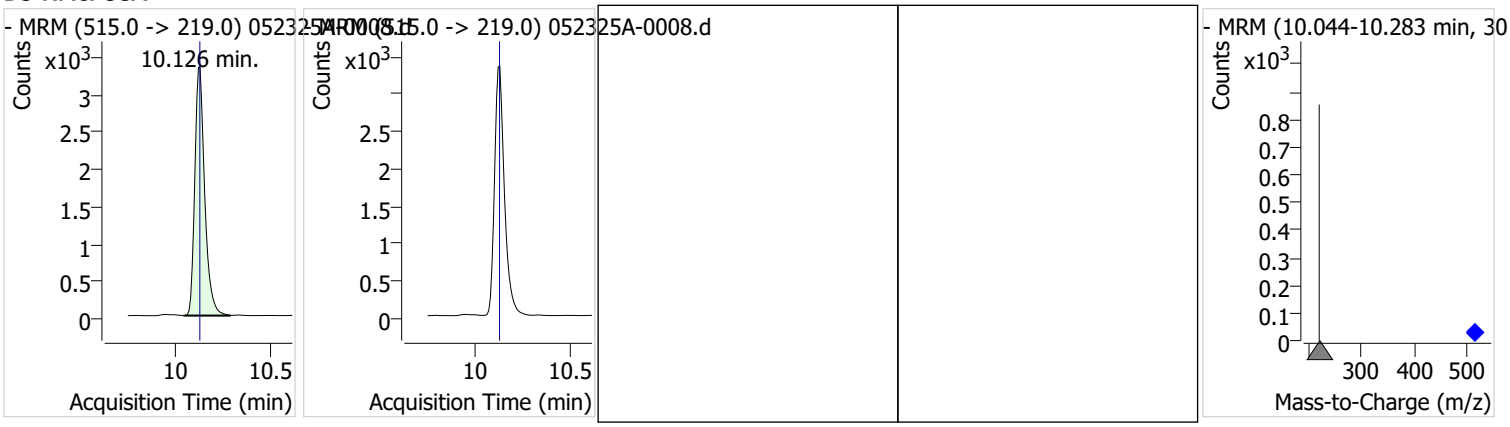
13C8-PFOSA



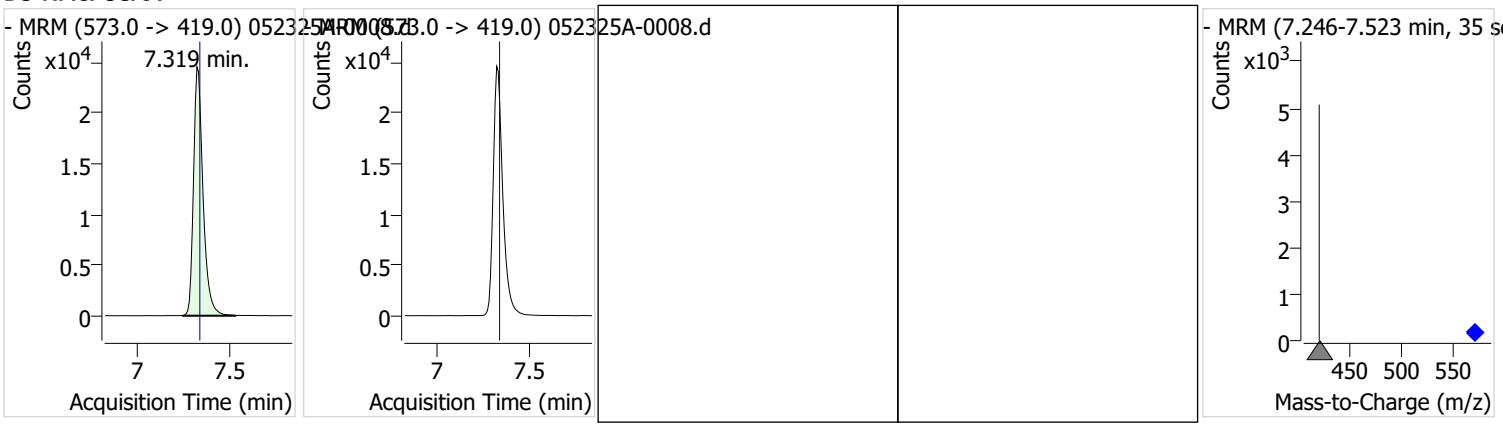
13C9-PFNA



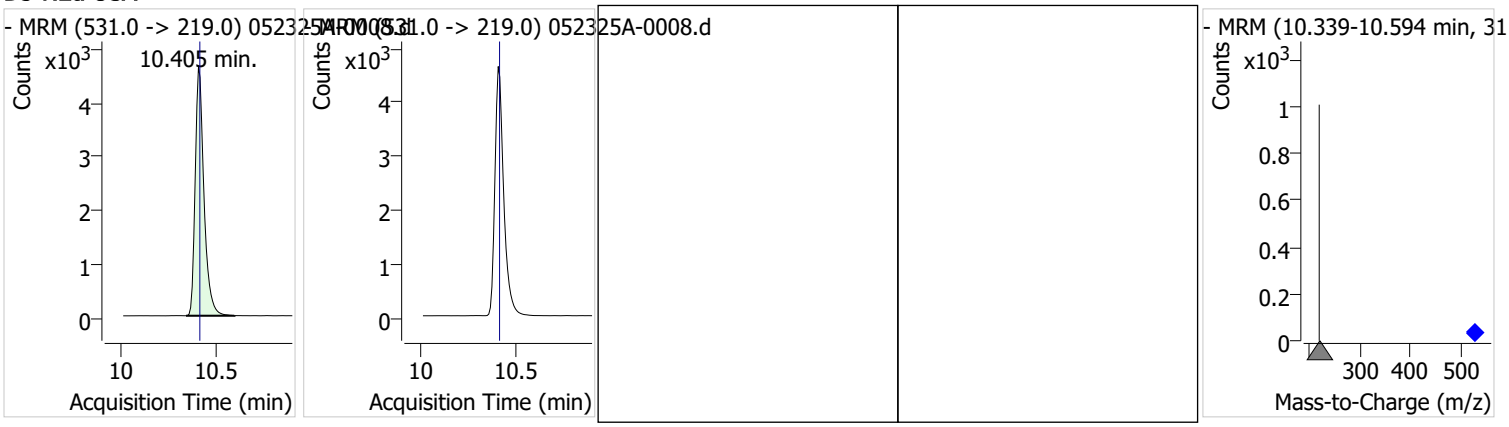
D3-NMeFOSA



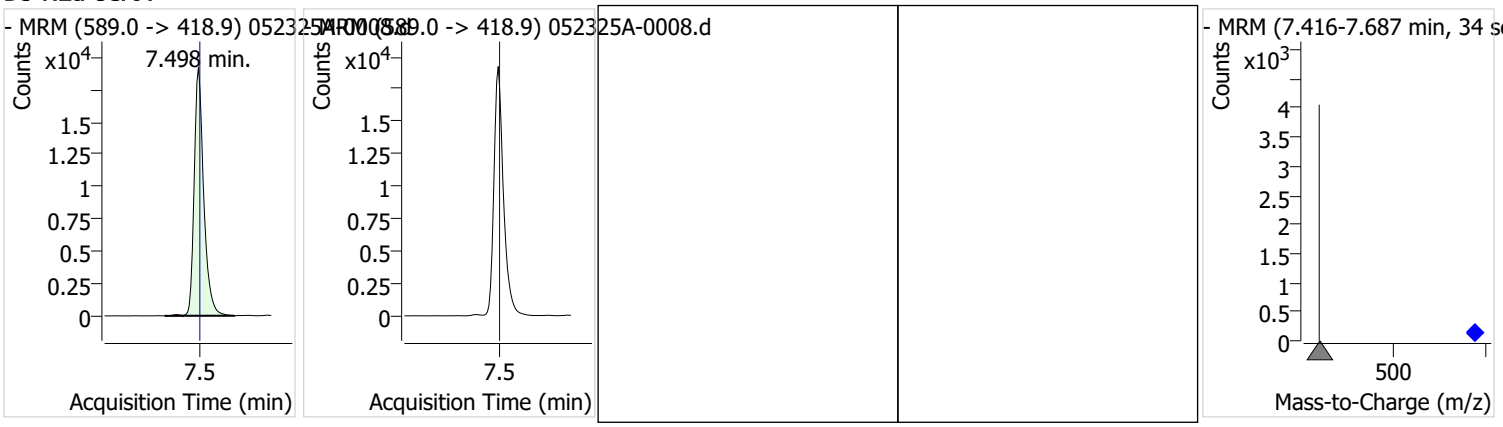
D3-NMeFOSAA



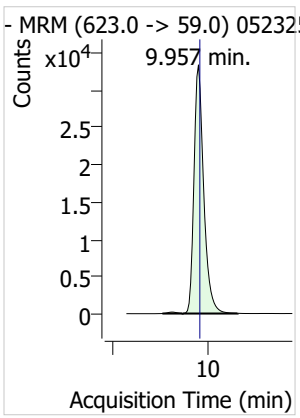
D5-NEtFOSA

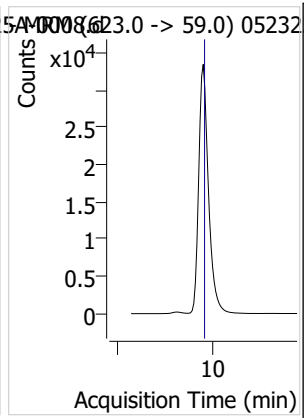


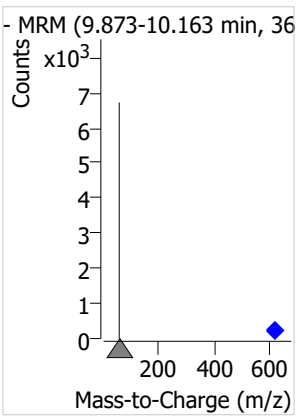
D5-NEtFOSAA



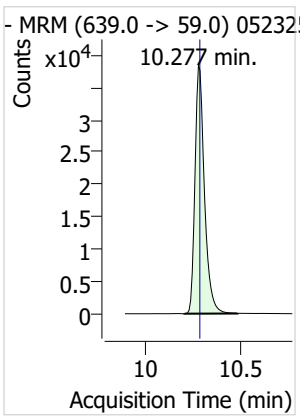
D7-NMeFOSE

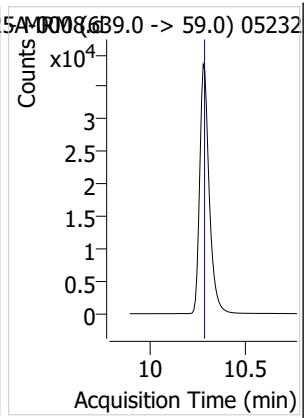


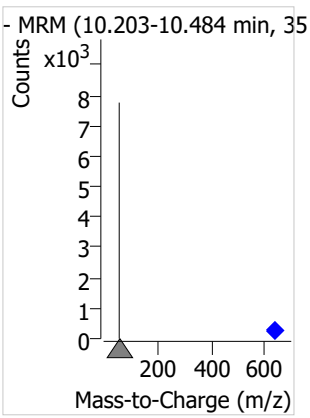




D9-NEtFOSE

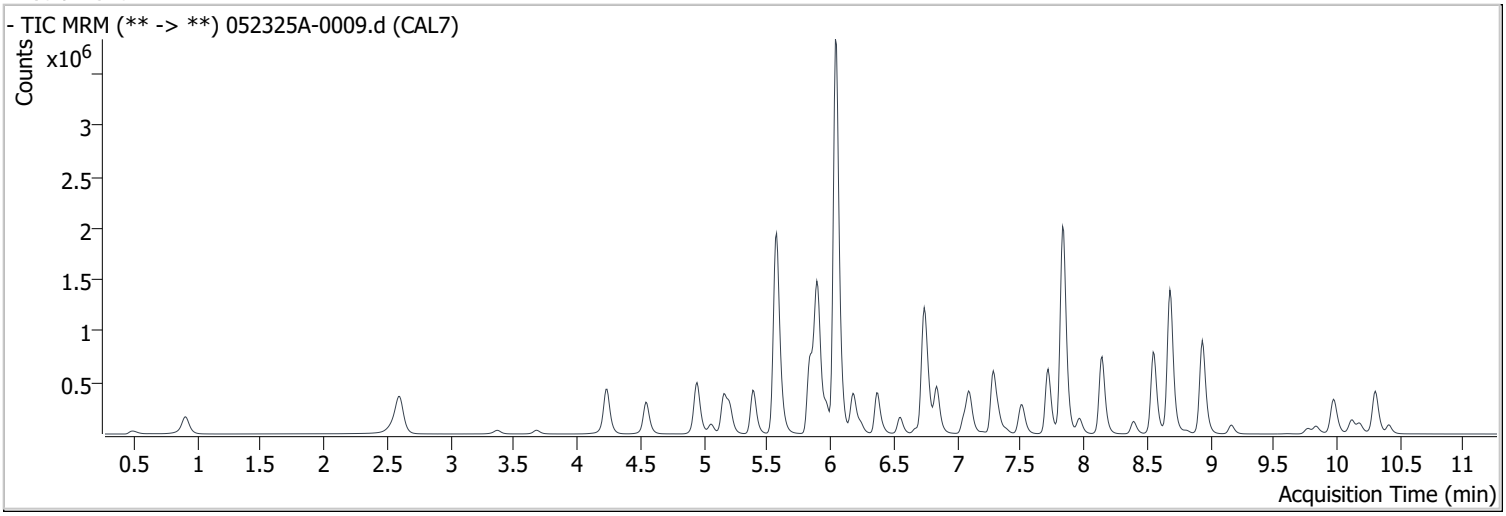






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 11:51 AM	**Data File**	052325A-0009.d
Sample Type	Cal	**Sample Name**	CAL7
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510291	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	831528	3682369.41		13C3-HFPODA_ISTD	5.394	81262	104.2423	ng/ml			
285.0 -> 184.9	5.394	503371	10904.64	60.5								
4:2FTS	4.947	1297024	101095.94		13C2-4:2FTS_ISTD	4.946	20286	97.1393	ng/ml			
327.0 -> 80.9	4.947	471416	74988.96	36.3								
6:2FTS	6.180	815932	49569.34		13C2-6:2FTS_ISTD	6.180	15295	99.0411	ng/ml			
427.0 -> 80.9	6.181	348436	99236.99	42.7								
ADONA	6.044	9334926	212695.02		13C4-PFHpA_ISTD	5.839	133779	107.6167	ng/ml			
377.0 -> 85.1	6.044	3494083	136499.06	37.4								
8:2FTS	7.100	871503	245179.11		13C2-8:2FTS_ISTD	7.100	14978	106.1483	ng/ml			
527.0 -> 81.0	7.093	349937	98593.83	40.2								
13C4-PFBA	2.597	175201	30371.01		13C3-PFBA_ISTD	2.600	72762	9.8931	ng/ml			
9Cl-PF3ONS	7.838	5555896	141808.64		13C8-PFOS_ISTD	7.528	24871	98.7942	ng/ml			
533.0 -> 353.0	7.838	1482056	42343.89	26.7								
11Cl-PF3OUdS	8.685	3965188	6687365.15		13C8-PFOS_ISTD	7.528	24871	100.7065	ng/ml			
633.0 -> 453.0	8.684	951704	85363.68	24.0								
PFHpS	7.055	361547	3632.51		13C8-PFOS_ISTD	7.528	24871	26.1942	ng/ml			
449.0 -> 98.8	7.055	166713	49505.83	46.1								
13C2-4:2FTS	4.946	20286	5464.44		18O2-PFHxS_ISTD	6.559	29101	4.0484	ng/ml			
13C2-6:2FTS	6.180	15295	51100.89		18O2-PFHxS_ISTD	6.559	29101	4.0511	ng/ml			
13C2-8:2FTS	7.100	14978	4192.57		18O2-PFHxS_ISTD	6.559	29101	3.9523	ng/ml			
13C2-PFDoA	8.146	92477	8572.44		13C2-PFDA_ISTD	7.290	60591	1.2216	ng/ml			
13C2-PFDA	7.290	60591	1713.84					1.2462	ng/ml			
13C2-PFHxA	5.162	75697	22226.73					2.4559	ng/ml			
13C2-PFTeDA	8.936	103593	30189.60		13C2-PFDA_ISTD	7.290	60591	1.2178	ng/ml			
13C4-PFOS	7.520	27270	42542.87					2.4739	ng/ml			
13C3-HFPODA	5.394	81262	259692.00		13C2-PFHxA_ISTD	5.162	75697	10.0475	ng/ml			
13C3-PFBS	5.205	46536	5915.22		18O2-PFHxS_ISTD	6.559	29101	2.3422	ng/ml			
13C3-PFHxS	6.560	30341	85681.58		18O2-PFHxS_ISTD	6.559	29101	2.2552	ng/ml			
NEtFOSAA	7.434	327499	2928.48		D5-NEtFOSAA_ISTD	7.498	64148	26.2242	ng/ml			

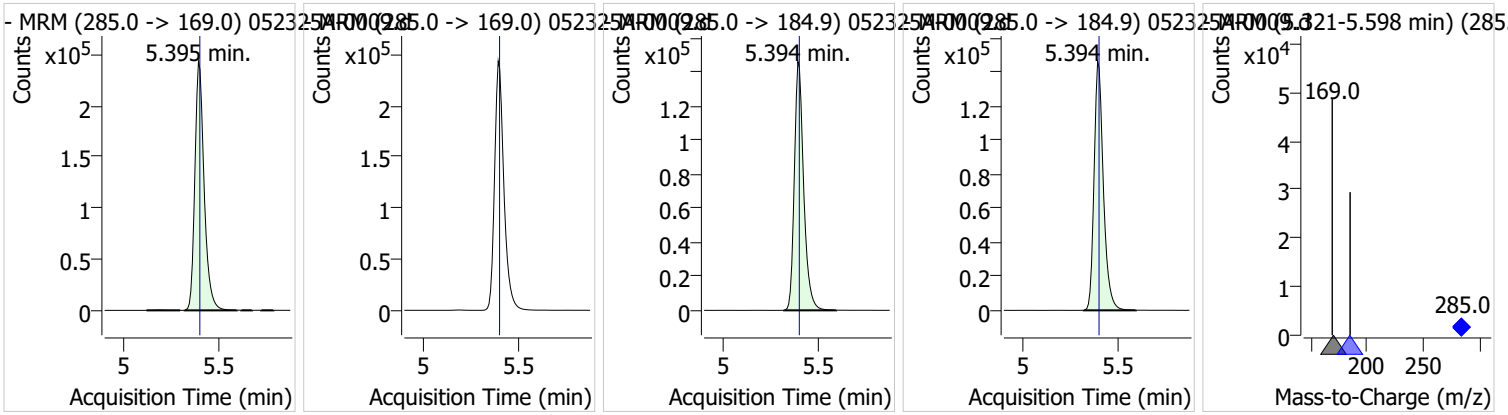
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
584.0 -> 526.0	7.433	298748	2477.95	91.2								
13C4-PFHpA	5.839	133779	32177.29		13C2-PFHxA_ISTD	5.162	75697	2.4887	ng/ml			
NMeFOSAA	7.247	161590	9769.12		D3-NMeFOSAA_ISTD	7.319	86386	25.1652	ng/ml			
570.0 -> 483.0	7.246	199443	2198.75	123.4								
PFBA	2.594	1874619	322022.51		13C4-PFBA_ISTD	2.597	175201	107.3715	ng/ml			
13C5-PFHxA	5.161	83097	24643.98		13C2-PFHxA_ISTD	5.162	75697	2.4729	ng/ml			
PFBS	5.205	586407	29692.19		13C3-PFBS_ISTD	5.205	46536	23.8924	ng/ml			
298.9 -> 98.8	5.205	208779	7067.11	35.6								
NMeFOSA	10.073	151860	4128.03		D3-NMeFOSA_ISTD	10.118	11909	26.7908	ng/ml			
512.0 -> 169.0	10.074	210859	3914.82	138.9								
PFDA	7.290	1555225	23215.62		13C6-PFDA_ISTD	7.289	67561	28.1318	ng/ml			
513.0 -> 219.0	7.290	286372	11486.65	18.4								
PFDoA	8.146	2253739	648437.02		13C2-PFDoA_ISTD	8.146	92477	27.0578	ng/ml			
613.0 -> 319.0	8.147	261220	2021.36	11.6								
NEtFOSA	10.377	188918	2484.12		D5-NEtFOSA_ISTD	10.405	14299	27.0059	ng/ml			
526.0 -> 169.0	10.377	253905	2642.01	134.4								
PFHpA	5.839	1595022	19529.28		13C4-PFHpA_ISTD	5.839	133779	26.5772	ng/ml			
362.9 -> 169.0	5.839	269787	715904.31	16.9								
PFHxA	5.163	1028168	300360.84		13C5-PFHxA_ISTD	5.161	83097	26.5215	ng/ml			
313.0 -> 118.9	5.163	33251	182384.79	3.2								
NMeFOSE	9.899	1511668	4156.11		D7-NMeFOSE_ISTD	9.957	113439	270.7105	ng/ml			
PFHxS	6.498	376260	9989.11		13C3-PFHxS_ISTD	6.560	30341	24.5447	ng/ml			
398.9 -> 99.0	6.498	173305	9970.79	46.1								
PFNA	6.789	1172657	9061.97		13C9-PFNA_ISTD	6.842	62845	26.6644	ng/ml			
463.0 -> 219.0	6.789	365247	15844.63	31.1								
NEtFOSE	10.249	1827518	2095.84		D9-NEtFOSE_ISTD	10.277	123407	273.3281	ng/ml			
PFOA	6.300	1161475	8490.72		13C8-PFOA_ISTD	6.368	94948	25.8966	ng/ml			
413.0 -> 169.0	6.300	345979	3602.36	29.8								
PFOS	7.399	357452	17230.01		13C8-PFOS_ISTD	7.528	24871	24.3114	ng/ml			
499.0 -> 99.0	7.402	170891	19825.75	47.8								
PFPeA	4.239	1580292	9410.54		13C5-PFPeA_ISTD	4.237	130729	53.6935	ng/ml			
PFMPA	3.377	162779	9282.70		13C4-PFBA_ISTD	2.597	175201	53.7098	ng/ml			
13C5-PFPeA	4.237	130729	3869.38		13C2-PFHxA_ISTD	5.162	75697	4.8764	ng/ml			
PFMBA	4.547	1162219	228109.58		13C5-PFPeA_ISTD	4.237	130729	53.5275	ng/ml			
PFTrDA	8.550	2557262	84074.00		13C2-PFDoA_ISTD	8.146	92477	26.2917	ng/ml			
663.0 -> 168.9	8.551	219648	62968.86	8.6								
PFEESA	5.570	3109812	714409.59		13C5-PFHxA_ISTD	5.161	83097	46.8168	ng/ml			
315.0 -> 83.0	5.571	221859	24752.71	7.1								
13C6-PFDA	7.289	67561	20519.42		13C2-PFDA_ISTD	7.290	60591	1.1842	ng/ml			
NFDHA	5.066	236439	746539.53		13C5-PFHxA_ISTD	5.161	83097	52.5988	ng/ml			
295.0 -> 85.0	5.067	78826	22172.62	33.3								
PFOSA	8.899	436821	4042.54		13C8-PFOSA_ISTD	8.959	36836	26.9596	ng/ml			
497.9 -> 478.0	8.902	11990	1909.43	2.7								
13C7-PFUnA	7.721	77316	94557.14		13C2-PFDA_ISTD	7.290	60591	1.2134	ng/ml			
13C4-PFOA	6.369	19560	34580.31					2.3657	ng/ml			
PFDS	8.398	278391	15199.81		13C8-PFOS_ISTD	7.528	24871	26.6181	ng/ml			
599.0 -> 98.8	8.397	139008	11074.19	49.9								
PFNS	7.969	335485	8178.99		13C8-PFOS_ISTD	7.528	24871	26.0928	ng/ml			
549.0 -> 98.8	7.968	155586	10869.81	46.4								
PFPeS	5.980	499040	15430.11		13C3-PFHxS_ISTD	6.560	30341	26.2258	ng/ml			
349.0 -> 98.9	5.979	217193	48791.34	43.5								

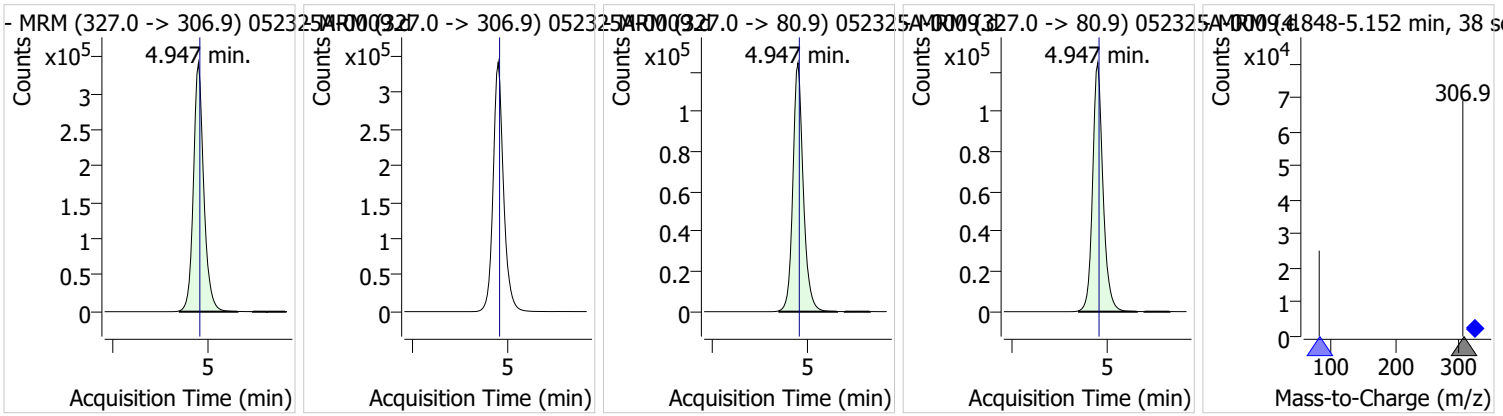
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA	8.937	2609479	45732.65		13C2-PFTeDA_ISTD	8.936	103593	27.2905	ng/ml			
713.0 -> 168.9	8.938	135332	38983.54	5.2								
PFUnA	7.722	1758047	103432.87		13C7-PFUnA_ISTD	7.721	77316	27.2281	ng/ml			
563.0 -> 269.1	7.722	298990	88105.35	17.0								
13C3-PFBA	2.600	72762	1584.85					4.7913	ng/ml			
3:3FTCA	3.679	99193	2426.73		13C5-PFPeA_ISTD	4.237	130729	133.9944	ng/ml			
241.0 -> 117.0	3.682	52265	2508.46	52.7								
5:3FTCA	5.577	2027404	542281.19		13C5-PFHxA_ISTD	5.161	83097	653.7174	ng/ml			
341.0 -> 217.0	5.577	1897458	173328.46	93.6								
7:3FTCA	6.746	2310508	170266.15		13C9-PFNA_ISTD	6.842	62845	687.2270	ng/ml			
441.0 -> 337.0	6.745	2431188	85549.84	105.2								
13C5-PFNA	6.842	58947	2127.10					1.2465	ng/ml			
18O2-PFHxS	6.559	29101	8847.68					2.5619	ng/ml			
PFDoS	9.171	188222	54510.58		13C8-PFOS_ISTD	7.528	24871	26.7710	ng/ml			
698.9 -> 99.0	9.170	106166	69054.13	56.4								
TDCA					13C8-PFOS_ISTD	7.528	24871	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	740450	71497.89		13C3-PFPrA_ISTD	0.907	74894	112.5154	ng/ml			
13C3-PFPrA	0.907	74894	6129.65		13C3-PFBA_ISTD	2.600	72762	9.5146	ng/ml			
TFSI	5.900	3420417	11347.60		13C3-HFPODA_ISTD	5.394	81262	48.1768	ng/ml			
279.9 -> 77.9	5.900	2358884	4345705.65	69.0								
13C8-PFOA	6.368	94948	29127.98		13C4-PFOA_ISTD	6.369	19560	2.5909	ng/ml			
13C8-PFOS	7.528	24871	19277.85		13C4-PFOS_ISTD	7.520	27270	2.3320	ng/ml			
13C8-PFOSA	8.959	36836	10264.48		13C4-PFOS_ISTD	7.520	27270	2.4020	ng/ml			
13C9-PFNA	6.842	62845	5196.73		13C5-PFNA_ISTD	6.842	58947	1.2066	ng/ml			
D3-NMeFOSA	10.118	11909	1722.43		13C4-PFOS_ISTD	7.520	27270	2.4373	ng/ml			
D3-NMeFOSAA	7.319	86386	24953.86		13C4-PFOS_ISTD	7.520	27270	5.0931	ng/ml			
D5-NEtFOSA	10.405	14299	975.53		13C4-PFOS_ISTD	7.520	27270	2.4346	ng/ml			
D5-NEtFOSAA	7.498	64148	18182.73		13C4-PFOS_ISTD	7.520	27270	4.9799	ng/ml			
D7-NMeFOSE	9.957	113439	36956.28		13C4-PFOS_ISTD	7.520	27270	24.1841	ng/ml			
D9-NEtFOSE	10.277	123407	4646.30		13C4-PFOS_ISTD	7.520	27270	23.6928	ng/ml			

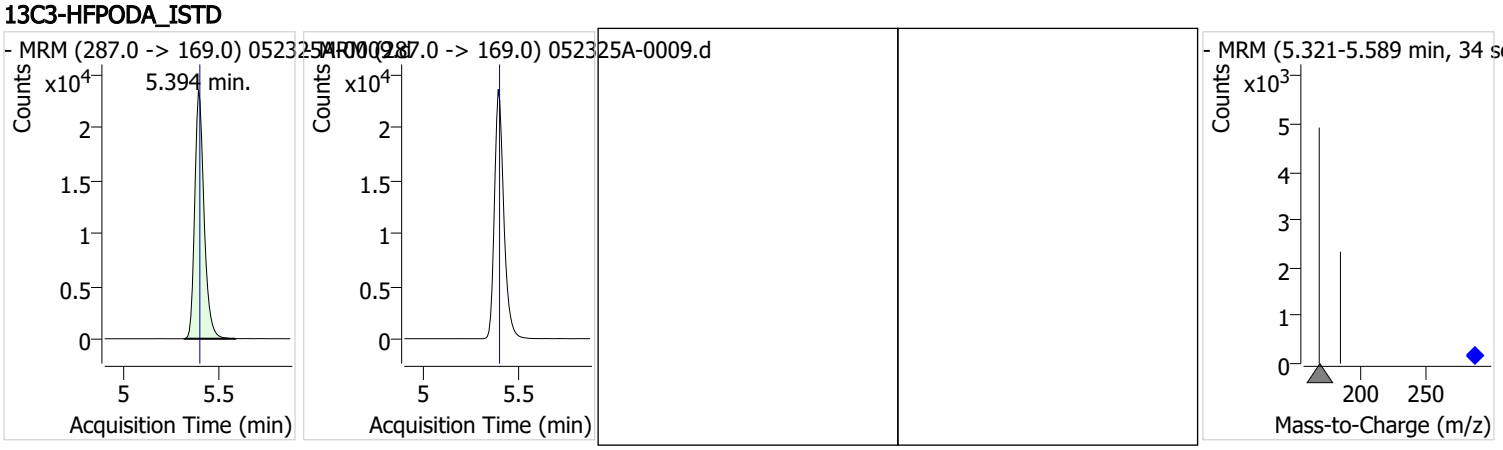
HFPO-DA



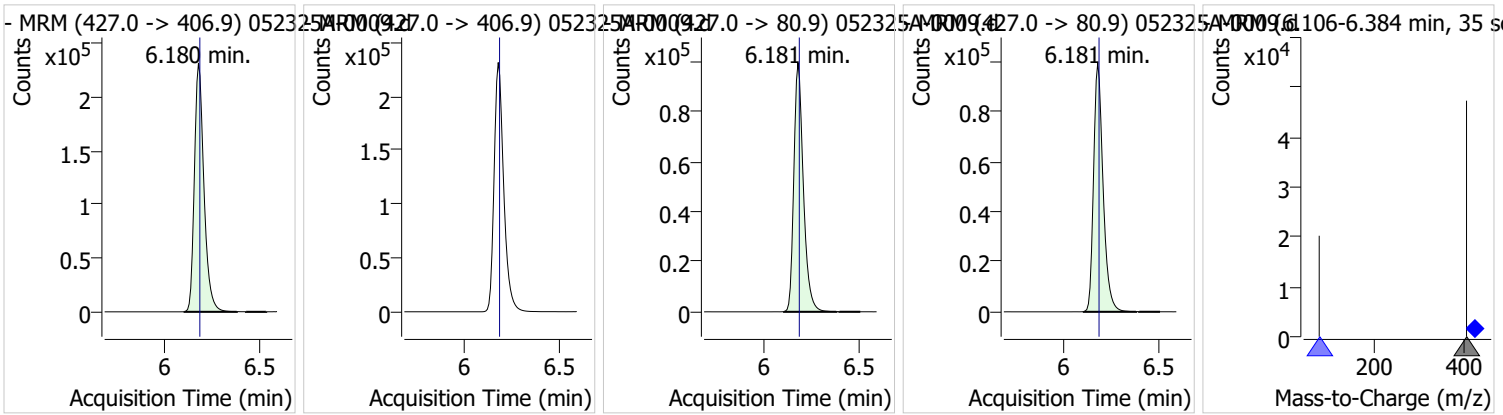
4:2FTS



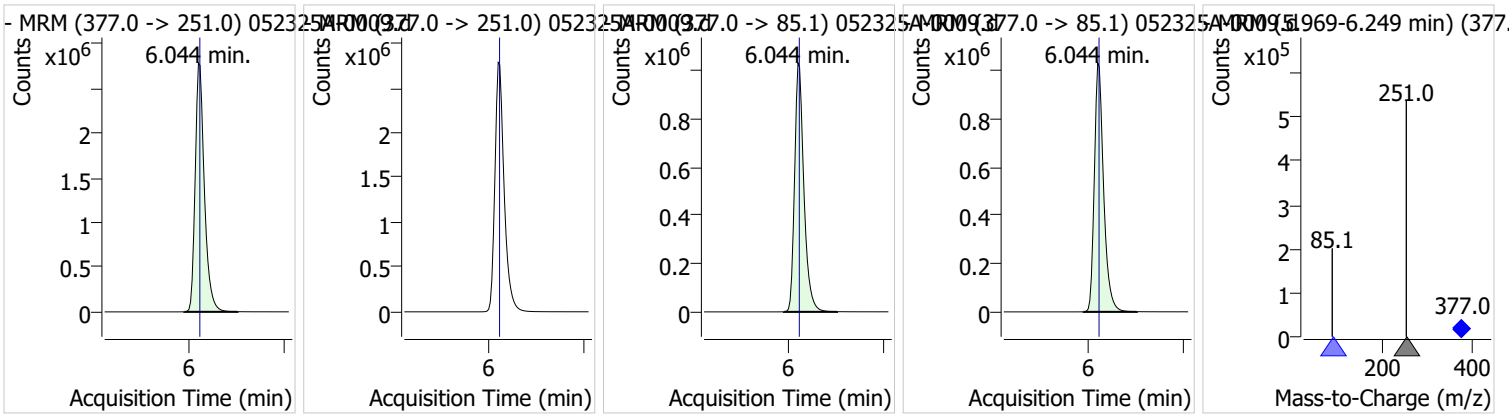
13C3-HFPODA_ISTD



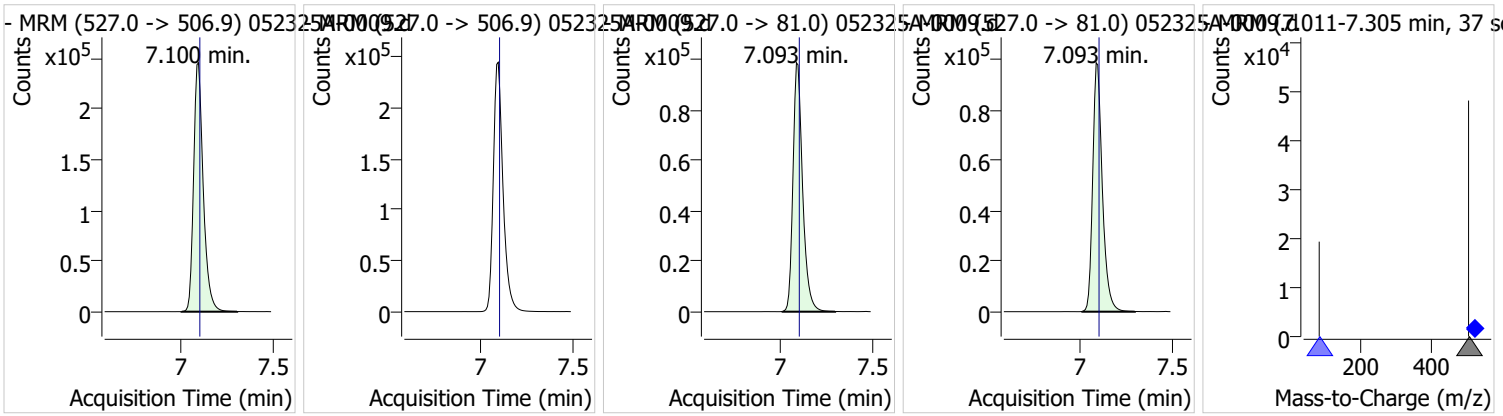
6:2FTS



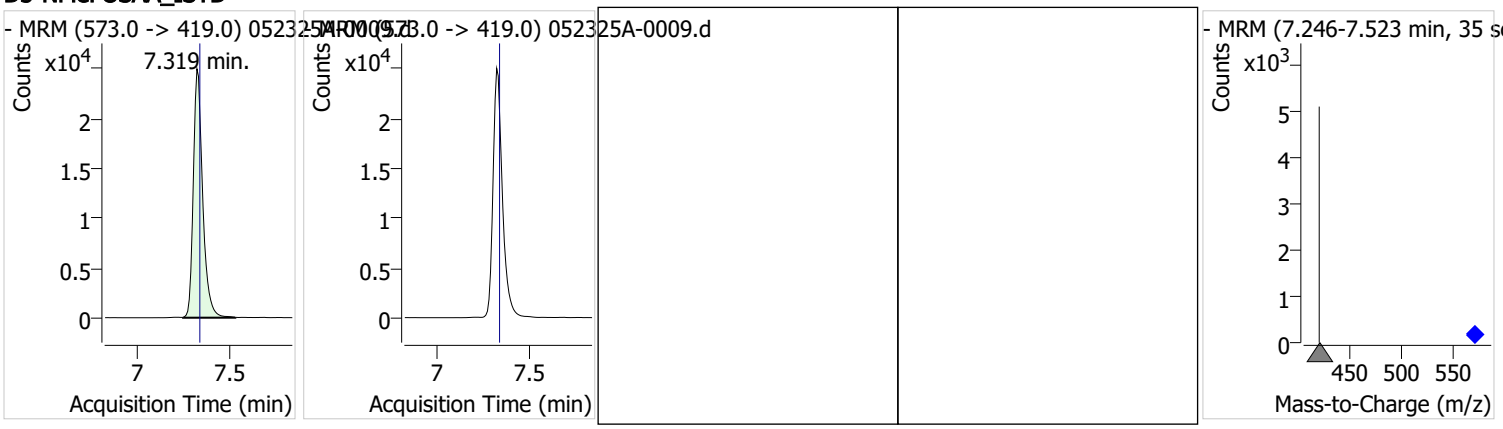
ADONA



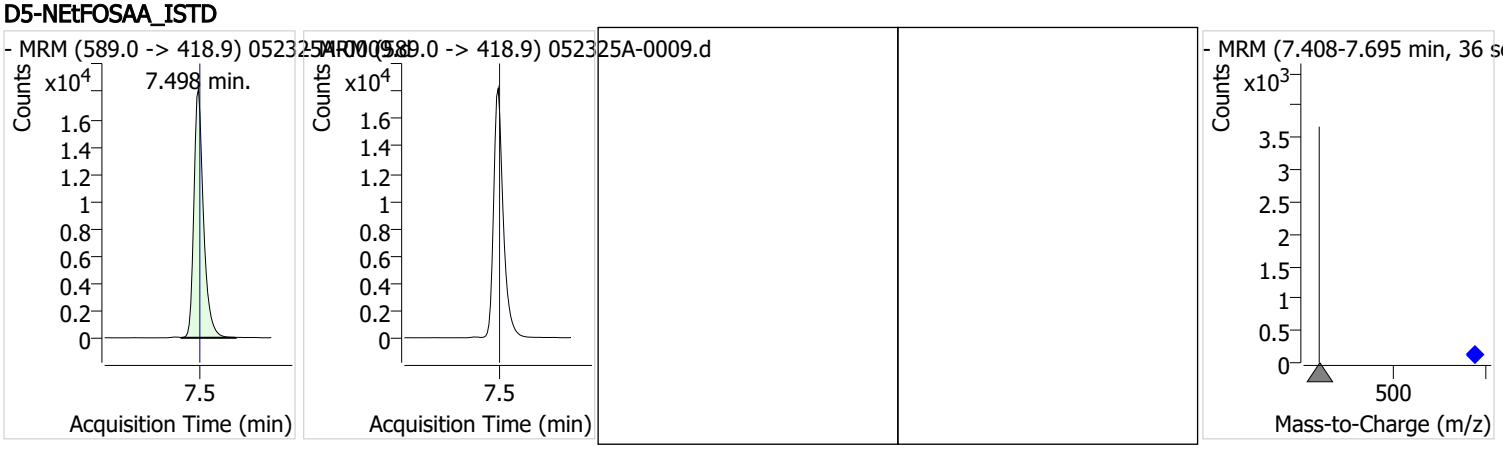
8:2FTS



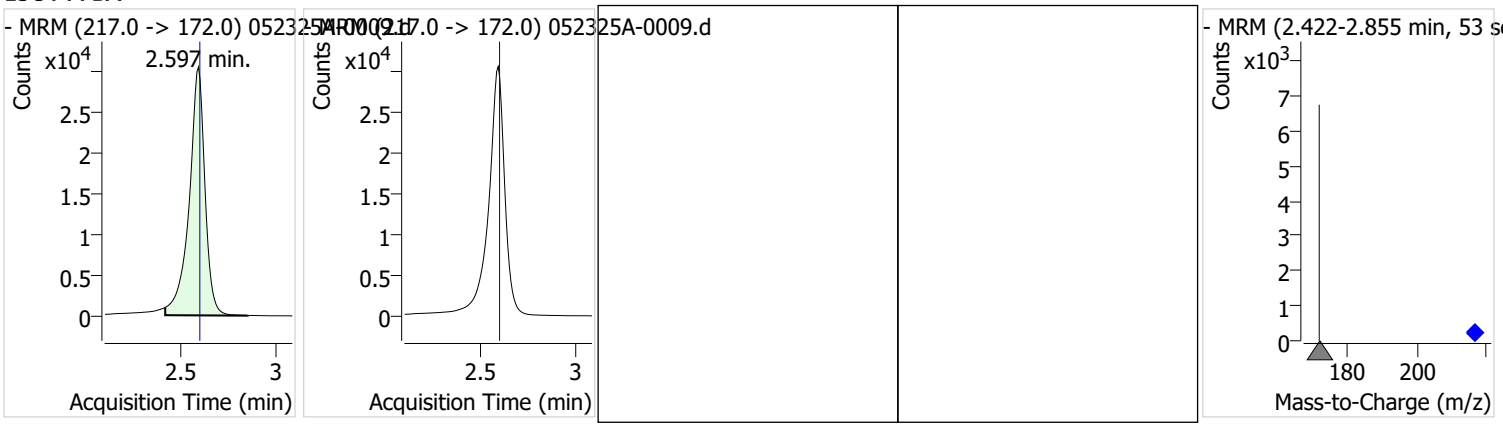
D3-NMeFOSAA_ISTD



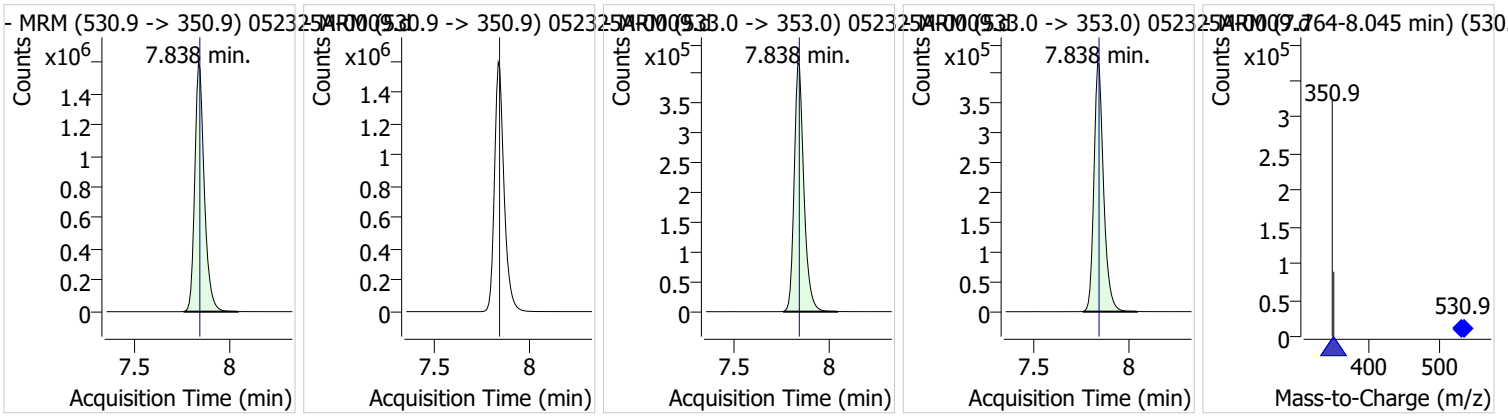
D5-NEtFOSAA_ISTD



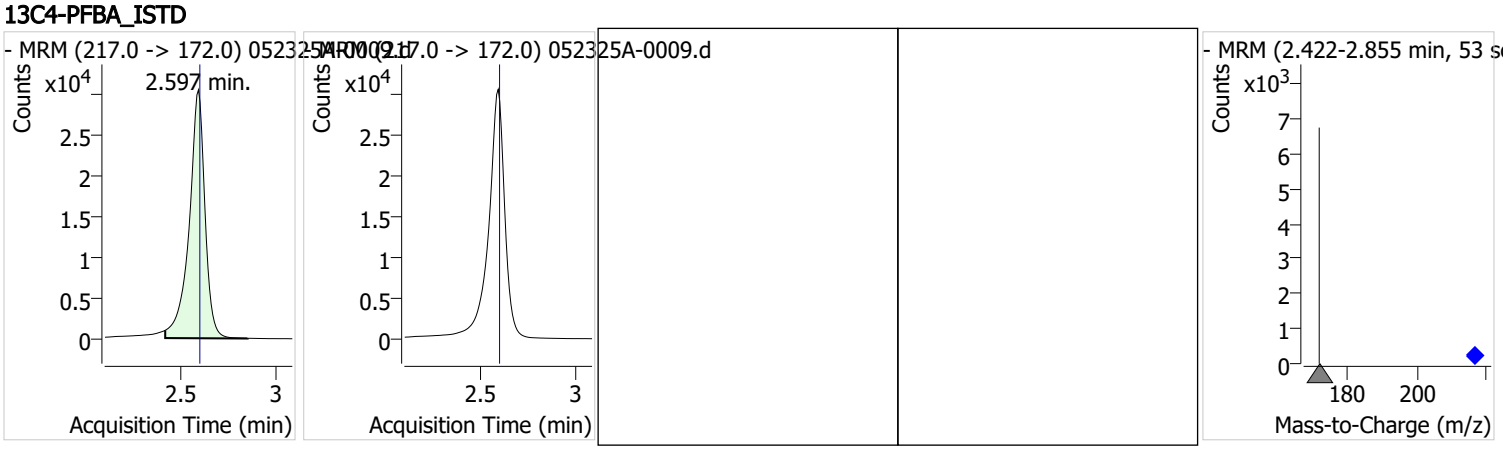
13C4-PFBA



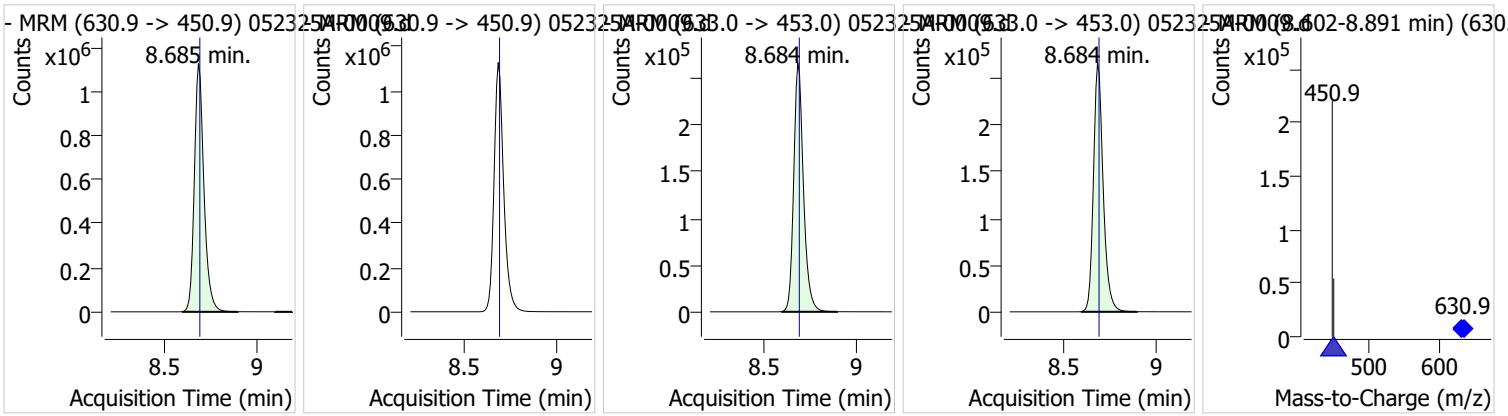
9Cl-PF3ONS



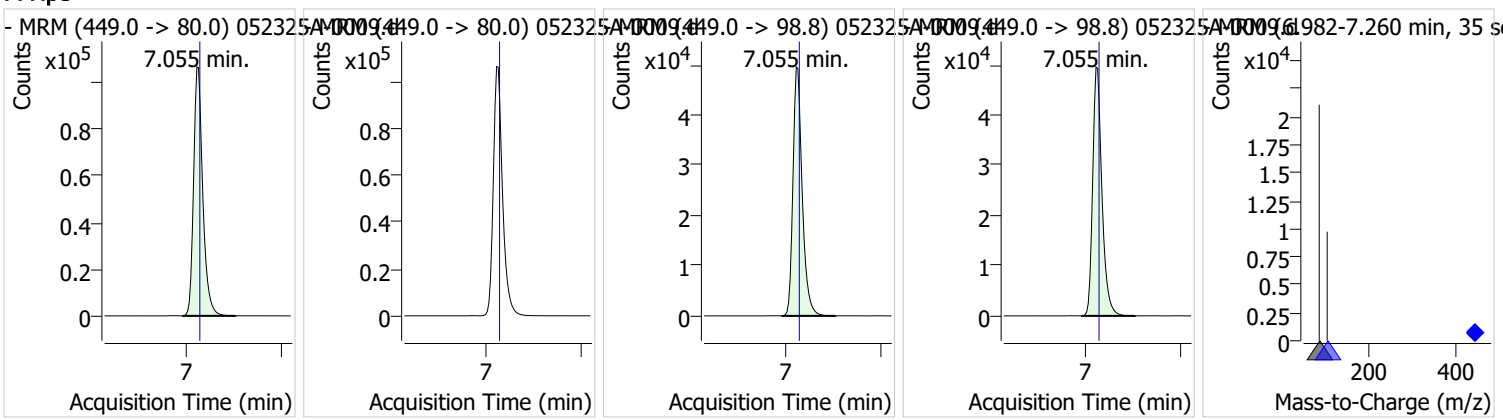
13C4-PFBA_ISTD



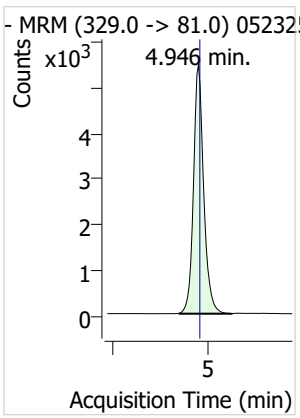
11Cl-PF3OUdS

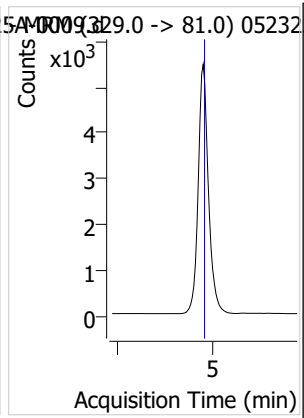


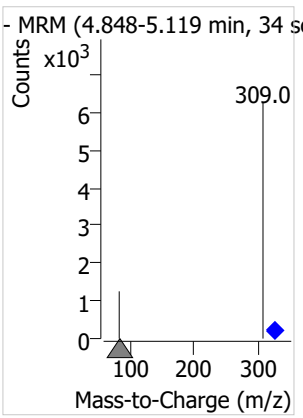
PFHpS



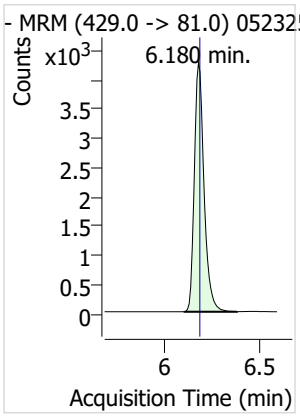
13C2-4:2FTS

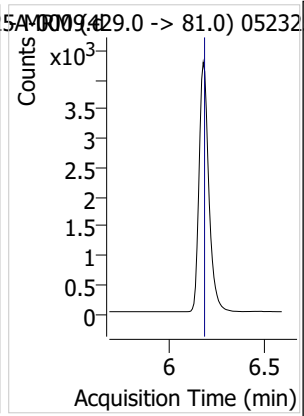


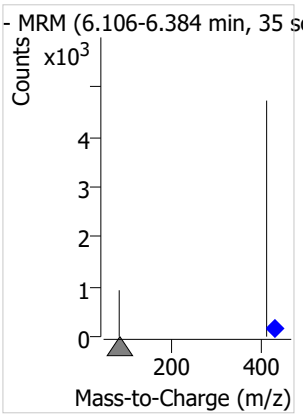




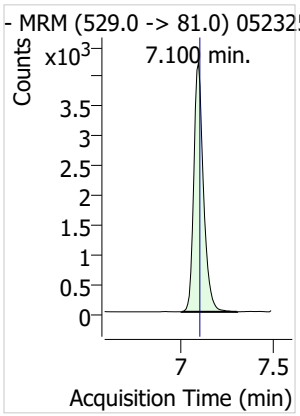
13C2-6:2FTS

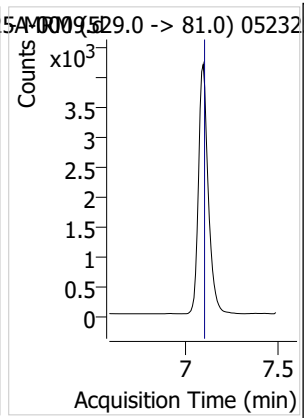


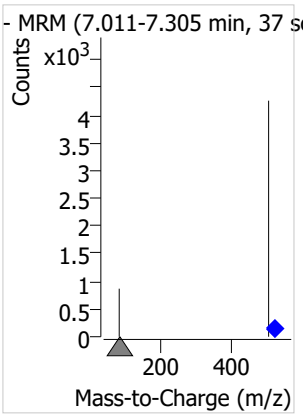




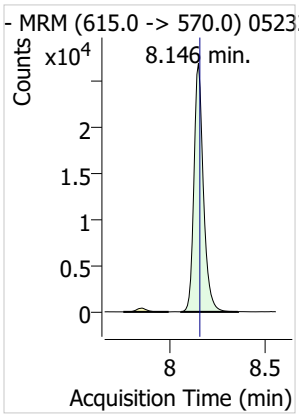
13C2-8:2FTS

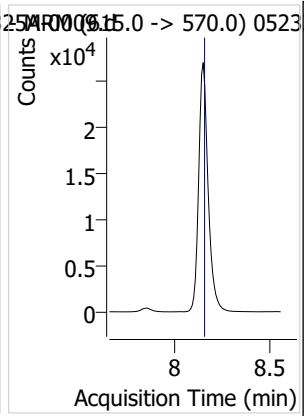


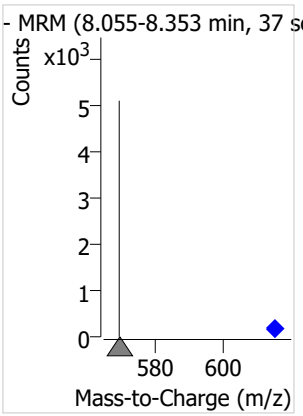




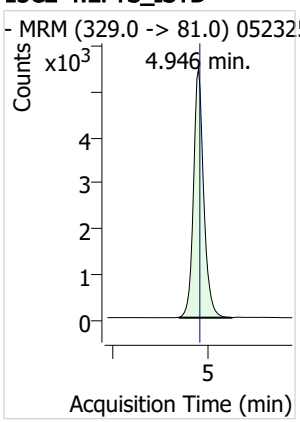
13C2-PFDoA

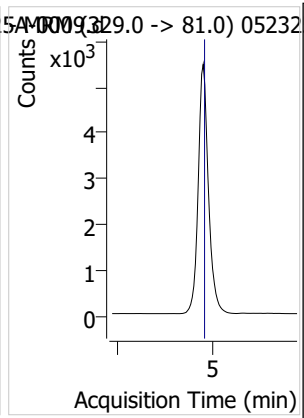


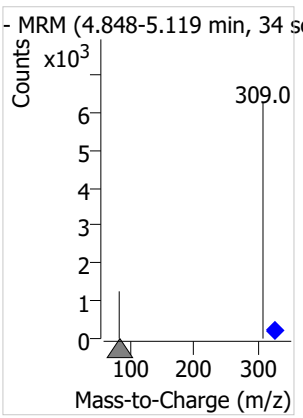




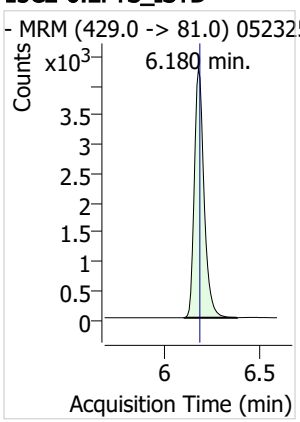
13C2-4:2FTS_ISTD

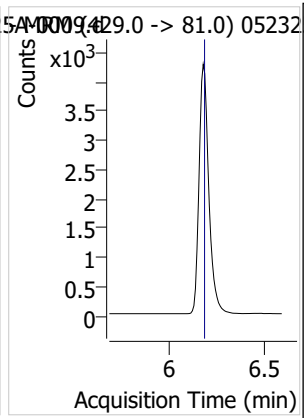


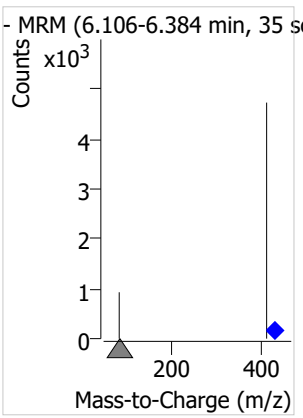




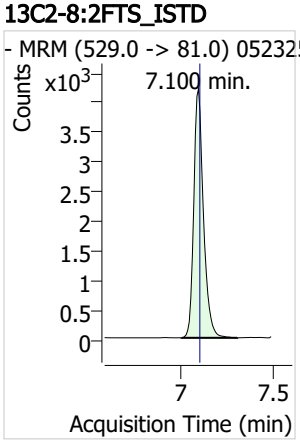
13C2-6:2FTS_ISTD

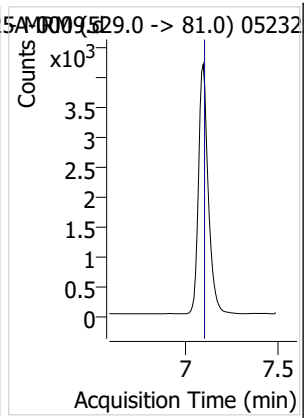


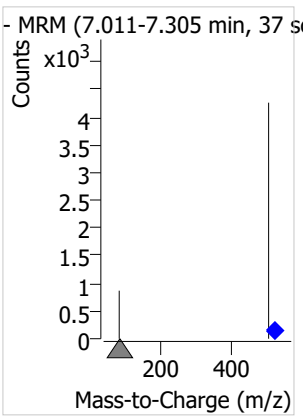




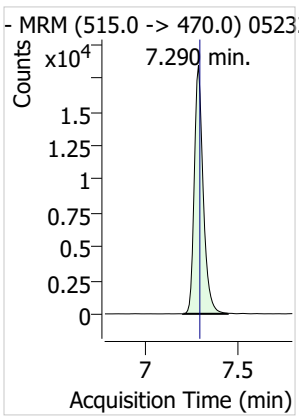
13C2-8:2FTS_ISTD

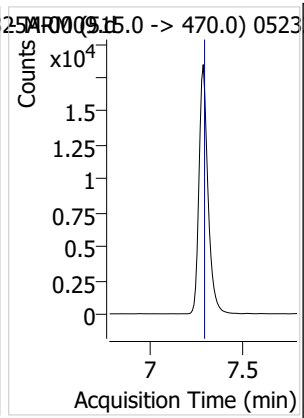


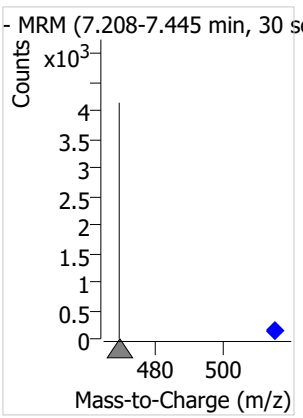




13C2-PFDA



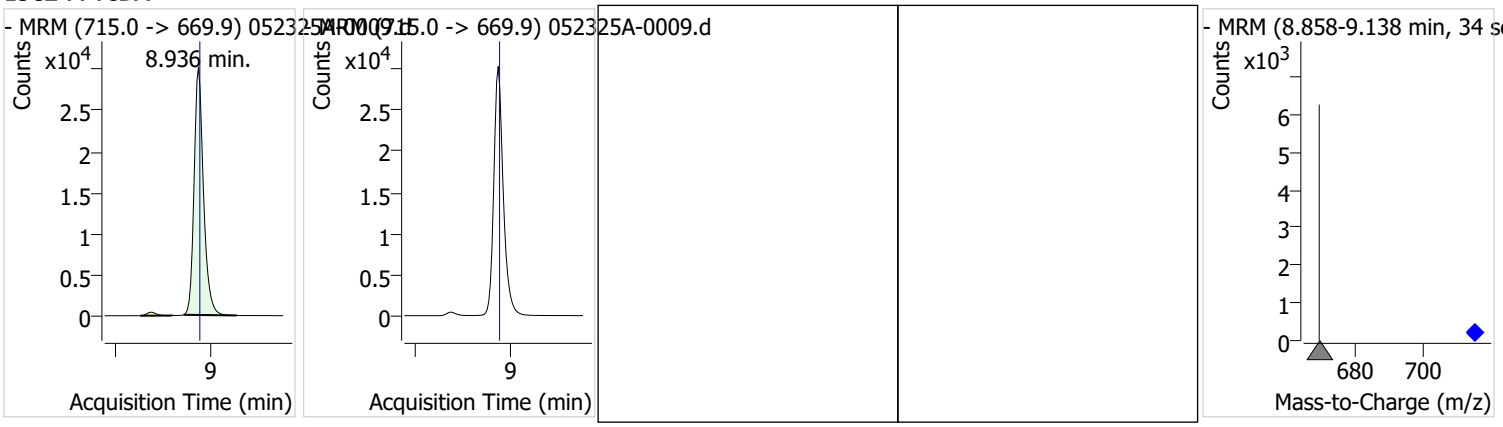




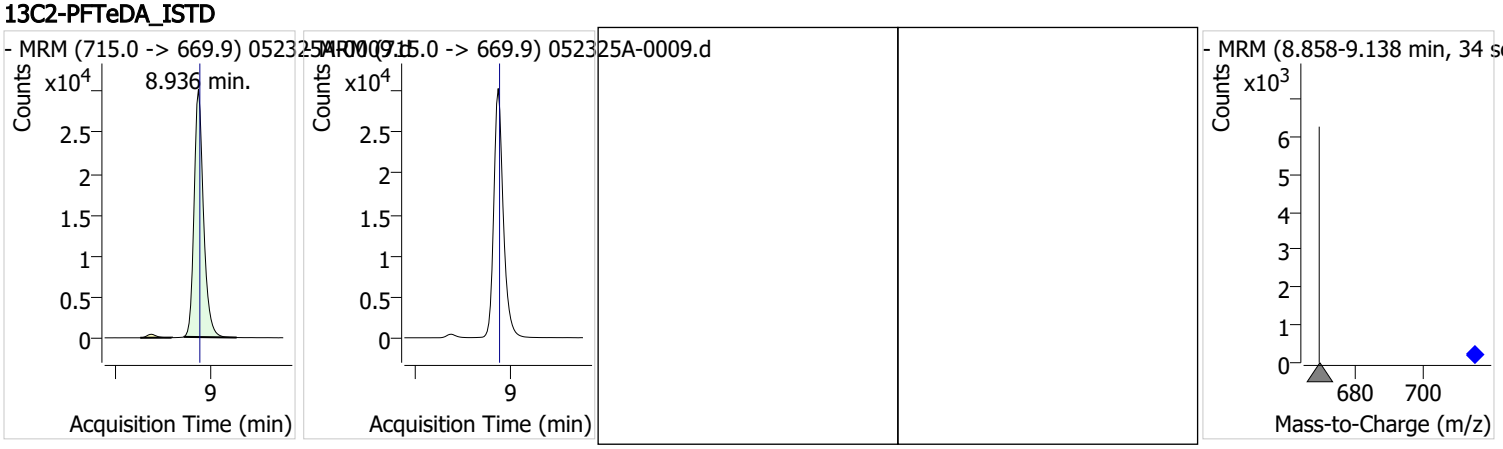
13C2-PFHxA



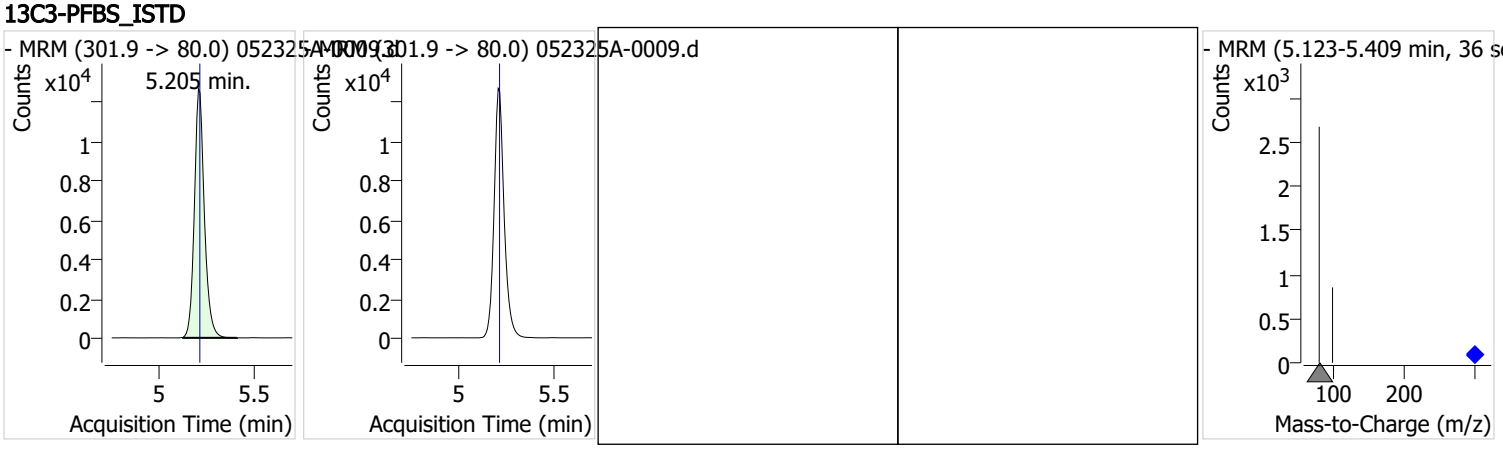
13C2-PFTeDA



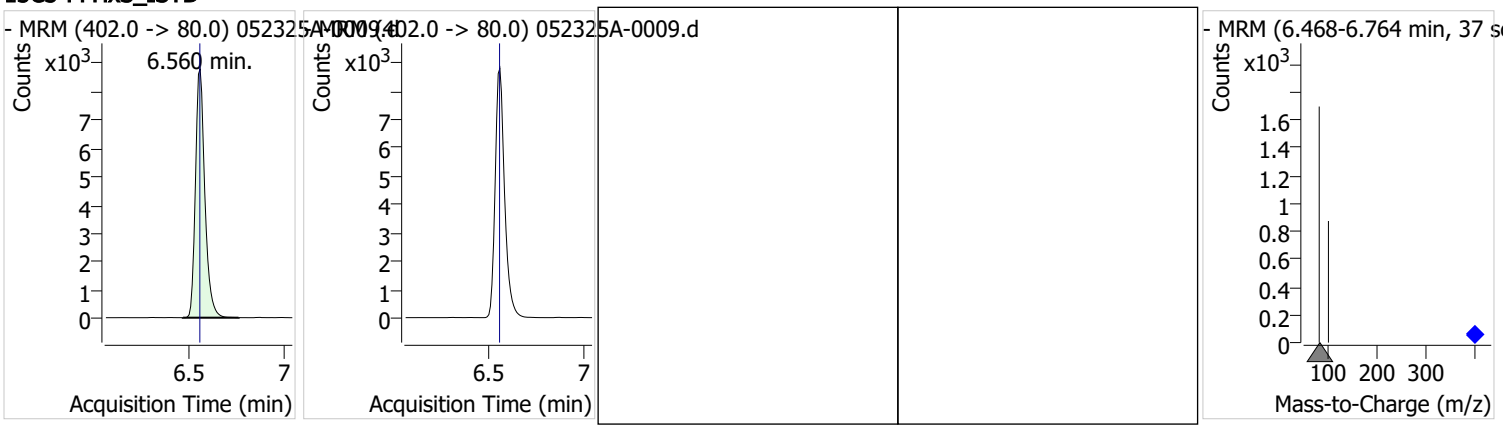
13C2-PFTeDA_ISTD



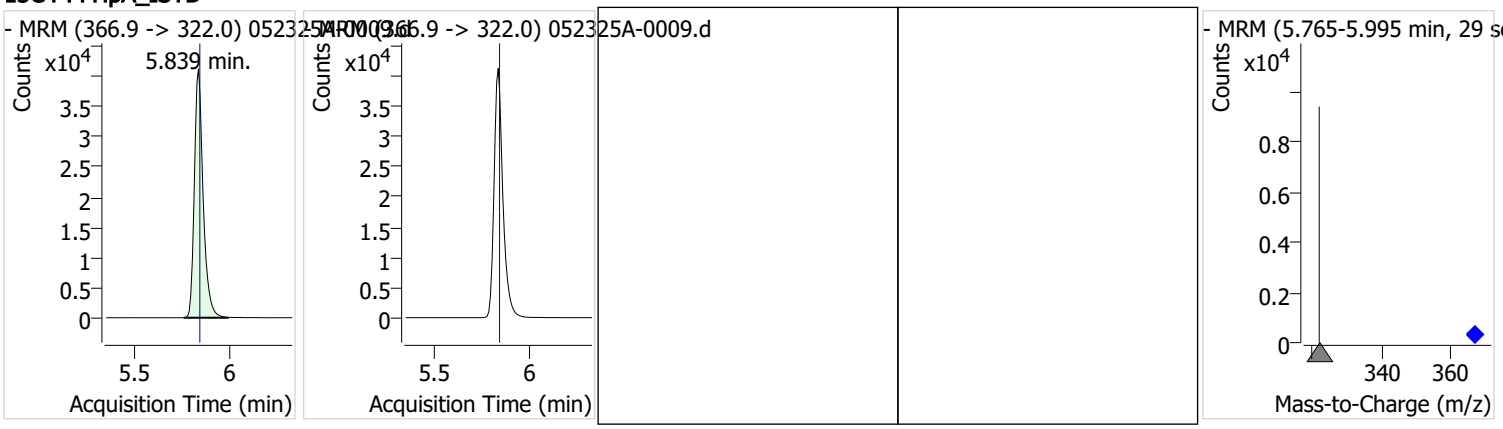
13C3-PFBS_ISTD



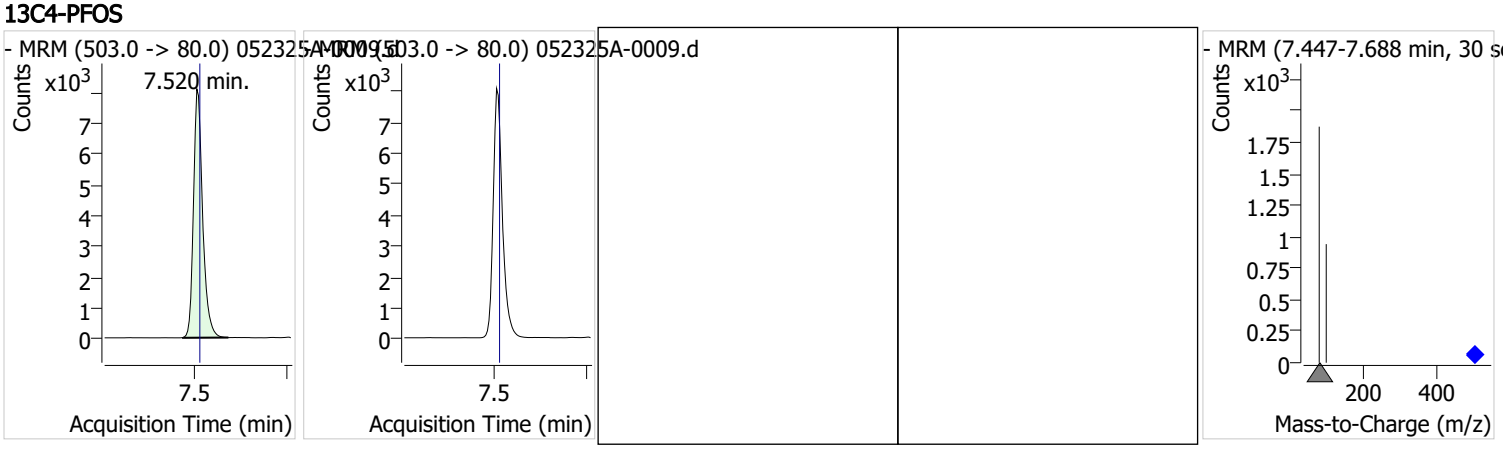
13C3-PFHxS_ISTD



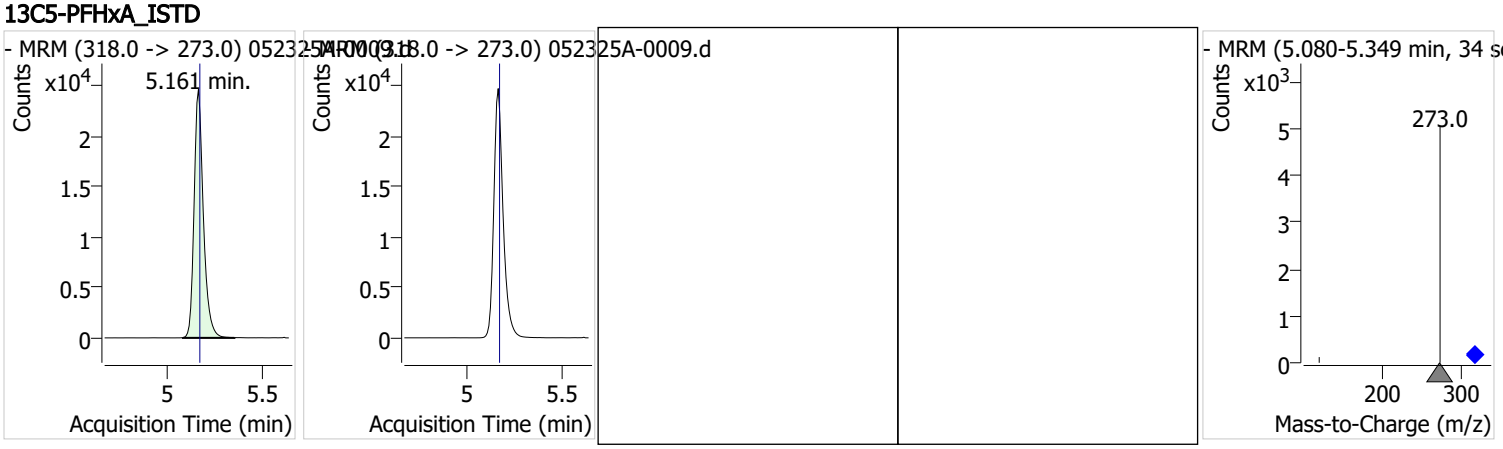
13C4-PFHpA_ISTD



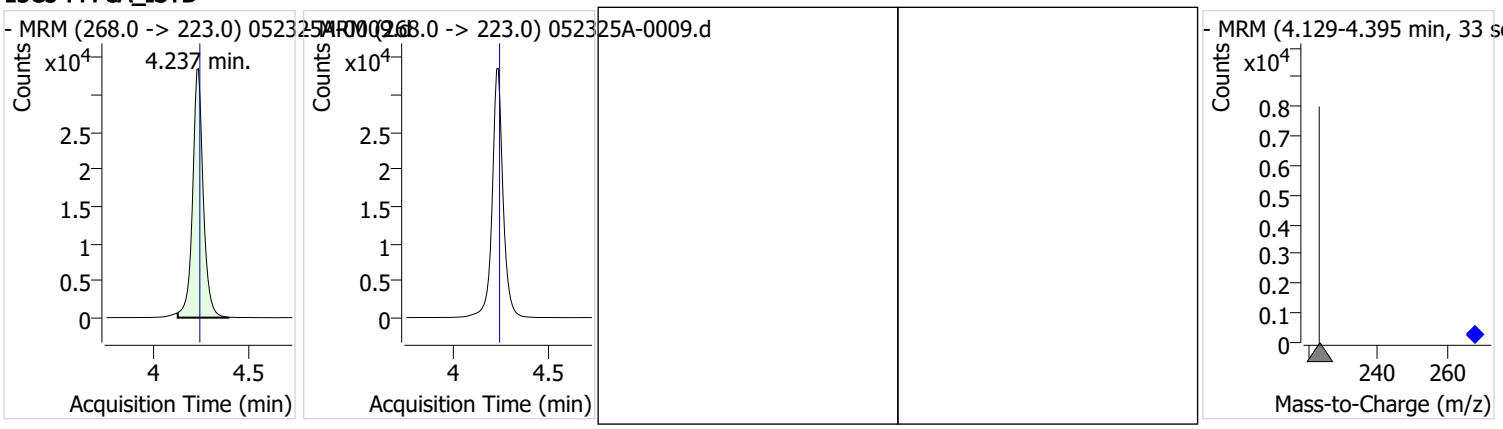
13C4-PFOS



13C5-PFHxA_ISTD



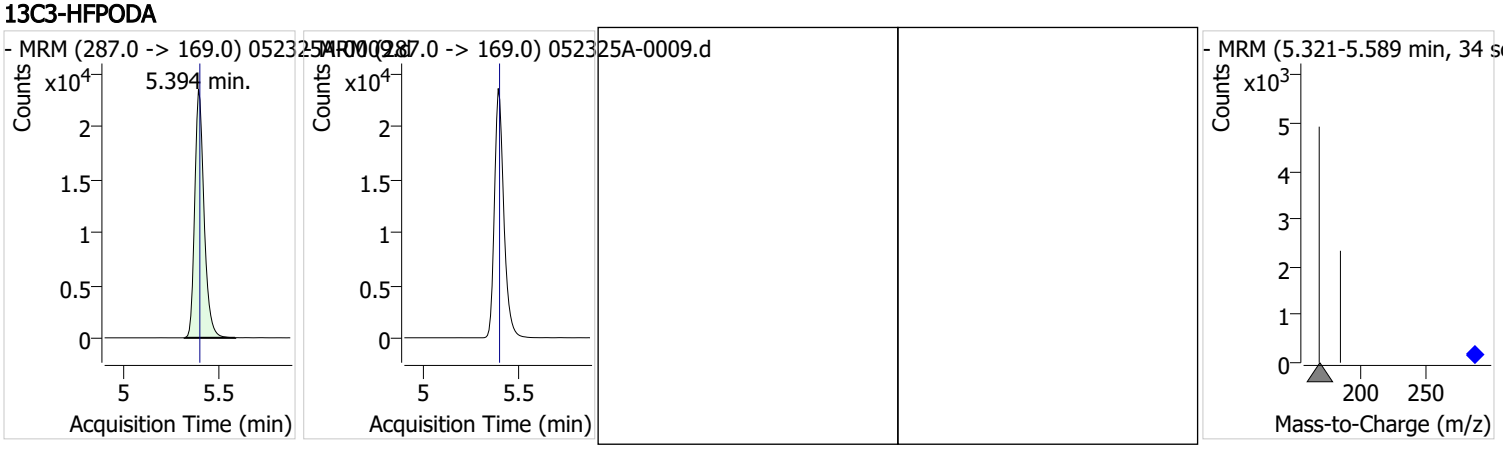
13C5-PFPeA_ISTD



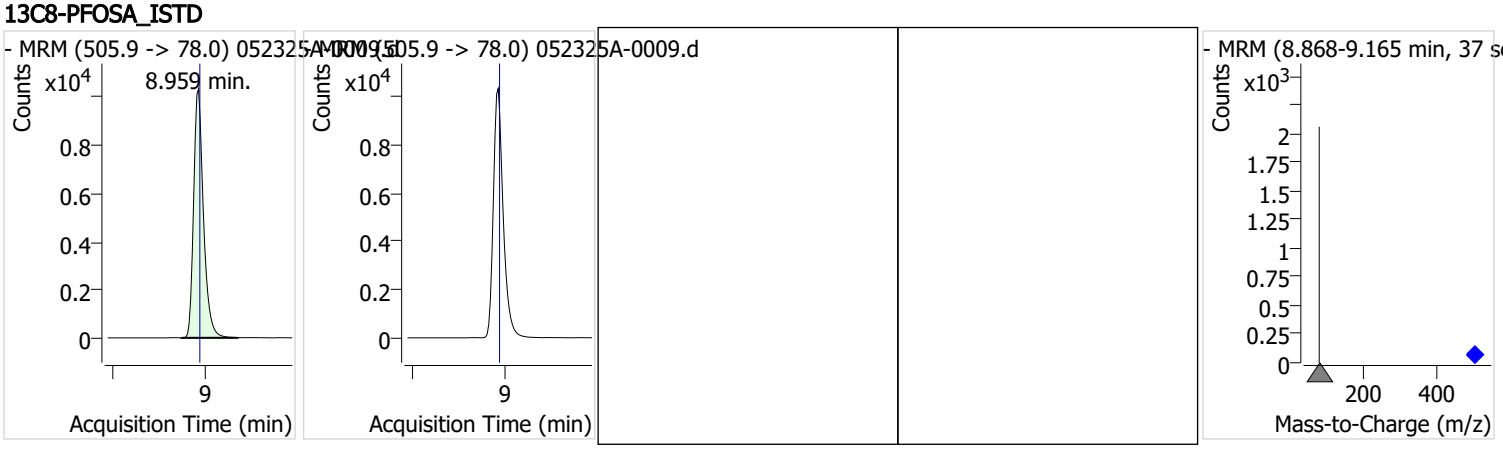
13C6-PFDA_ISTD



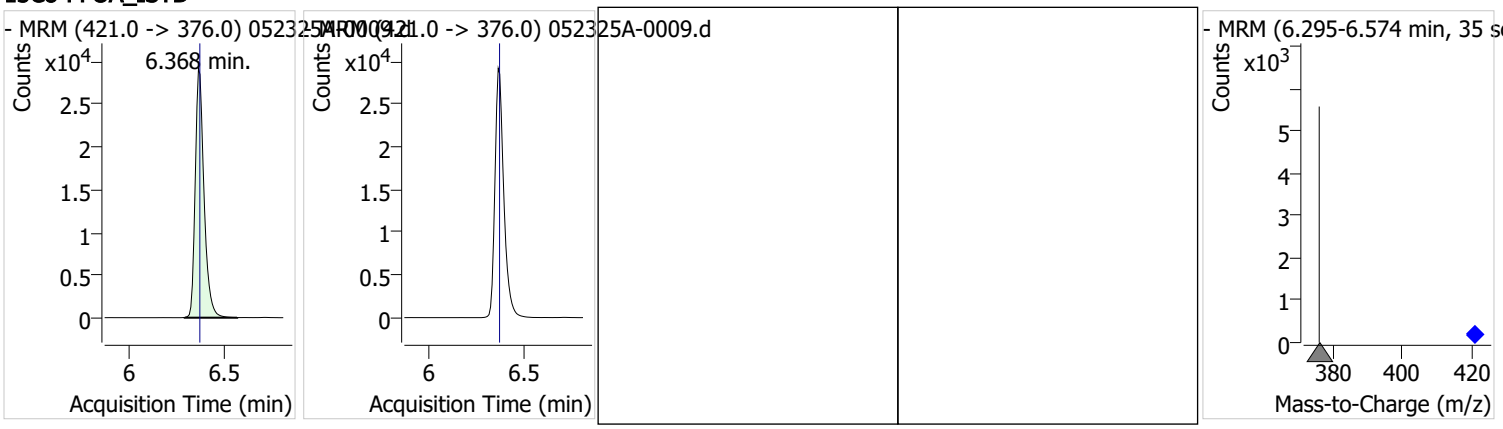
13C3-HFPODA



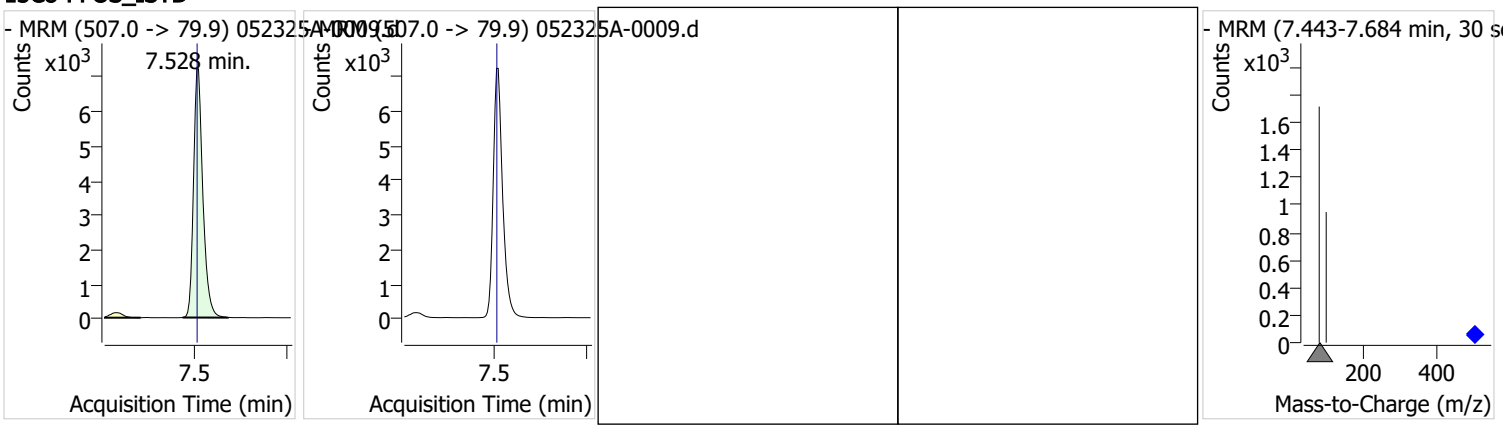
13C8-PFOSA_ISTD



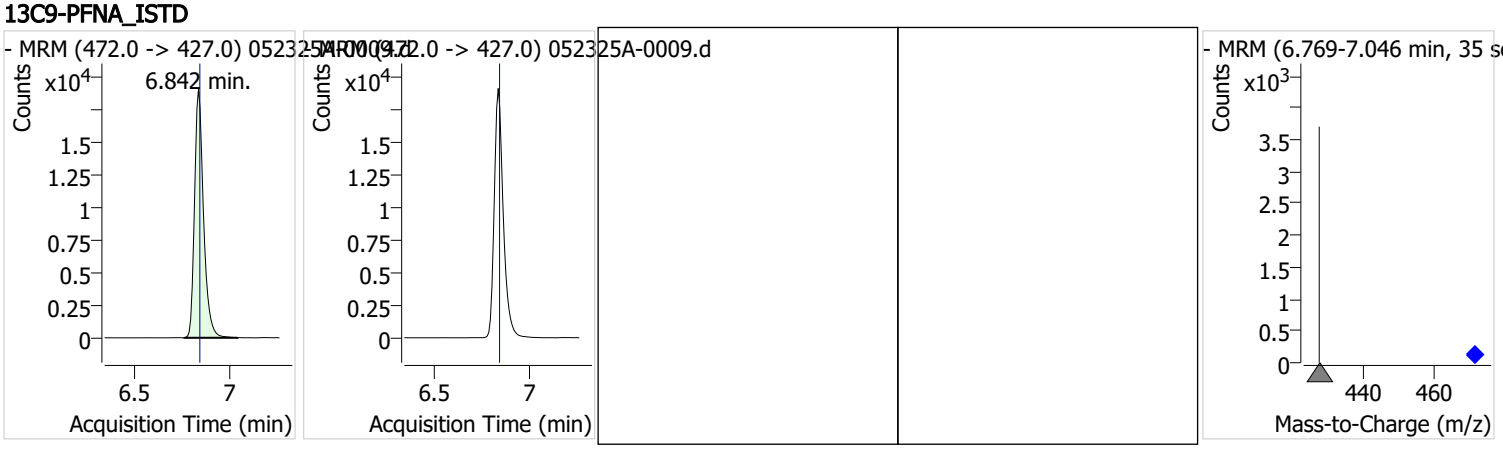
13C8-PFOA_ISTD



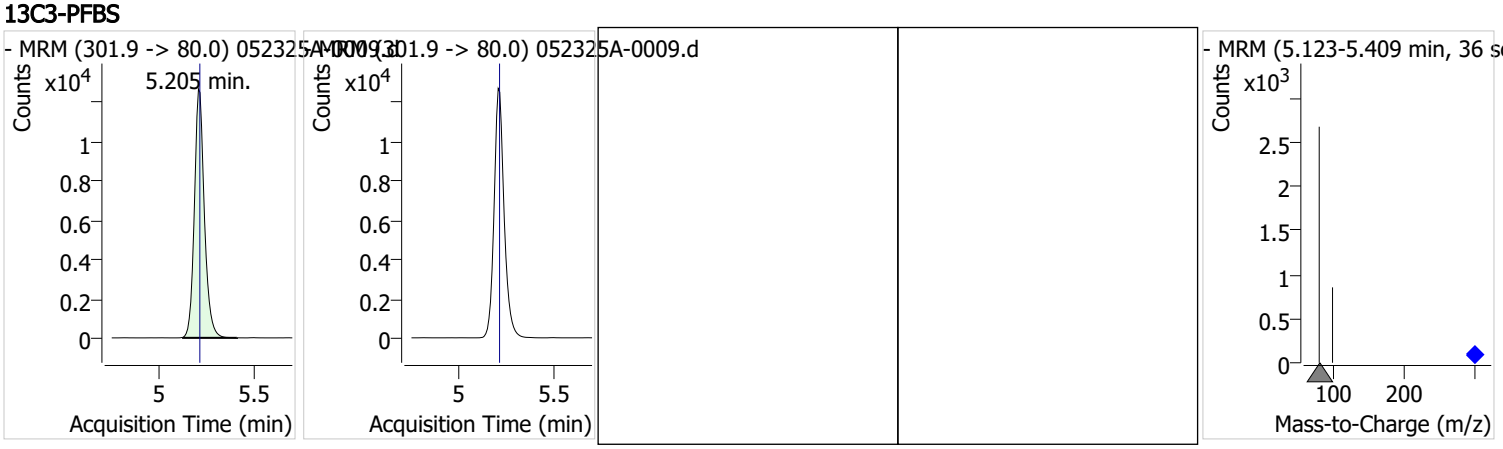
13C8-PFOS_ISTD



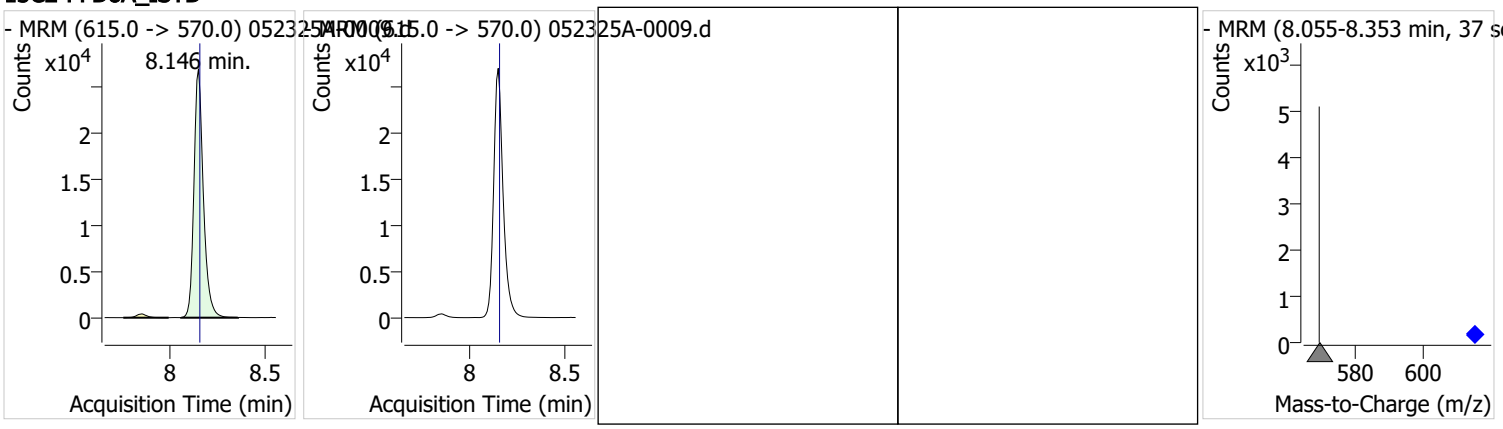
13C9-PFNA_ISTD



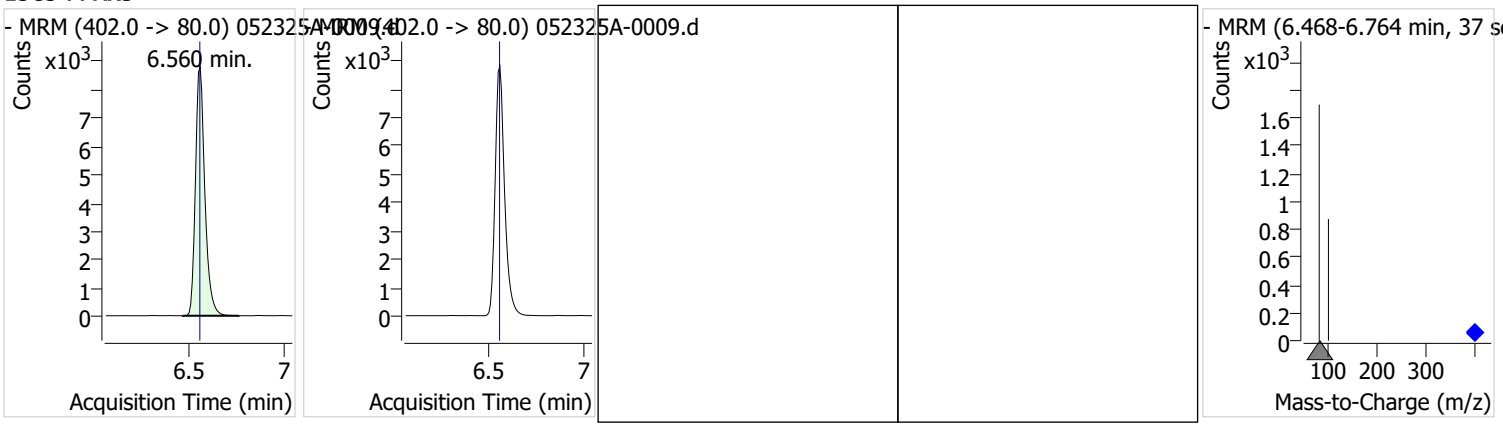
13C3-PFBS



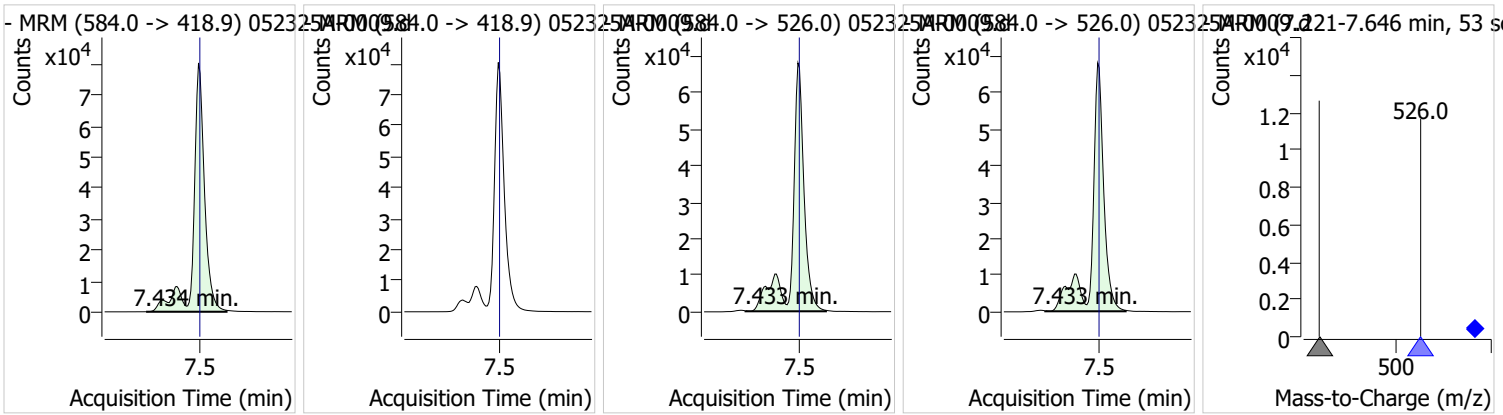
13C2-PFDoA_ISTD



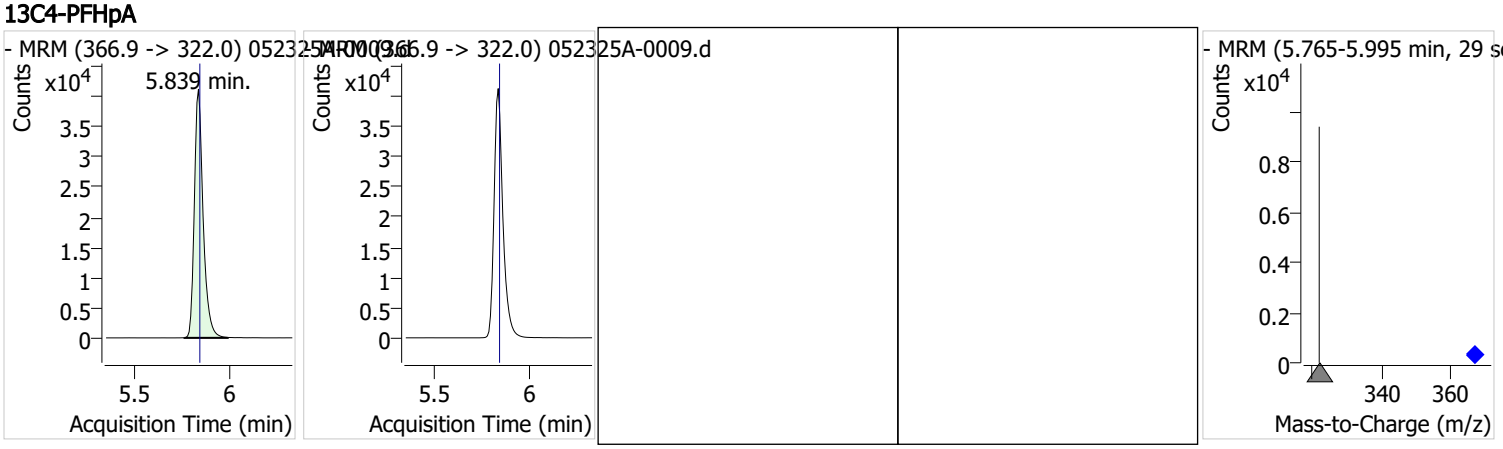
13C3-PFHxS



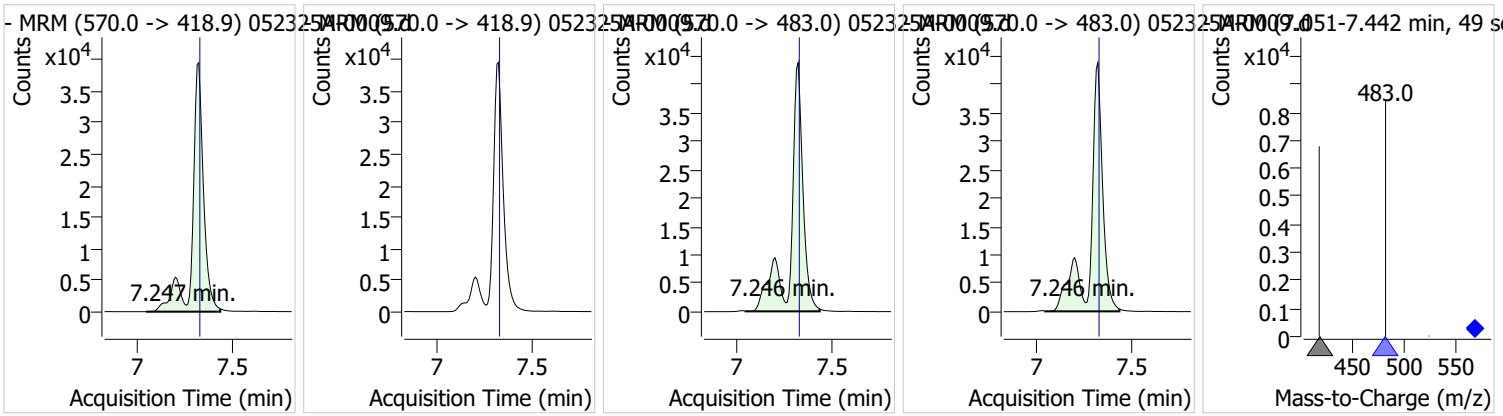
NEtFOSAA



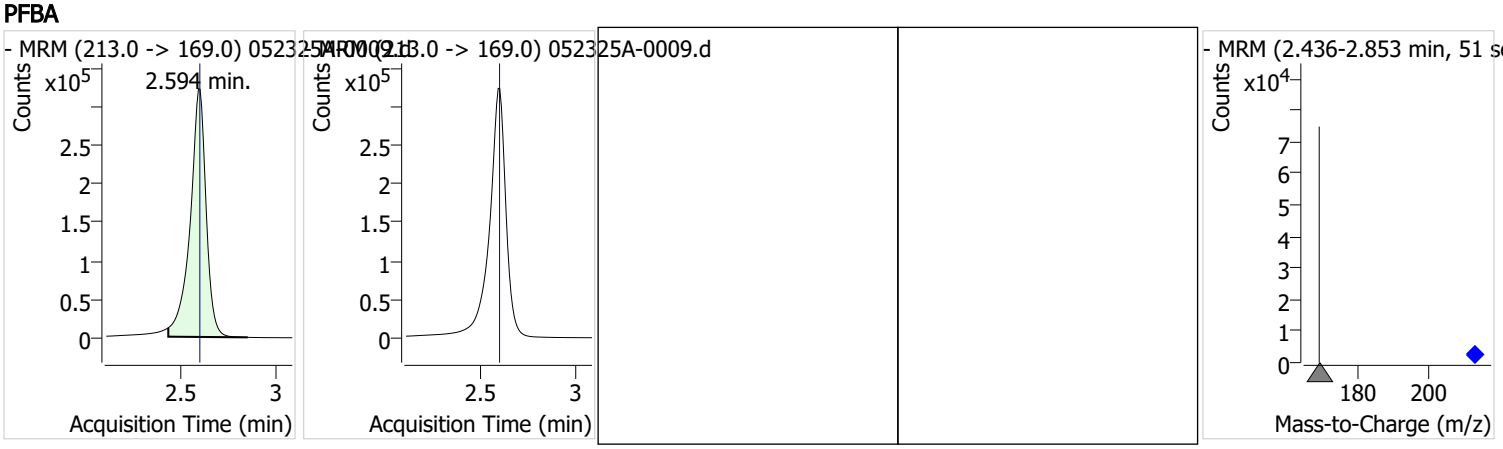
13C4-PFHpA



NMeFOSAA



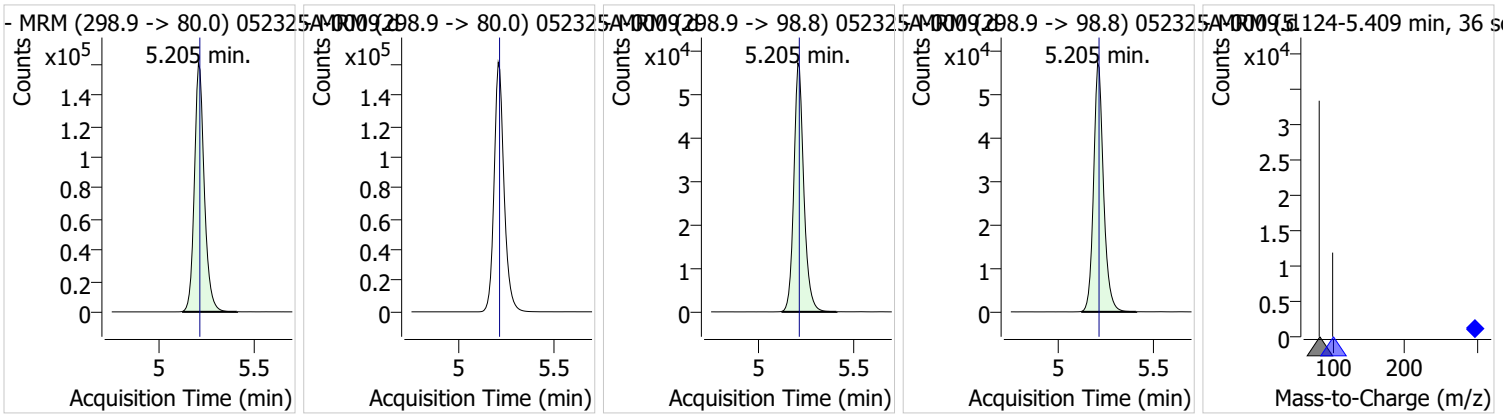
PFBA



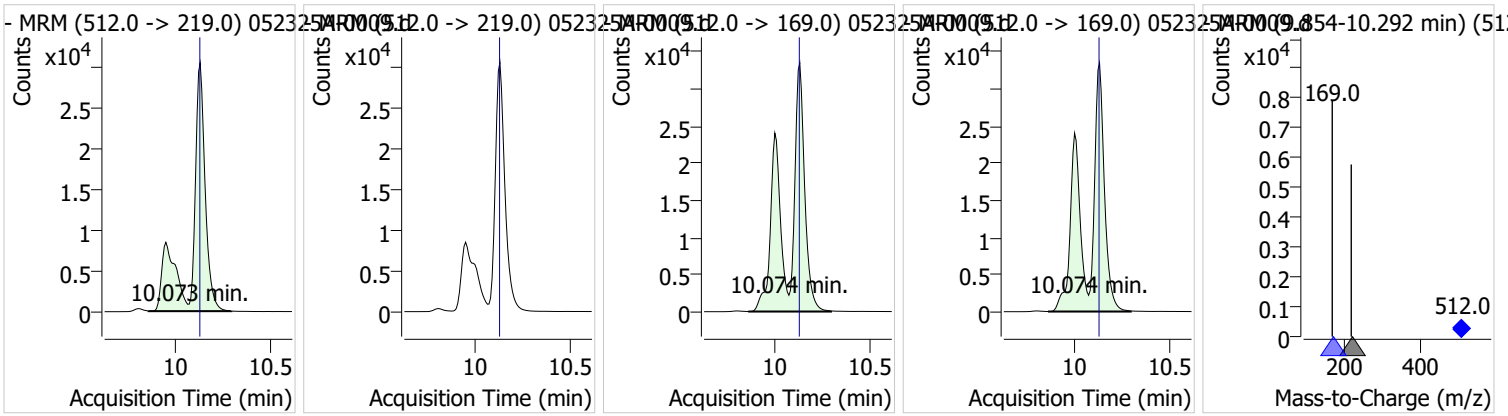
13C5-PFHxA



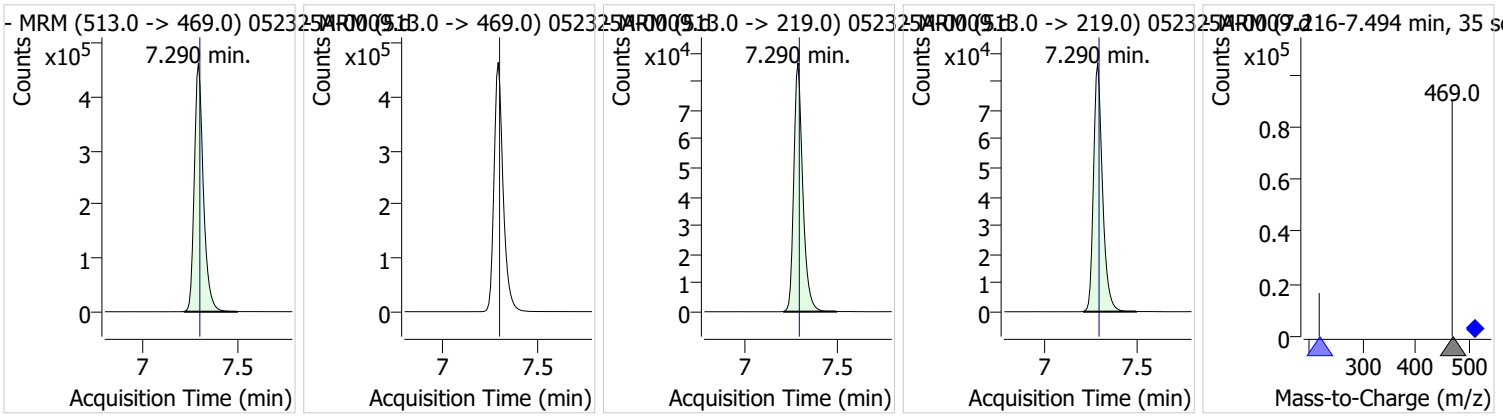
PFBS



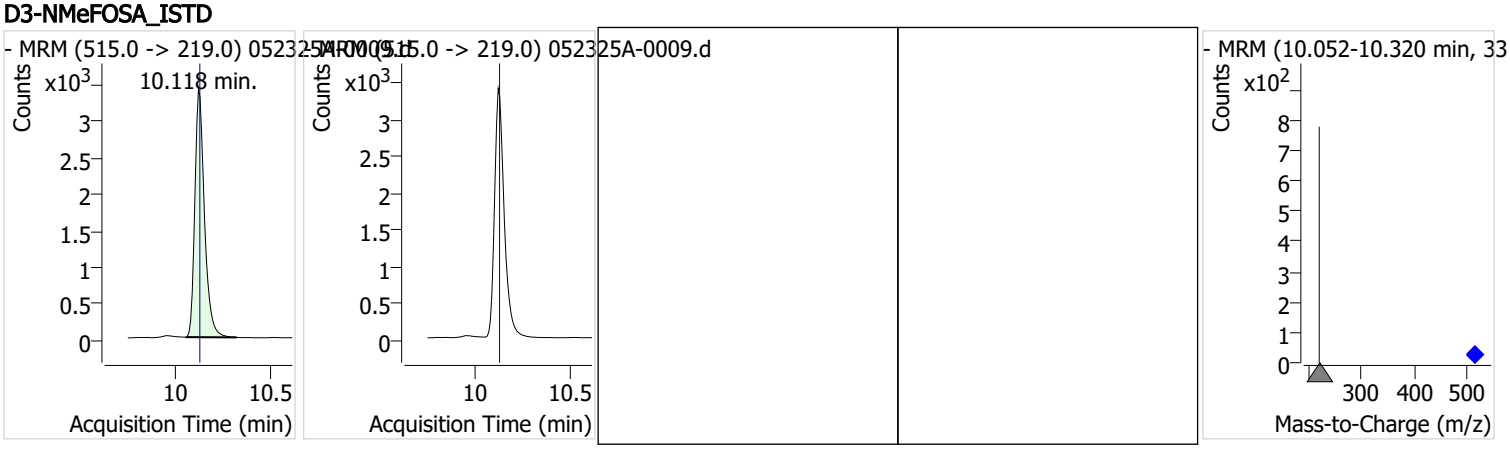
NMeFOSA



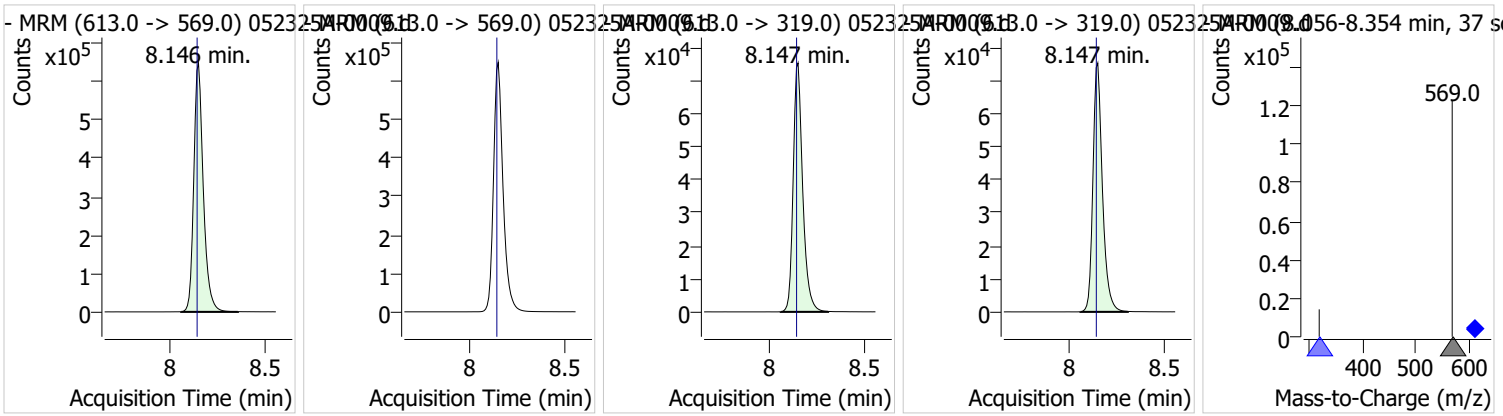
PFDA



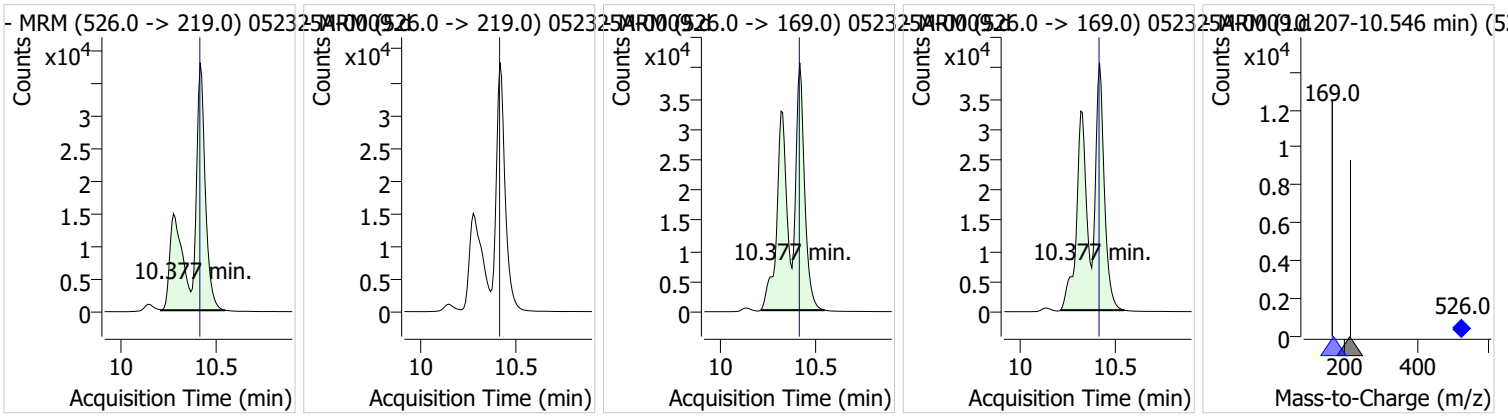
D3-NMeFOSA_ISTD



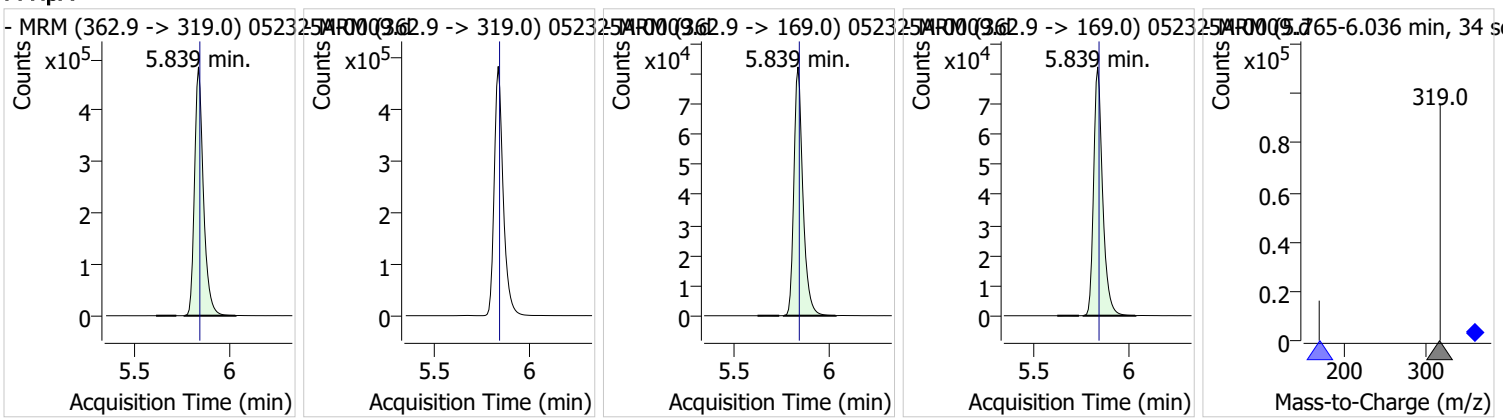
PFDoA



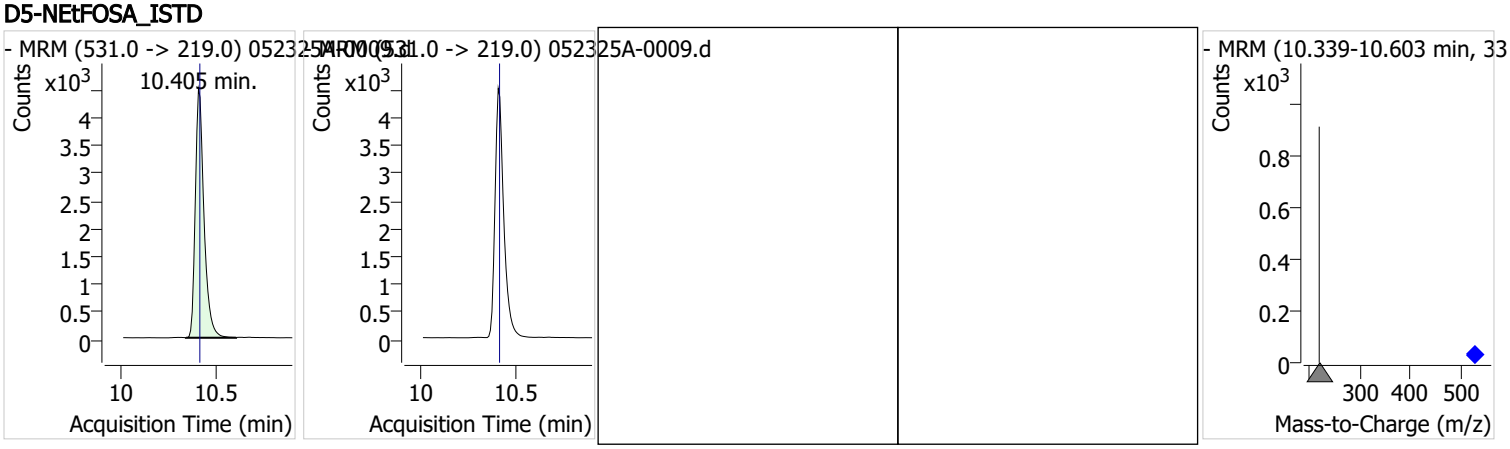
NEtFOSA



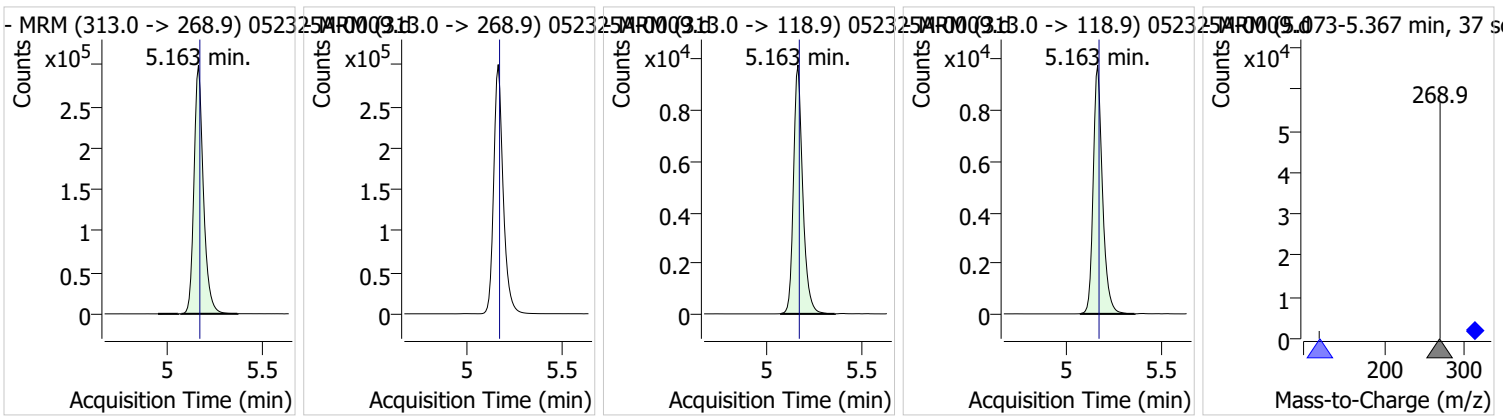
PFHpA



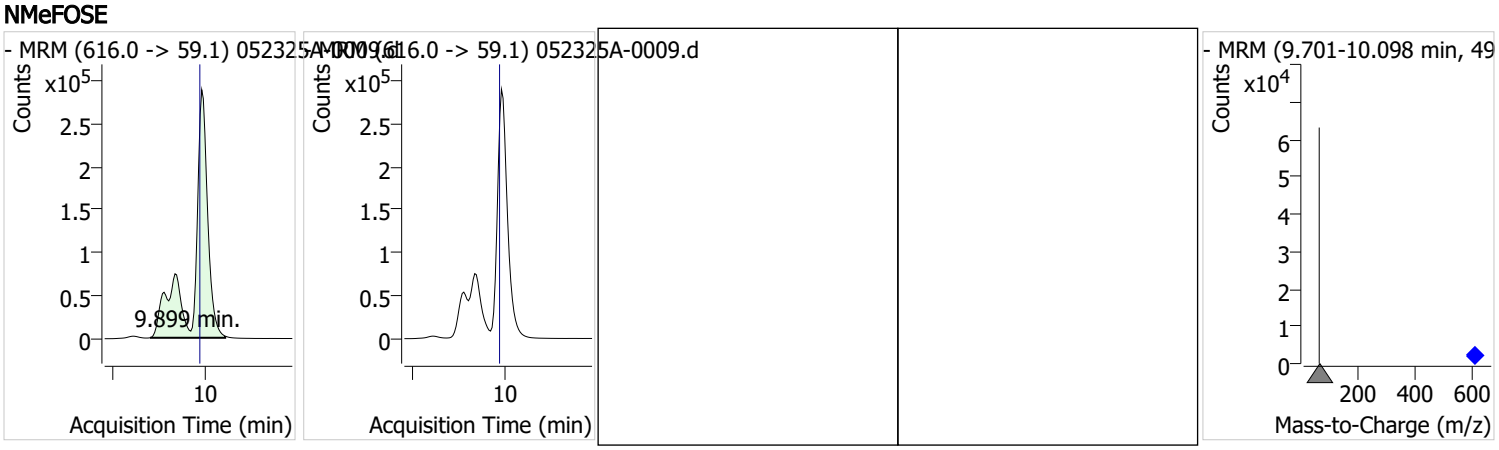
D5-NEtFOSA_ISTD



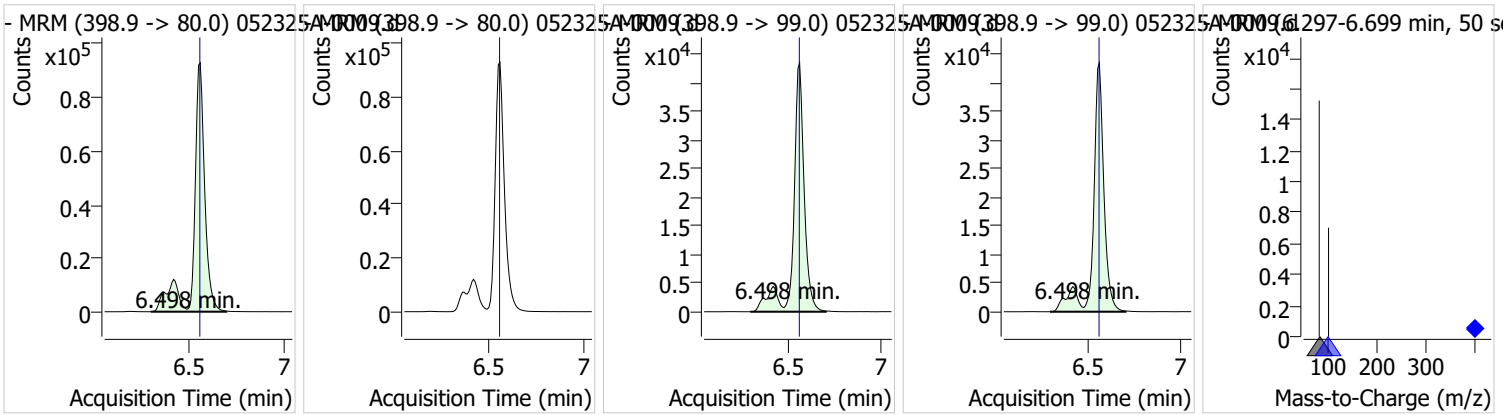
PFHxA



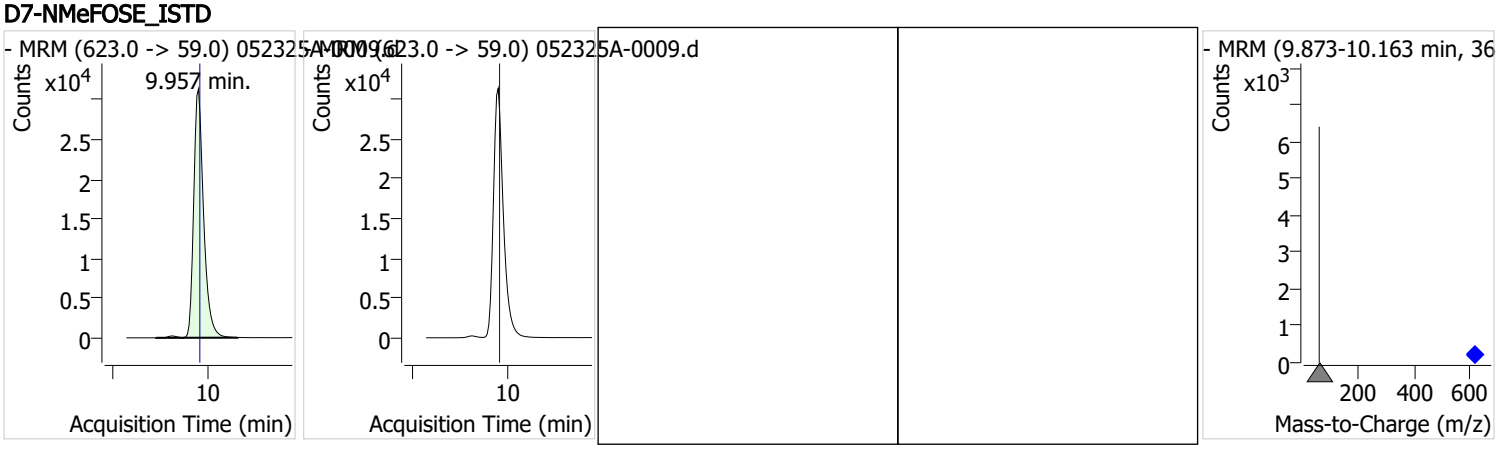
NMeFOSE



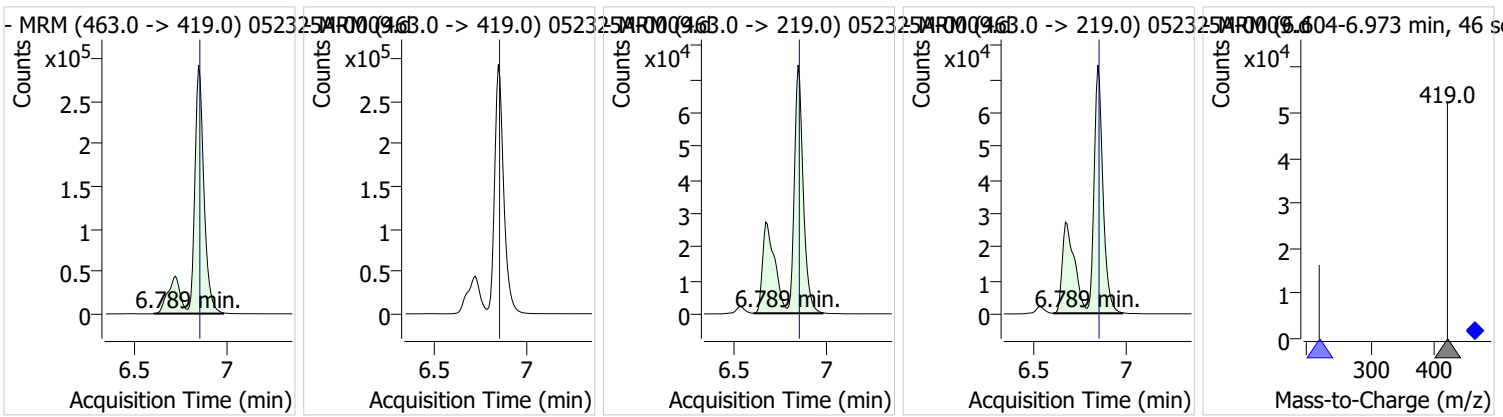
PFHxS



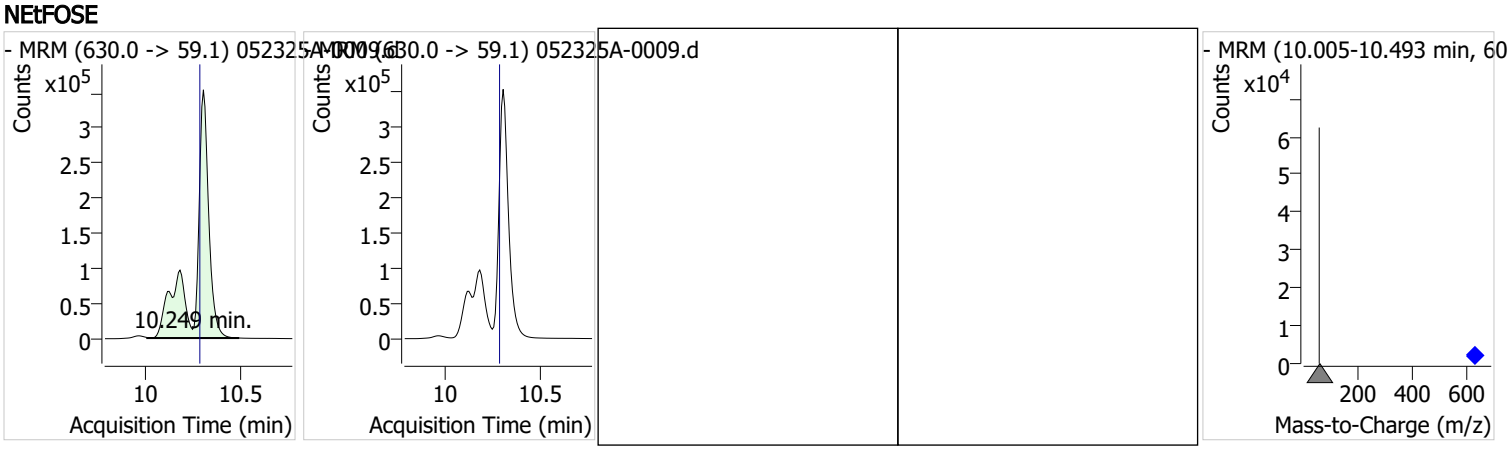
D7-NMeFOSE_ISTD



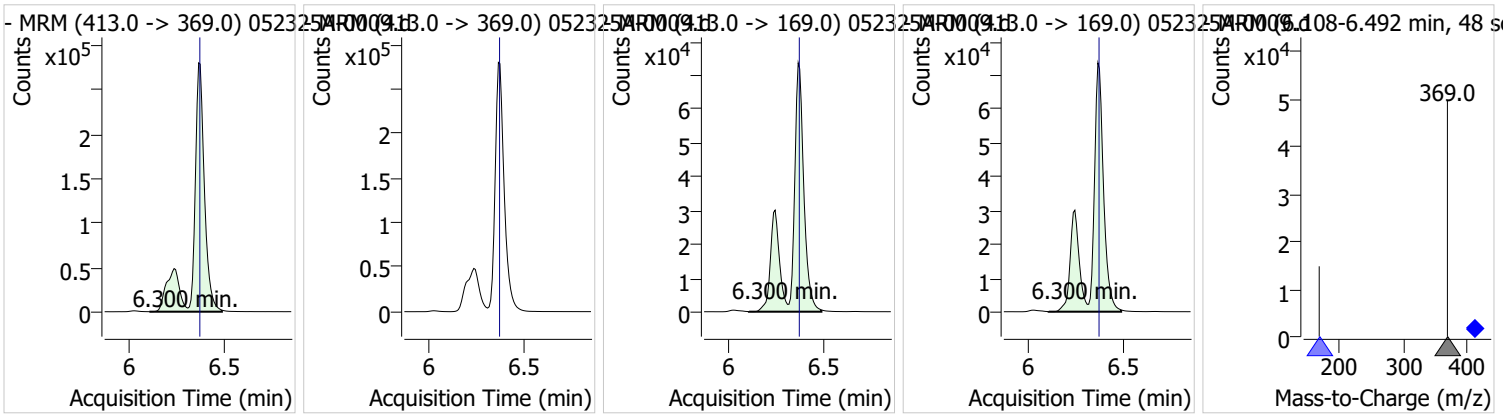
PFNA



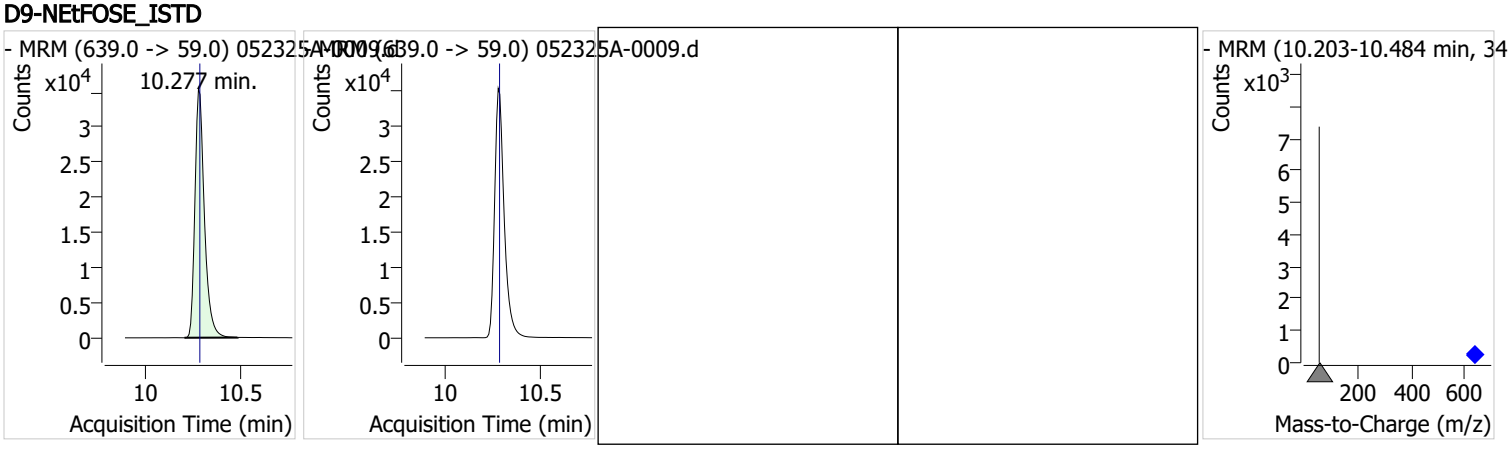
NEtFOSE



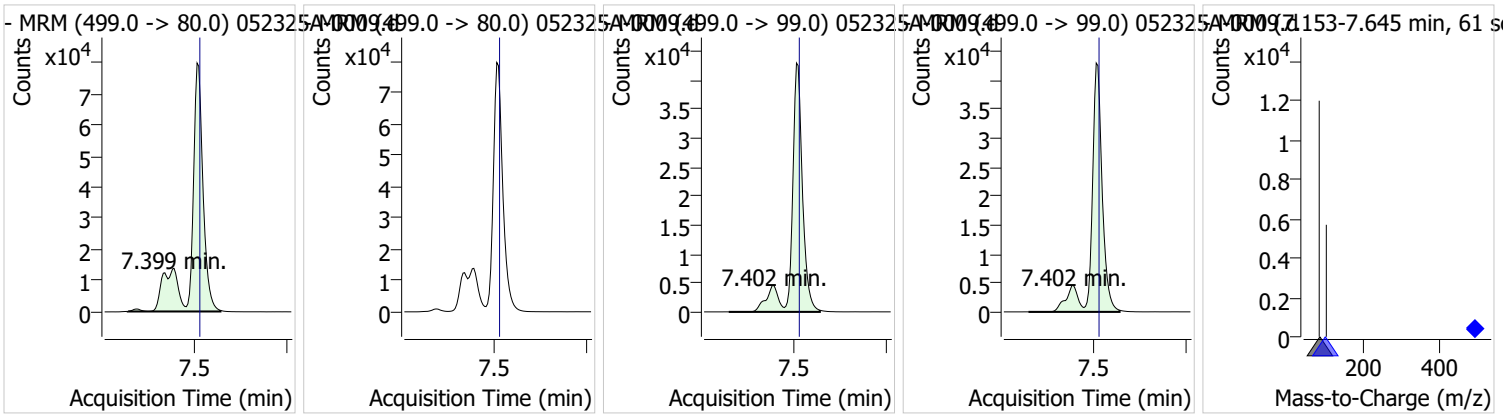
PFOA



D9-NEtFOSE_ISTD



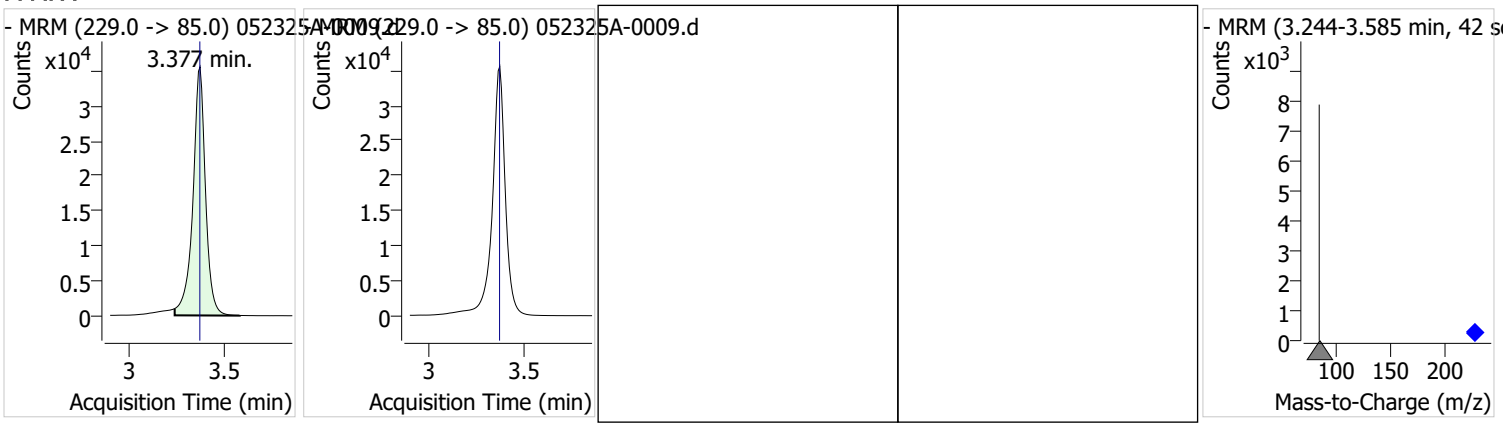
PFOS



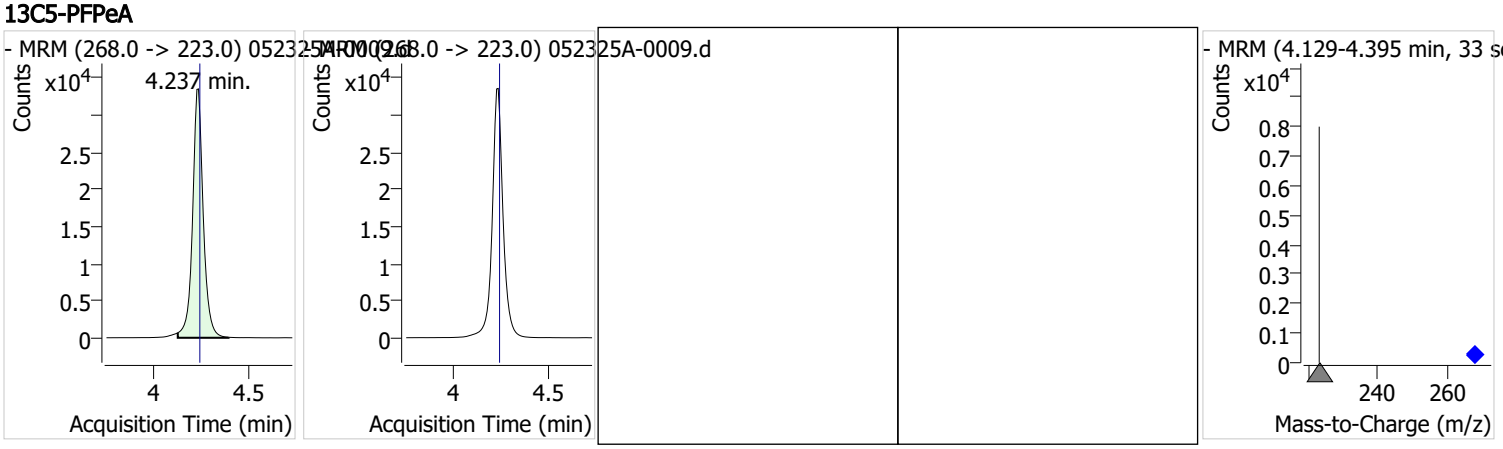
PFPeA



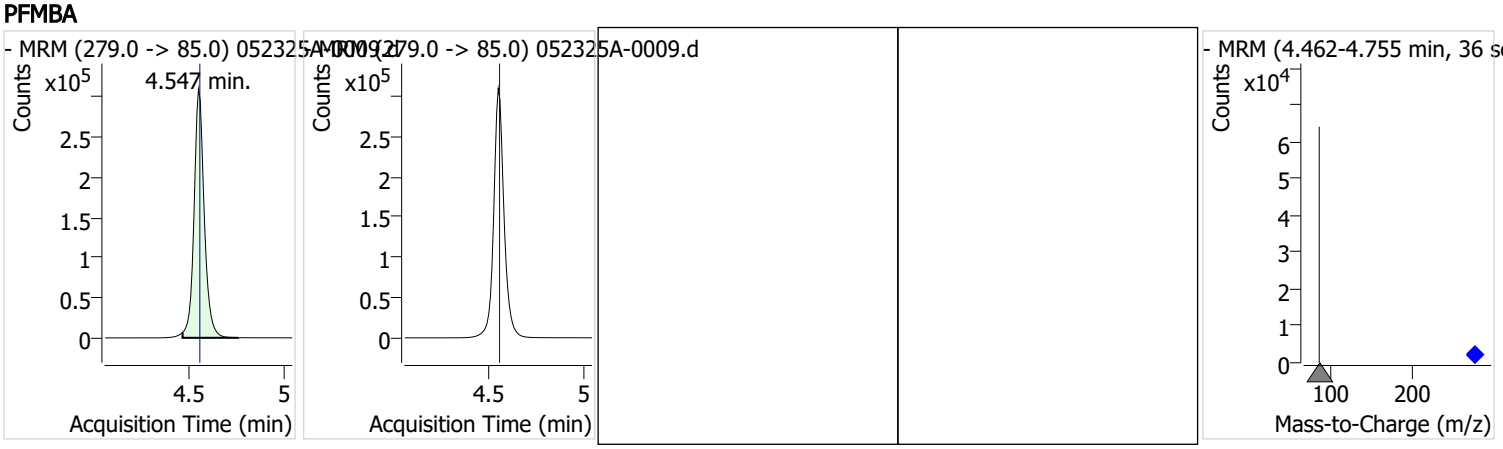
PFMPA



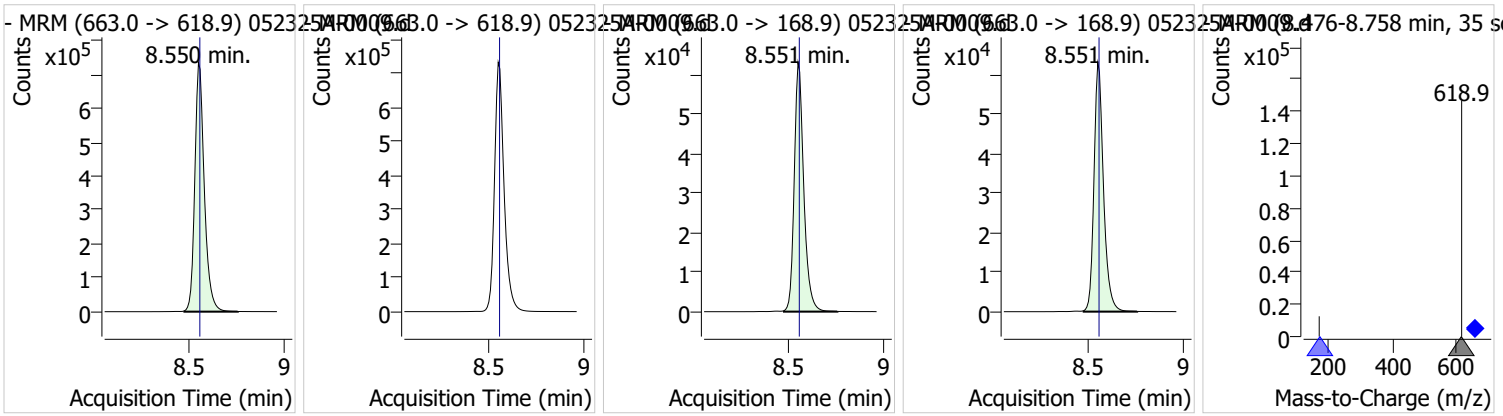
13C5-PFPeA



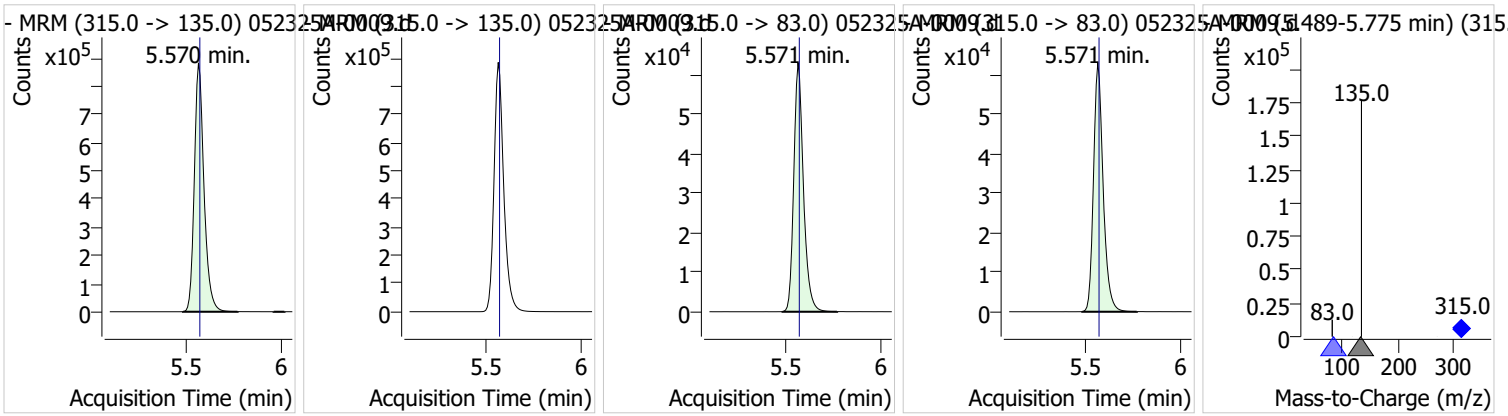
PFMBA



PFTrDA



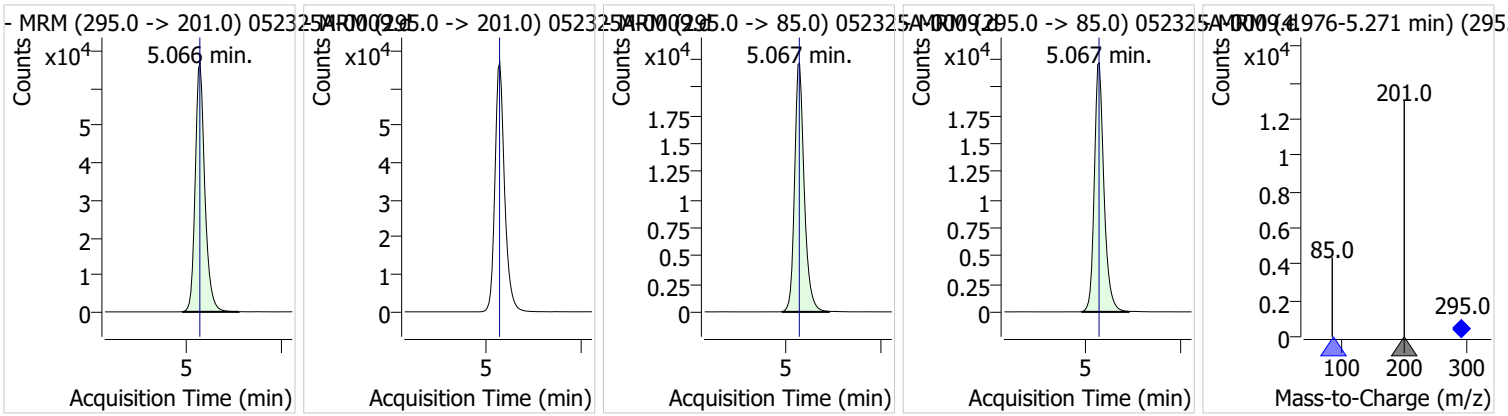
PFEESA



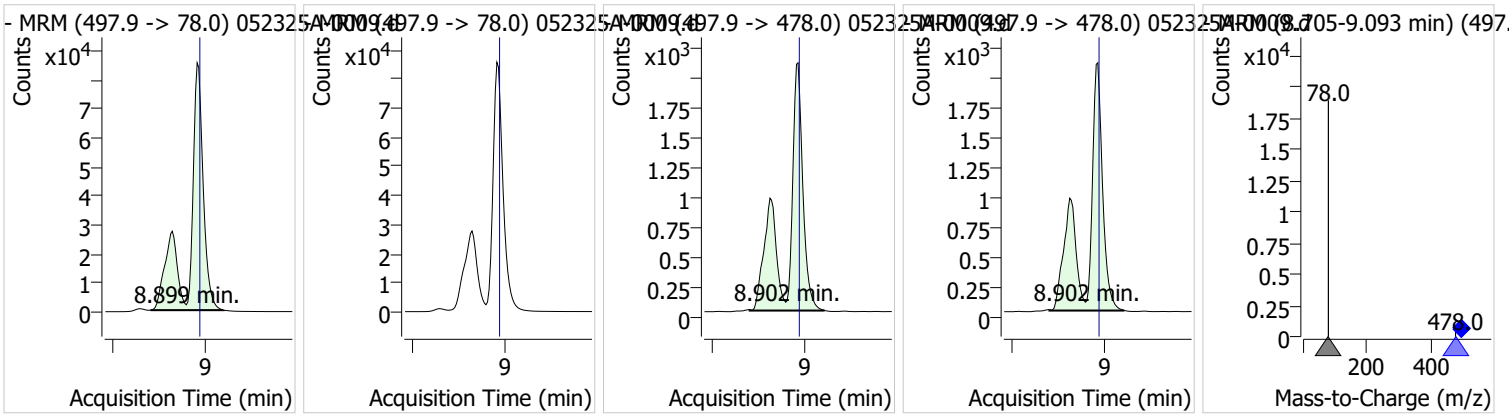
13C6-PFDA



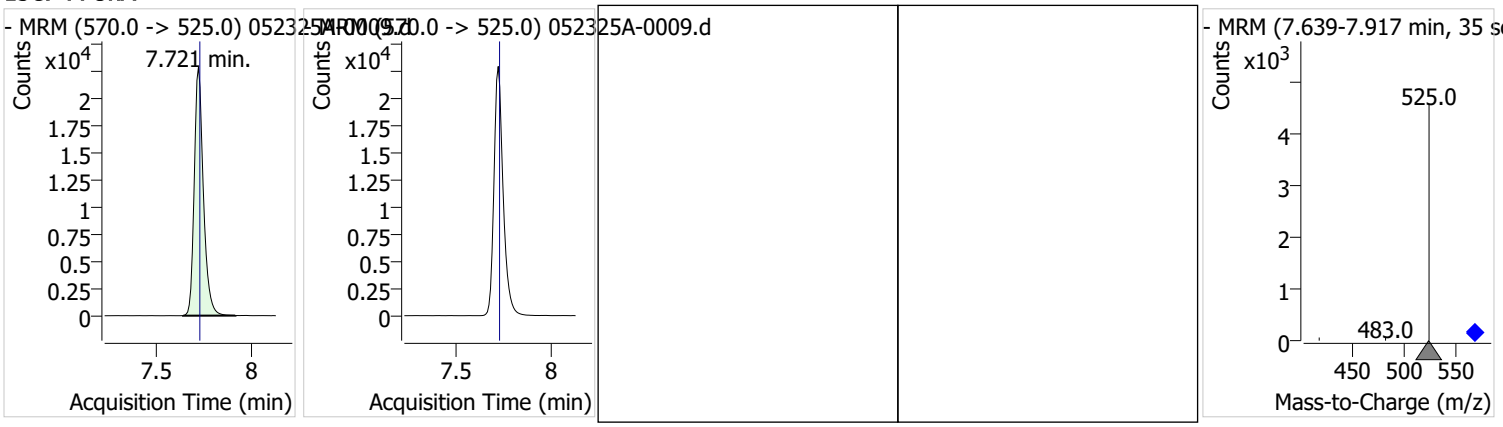
NFDHA



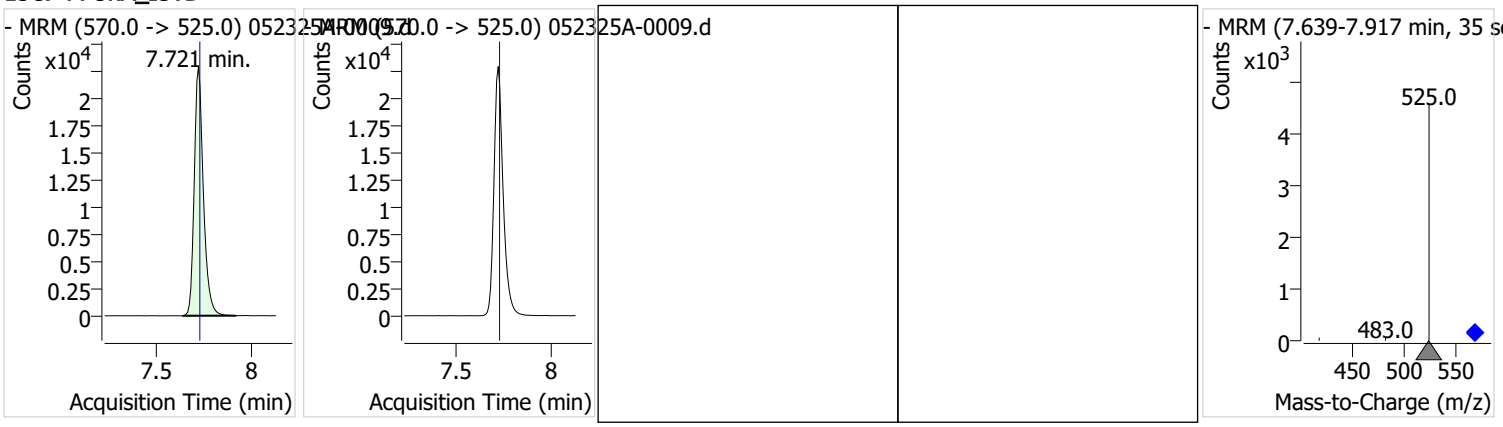
PFOSA



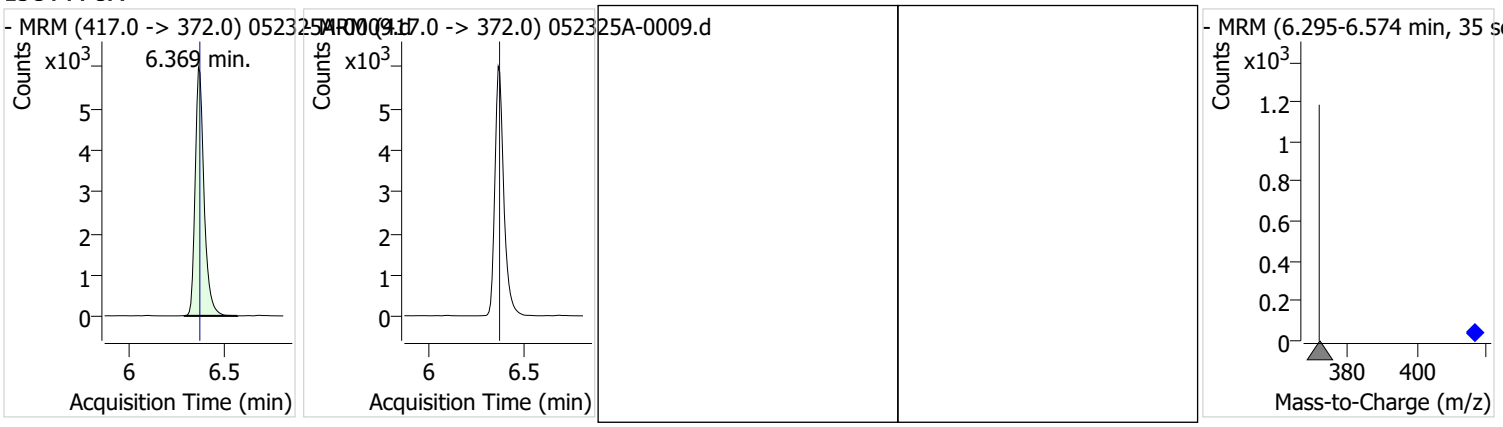
13C7-PFUnA



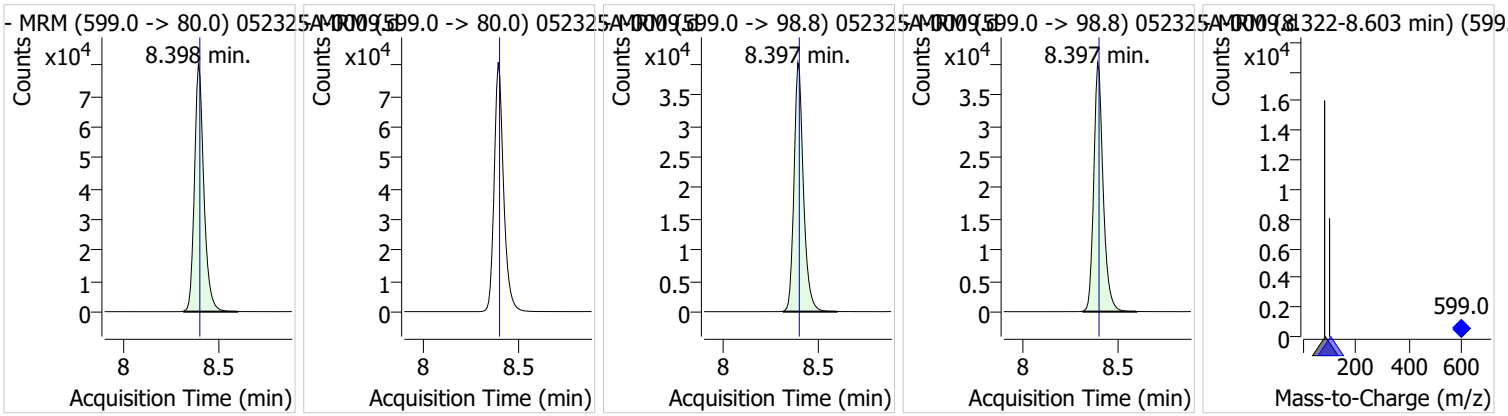
13C7-PFUnA_ISTD



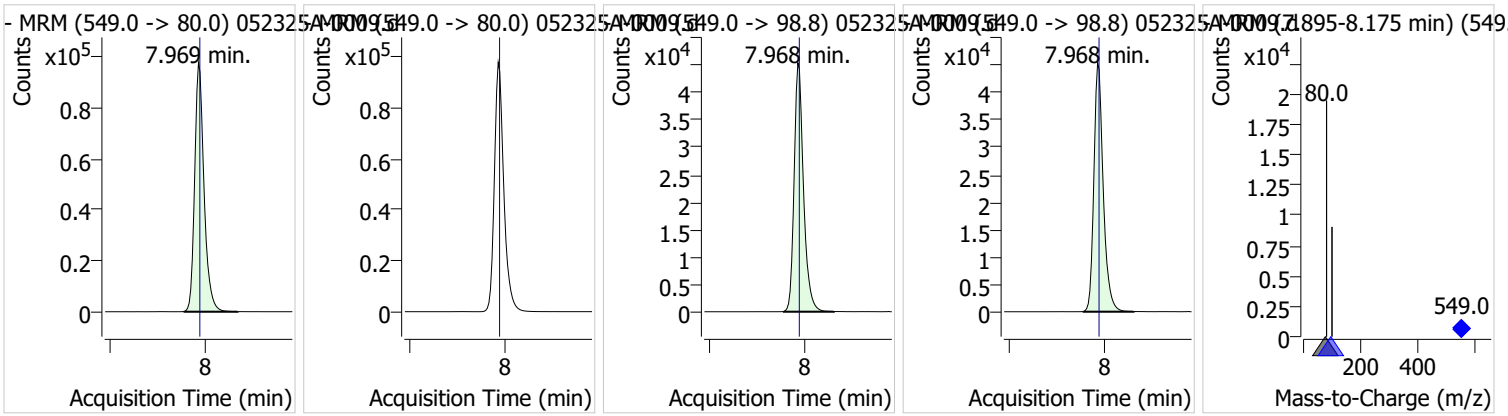
13C4-PFOA



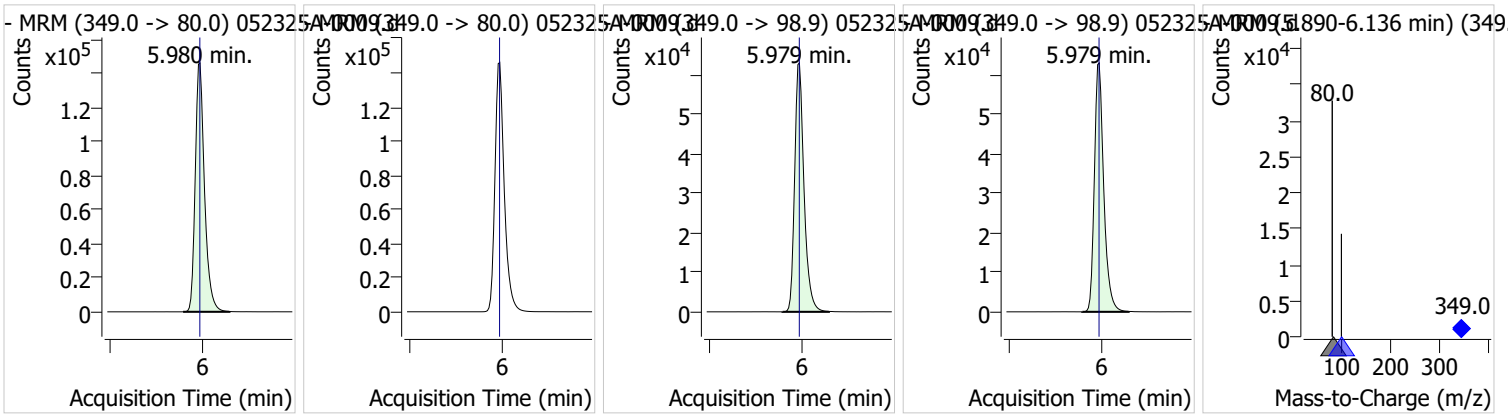
PFDS



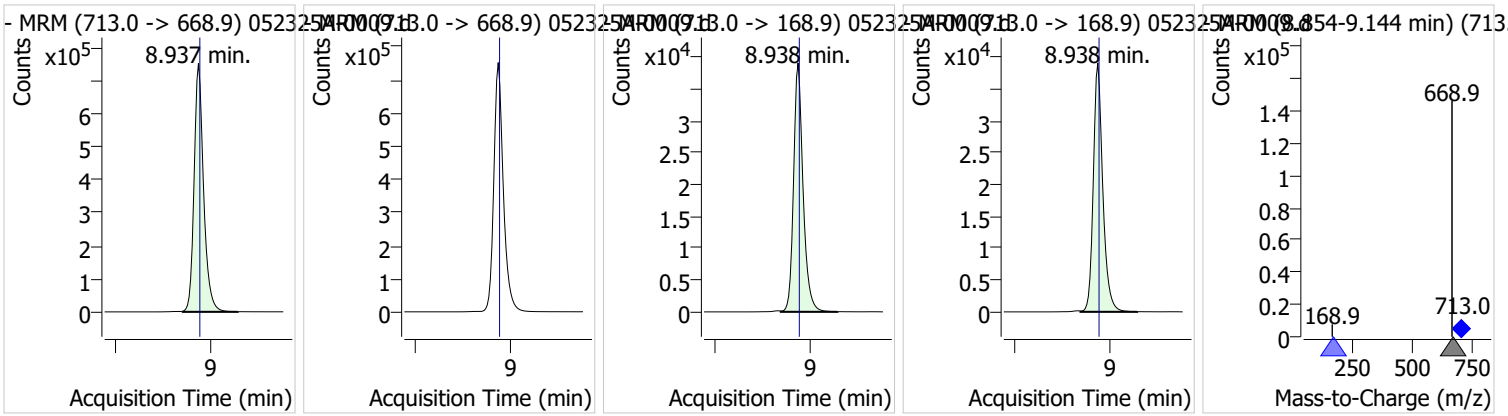
PFNS



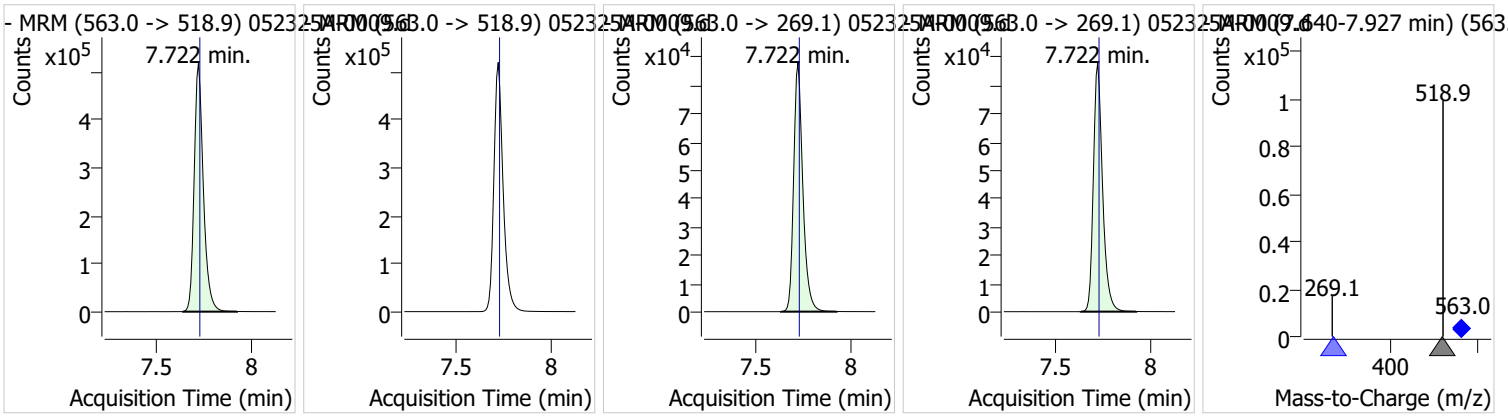
PFPeS



PFTeDA



PFUnA



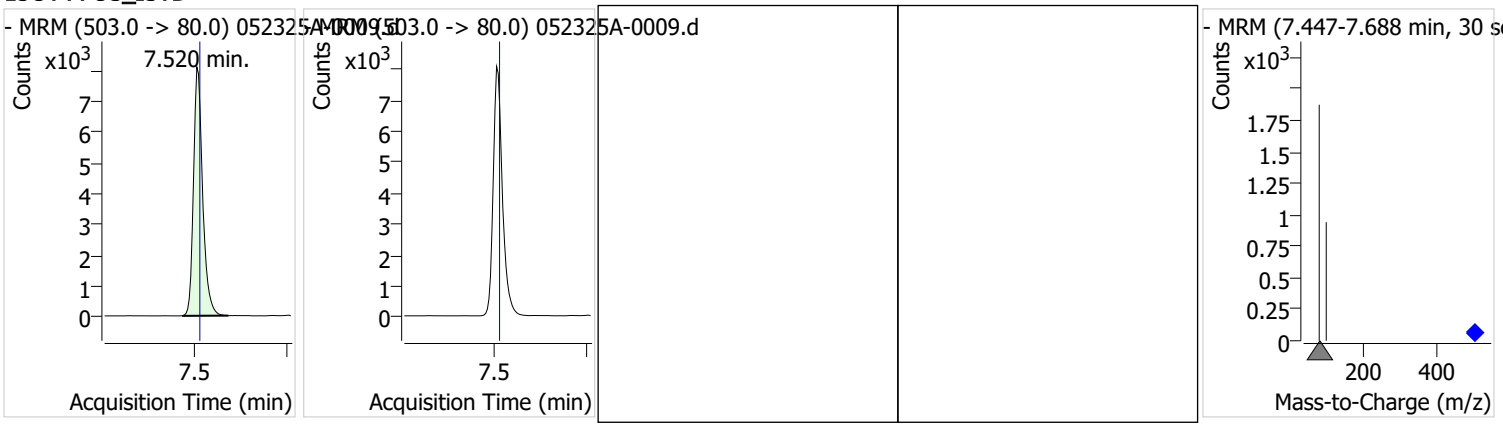
13C2-PFDA_ISTD



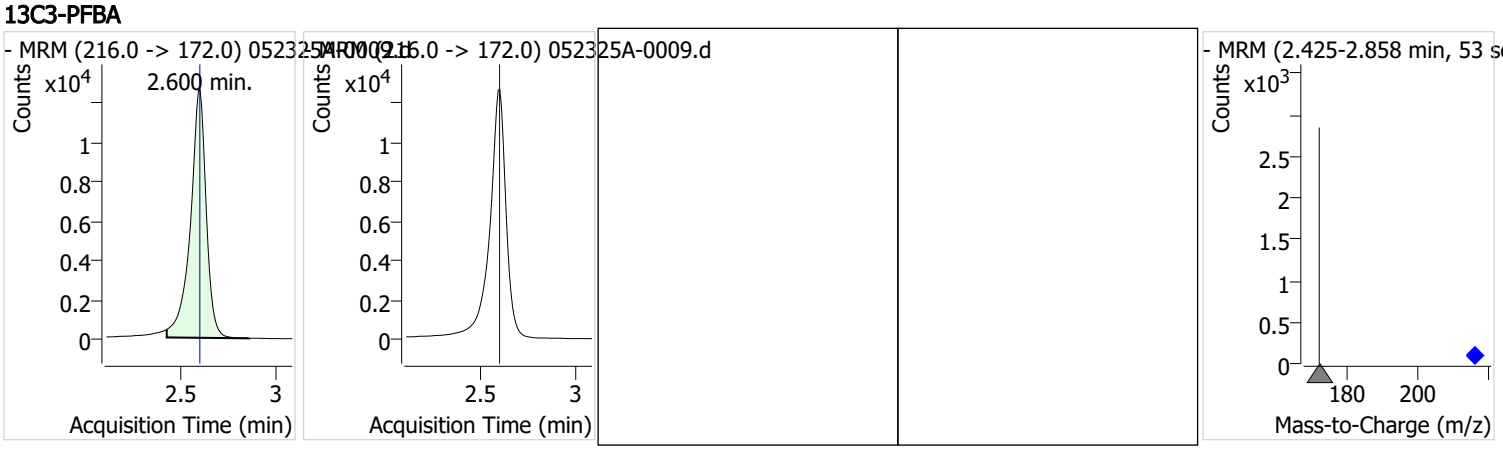
13C2-PFHxA_ISTD



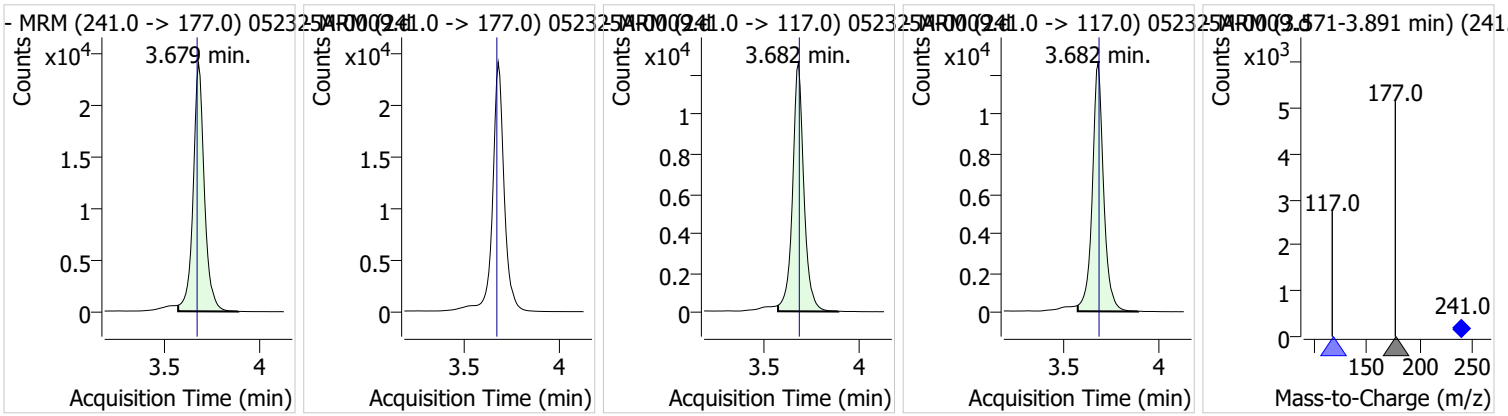
13C4-PFOS_ISTD



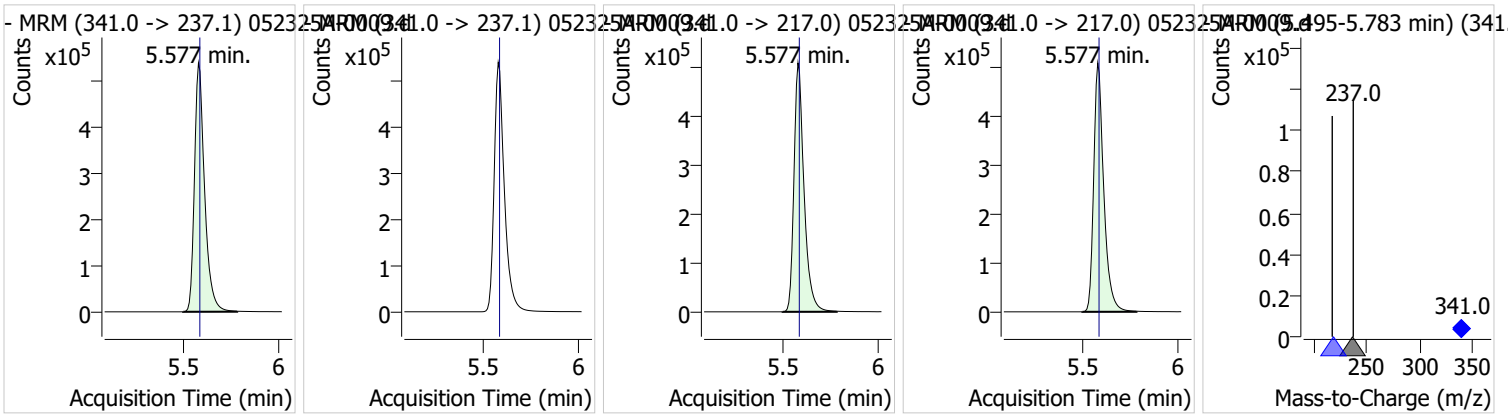
13C3-PFBA



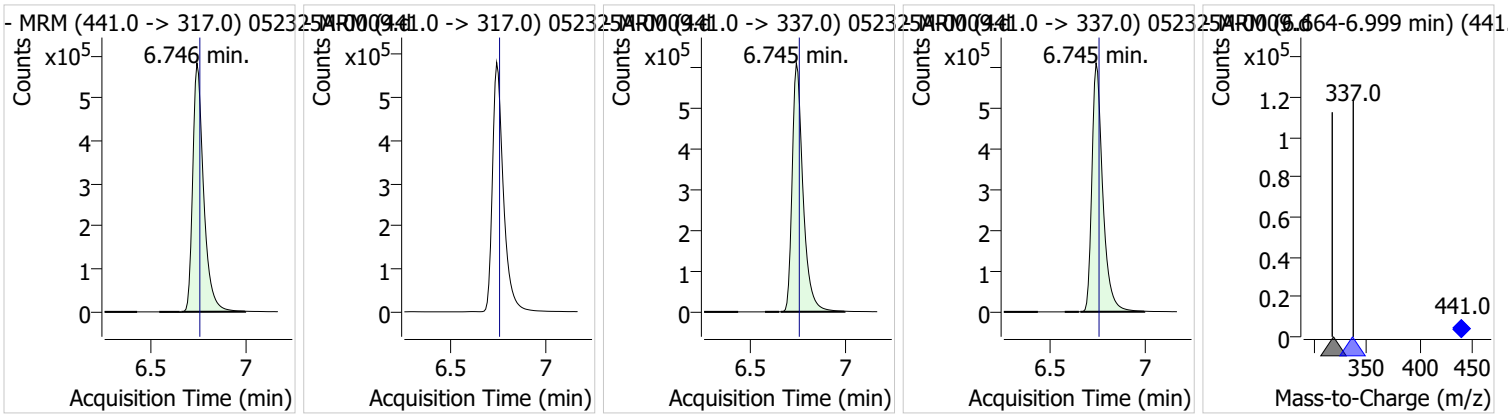
3:3FTCA



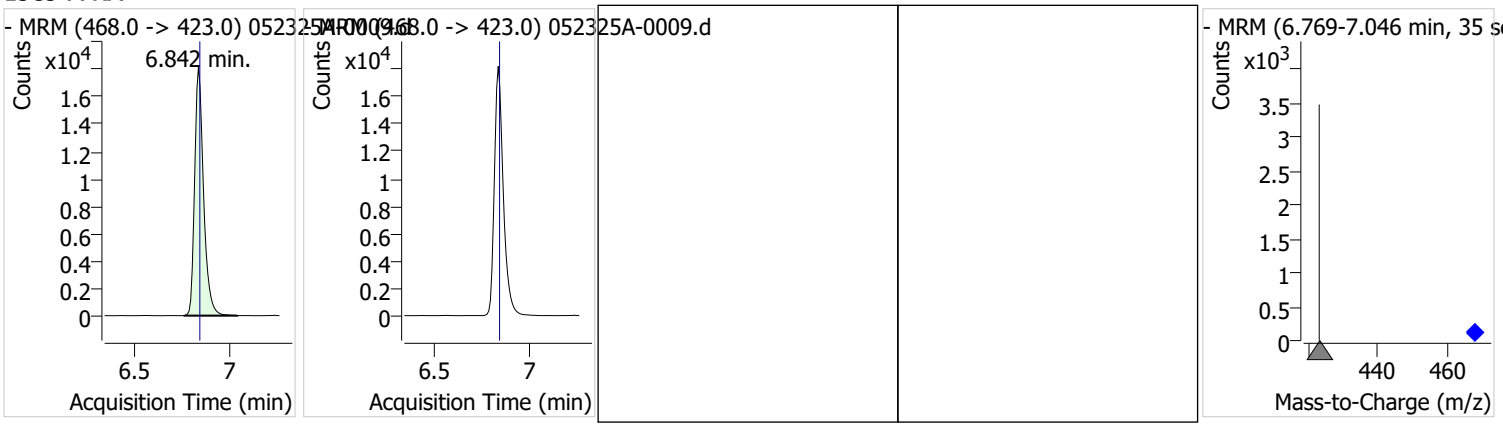
5:3FTCA



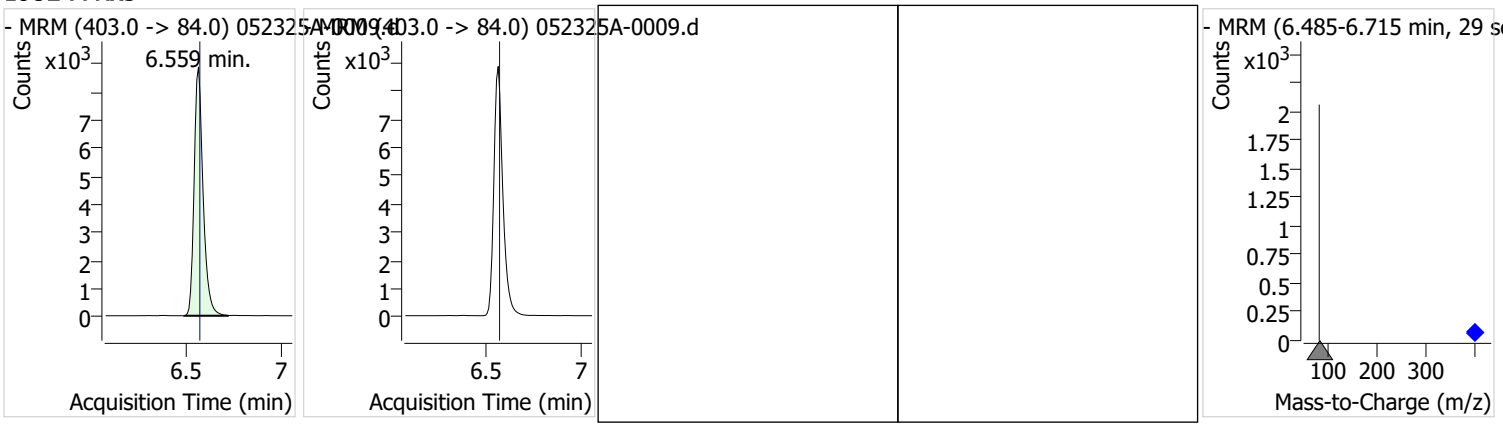
7:3FTCA



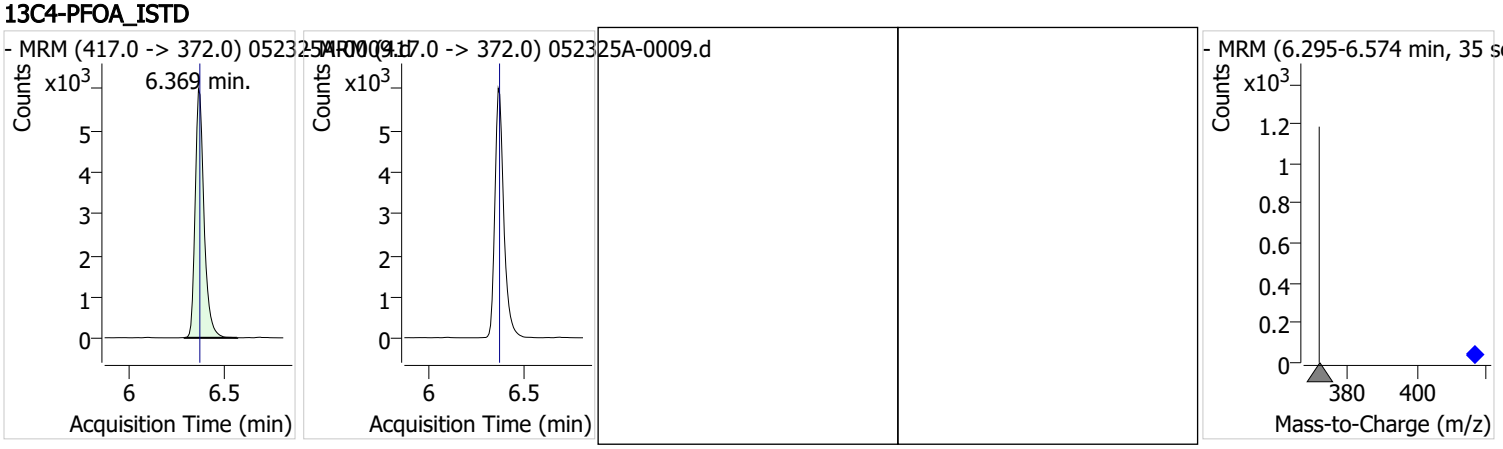
13C5-PFNA



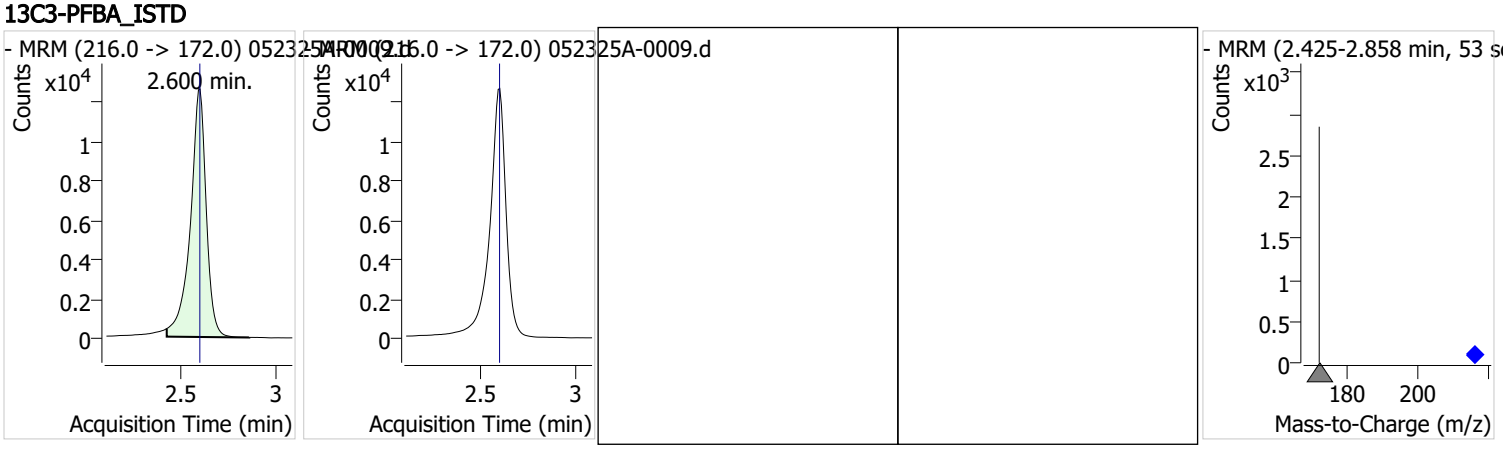
18O2-PFHxS



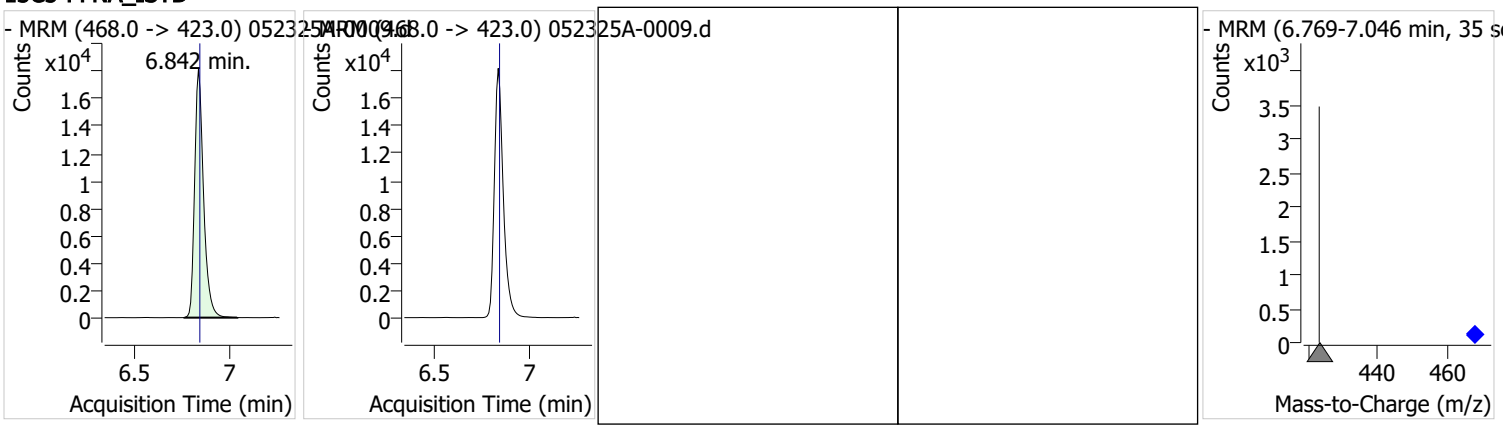
13C4-PFOA_ISTD



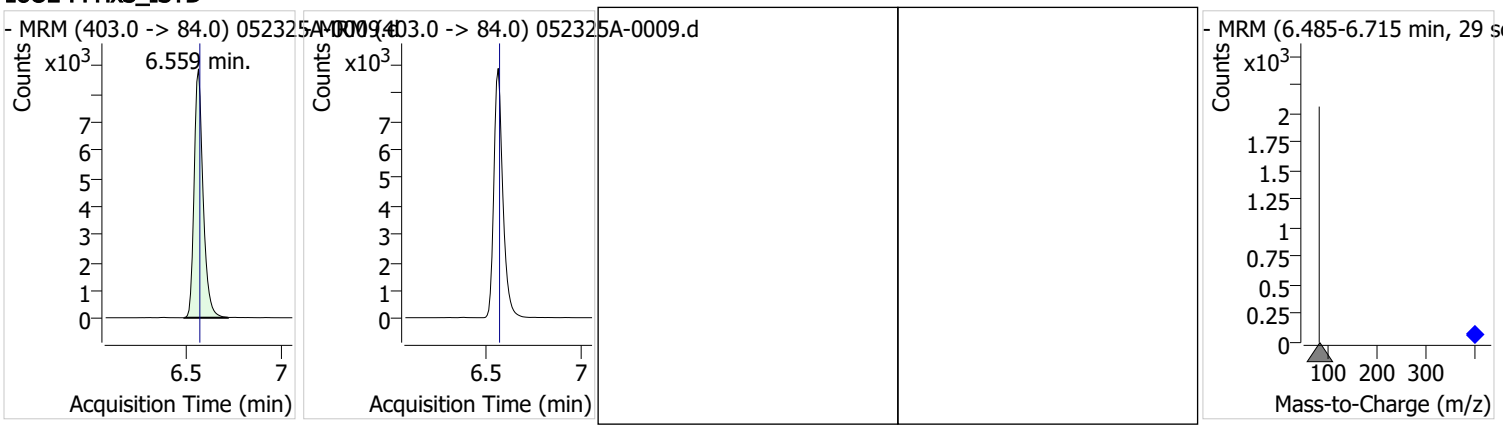
13C3-PFBA_ISTD



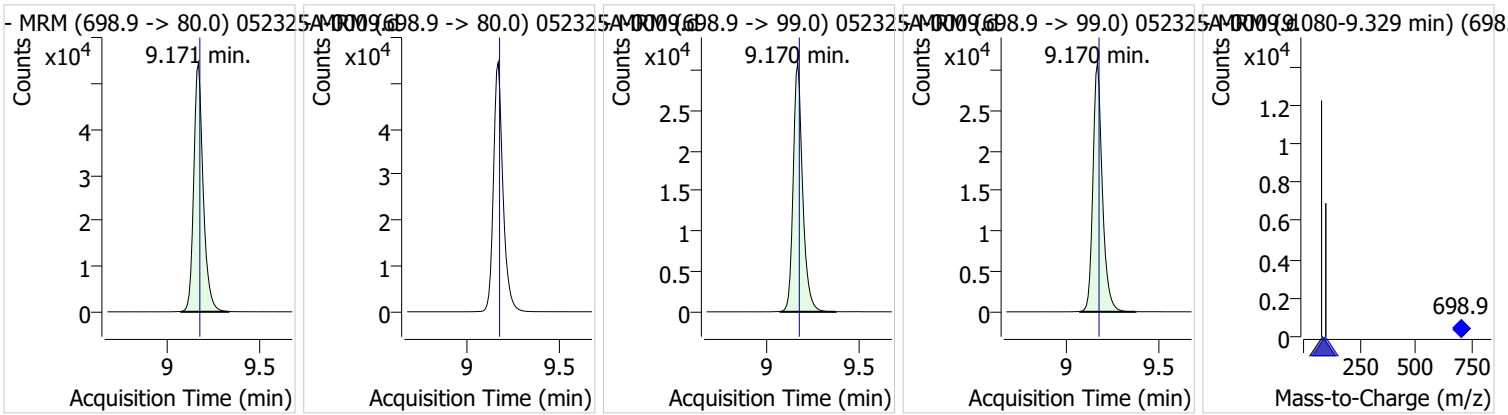
13C5-PFNA_ISTD



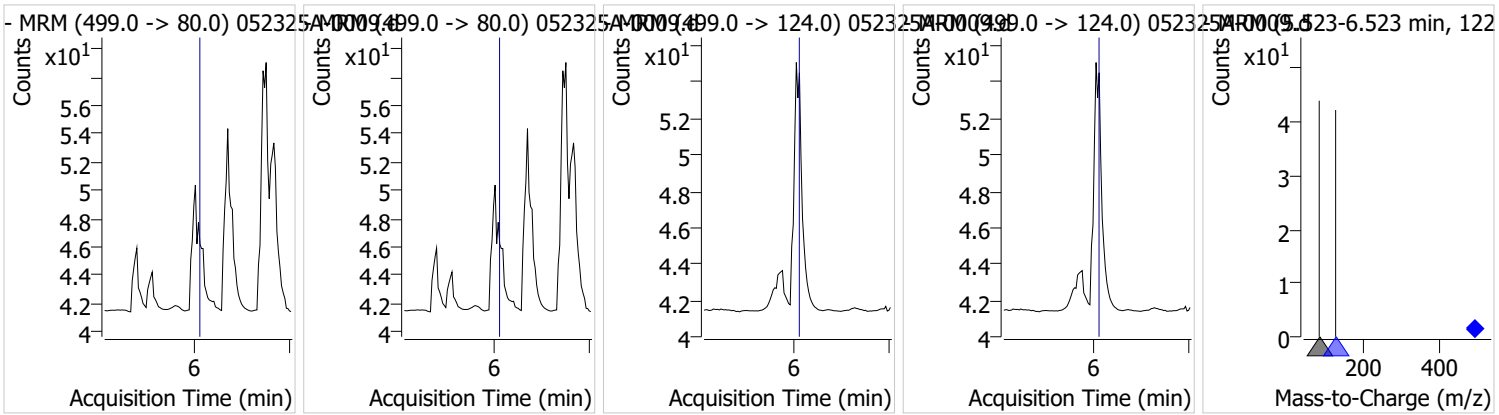
18O2-PFHxS_ISTD



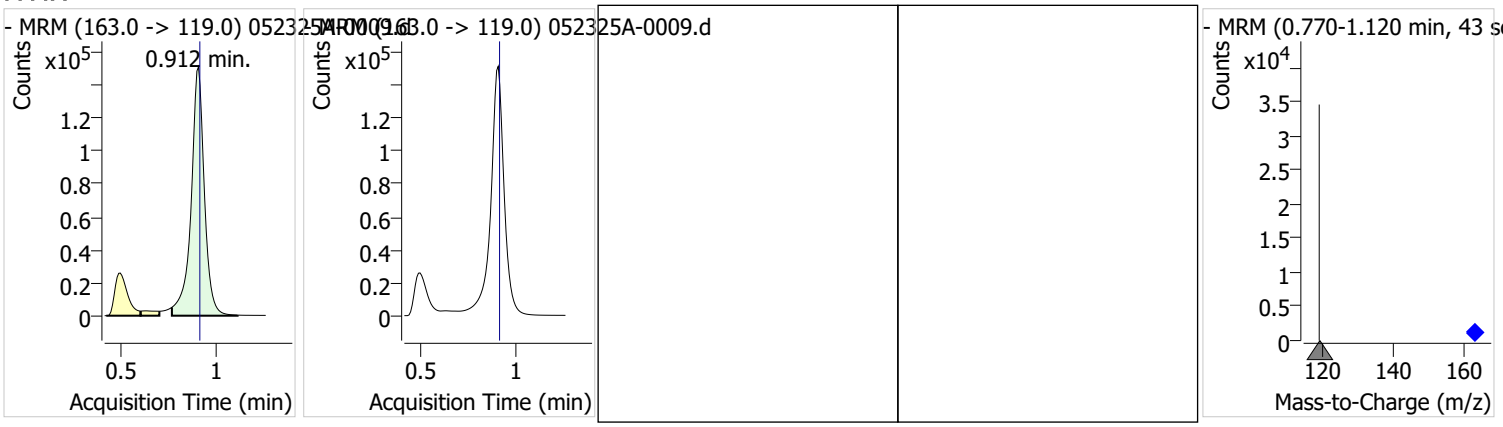
PFDoS



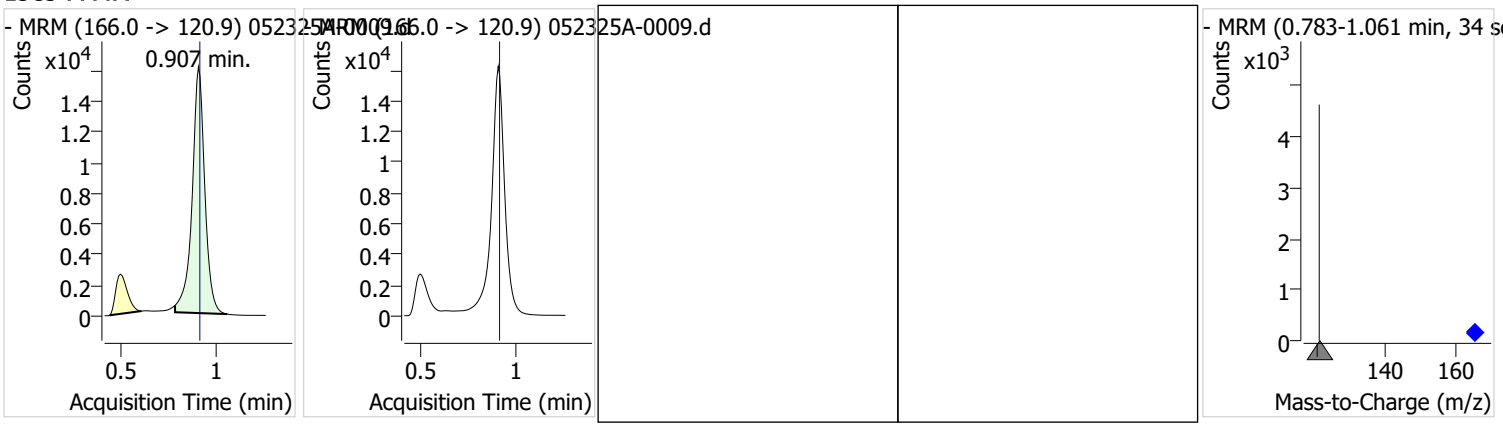
TDCA



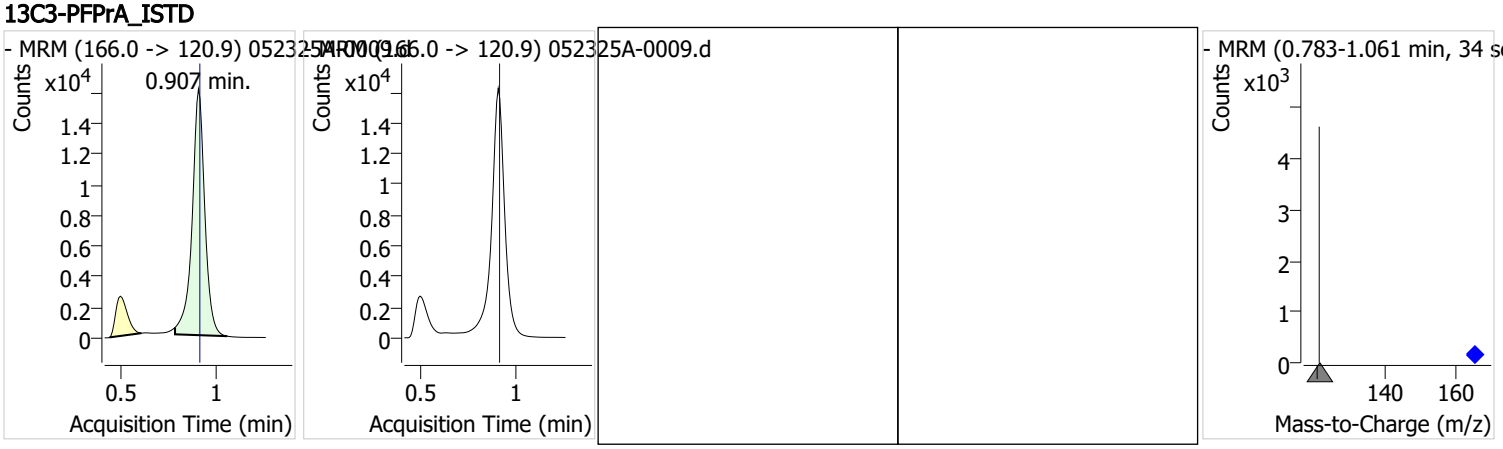
PFPrA



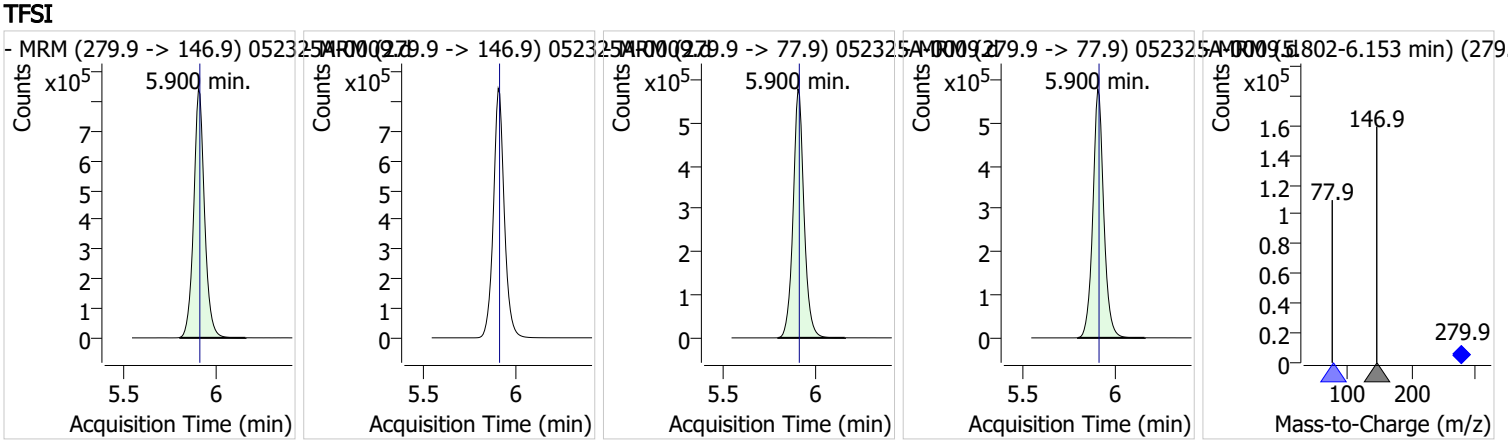
13C3-PFPrA



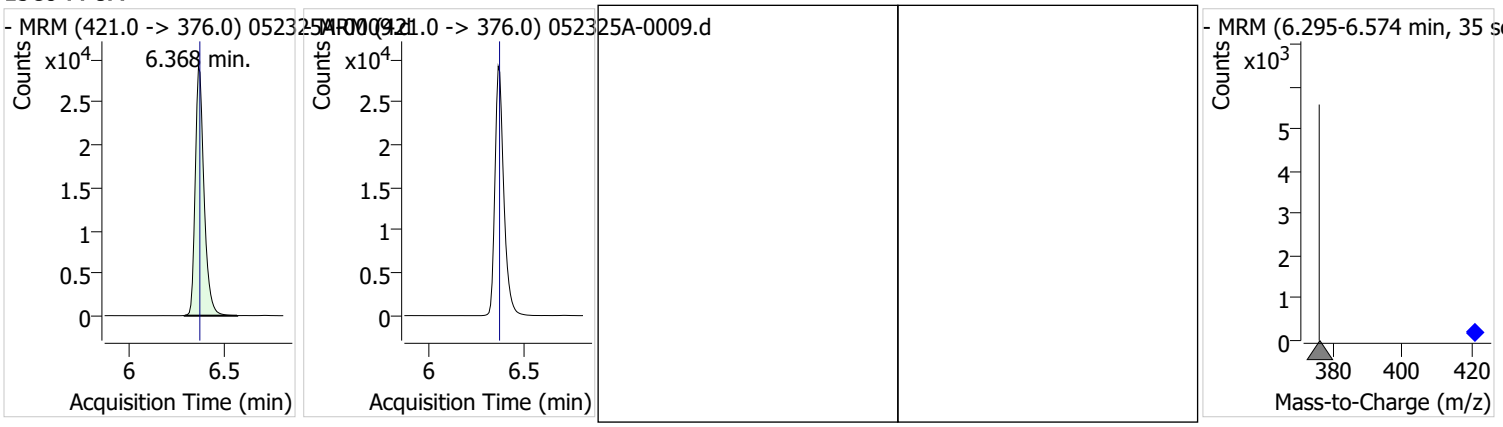
13C3-PFPrA_ISTD



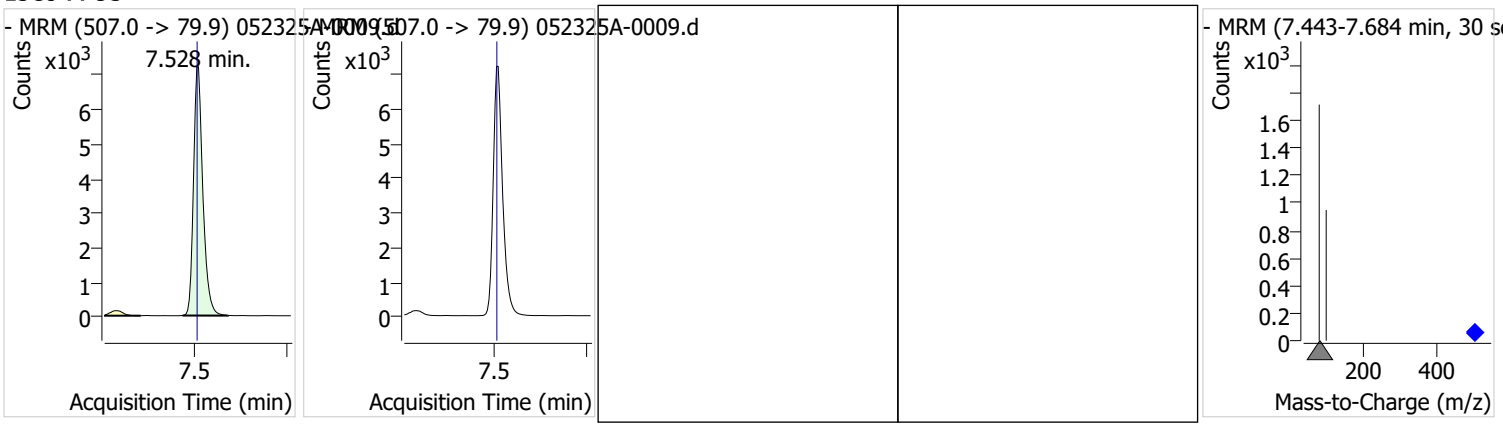
TFSI



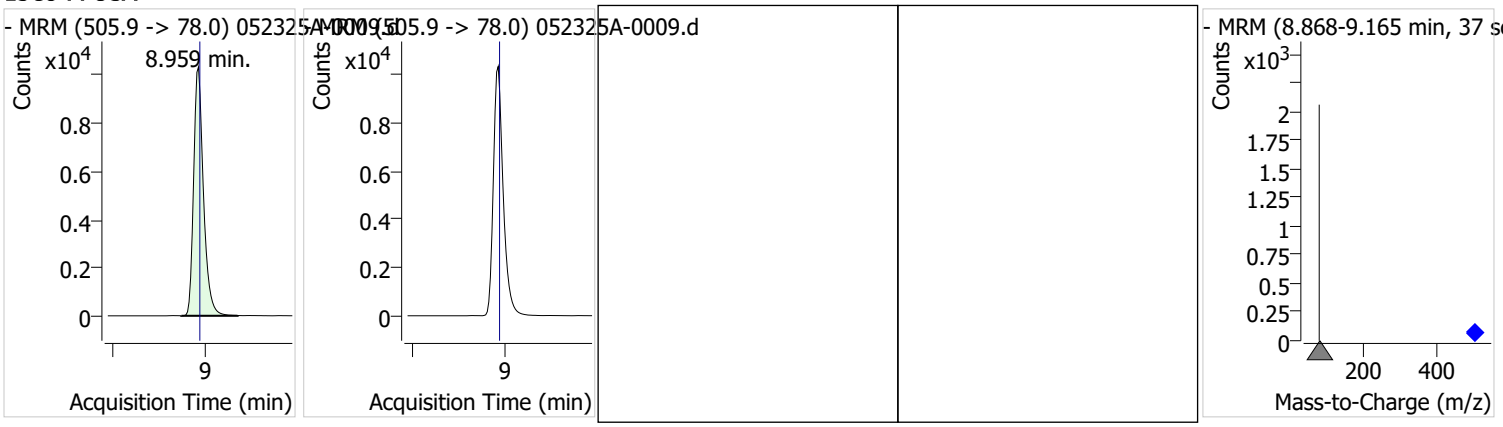
13C8-PFOA



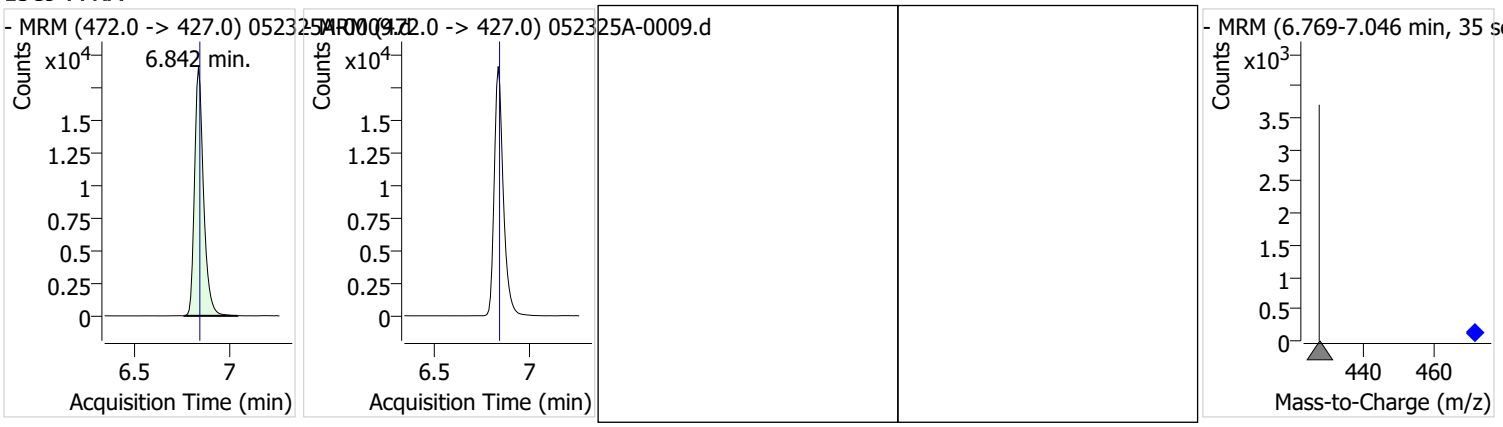
13C8-PFOS



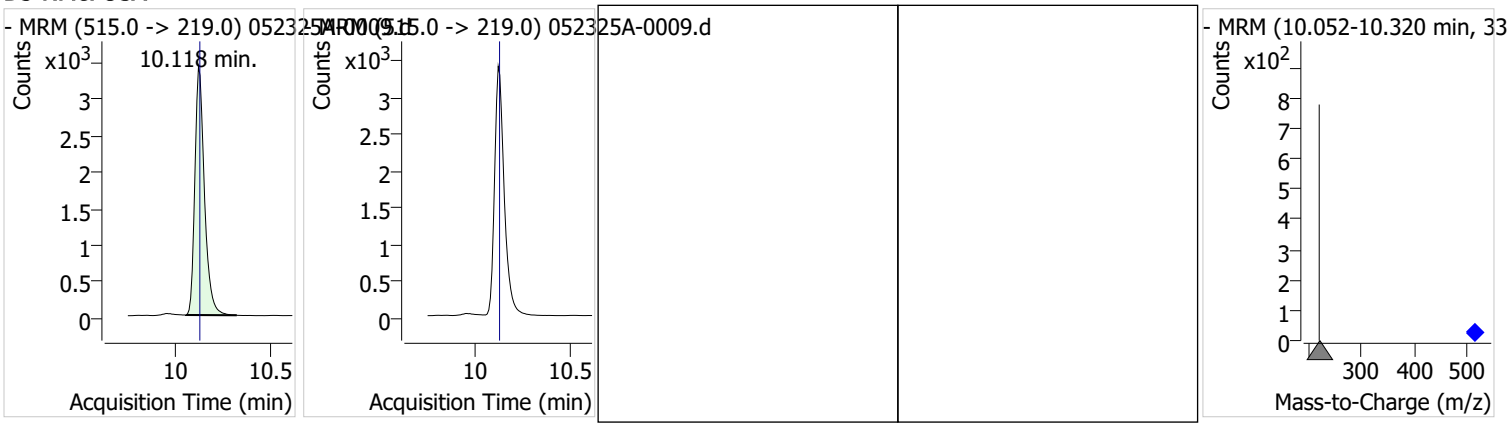
13C8-PFOSA



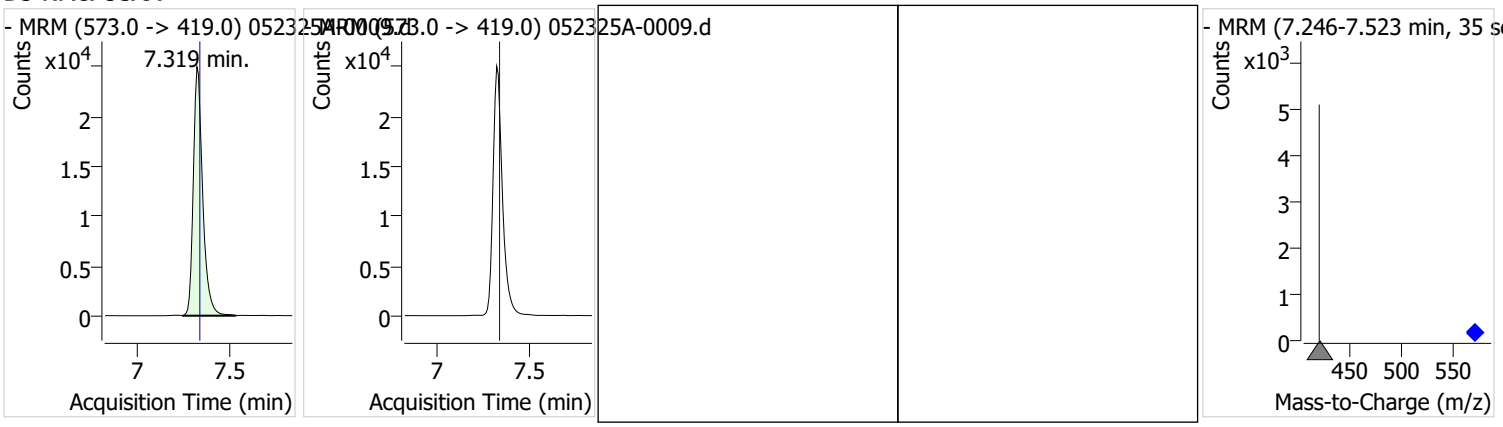
13C9-PFNA



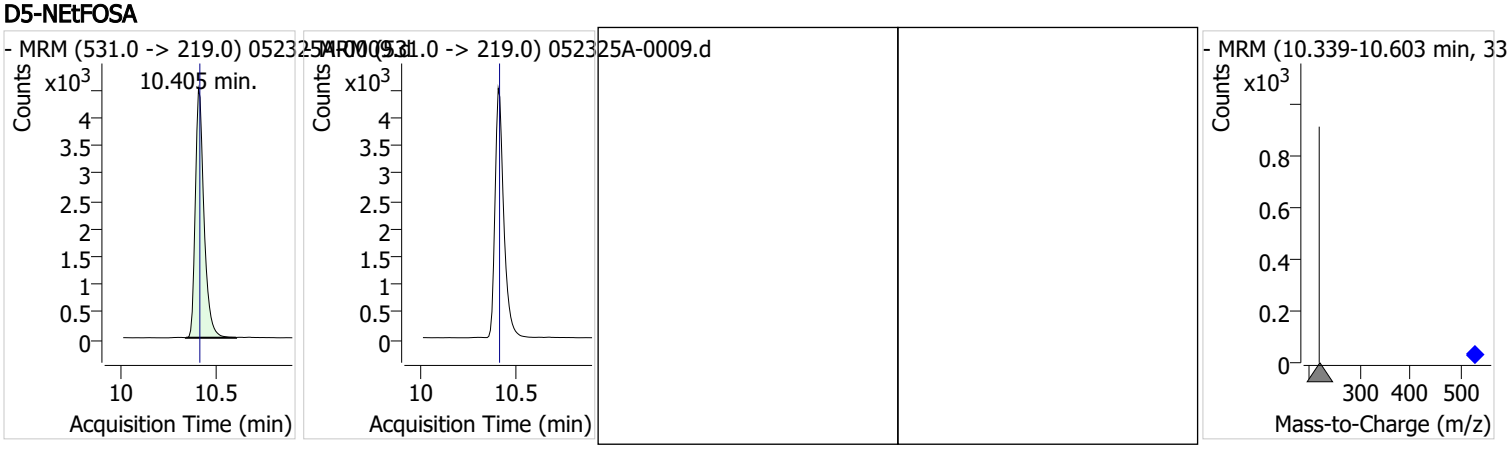
D3-NMeFOSA



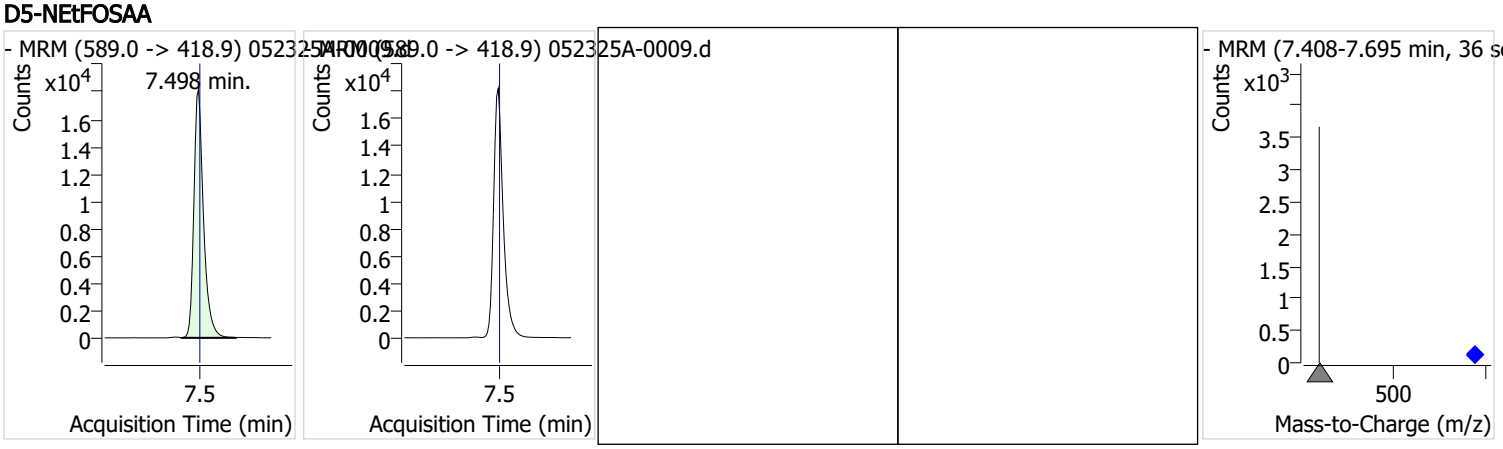
D3-NMeFOSAA



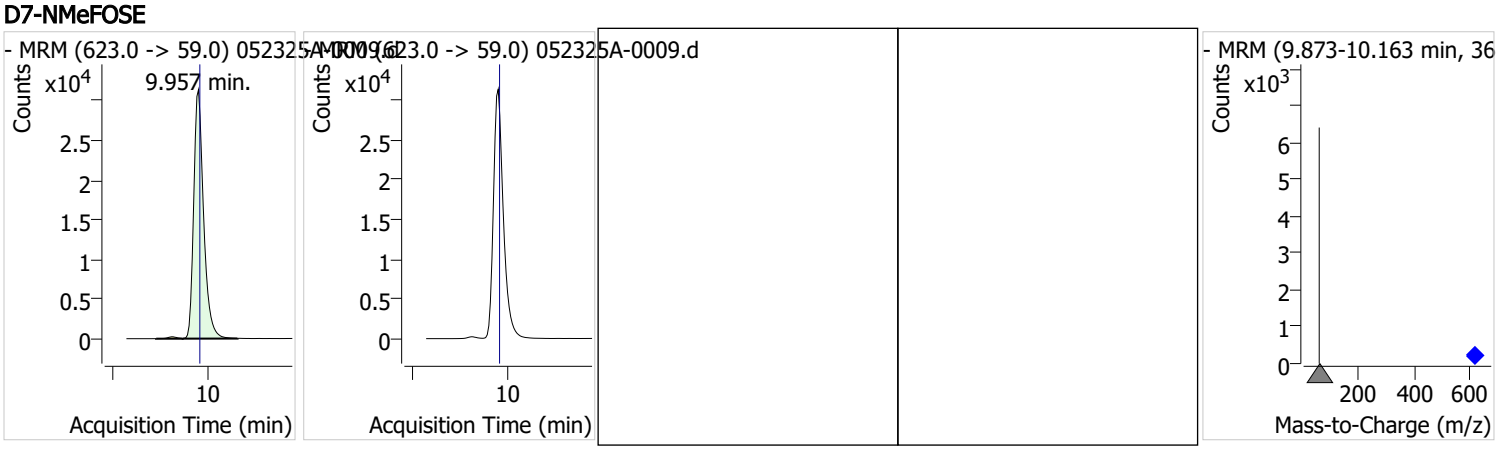
D5-NEtFOSA



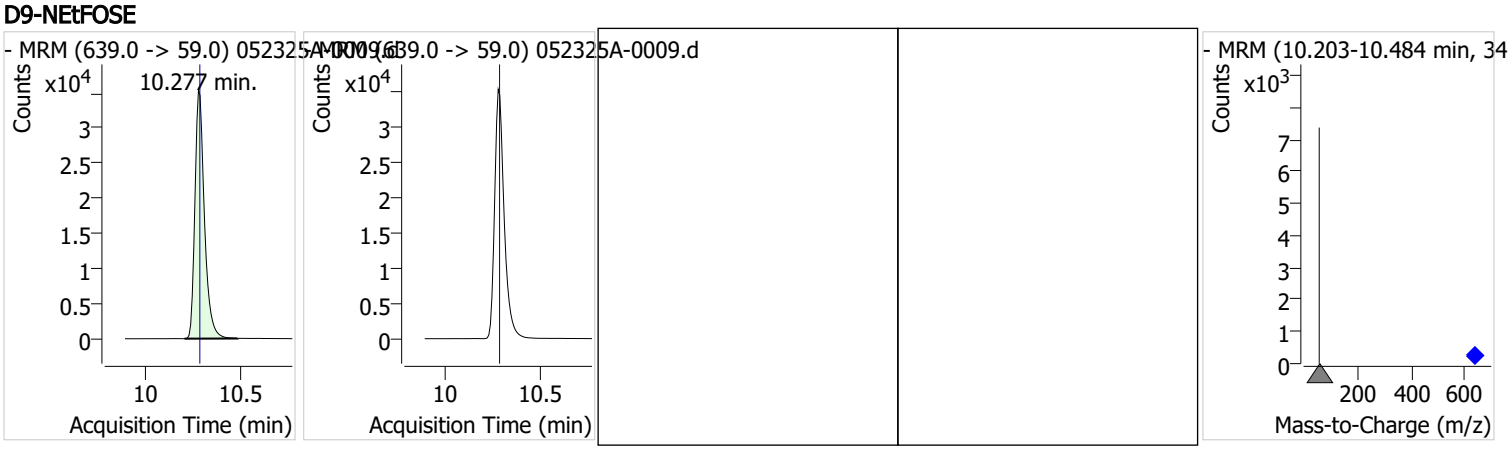
D5-NEtFOSAA



D7-NMeFOSE

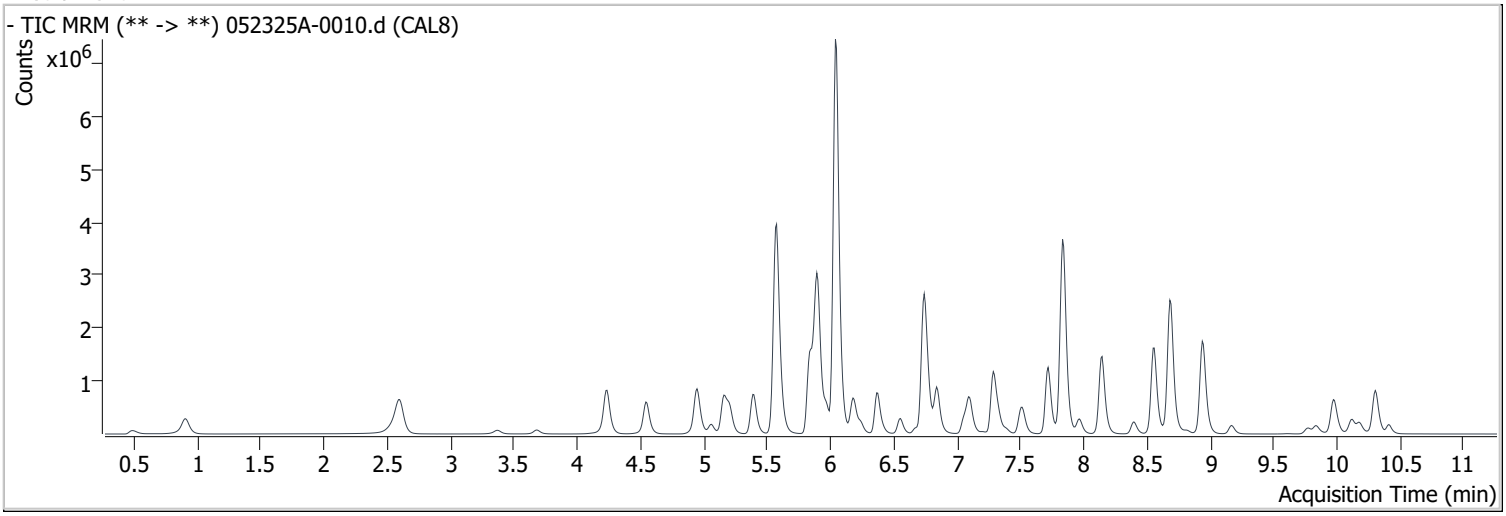


D9-NEtFOSE



Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 12:05 PM	**Data File**	052325A-0010.d
Sample Type	Cal	**Sample Name**	CAL8
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510292	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	1582645	5522013.69		13C3-HFPODA_ISTD	5.394	73061	220.6727	ng/ml			
285.0 -> 184.9	5.403	936607	12040.37	59.2								
4:2FTS	4.947	2315091	135443.99		13C2-4:2FTS_ISTD	4.946	17639	199.4036	ng/ml			
327.0 -> 80.9	4.947	836923	215602.66	36.2								
6:2FTS	6.180	1433354	12807202 7.19		13C2-6:2FTS_ISTD	6.180	13797	192.8794	ng/ml			
427.0 -> 80.9	6.181	597128	2124156.81	41.7								
ADONA	6.044	18285239	1294499.42		13C4-PFHpA_ISTD	5.839	131867	213.8556	ng/ml			
377.0 -> 85.1	6.044	6867760	5707467.61	37.6								
8:2FTS	7.100	1473380	4720889.34		13C2-8:2FTS_ISTD	7.100	15030	178.8371	ng/ml			
527.0 -> 81.0	7.101	611222	172248.90	41.5								
13C4-PFBA	2.597	163071	27409.82		13C3-PFBA_ISTD	2.600	66958	10.0064	ng/ml			
9Cl-PF3ONS	7.838	10319786	236040.82		13C8-PFOS_ISTD	7.528	23324	195.6738	ng/ml			
533.0 -> 353.0	7.838	2639605	58421.91	25.6								
11Cl-PF3OUdS	8.685	7318652	5678779.47		13C8-PFOS_ISTD	7.528	23324	198.2027	ng/ml			
633.0 -> 453.0	8.684	1734945	251931.66	23.7								
PFHpS	7.064	684687	8923.95		13C8-PFOS_ISTD	7.528	23324	52.8953	ng/ml			
449.0 -> 98.8	7.064	309467	27063.97	45.2								
13C2-4:2FTS	4.946	17639	3740.99		18O2-PFHxS_ISTD	6.559	26084	3.9274	ng/ml			
13C2-6:2FTS	6.180	13797	3873.19		18O2-PFHxS_ISTD	6.559	26084	4.0771	ng/ml			
13C2-8:2FTS	7.100	15030	52591.03		18O2-PFHxS_ISTD	6.559	26084	4.4249	ng/ml			
13C2-PFDoA	8.146	93550	24081.27		13C2-PFDA_ISTD	7.290	58143	1.2878	ng/ml			
13C2-PFDA	7.290	58143	142830.71					1.1959	ng/ml			
13C2-PFHxA	5.162	74672	21804.24					2.4226	ng/ml			
13C2-PFTeDA	8.936	105853	6556.34		13C2-PFDA_ISTD	7.290	58143	1.2968	ng/ml			
13C4-PFOS	7.529	24618	6639.07					2.2333	ng/ml			
13C3-HFPODA	5.394	73061	6070.06		13C2-PFHxA_ISTD	5.162	74672	9.1576	ng/ml			

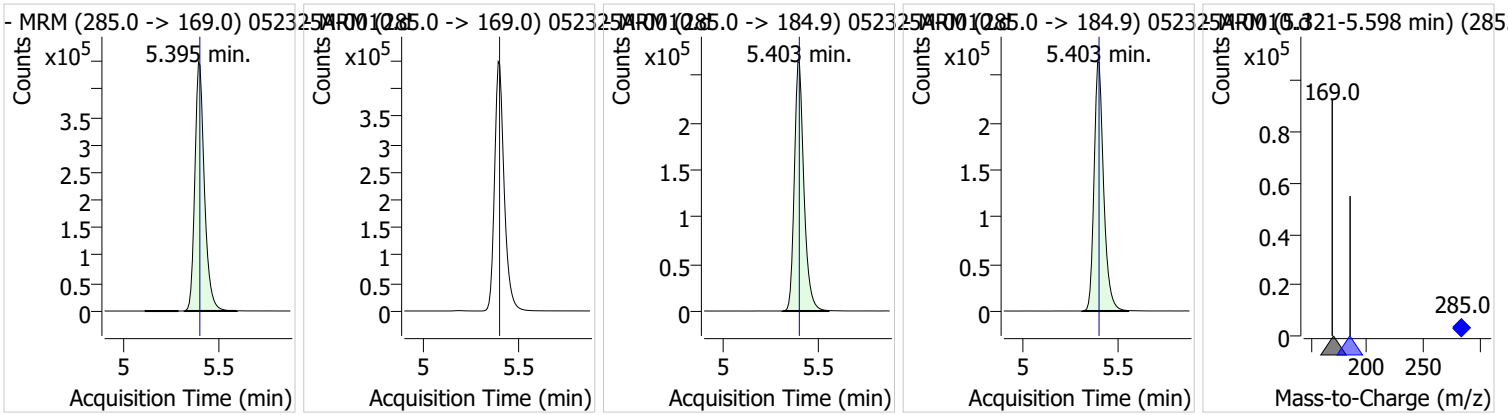
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C3-PFBS	5.205	43070	11669.81		18O2-PFHxS_ISTD	6.559	26084	2.4186	ng/ml			
13C3-PFHxS	6.560	29417	45510.58		18O2-PFHxS_ISTD	6.559	26084	2.4395	ng/ml			
NEtFOSAA	7.434	644016	3998.59		D5-NEtFOSAA_ISTD	7.498	59198	55.8812	ng/ml			
584.0 -> 526.0	7.433	577508	2562.37	89.7								
13C4-PFHpA	5.839	131867	20786.27		13C2-PFHxA_ISTD	5.162	74672	2.4868	ng/ml			
NMeFOSAA	7.247	335363	26825.31		D3-NMeFOSAA_ISTD	7.319	78753	57.2899	ng/ml			
570.0 -> 483.0	7.246	395630	4337.74	118.0								
PFBA	2.603	3719694	7734.34		13C4-PFBA_ISTD	2.597	163071	228.8983	ng/ml			
13C5-PFHxA	5.161	80590	12226.85		13C2-PFHxA_ISTD	5.162	74672	2.4312	ng/ml			
PFBS	5.205	1144018	59816.36		13C3-PFBS_ISTD	5.205	43070	50.3621	ng/ml			
298.9 -> 98.8	5.205	404958	15387.69	35.4								
NMeFOSA	10.073	313184	5516.55		D3-NMeFOSA_ISTD	10.118	11742	56.0342	ng/ml			
512.0 -> 169.0	10.074	437260	6919.08	139.6								
PFDA	7.290	3139418	27293.48		13C6-PFDA_ISTD	7.289	67089	57.1873	ng/ml			
513.0 -> 219.0	7.290	569054	1298896.51	18.1								
PFDoA	8.146	4513636	126353.46		13C2-PFDoA_ISTD	8.146	93550	53.5678	ng/ml			
613.0 -> 319.0	8.147	514386	145985.01	11.4								
NEtFOSA	10.377	385575	2926.28		D5-NEtFOSA_ISTD	10.405	13992	56.3305	ng/ml			
526.0 -> 169.0	10.377	527685	2429.86	136.9								
PFHpA	5.839	3249484	111697.94		13C4-PFHpA_ISTD	5.839	131867	54.9299	ng/ml			
362.9 -> 169.0	5.839	545562	162698.84	16.8								
PFHxA	5.163	2074914	43692.60		13C5-PFHxA_ISTD	5.161	80590	55.1871	ng/ml			
313.0 -> 118.9	5.163	66211	126032.71	3.2								
NMeFOSE	9.899	3045022	3896.50		D7-NMeFOSE_ISTD	9.957	112482	549.9420	ng/ml			
PFHxS	6.498	753639	13765.34		13C3-PFHxS_ISTD	6.560	29417	50.7062	ng/ml			
398.9 -> 99.0	6.498	339274	8343.56	45.0								
PFNA	6.789	2388048	10922.08		13C9-PFNA_ISTD	6.842	62970	54.1927	ng/ml			
463.0 -> 219.0	6.789	748067	5407.15	31.3								
NEtFOSE	10.249	3717002	2085.98		D9-NEtFOSE_ISTD	10.277	124810	549.6721	ng/ml			
PFOA	6.300	2405147	12223.74		13C8-PFOA_ISTD	6.377	89038	57.1855	ng/ml			
413.0 -> 169.0	6.300	701960	7344.56	29.2								
PFOS	7.399	695159	30949.14		13C8-PFOS_ISTD	7.528	23324	50.4152	ng/ml			
499.0 -> 99.0	7.402	334832	11537.89	48.2								
PFPeA	4.239	3162346	17307.44		13C5-PFPeA_ISTD	4.237	123885	113.3828	ng/ml			
PFMPA	3.377	327803	8664.69		13C4-PFBA_ISTD	2.597	163071	116.2060	ng/ml			
13C5-PFPeA	4.237	123885	8325.11		13C2-PFHxA_ISTD	5.162	74672	4.6845	ng/ml			
PFMBA	4.547	2312629	36431.77		13C5-PFPeA_ISTD	4.237	123885	112.3952	ng/ml			
PFTrDA	8.559	5292971	127863.11		13C2-PFDoA_ISTD	8.146	93550	53.7938	ng/ml			
663.0 -> 168.9	8.551	441473	25537.60	8.3								
PFEESA	5.570	6159526	1744906.01		13C5-PFHxA_ISTD	5.161	80590	95.6135	ng/ml			
315.0 -> 83.0	5.571	416858	49360.18	6.8								
13C6-PFDA	7.289	67089	2115.13		13C2-PFDA_ISTD	7.290	58143	1.2254	ng/ml			
NFDHA	5.066	458951	129110.99		13C5-PFHxA_ISTD	5.161	80590	105.2756	ng/ml			
295.0 -> 85.0	5.067	154203	38088.44	33.6								
PFOSA	8.899	884842	4463.03		13C8-PFOSA_ISTD	8.959	35011	57.4566	ng/ml			
497.9 -> 478.0	8.902	23914	2761.19	2.7								
13C7-PFUnA	7.721	74730	22193.30		13C2-PFDA_ISTD	7.290	58143	1.2222	ng/ml			
13C4-PFOA	6.377	18970	8489.43					2.2943	ng/ml			
PFDS	8.398	528297	589346.29		13C8-PFOS_ISTD	7.528	23324	53.8622	ng/ml			
599.0 -> 98.8	8.397	265665	112676.87	50.3								

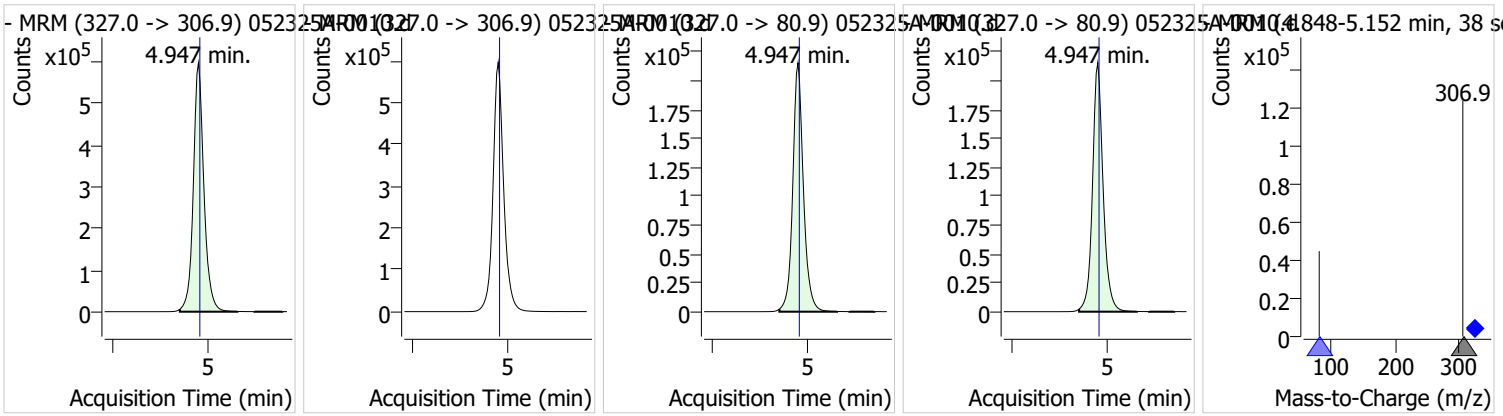
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFNS	7.969	632357	15587.99		13C8-PFOS_ISTD	7.528	23324	52.4437	ng/ml			
549.0 -> 98.8	7.968	294348	85417.24	46.5								
PFPeS	5.980	955182	8622.28		13C3-PFHxS_ISTD	6.560	29417	51.7737	ng/ml			
349.0 -> 98.9	5.971	427177	24792.42	44.7								
PFTeDA	8.937	5202403	184095.01		13C2-PFTeDA_ISTD	8.936	105853	53.2460	ng/ml			
713.0 -> 168.9	8.938	266831	75932.45	5.1								
PFUnA	7.722	3572202	292342.42		13C7-PFUnA_ISTD	7.721	74730	57.2399	ng/ml			
563.0 -> 269.1	7.722	594522	172923.49	16.6								
13C3-PFBA	2.600	66958	1659.12					4.4091	ng/ml			
3:3FTCA	3.679	207672	1726.90		13C5-PFPeA_ISTD	4.237	123885	296.0311	ng/ml			
241.0 -> 117.0	3.682	107725	4399.35	51.9								
5:3FTCA	5.577	4233371	284245.75		13C5-PFHxA_ISTD	5.161	80590	1407.4742	ng/ml			
341.0 -> 217.0	5.577	3827203	227039.38	90.4								
7:3FTCA	6.746	4872646	174421.73		13C9-PFNA_ISTD	6.842	62970	1446.4205	ng/ml			
441.0 -> 337.0	6.745	5092223	64875.04	104.5								
13C5-PFNA	6.842	56403	1928.48					1.1927	ng/ml			
18O2-PFHxS	6.559	26084	7650.96					2.2963	ng/ml			
PFDoS	9.171	355645	77486.53		13C8-PFOS_ISTD	7.528	23324	53.9382	ng/ml			
698.9 -> 99.0	9.170	204604	18371.21	57.5								
TDCA					13C8-PFOS_ISTD	7.528	23324	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	1403984	274320.02		13C3-PFPrA_ISTD	0.907	67557	236.5132	ng/ml			
13C3-PFPrA	0.907	67557	16155.93		13C3-PFBA_ISTD	2.600	66958	9.3265	ng/ml			
TFSI	5.900	7173674	119519.70		13C3-HFPODA_ISTD	5.394	73061	99.6701	ng/ml			
279.9 -> 77.9	5.900	4789203	6332482.34	66.8								
13C8-PFOA	6.377	89038	574580.51		13C4-PFOA_ISTD	6.377	18970	2.5051	ng/ml			
13C8-PFOS	7.528	23324	53915.11		13C4-PFOS_ISTD	7.529	24618	2.4226	ng/ml			
13C8-PFOSA	8.959	35011	9742.65		13C4-PFOS_ISTD	7.529	24618	2.5290	ng/ml			
13C9-PFNA	6.842	62970	42433.17		13C5-PFNA_ISTD	6.842	56403	1.2636	ng/ml			
D3-NMeFOSA	10.118	11742	1775.17		13C4-PFOS_ISTD	7.529	24618	2.6621	ng/ml			
D3-NMeFOSAA	7.319	78753	2703.94		13C4-PFOS_ISTD	7.529	24618	5.1433	ng/ml			
D5-NEtFOSA	10.405	13992	3072.18		13C4-PFOS_ISTD	7.529	24618	2.6388	ng/ml			
D5-NEtFOSAA	7.498	59198	16314.33		13C4-PFOS_ISTD	7.529	24618	5.0907	ng/ml			
D7-NMeFOSE	9.957	112482	16115.77		13C4-PFOS_ISTD	7.529	24618	26.5635	ng/ml			
D9-NEtFOSE	10.277	124810	36671.32		13C4-PFOS_ISTD	7.529	24618	26.5437	ng/ml			

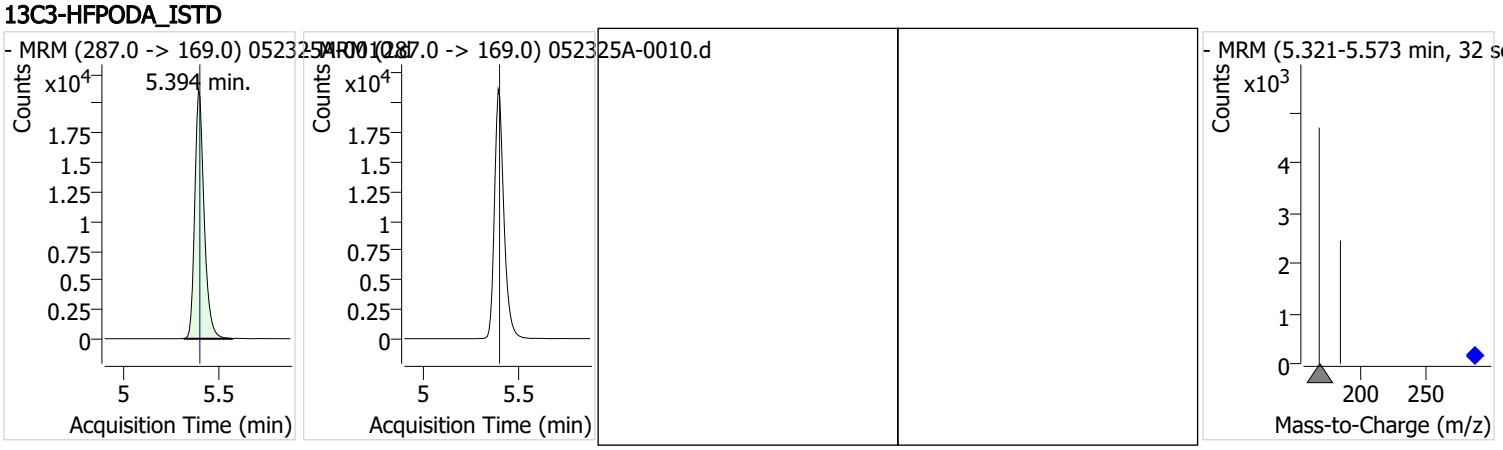
HFPO-DA



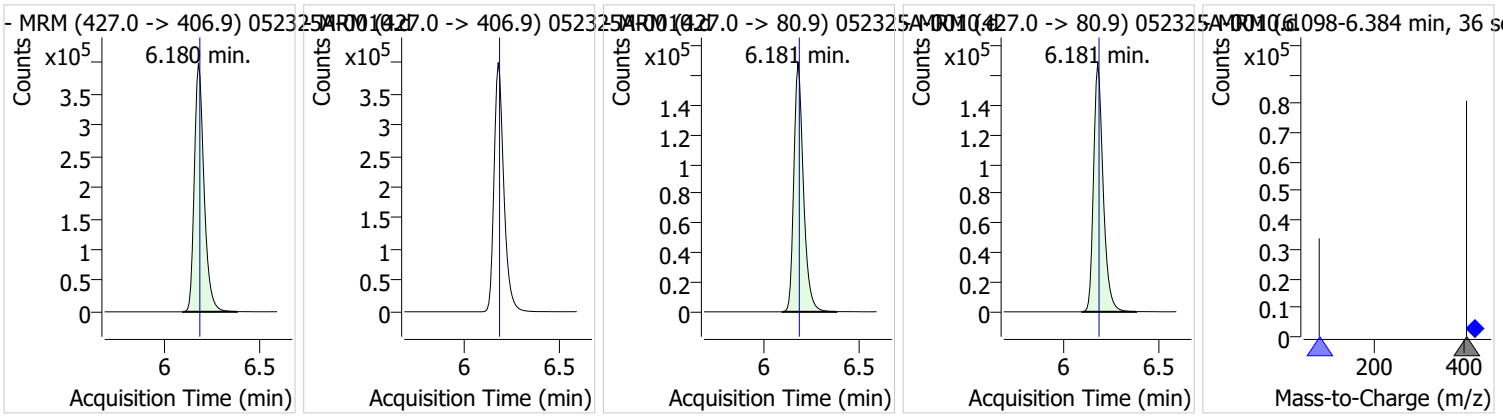
4:2FTS



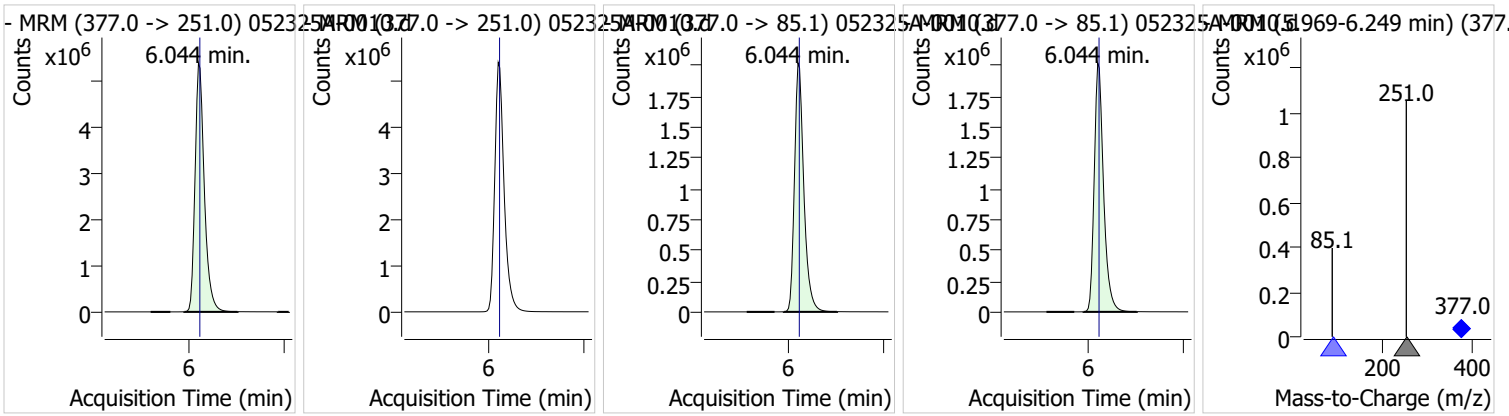
13C3-HFPODA_ISTD



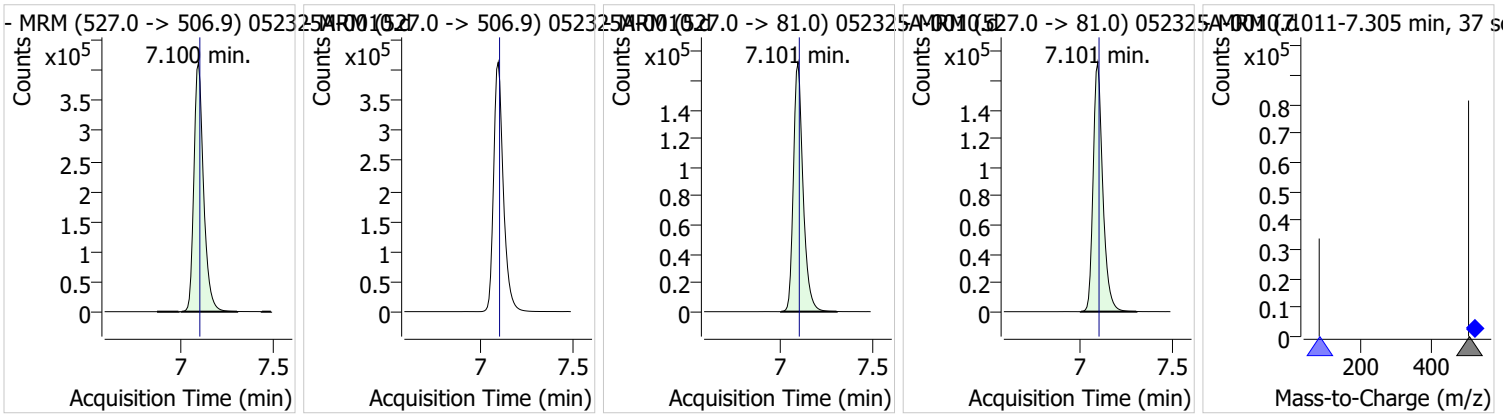
6:2FTS



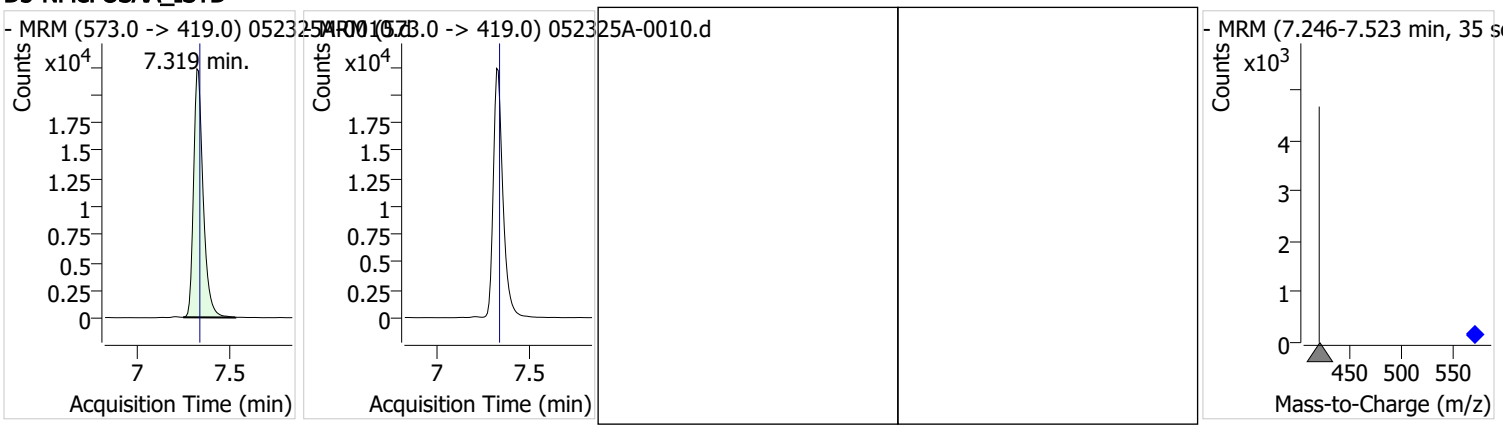
ADONA



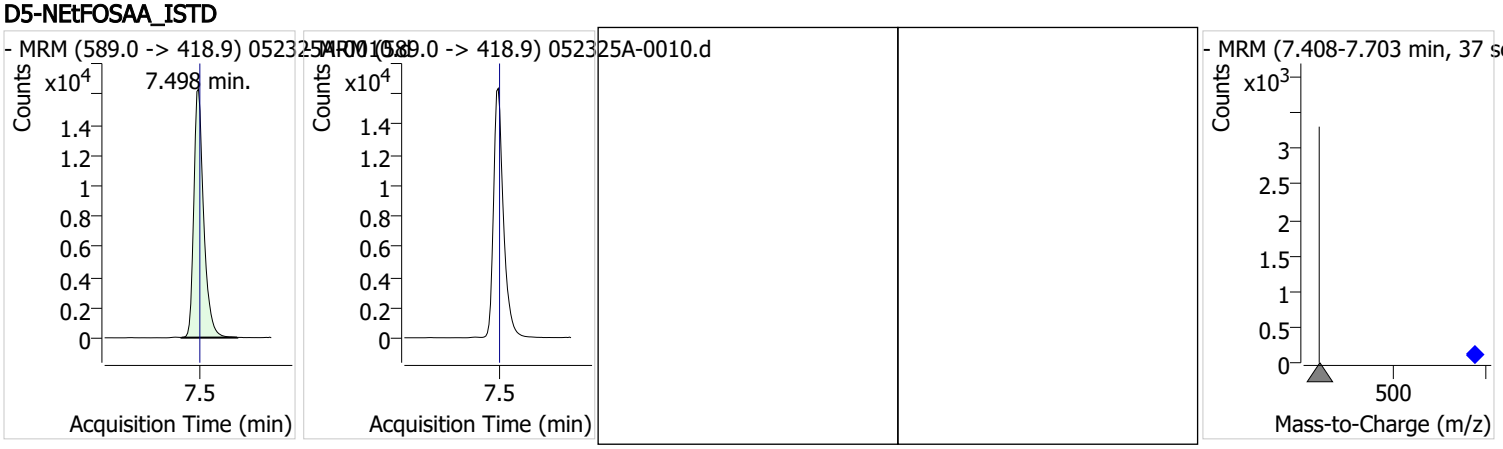
8:2FTS



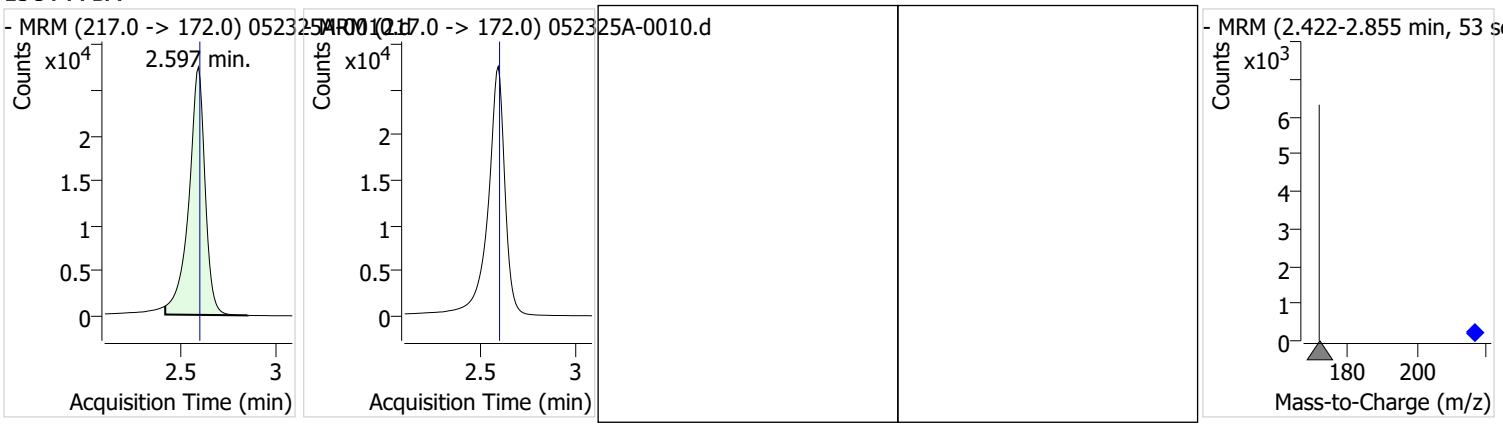
D3-NMeFOSAA_ISTD



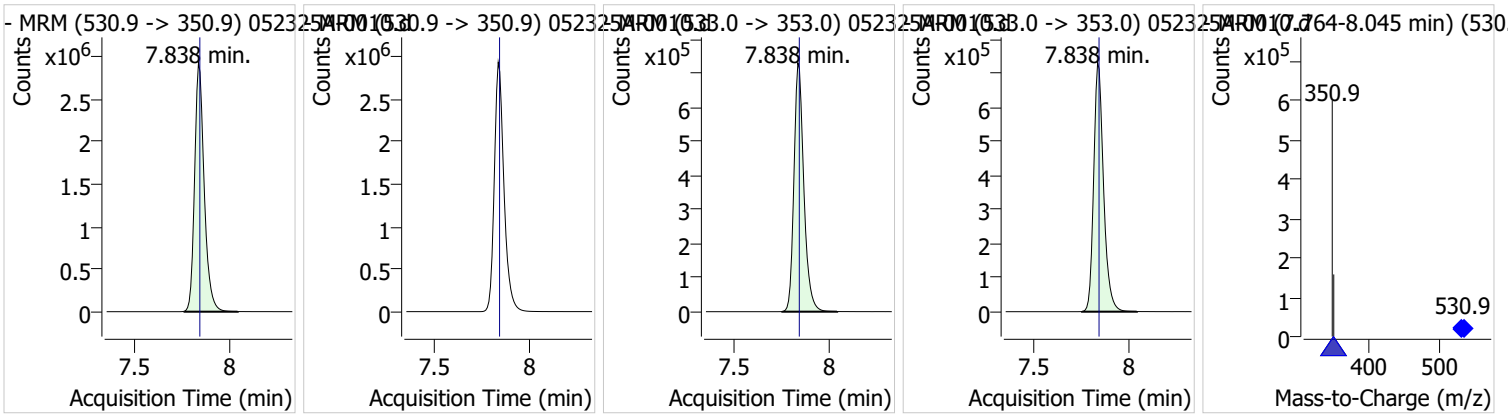
D5-NEtFOSAA_ISTD



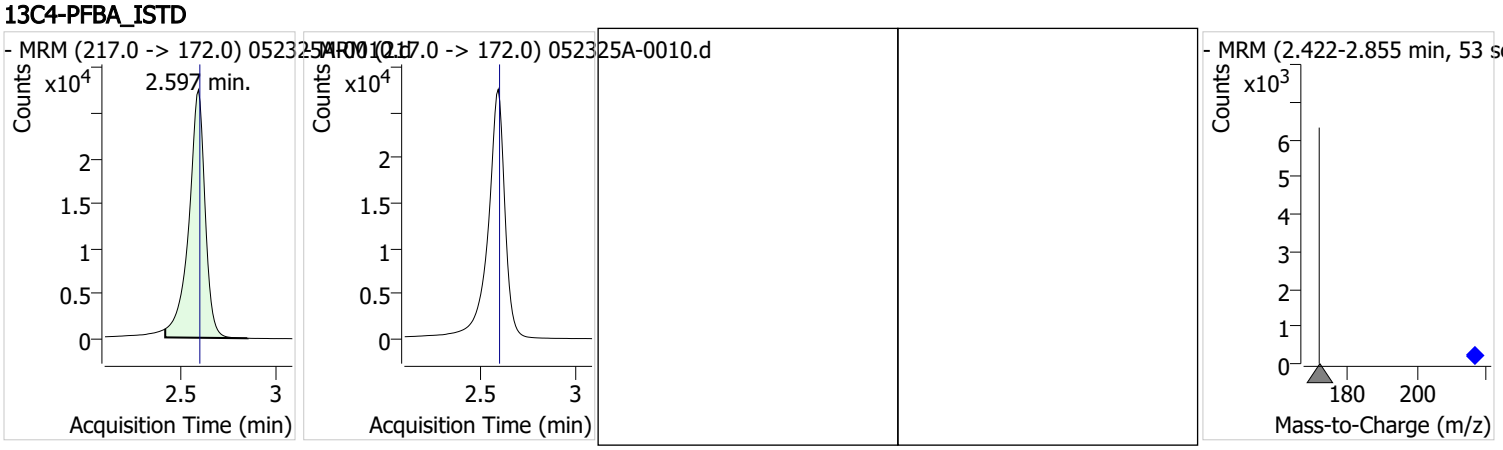
13C4-PFBA



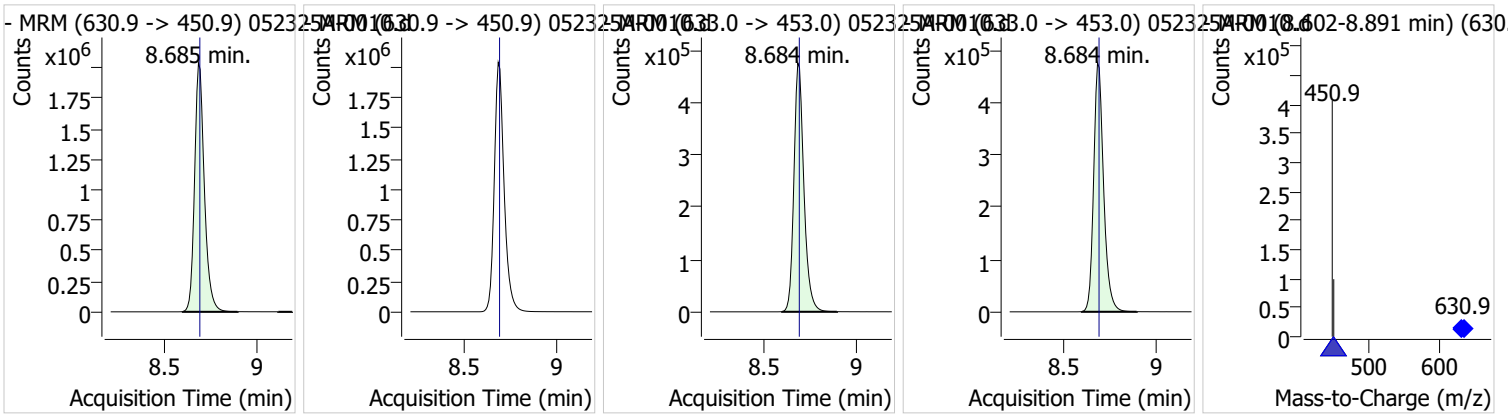
9Cl-PF3ONS



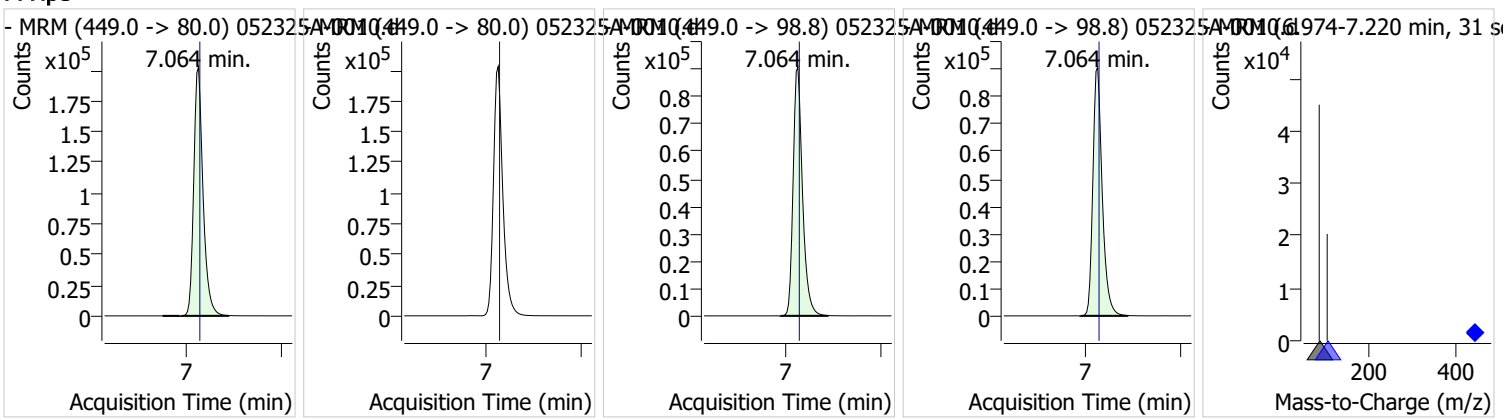
13C4-PFBA_ISTD



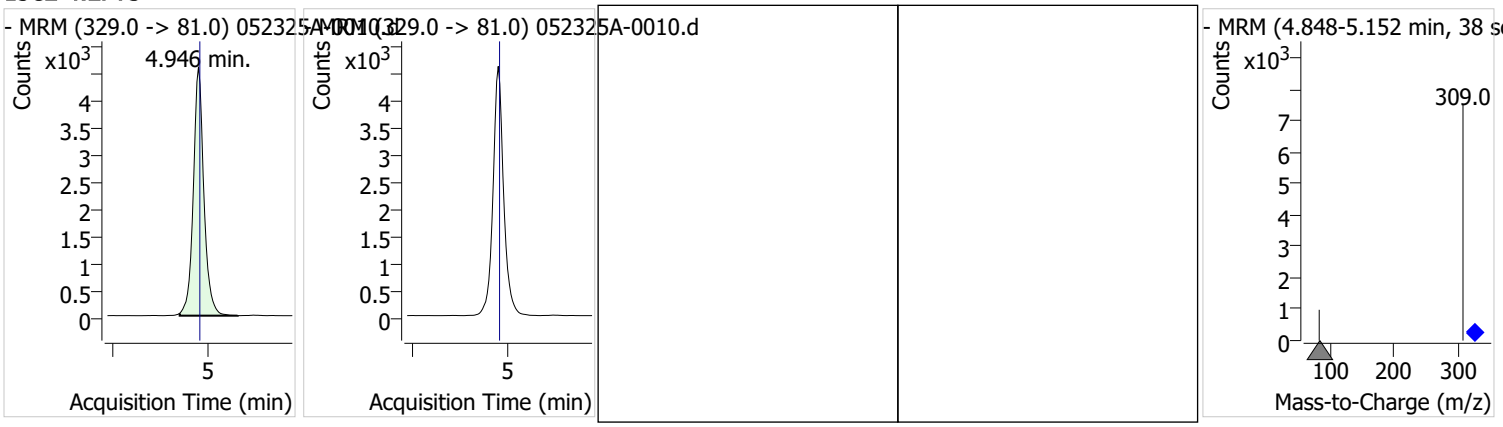
11Cl-PF3OUdS



PFHpS



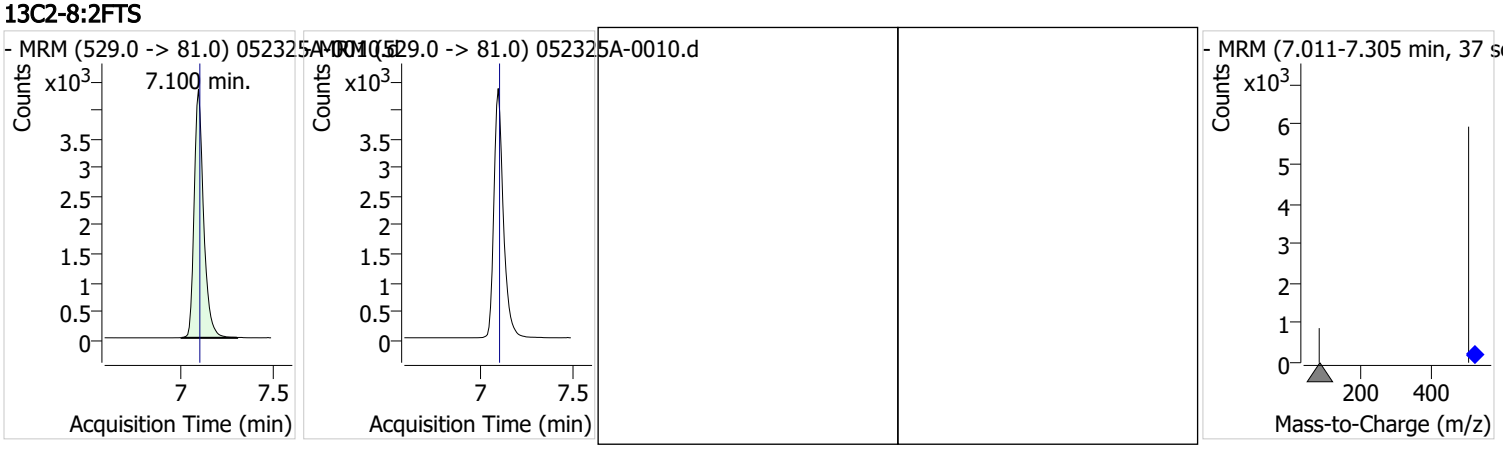
13C2-4:2FTS



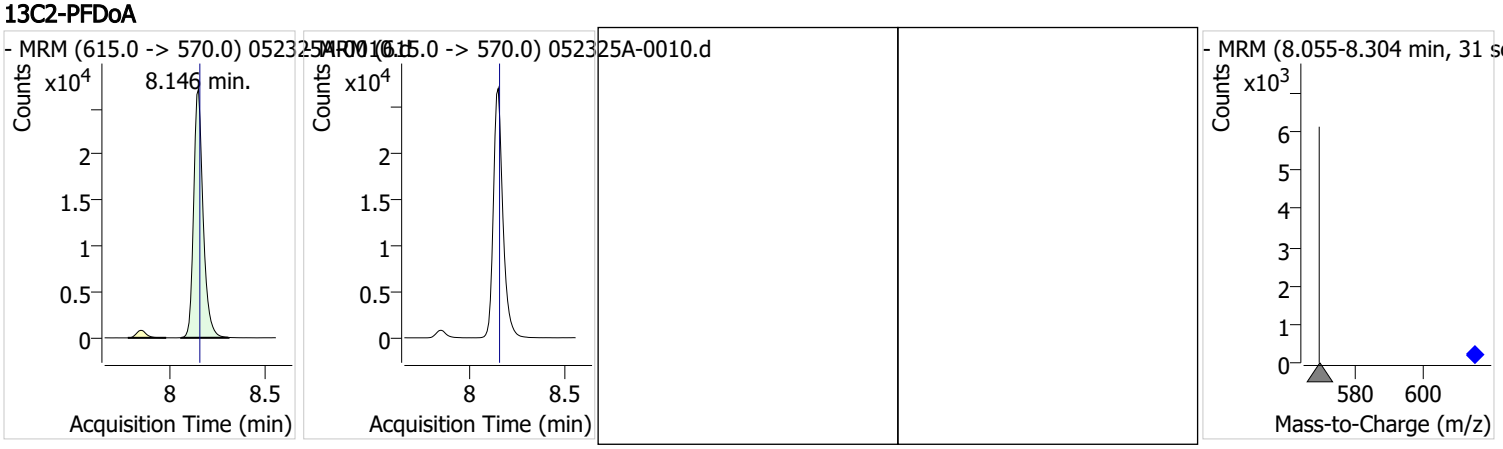
13C2-6:2FTS



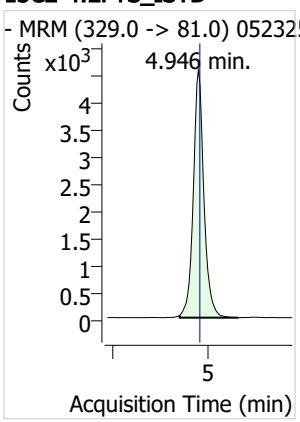
13C2-8:2FTS

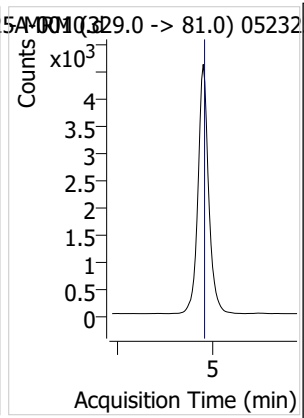


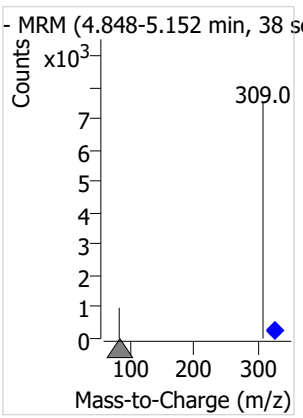
13C2-PFDoA



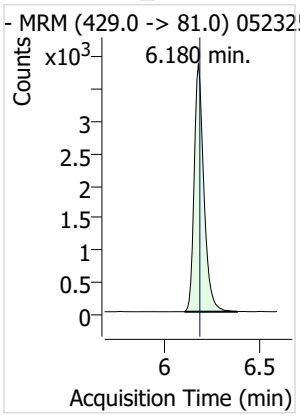
13C2-4:2FTS_ISTD

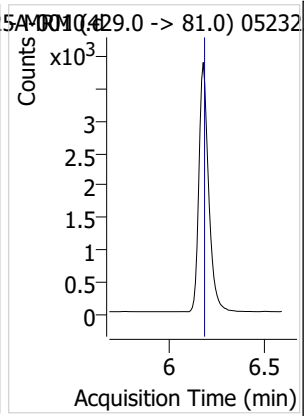


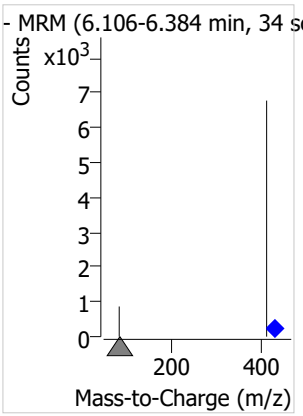




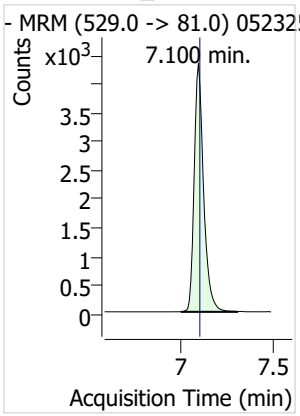
13C2-6:2FTS_ISTD

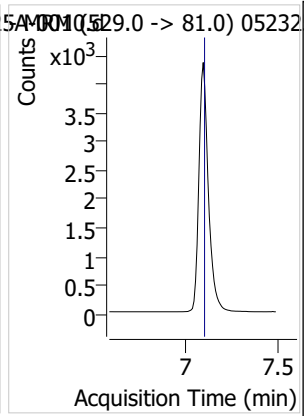


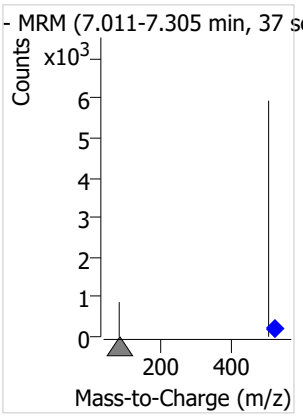




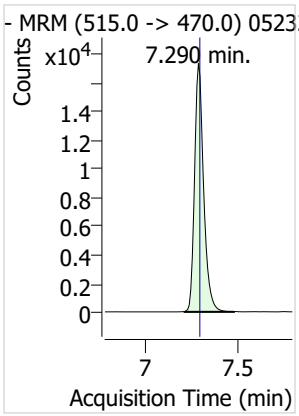
13C2-8:2FTS_ISTD

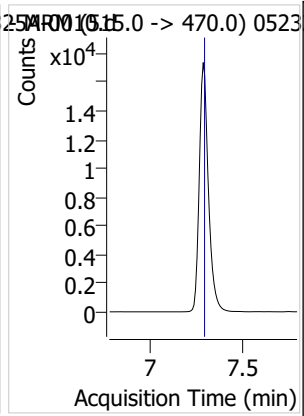


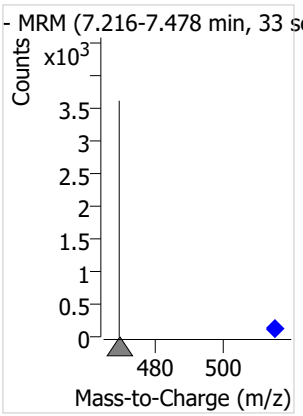




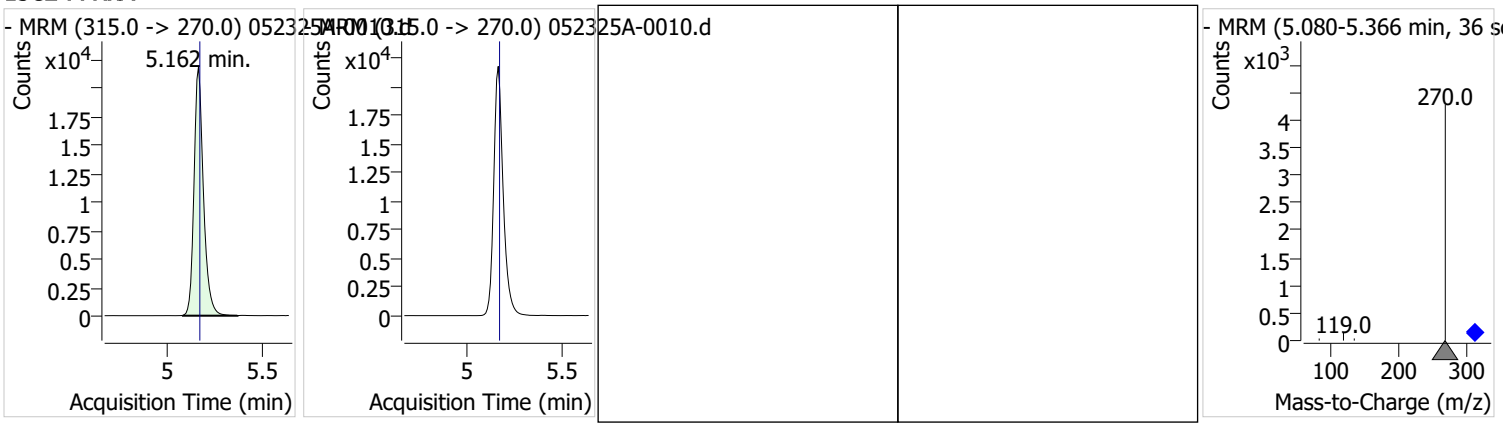
13C2-PFDA



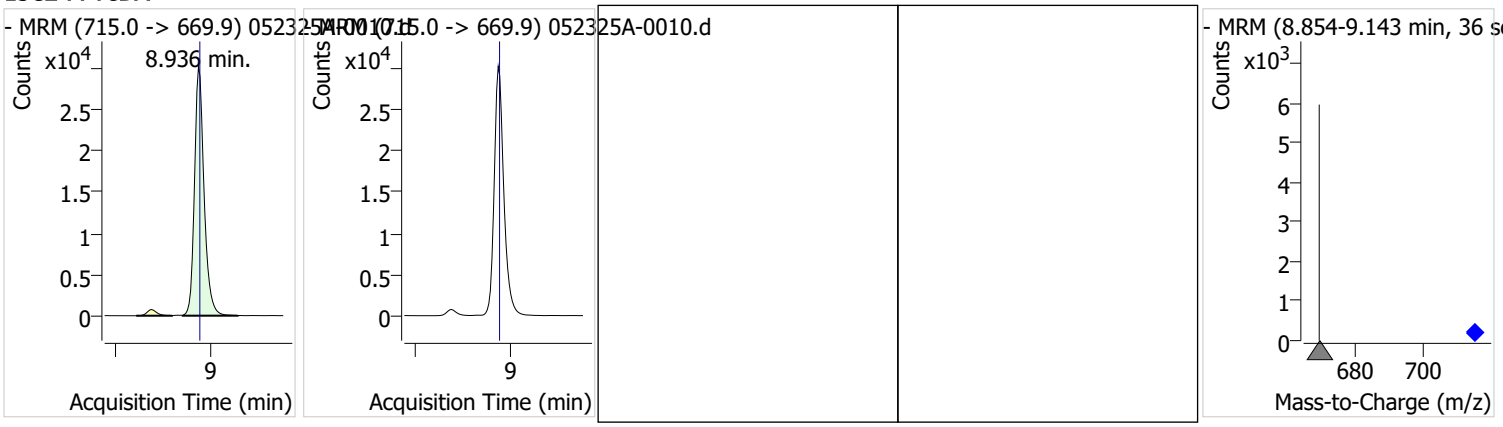




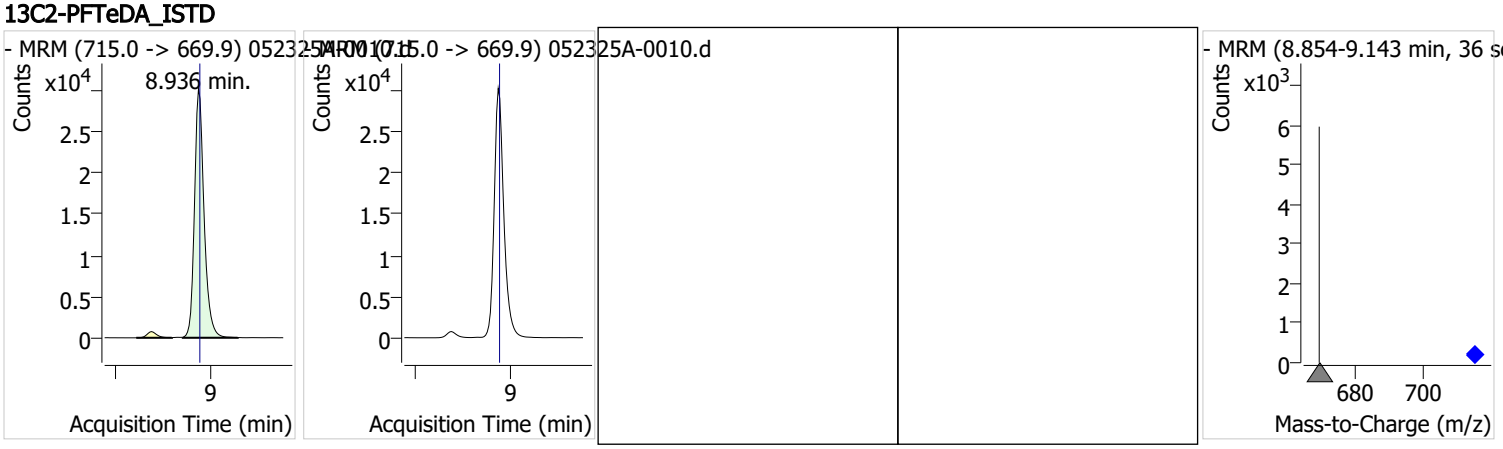
13C2-PFHxA



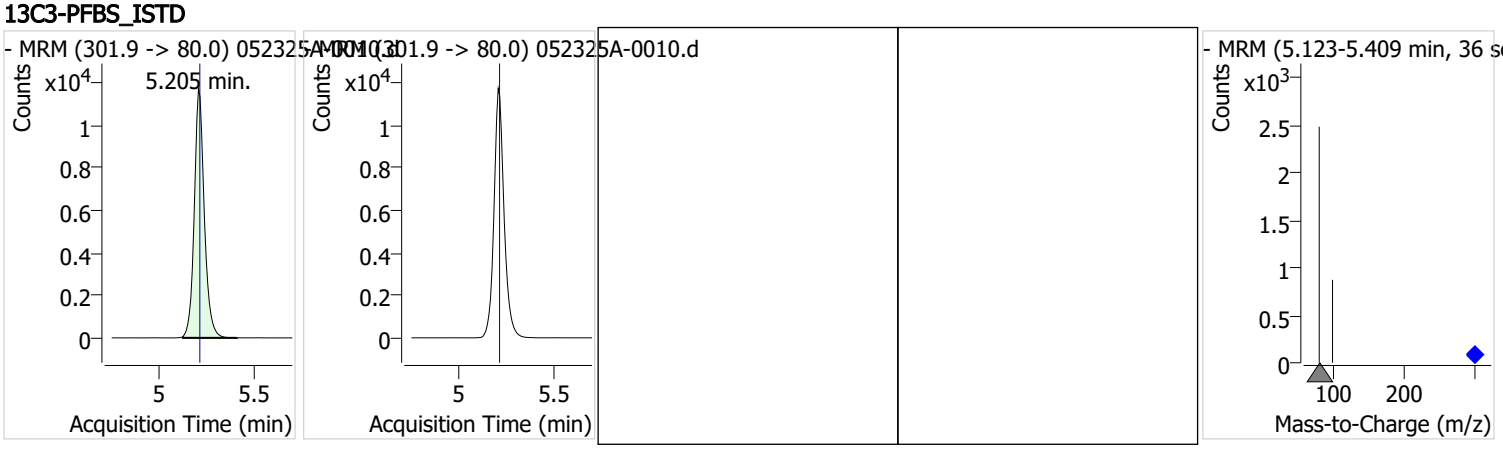
13C2-PFTeDA



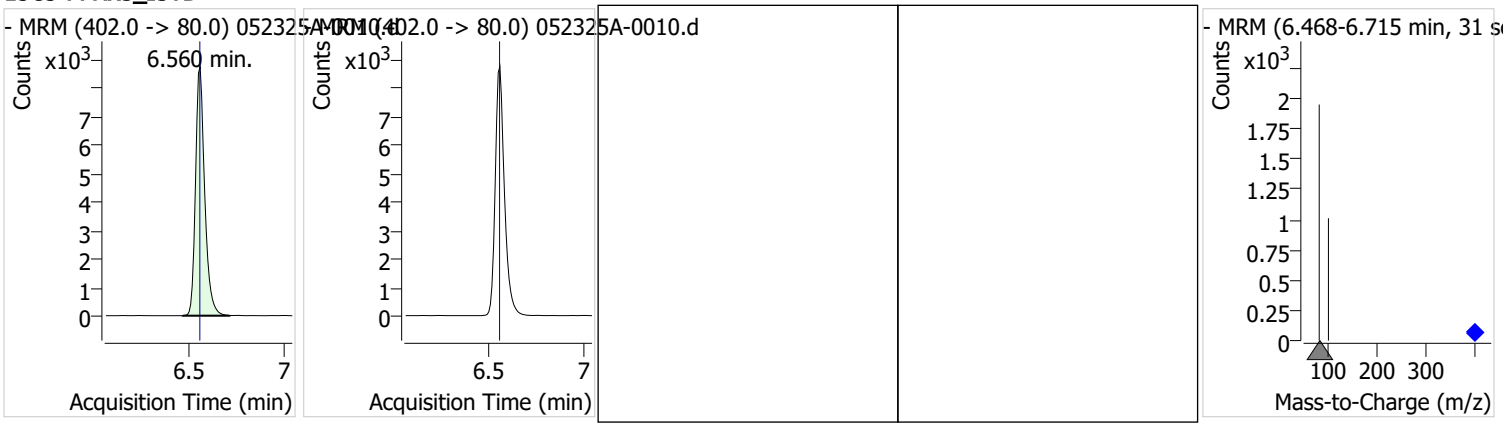
13C2-PFTeDA_ISTD



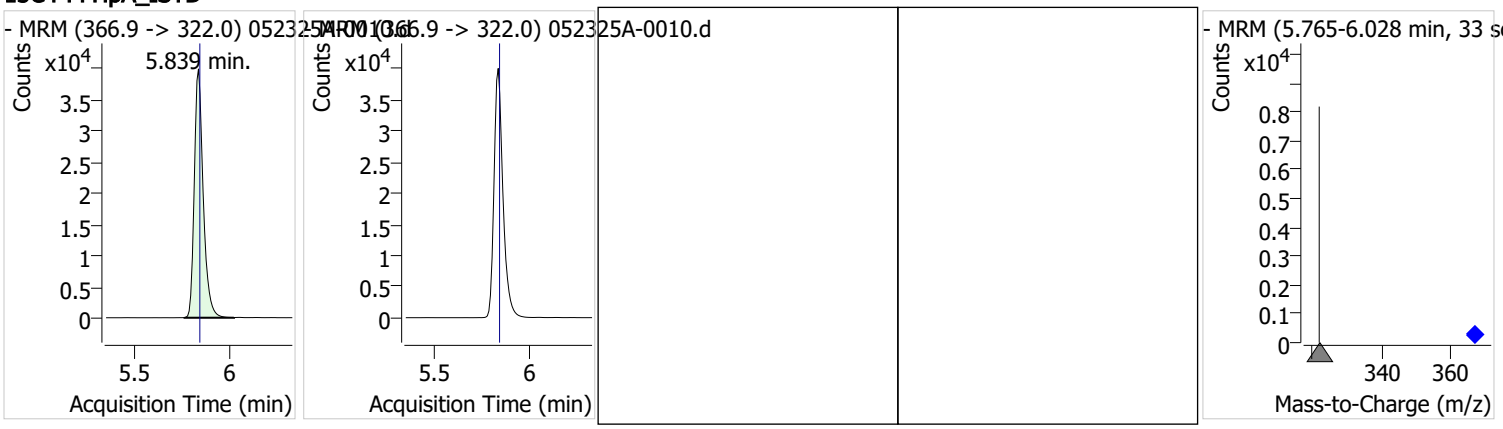
13C3-PFBS_ISTD



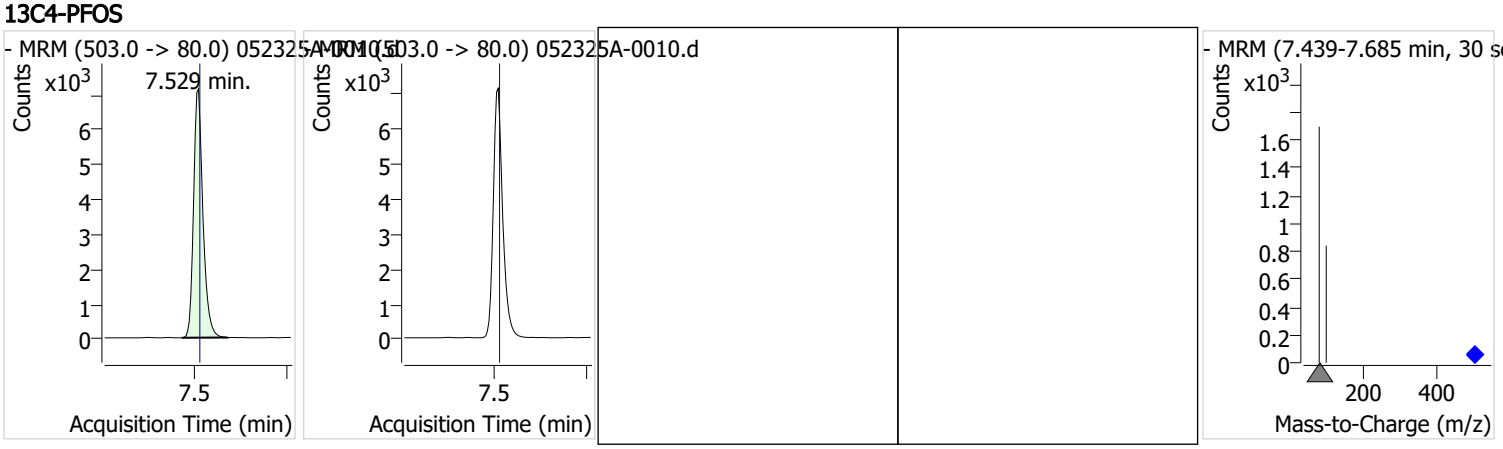
13C3-PFHxS_ISTD



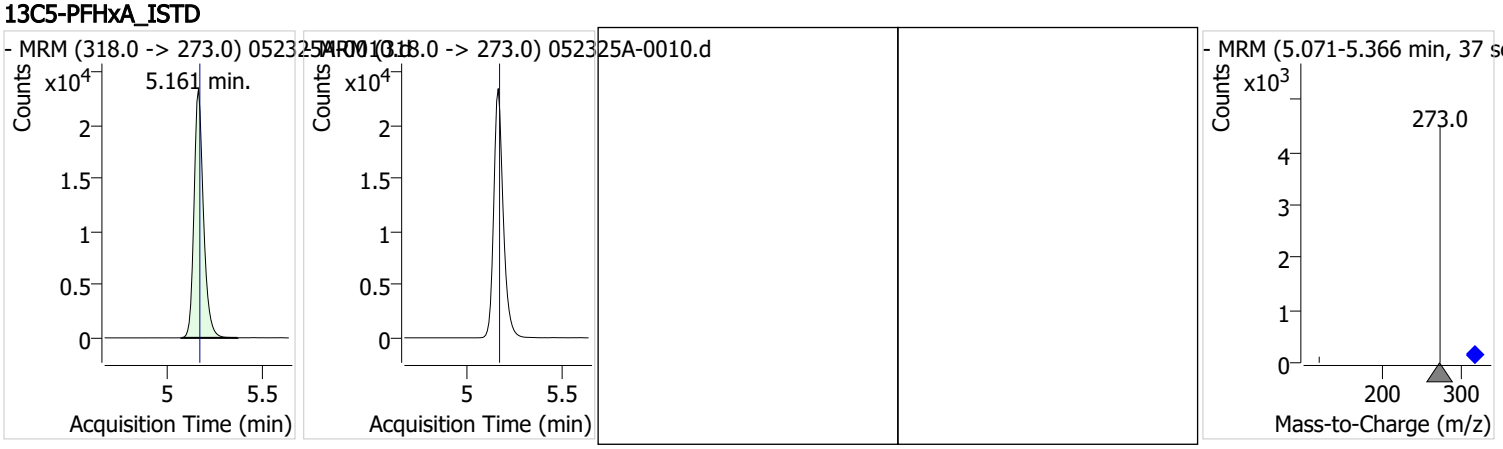
13C4-PFHpA_ISTD



13C4-PFOS



13C5-PFHxA_ISTD



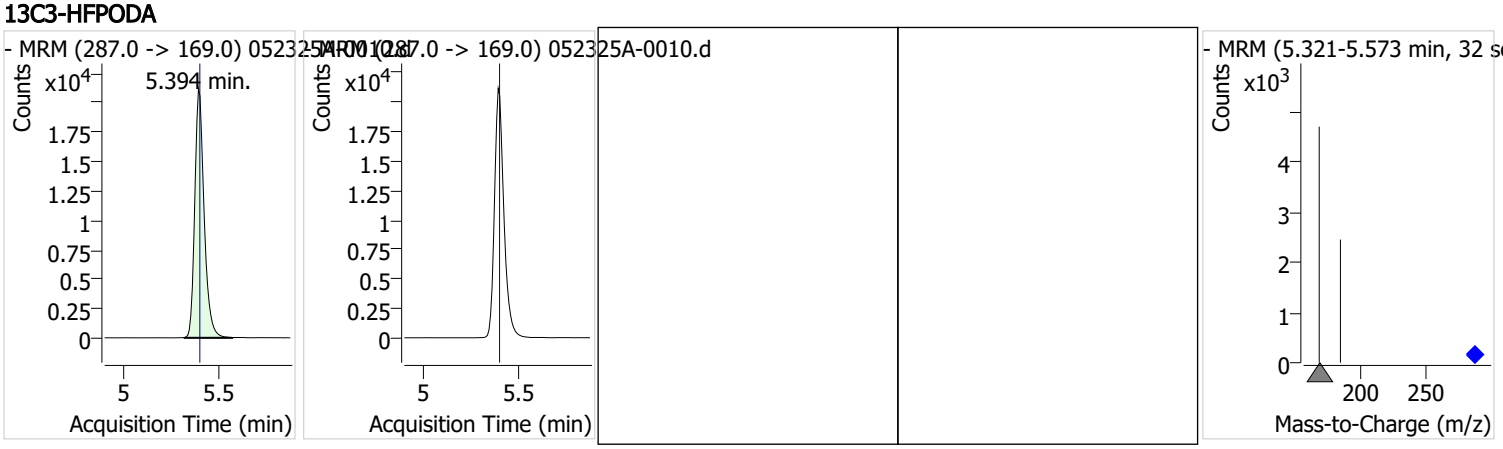
13C5-PFPeA_ISTD



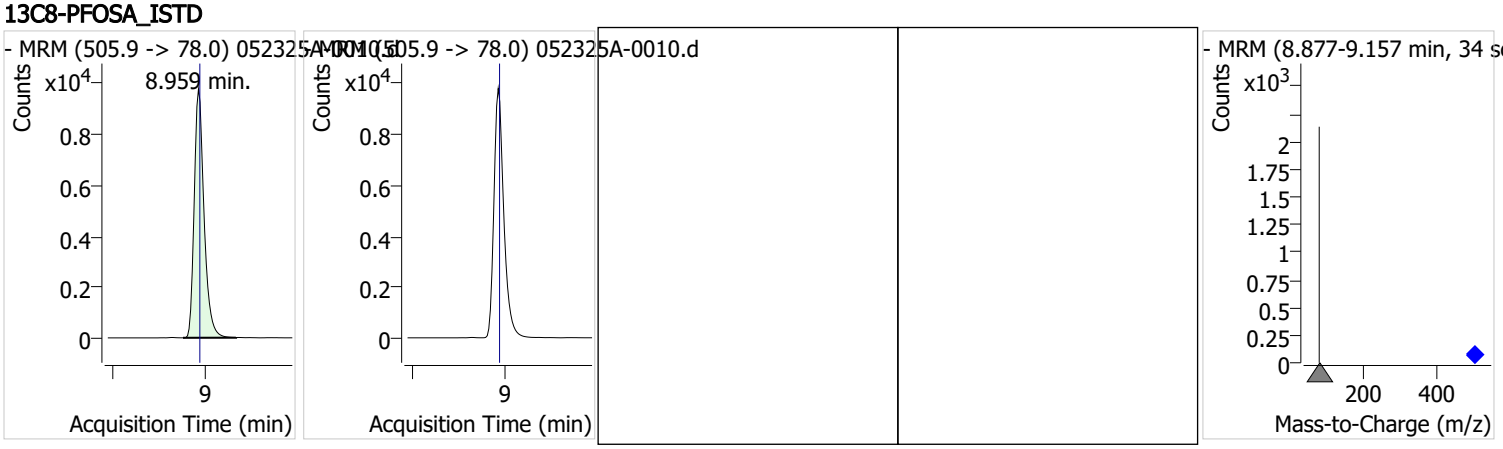
13C6-PFDA_ISTD



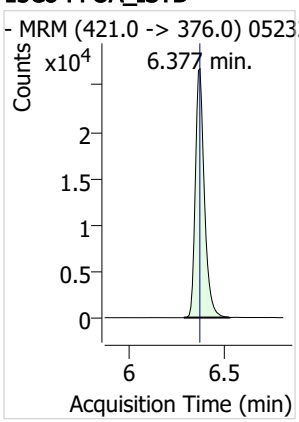
13C3-HFPODA

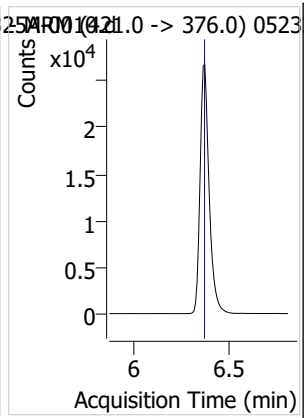


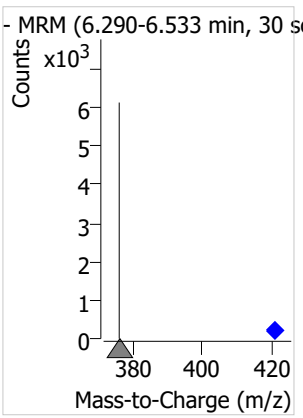
13C8-PFOSA_ISTD



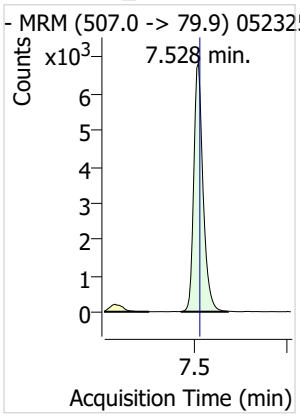
13C8-PFOA_ISTD

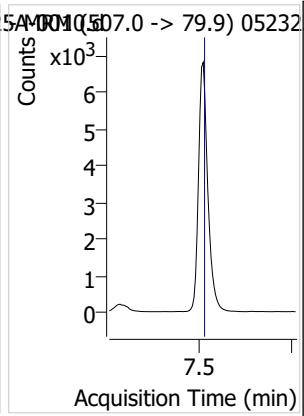


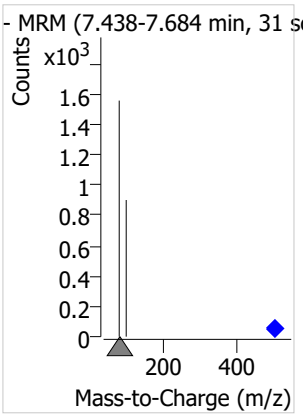




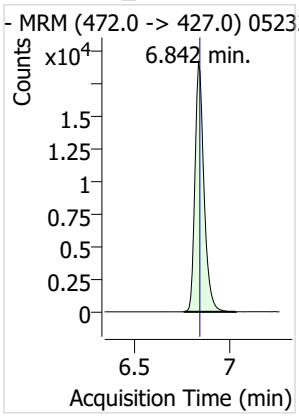
13C8-PFOS_ISTD

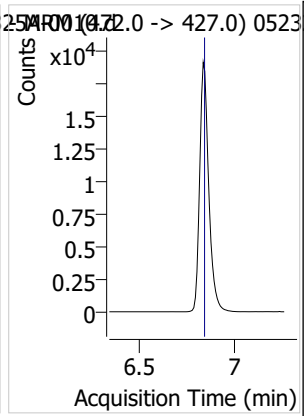


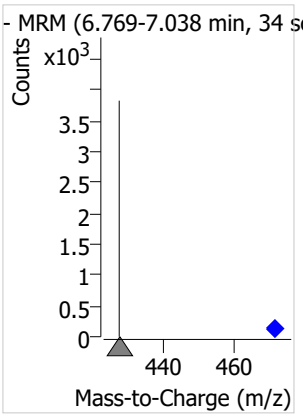




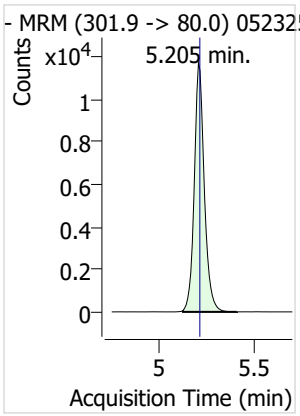
13C9-PFNA_ISTD

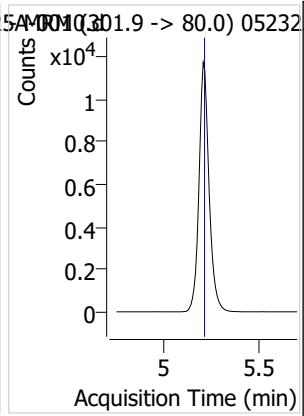


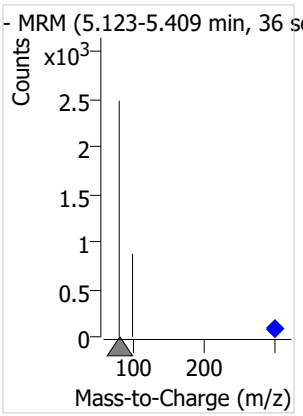




13C3-PFBS



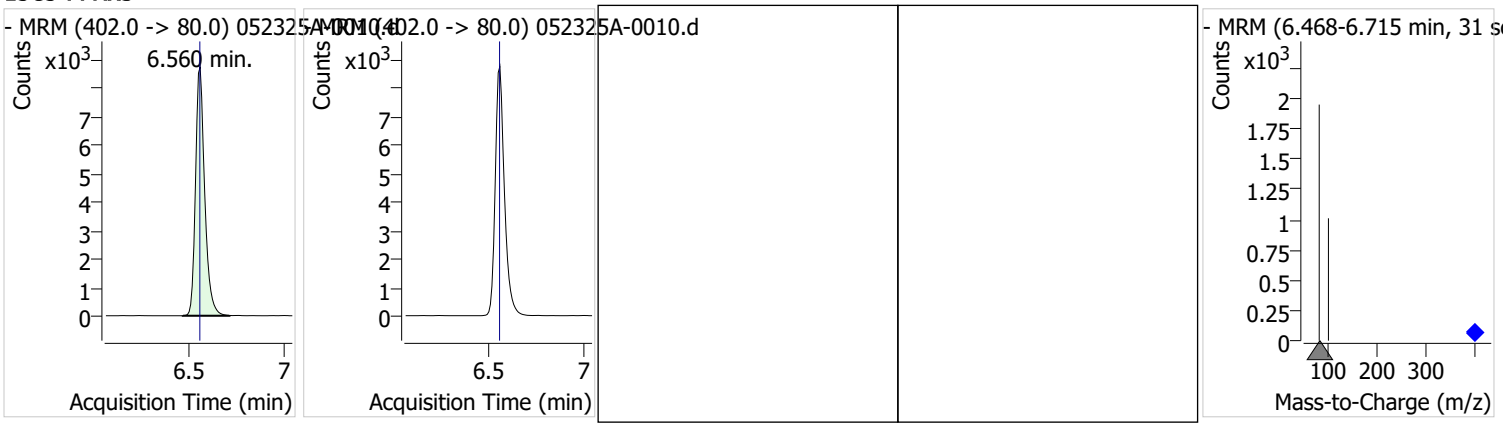




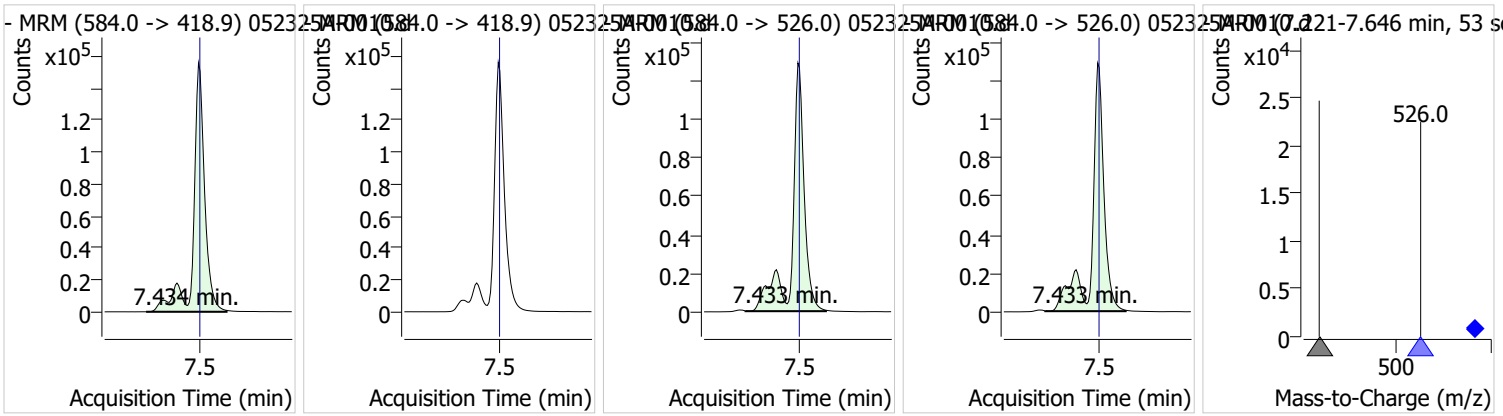
13C2-PFDoA_ISTD



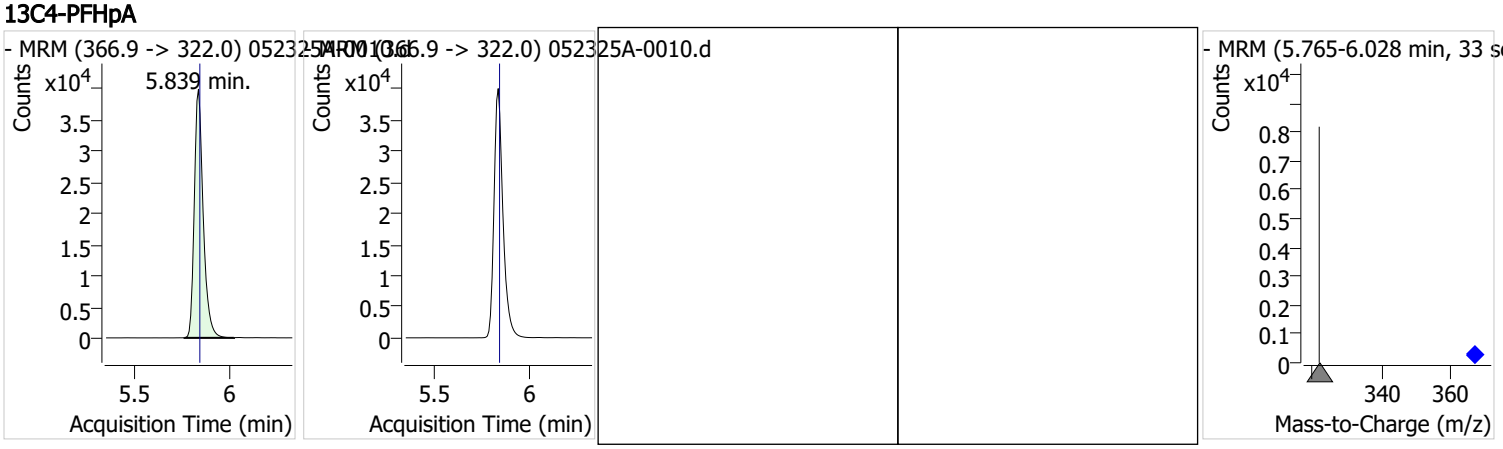
13C3-PFHxS



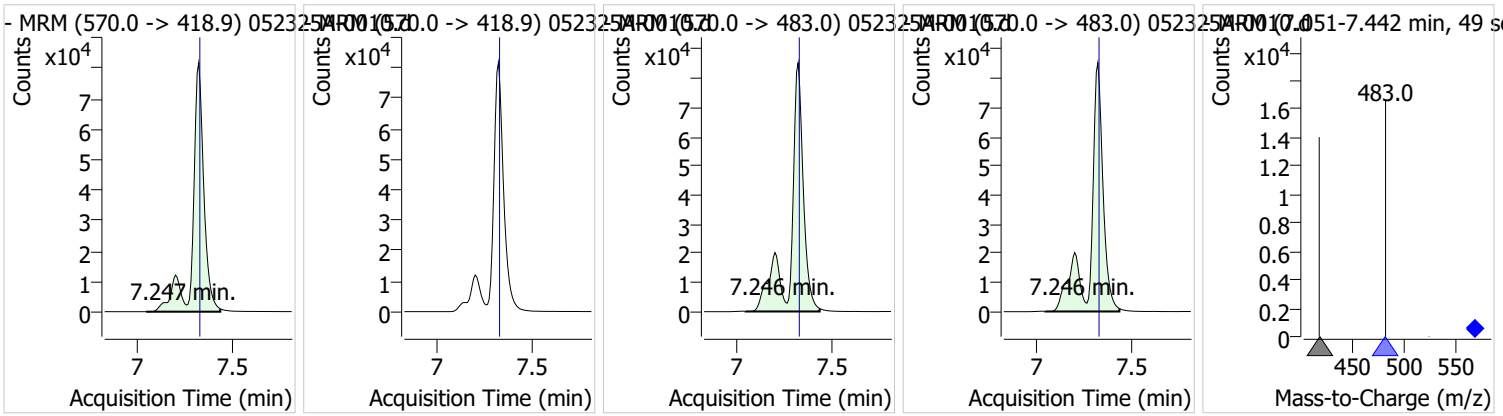
NEtFOSAA



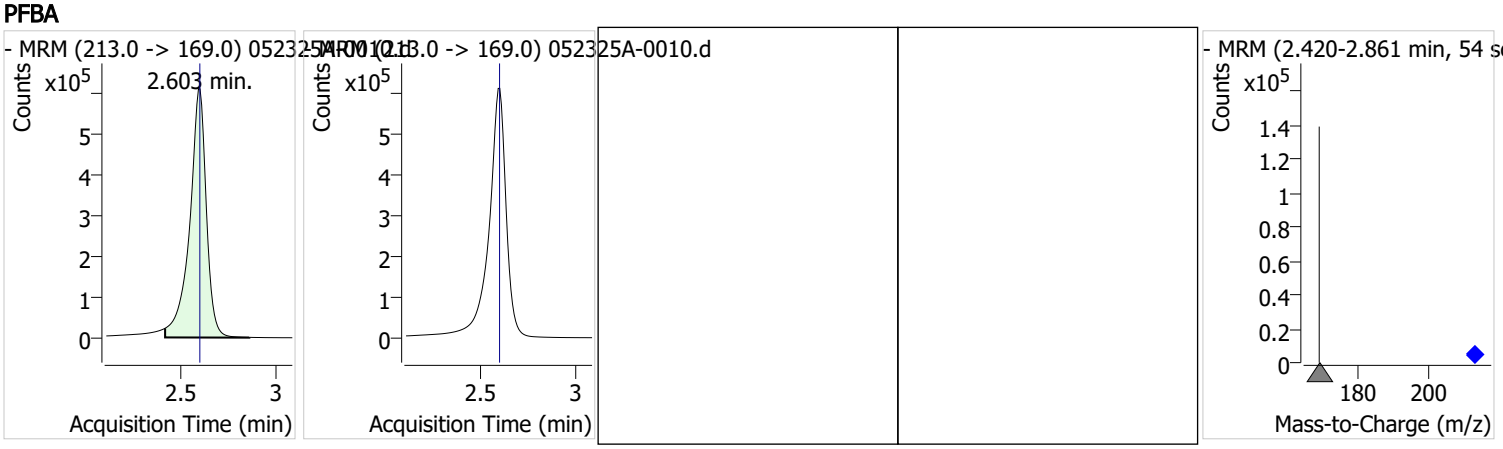
13C4-PFHpA



NMeFOSAA



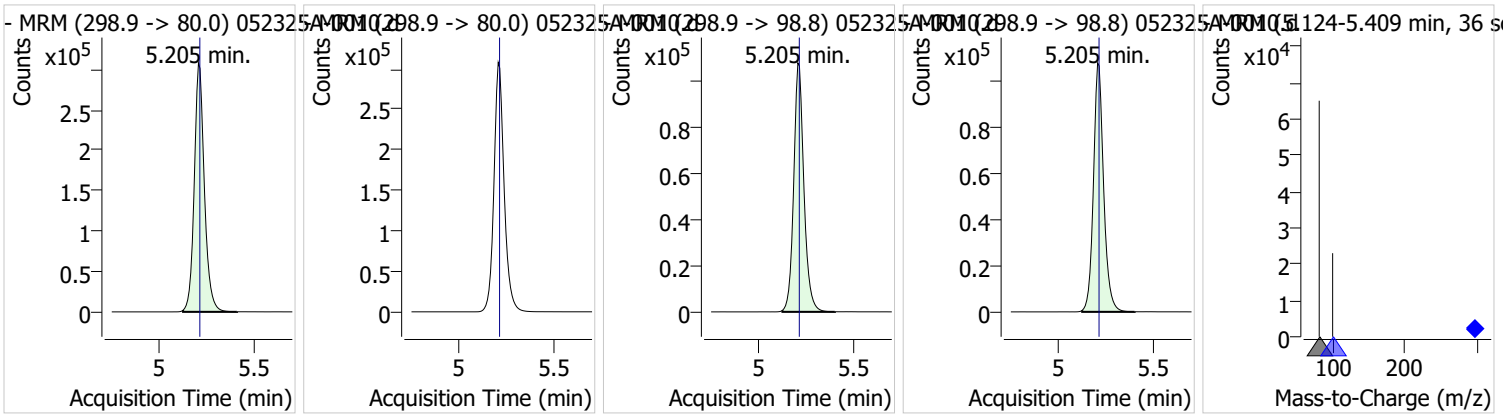
PFBA



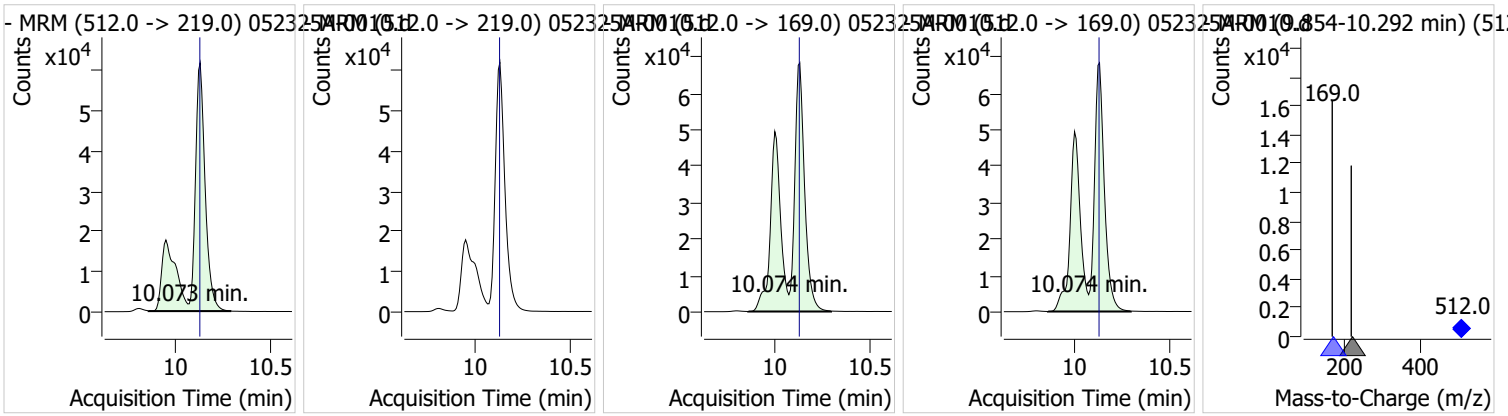
13C5-PFHxA



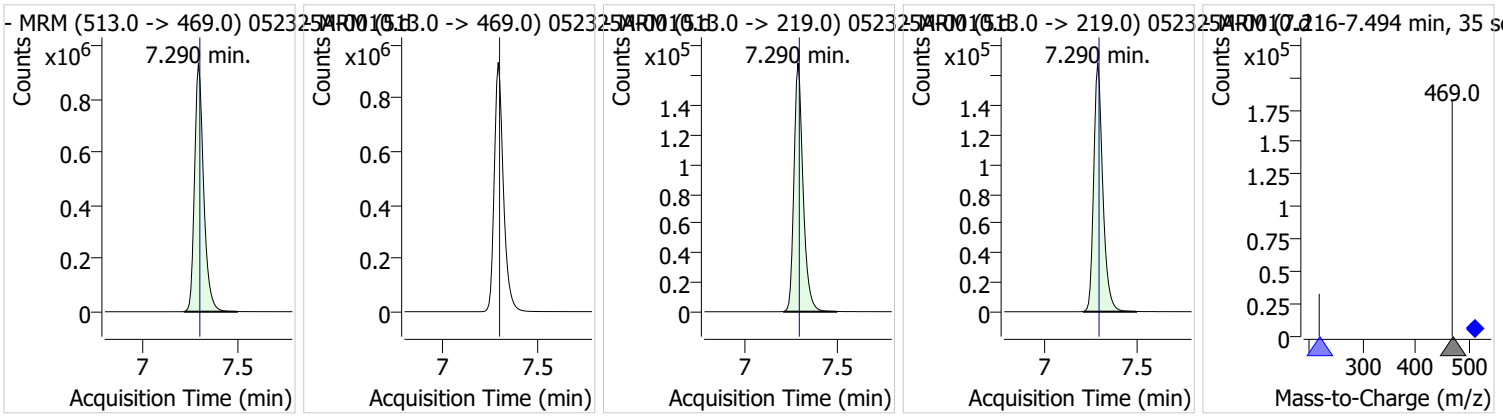
PFBS



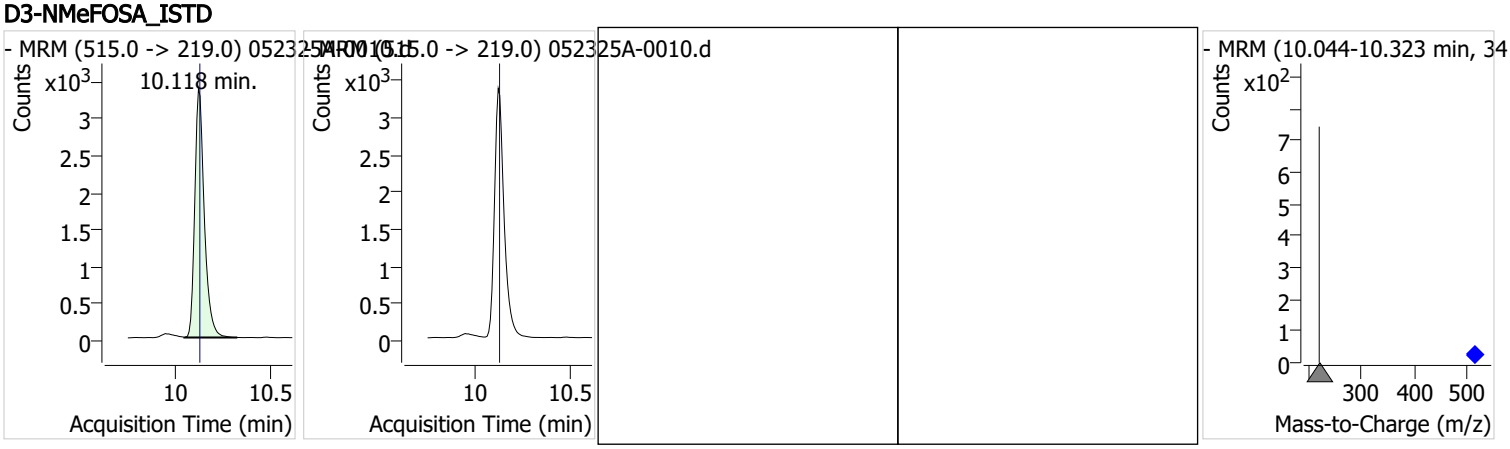
NMeFOSA



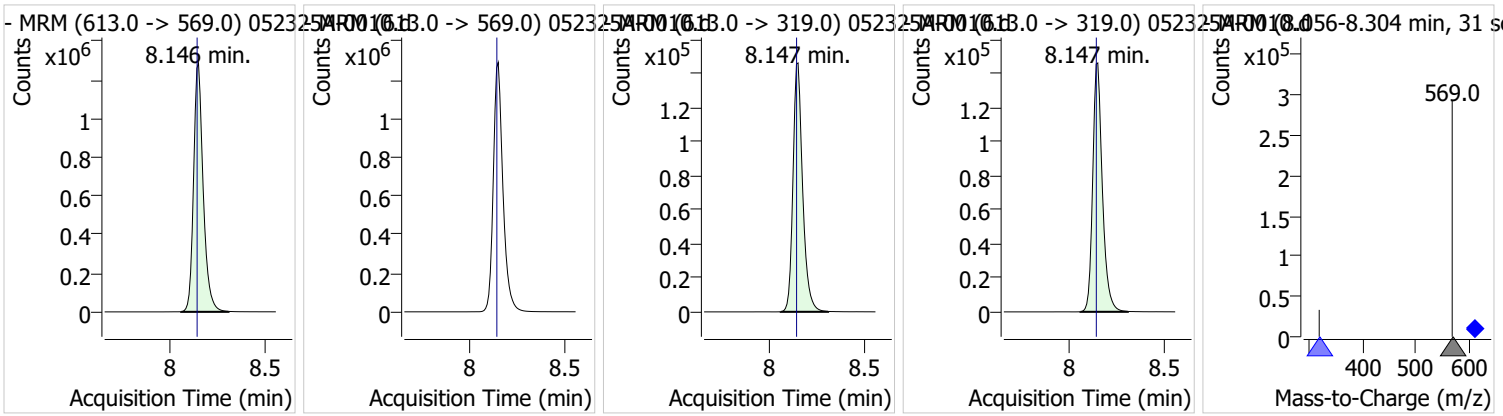
PFDA



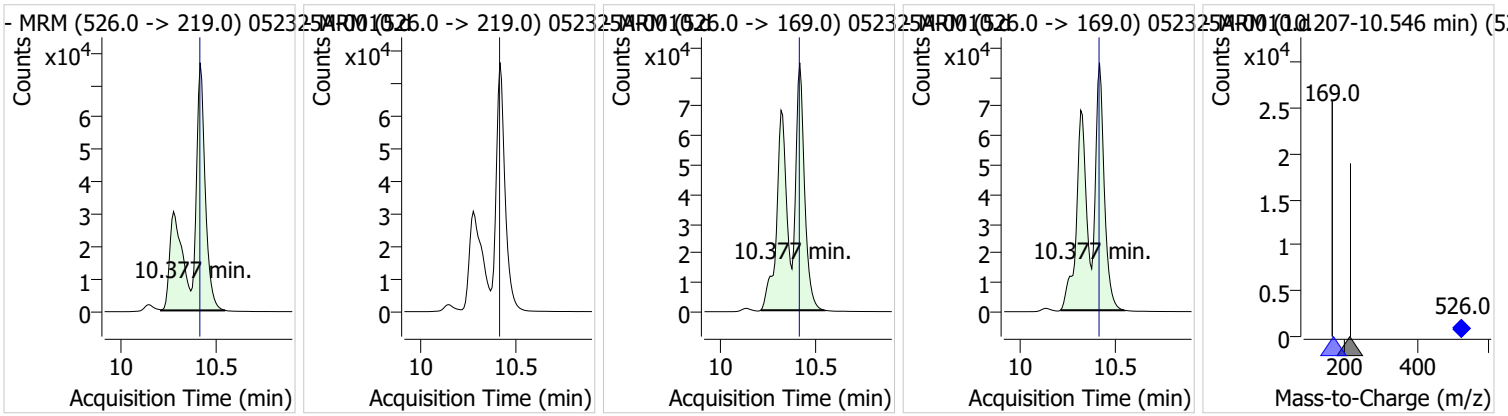
D3-NMeFOSA_ISTD



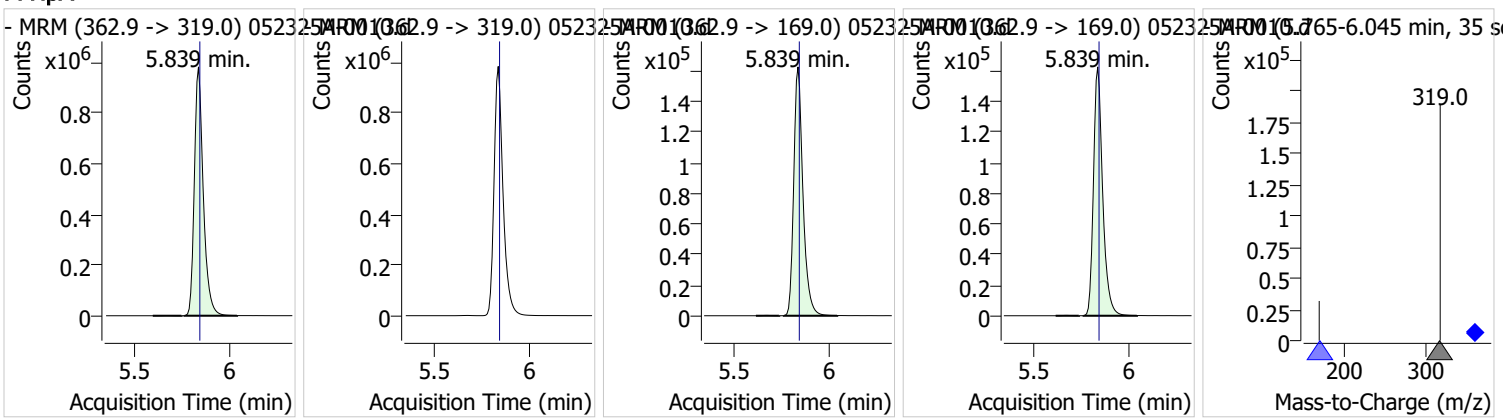
PFDoA



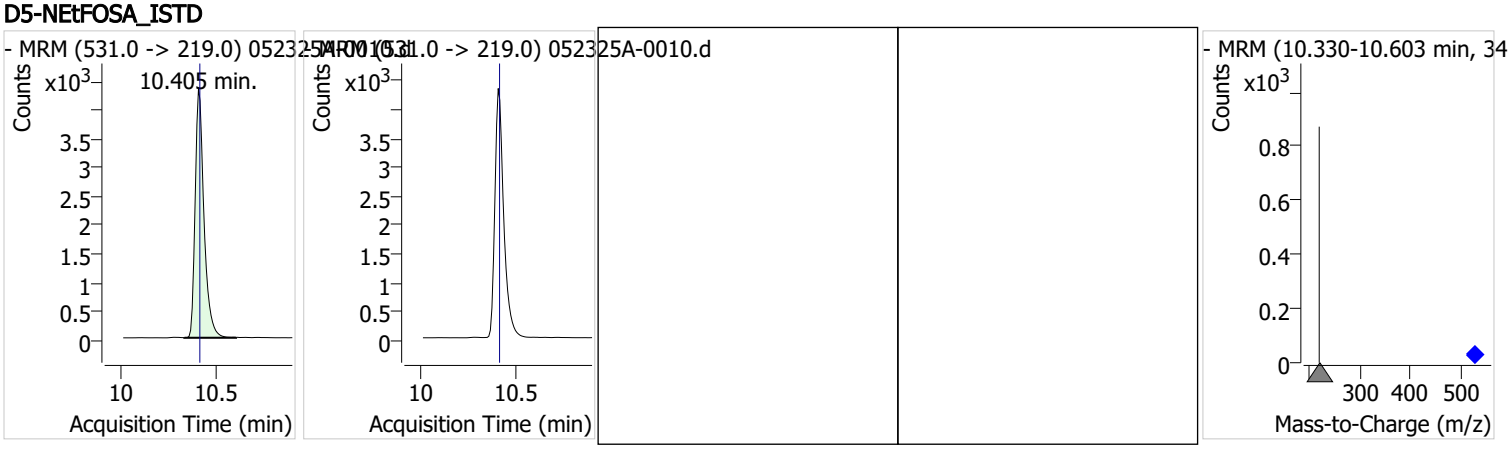
NEtFOSA



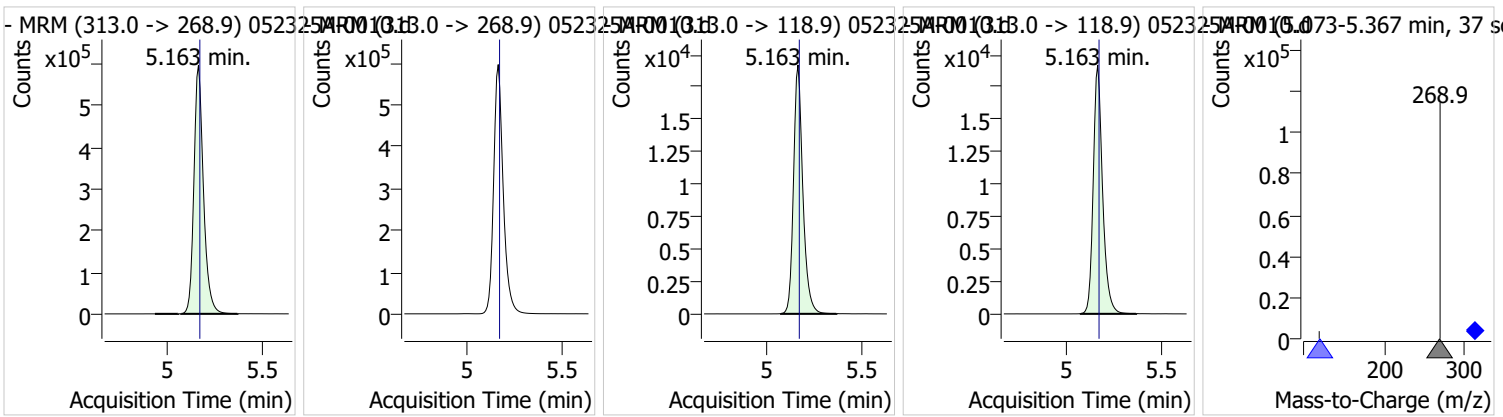
PFHpA



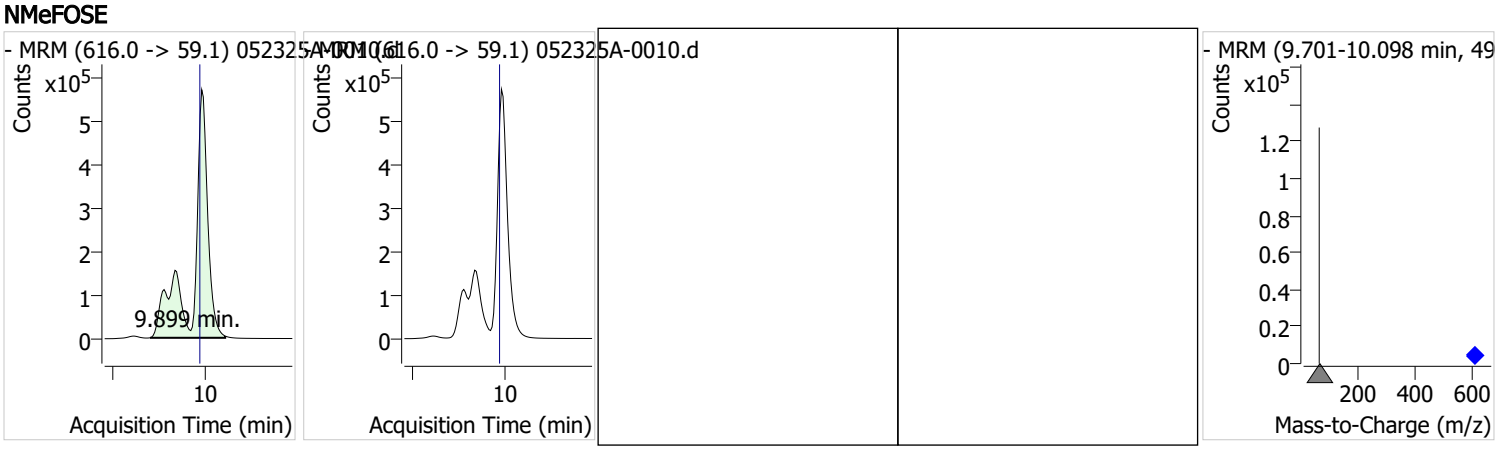
D5-NEtFOSA_ISTD



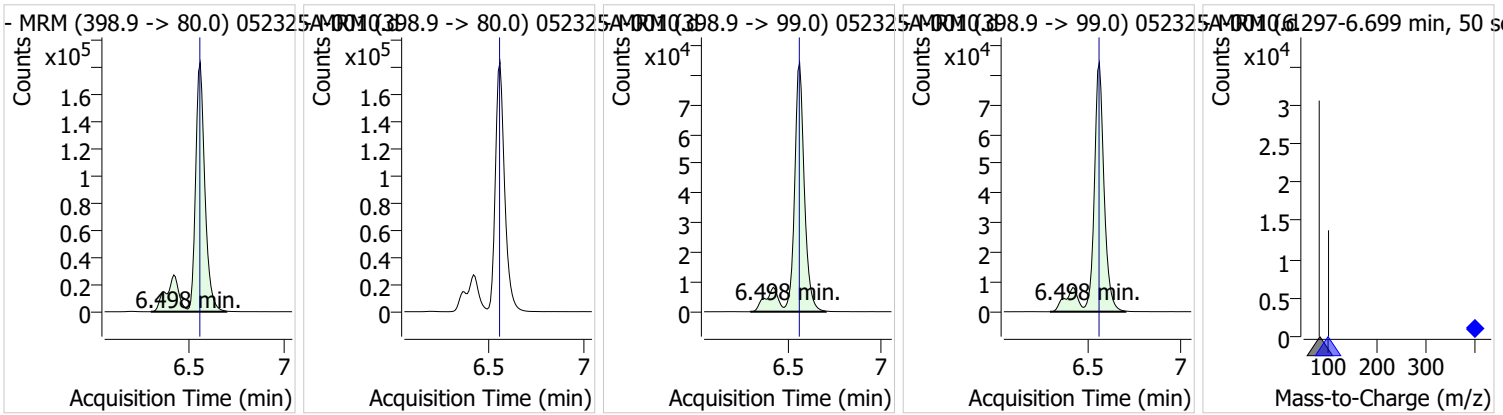
PFHxA



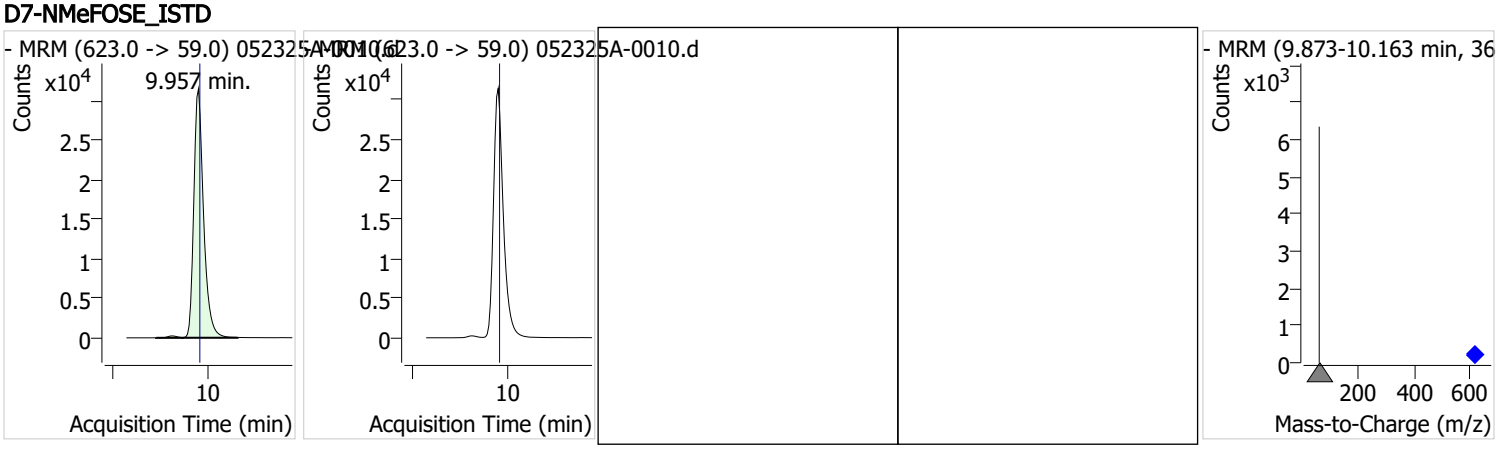
NMeFOSE



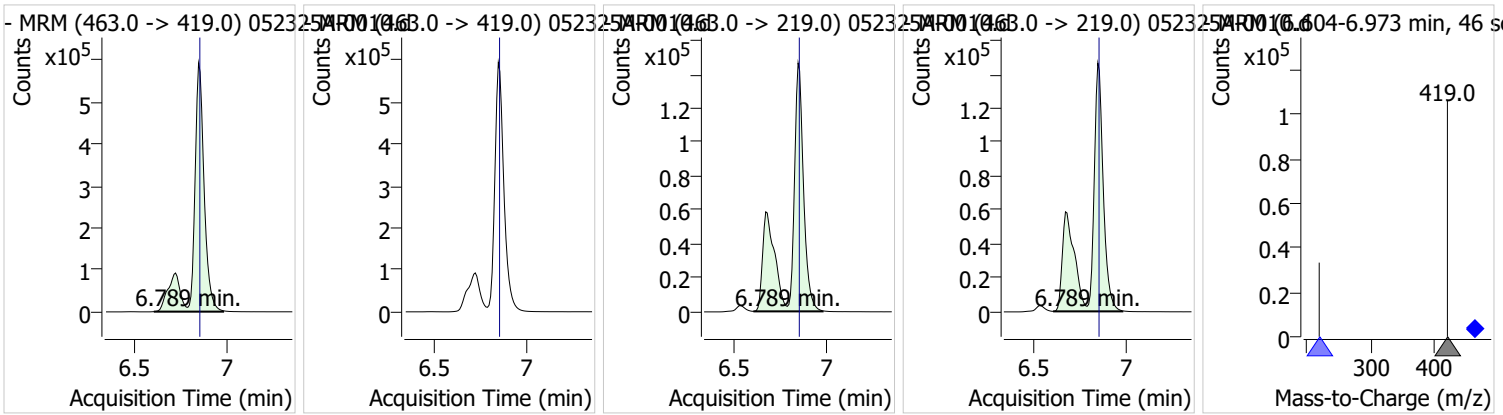
PFHxS



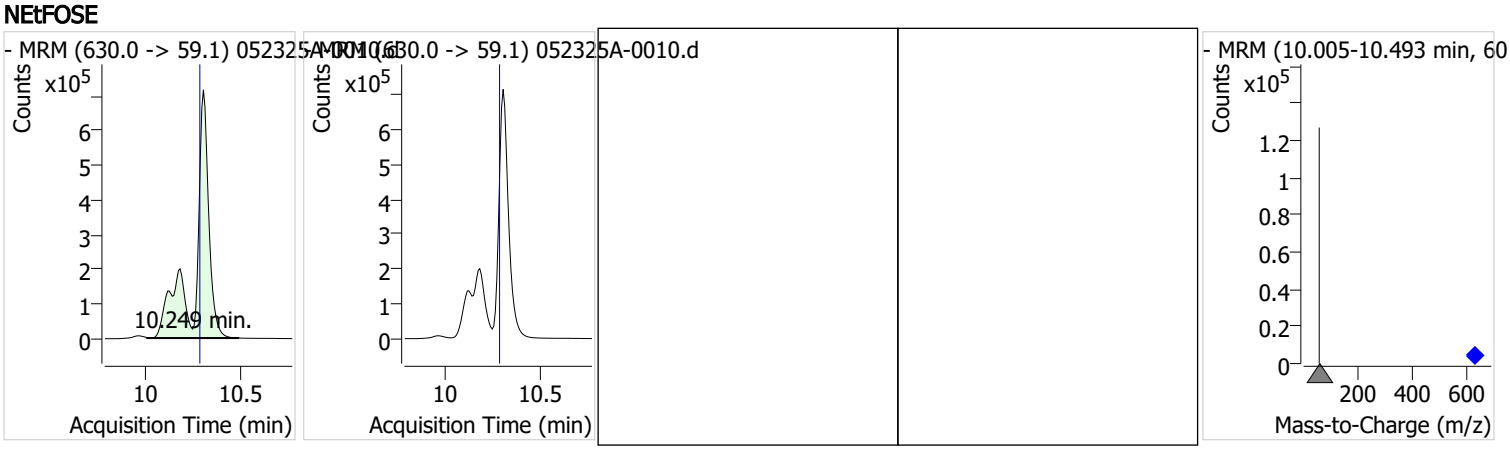
D7-NMeFOSE_ISTD



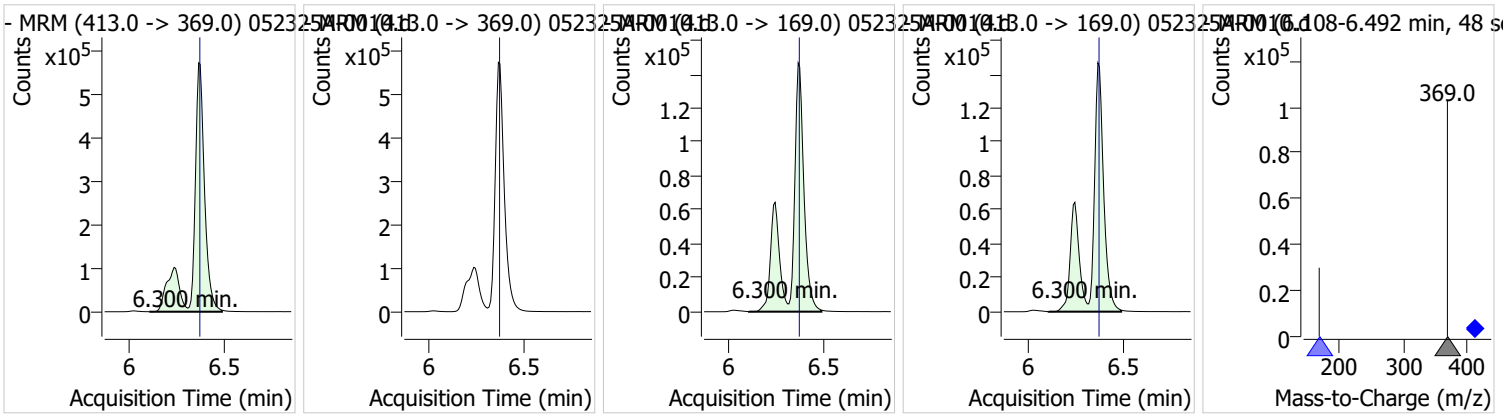
PFNA



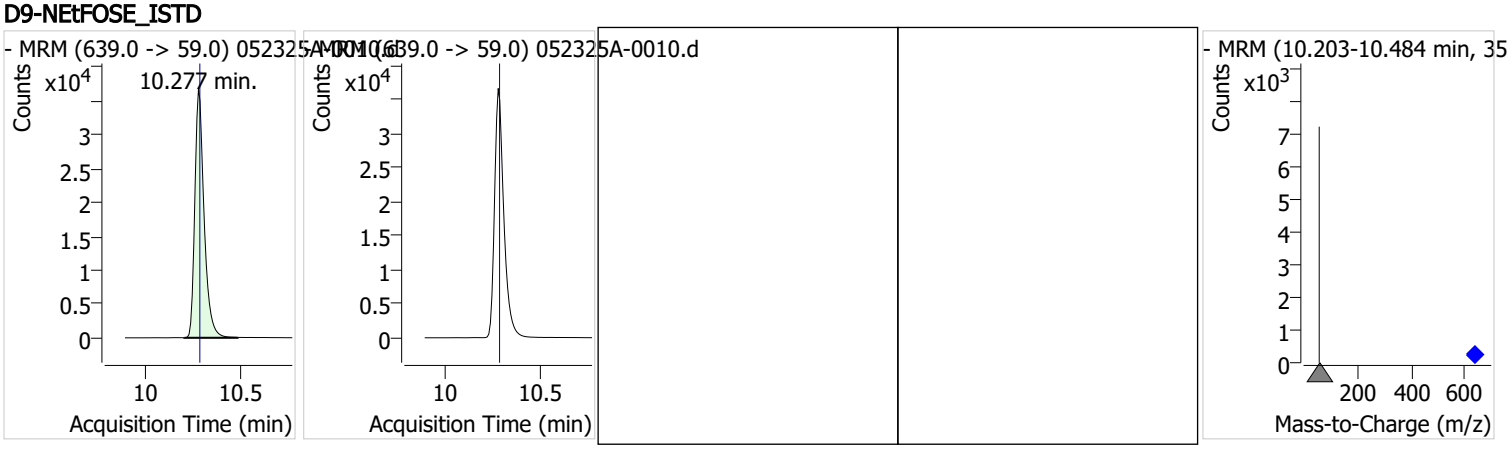
NEtFOSE



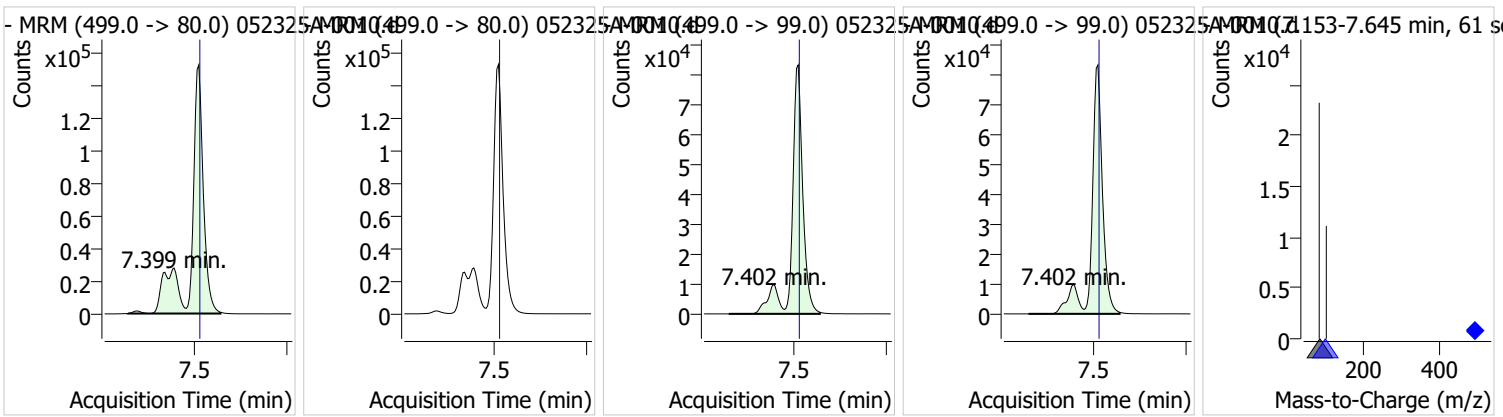
PFOA



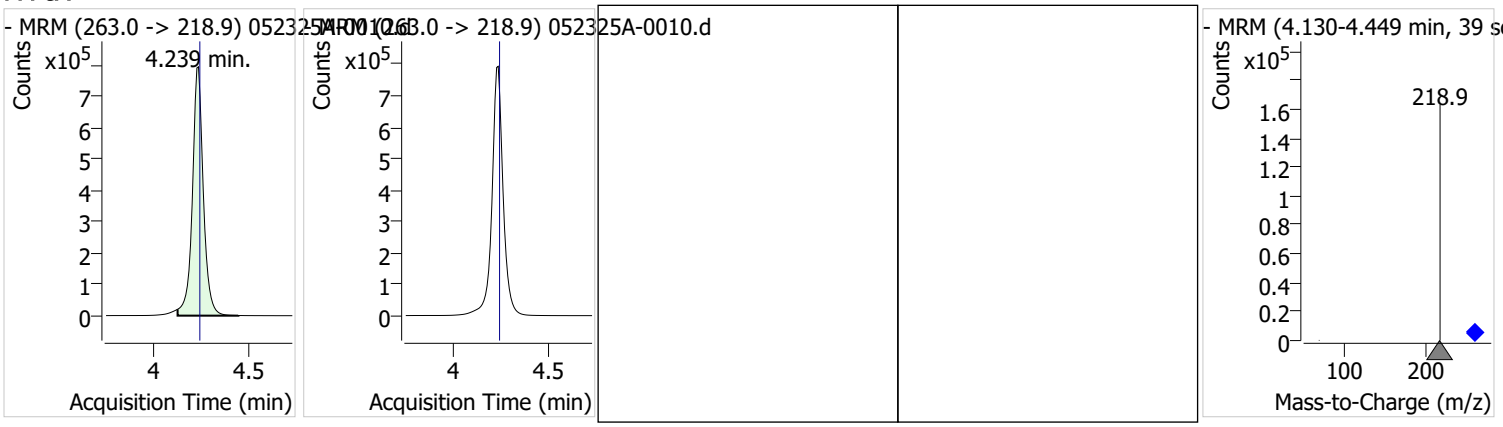
D9-NEtFOSE_ISTD



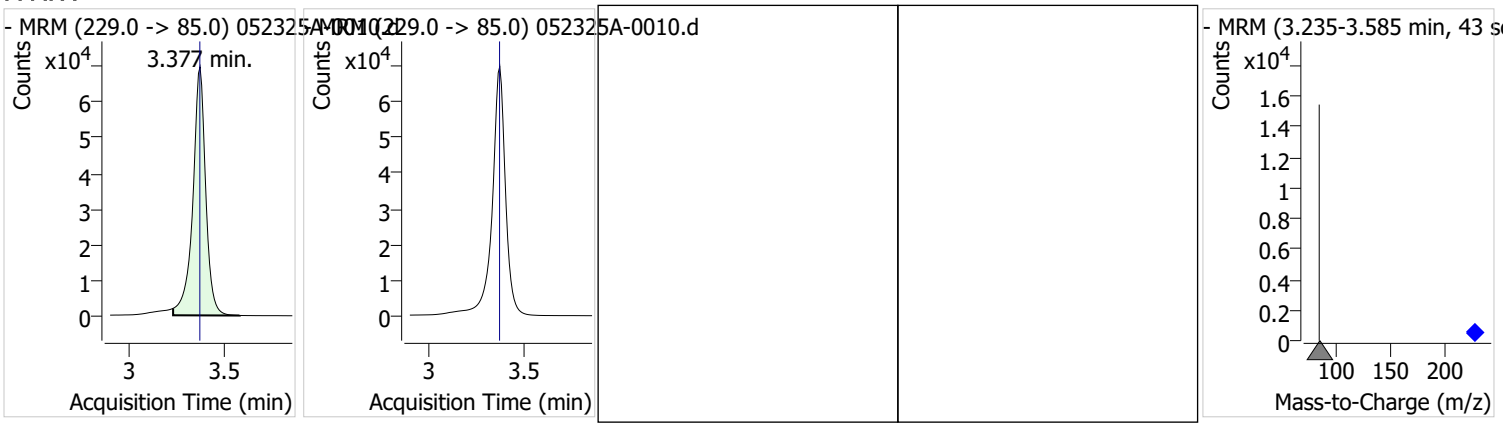
PFOS



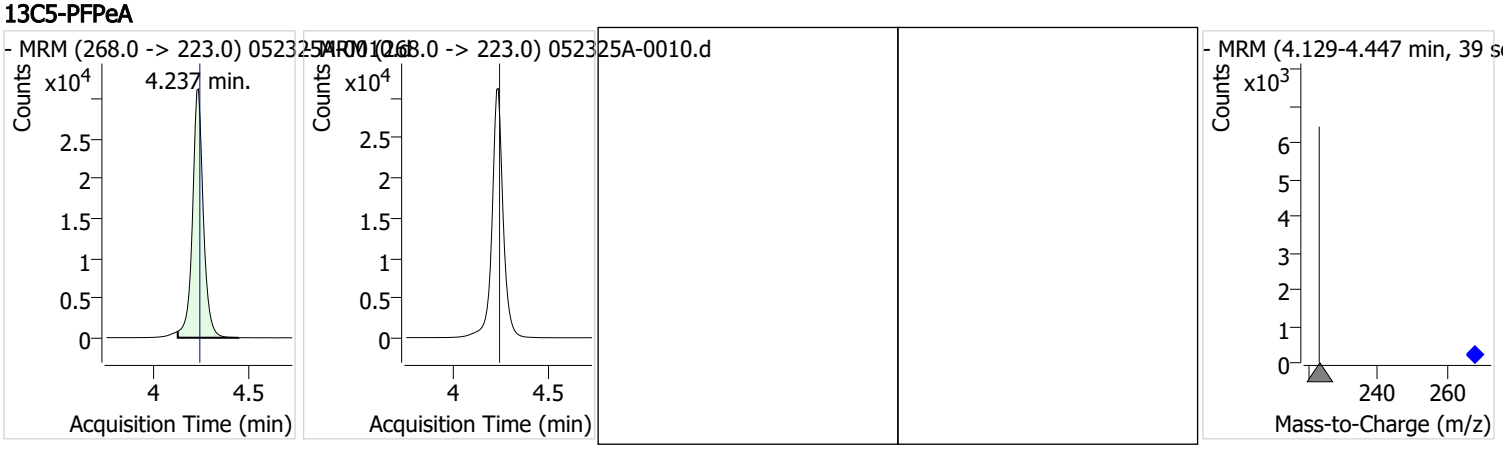
PFPeA



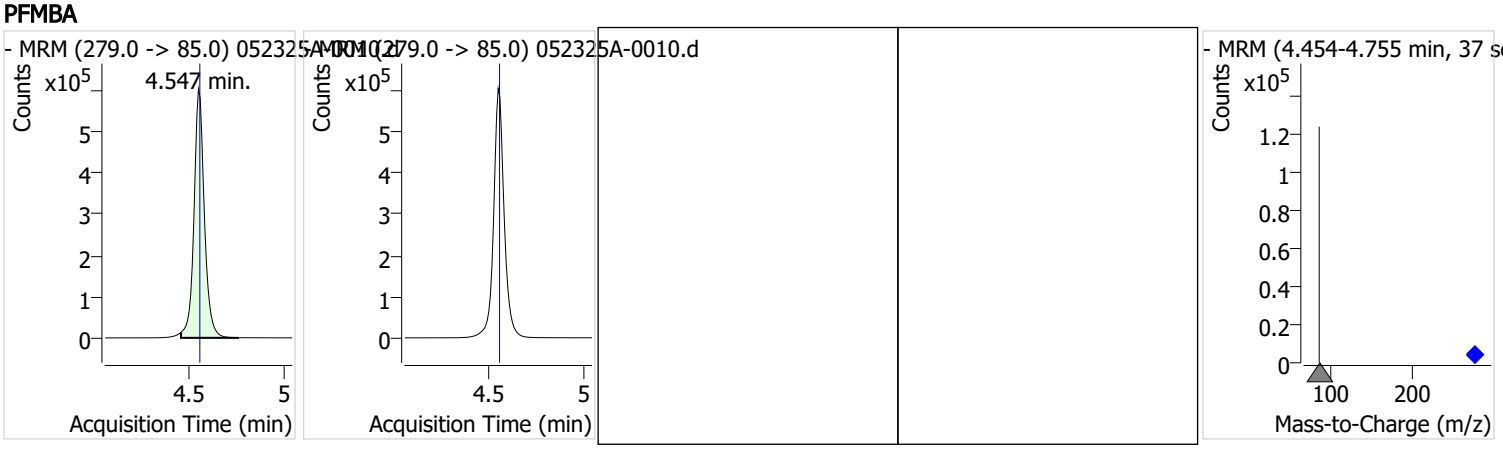
PFMPA



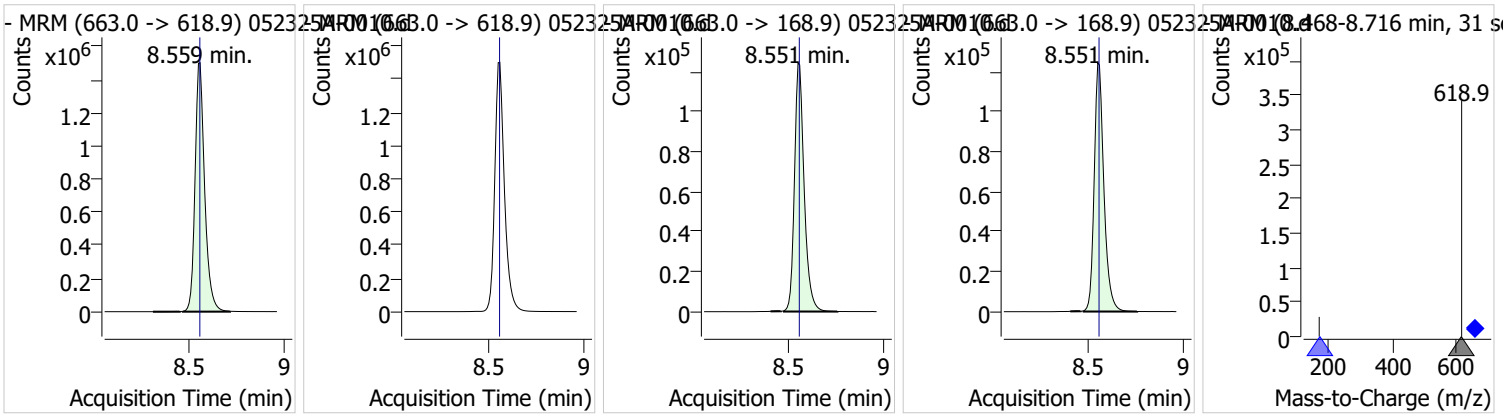
13C5-PFPeA



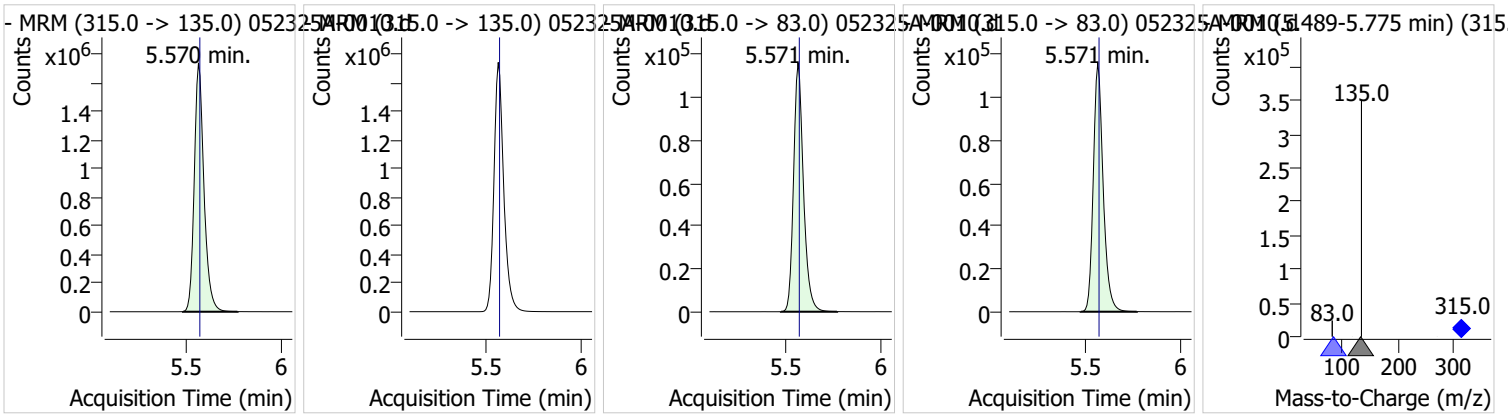
PFMBA



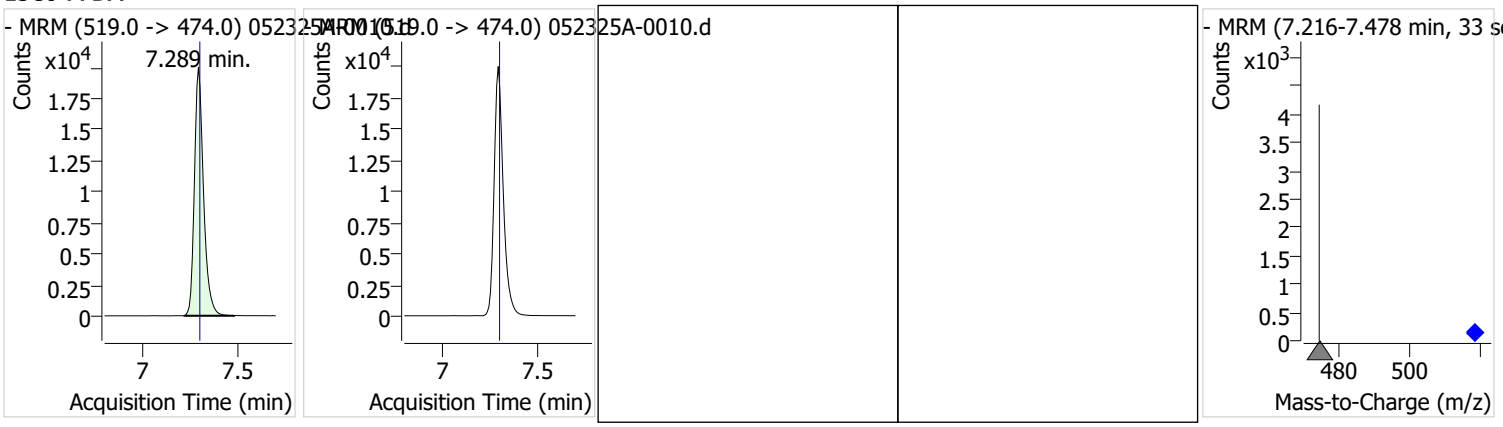
PFTrDA



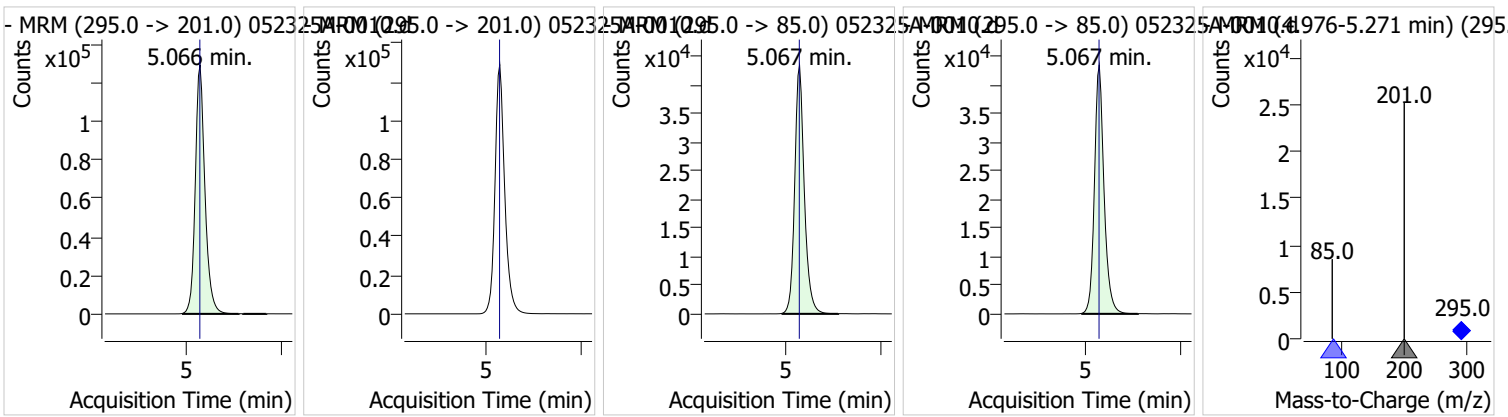
PFEESA



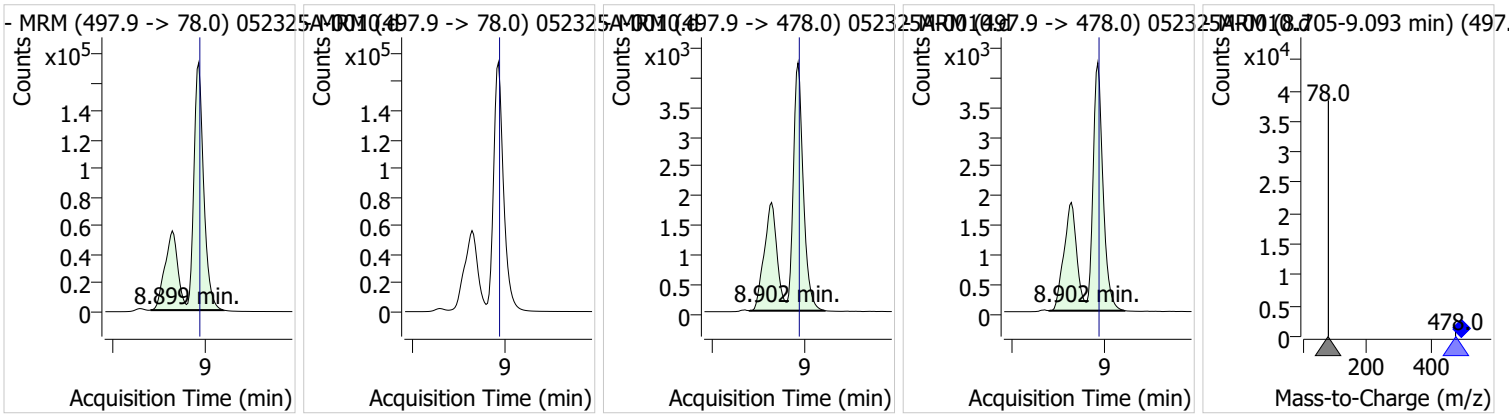
13C6-PFDA



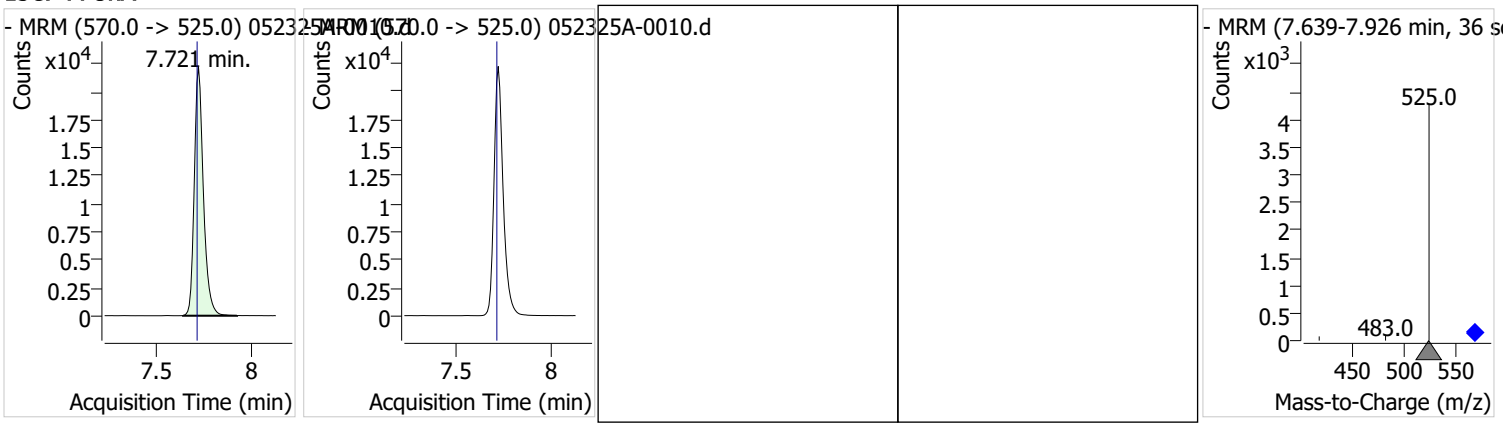
NFDHA



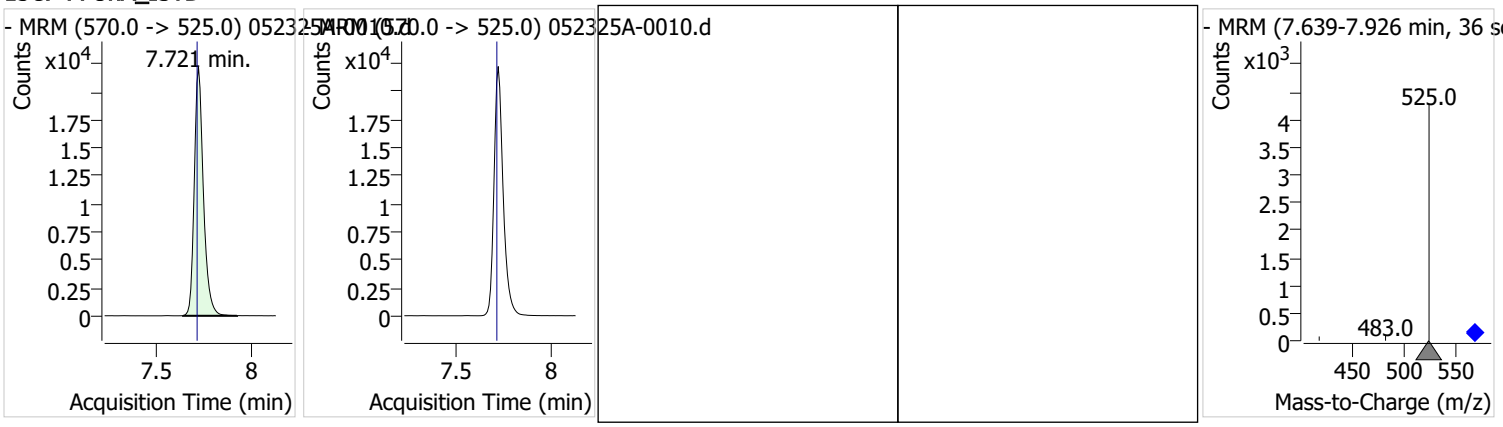
PFOSA



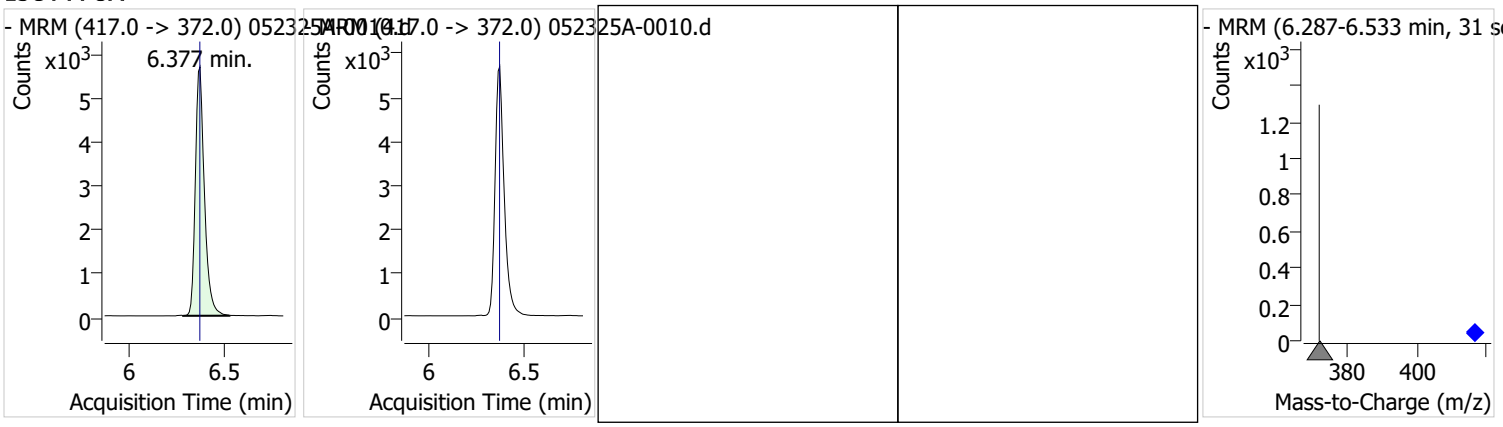
13C7-PFUnA



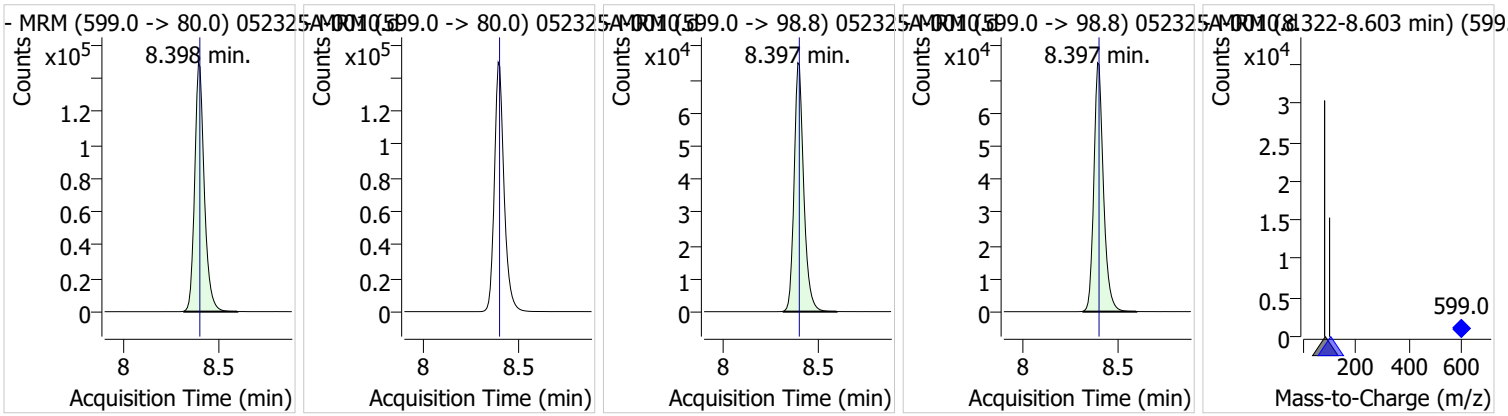
13C7-PFUnA_ISTD



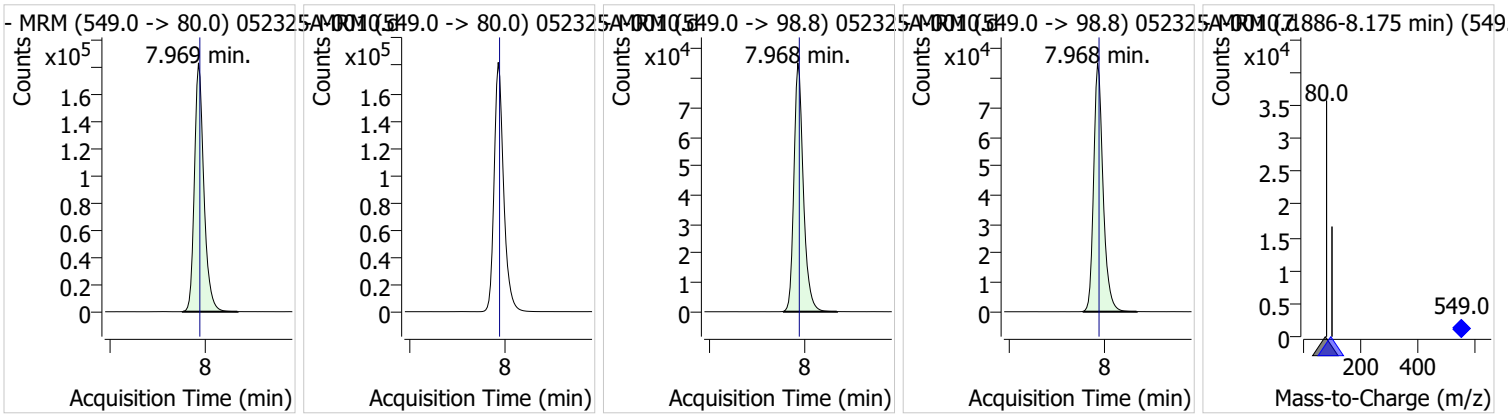
13C4-PFOA



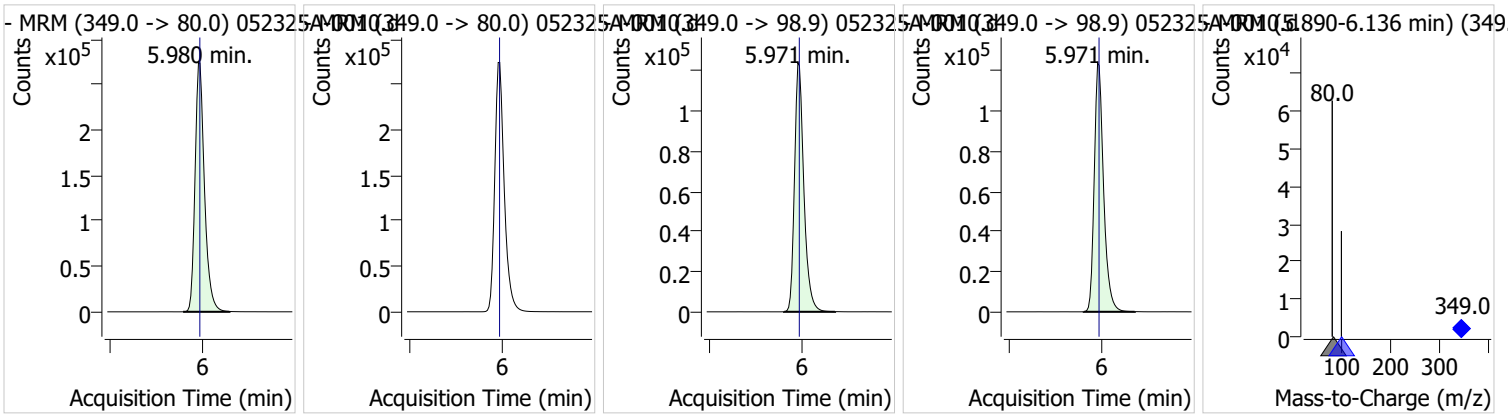
PFDS



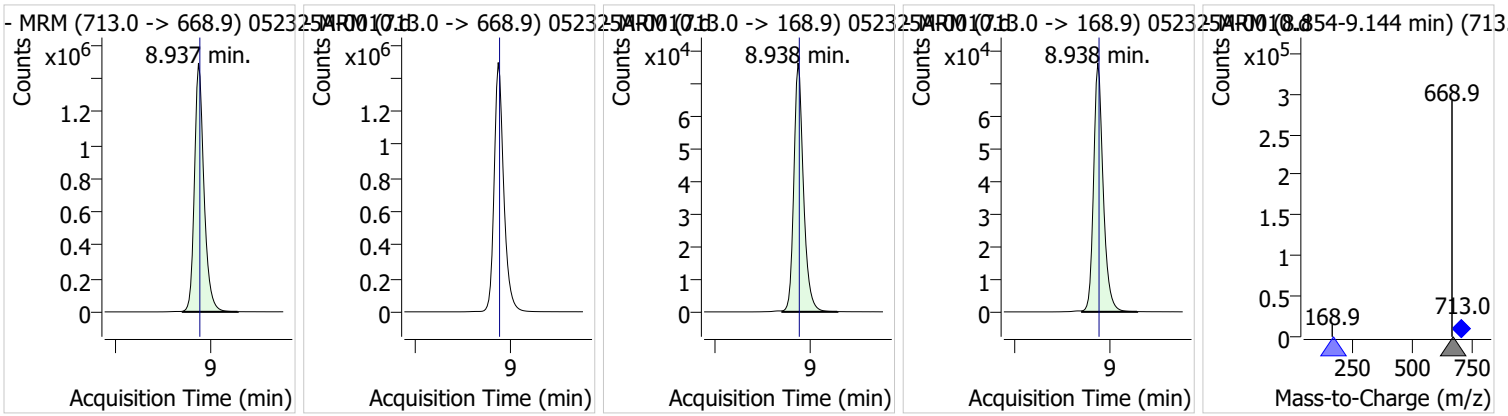
PFNS



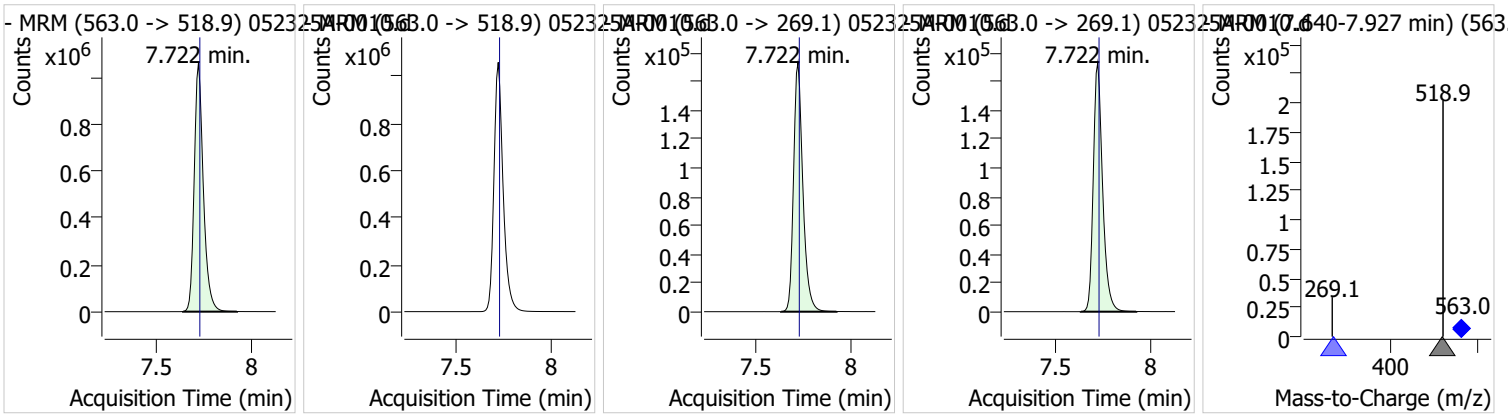
PFPeS



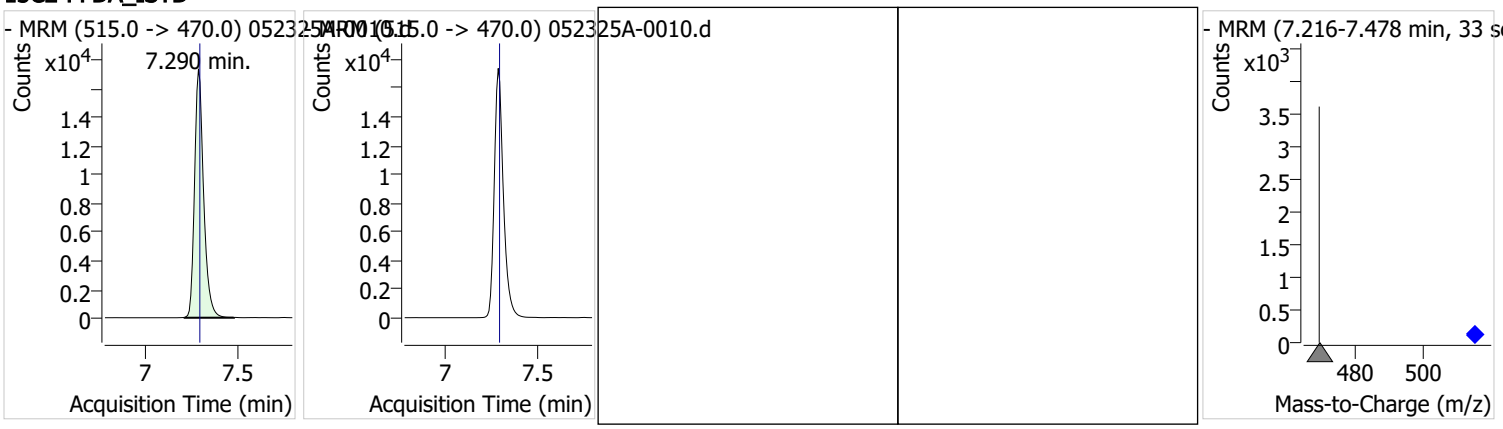
PFTeDA



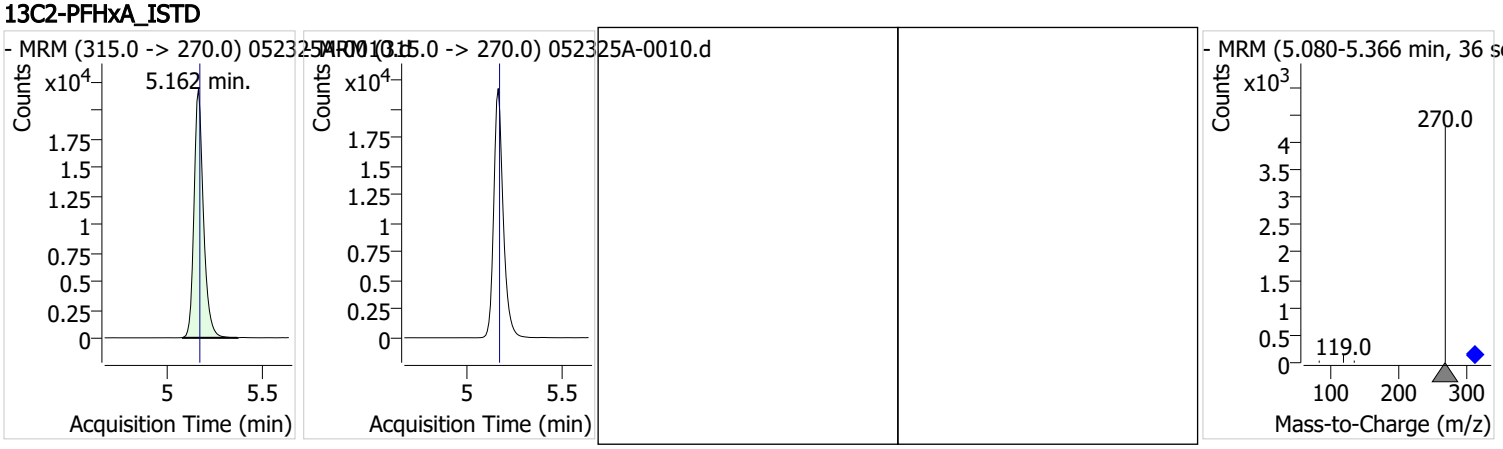
PFUnA



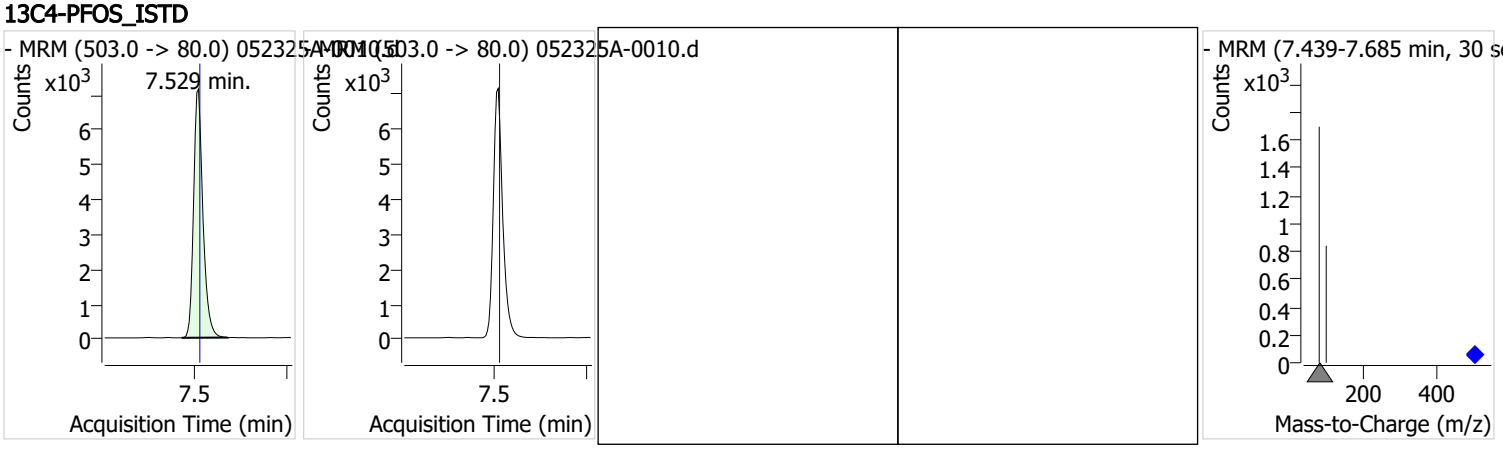
13C2-PFDA_ISTD



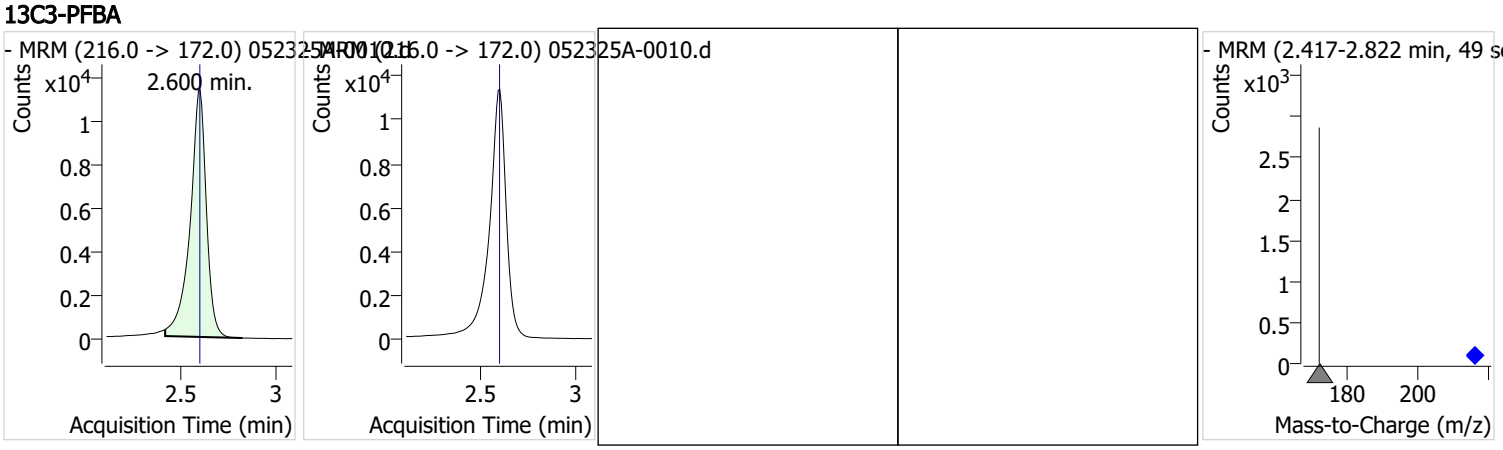
13C2-PFHxA_ISTD



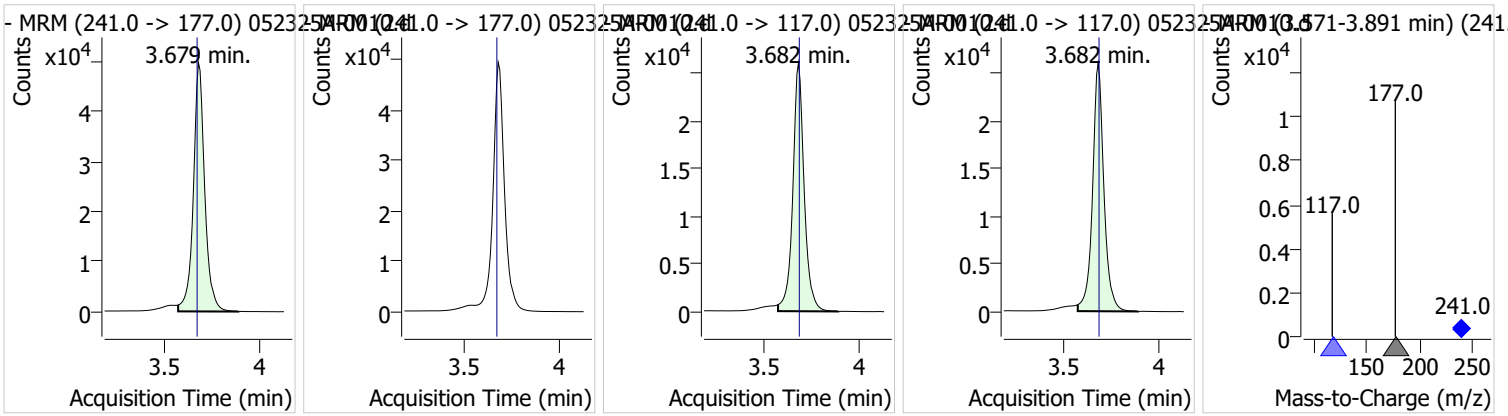
13C4-PFOS_ISTD



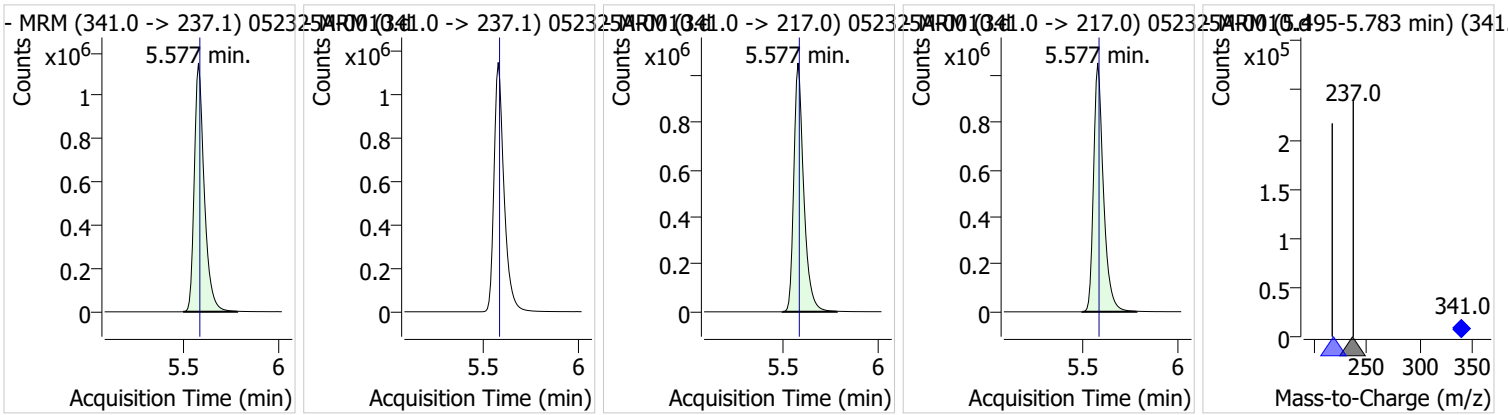
13C3-PFBA



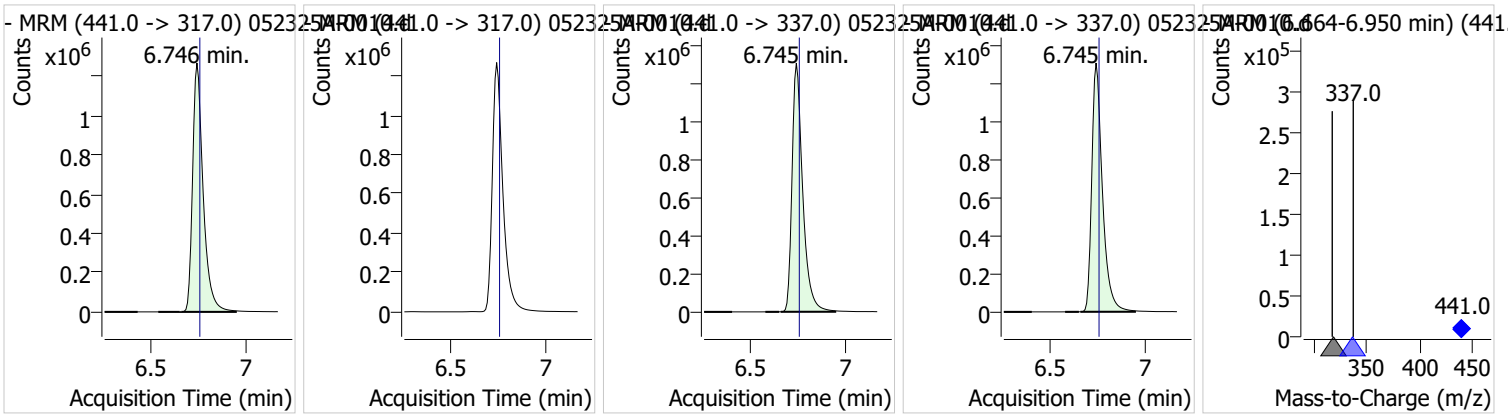
3:3FTCA



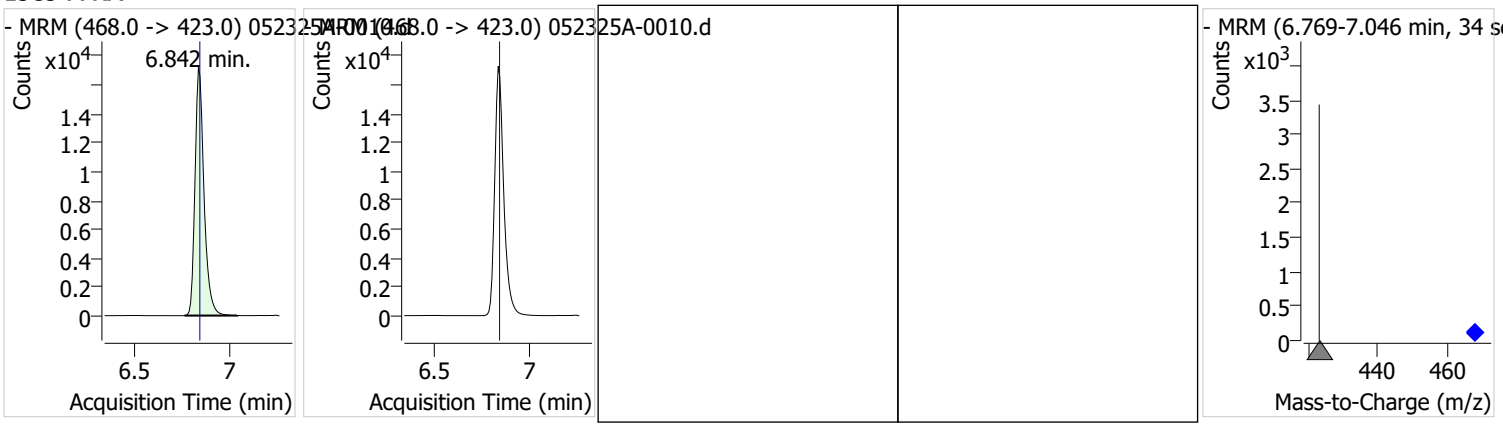
5:3FTCA



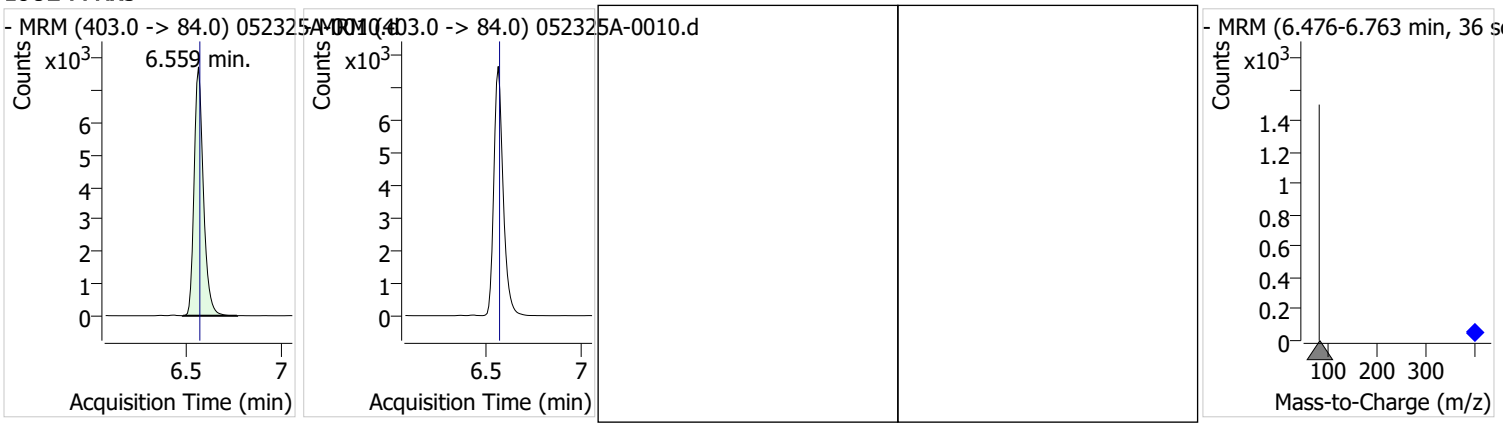
7:3FTCA



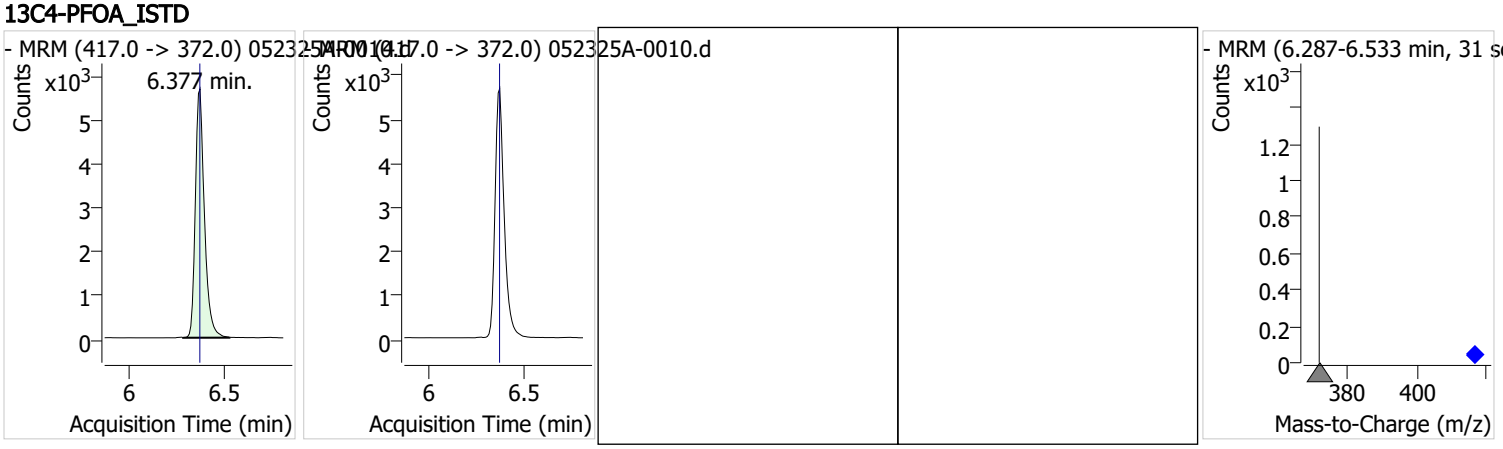
13C5-PFNA



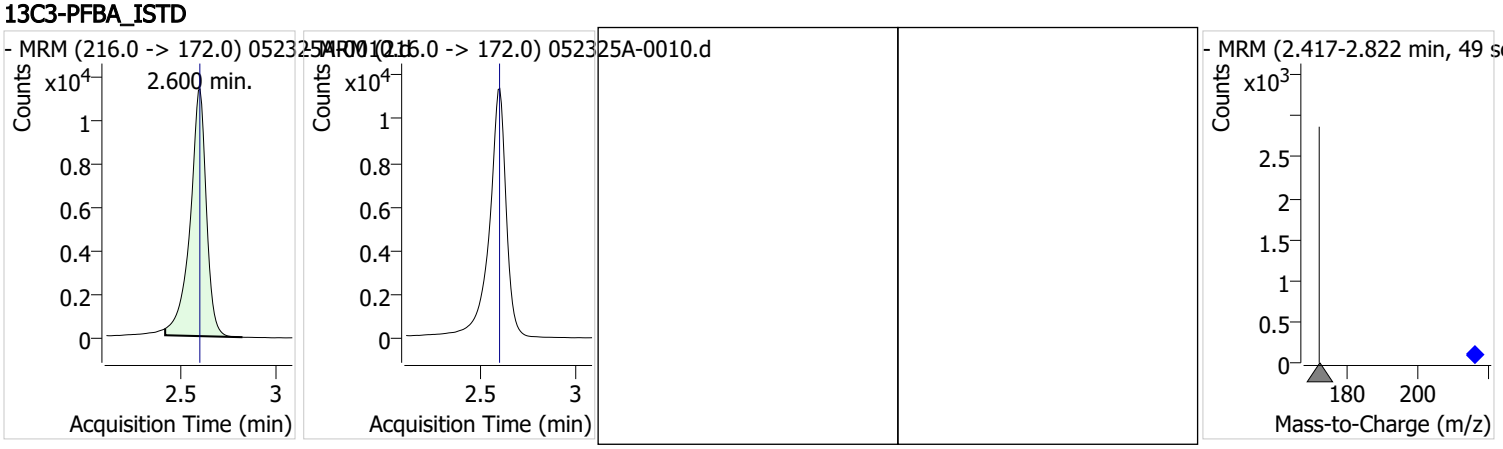
18O2-PFHxS



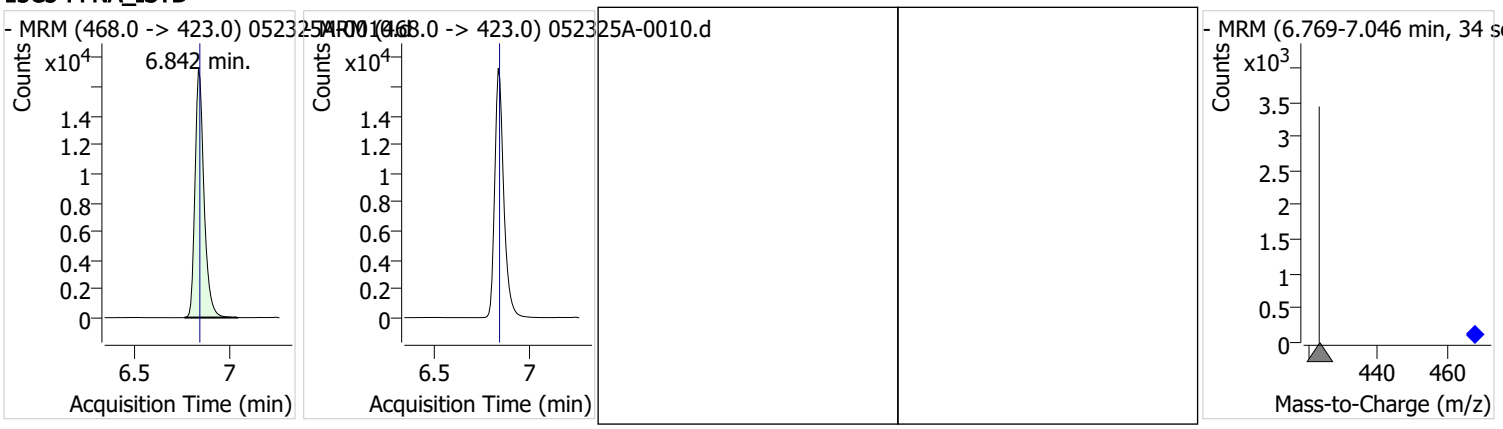
13C4-PFOA_ISTD



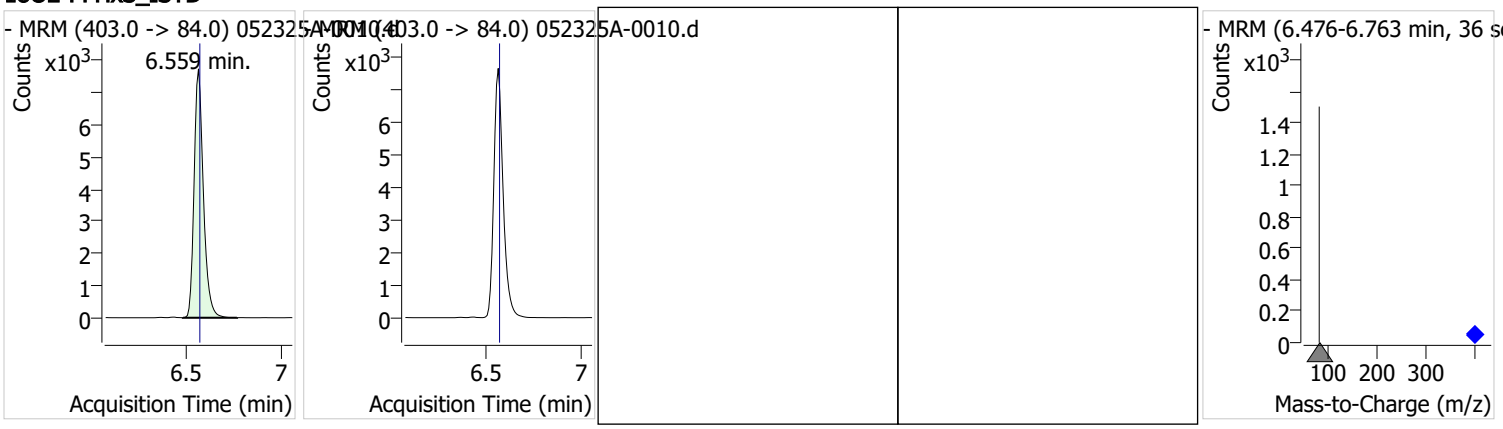
13C3-PFBA_ISTD



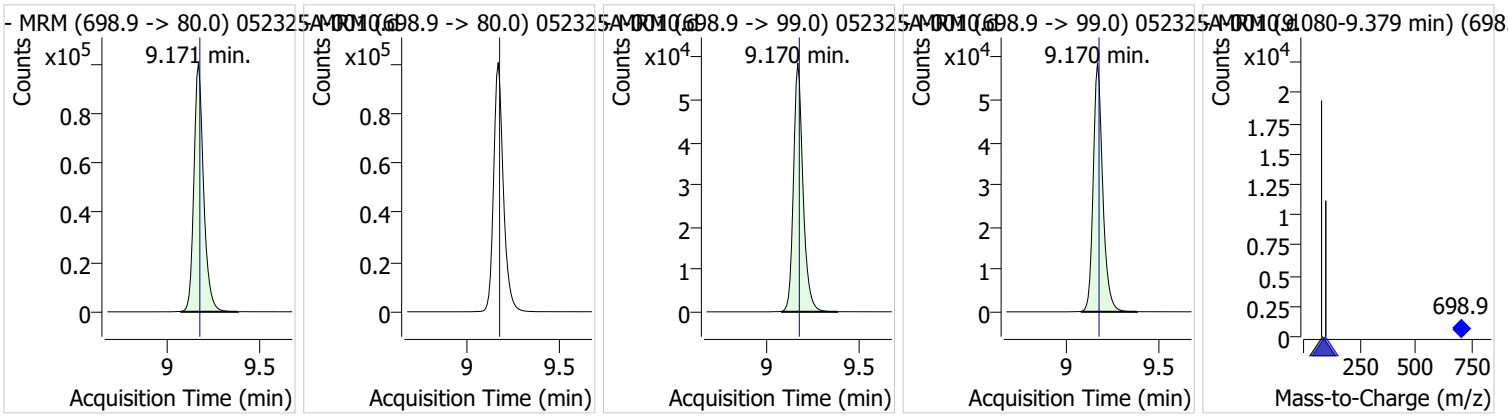
13C5-PFNA_ISTD



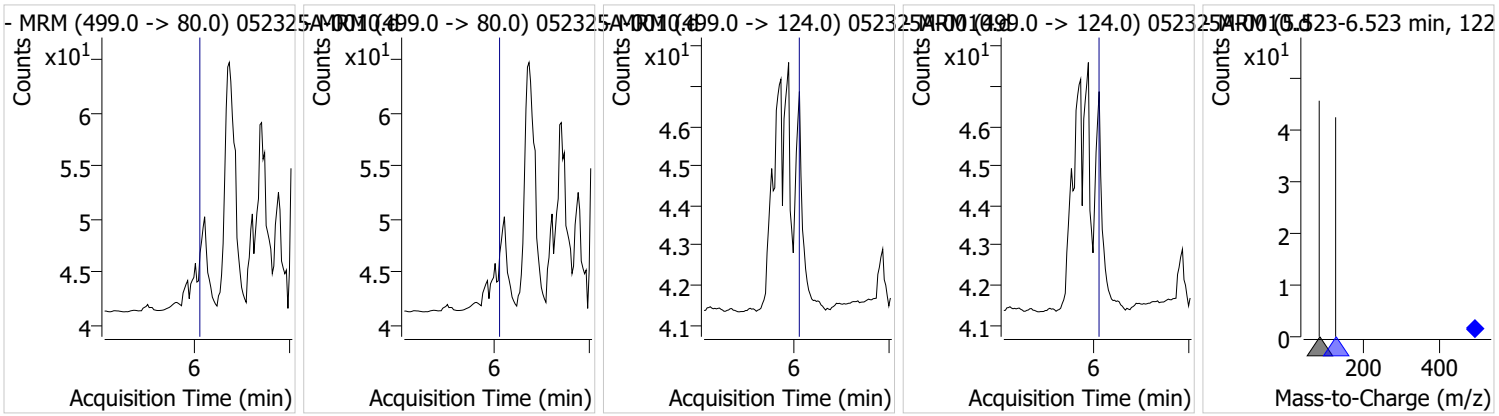
18O2-PFHxS_ISTD



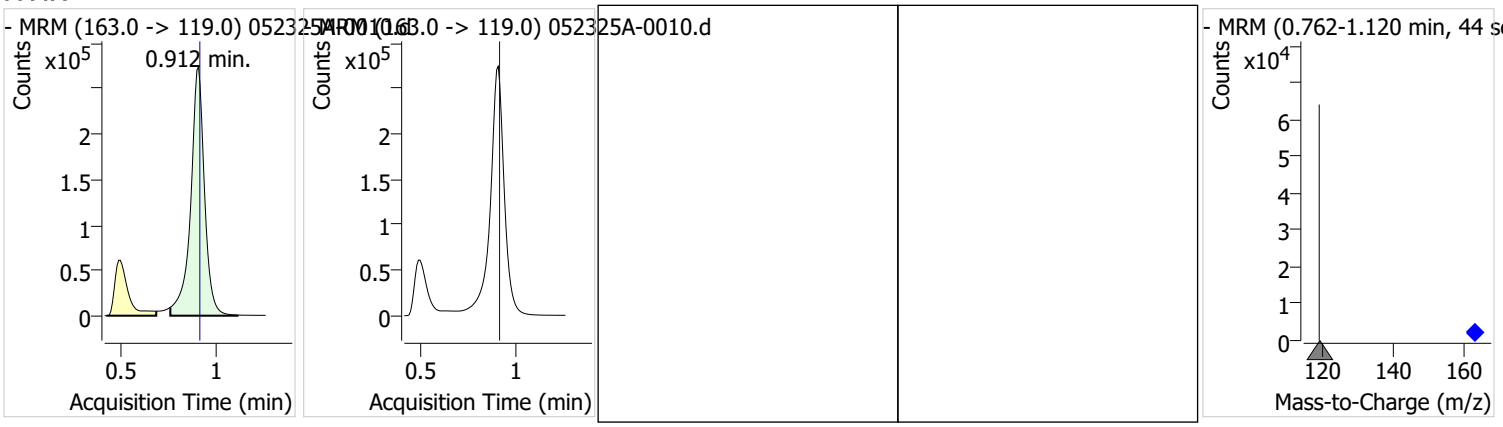
PFDoS



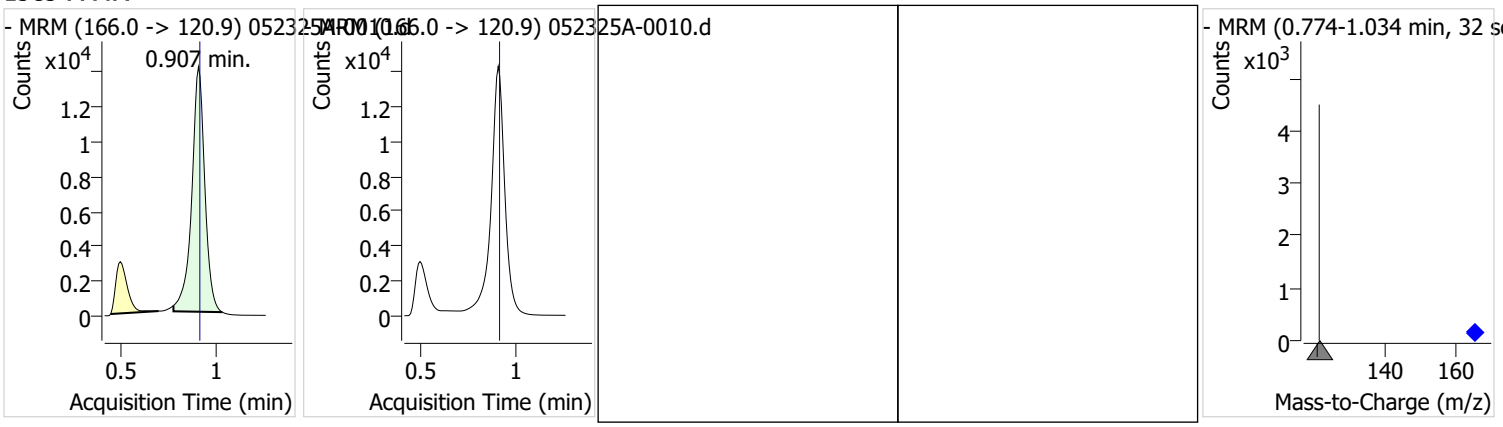
TDCA



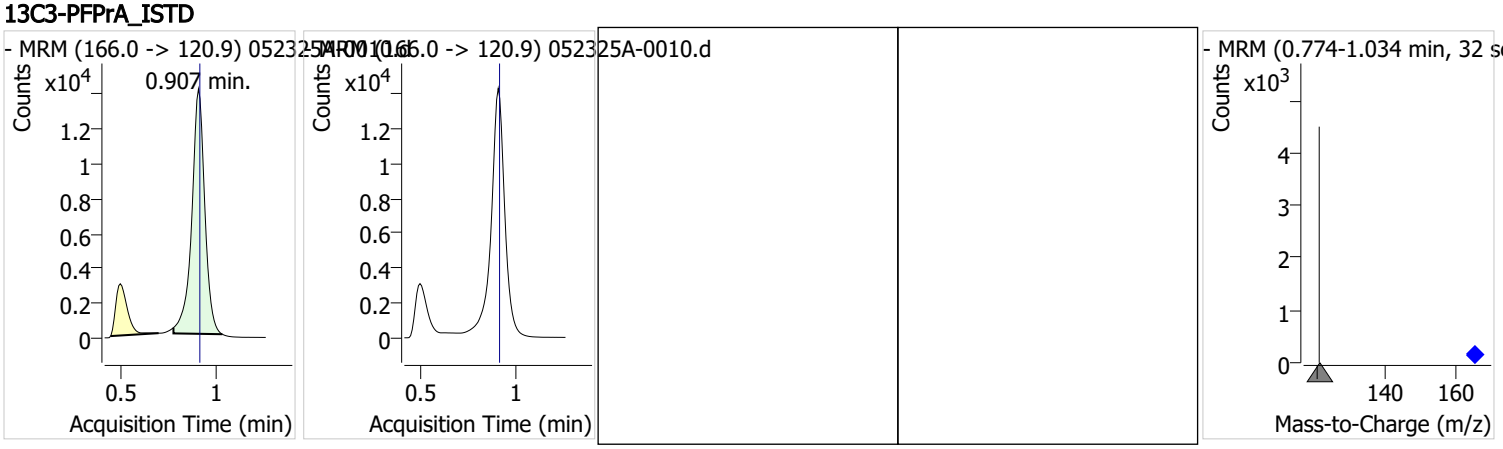
PFPrA



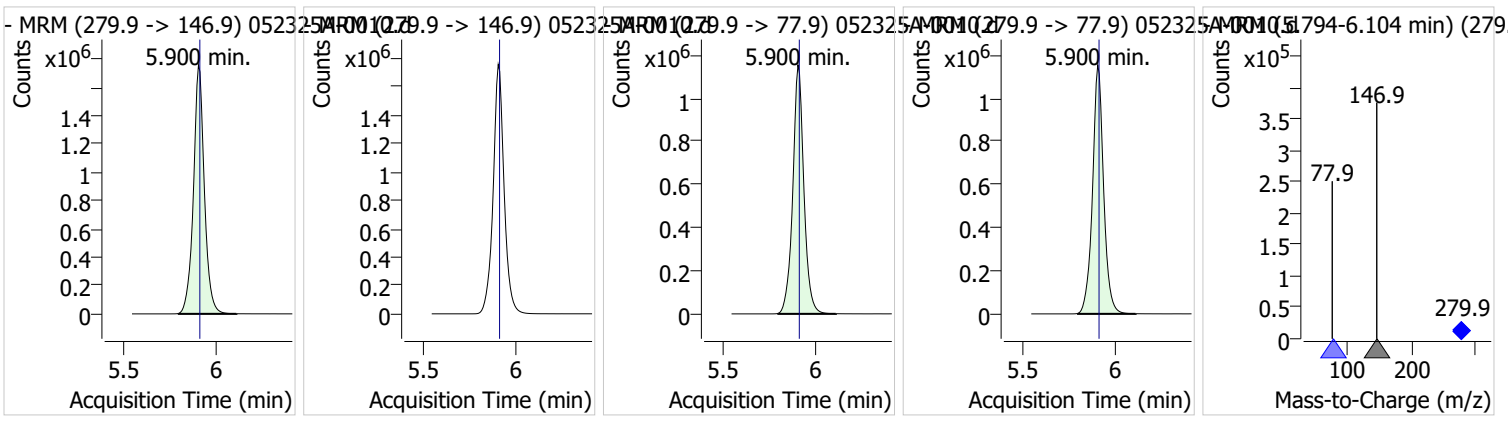
13C3-PFPrA



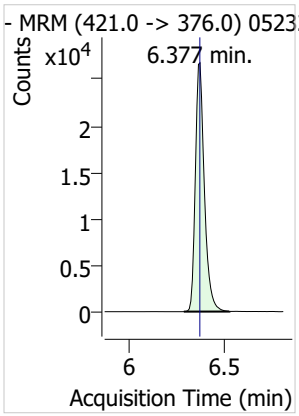
13C3-PFPrA_ISTD

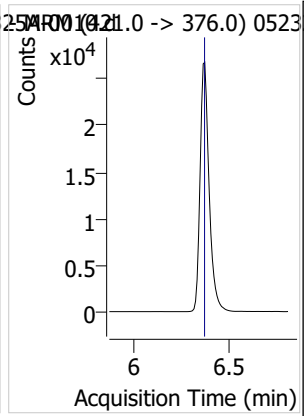


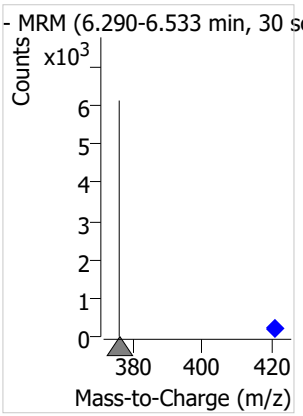
TFSI



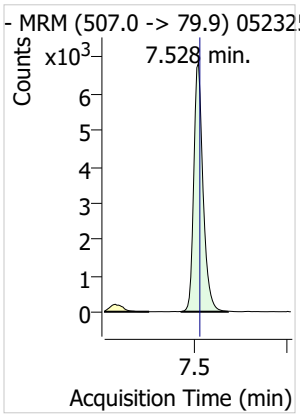
13C8-PFOA

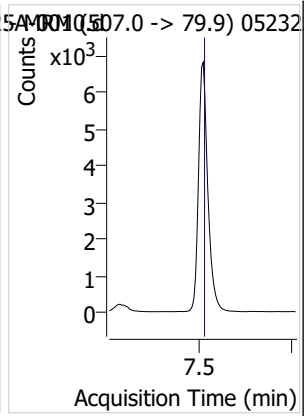


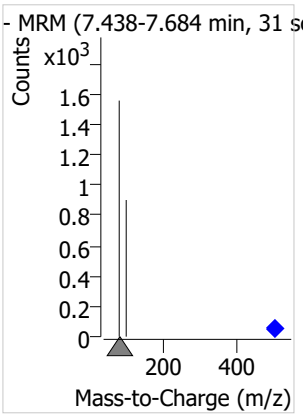




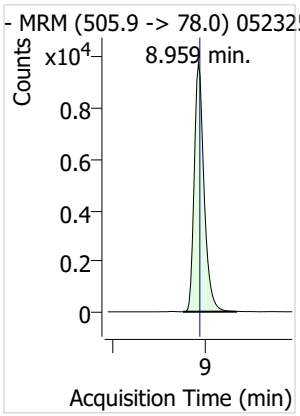
13C8-PFOS

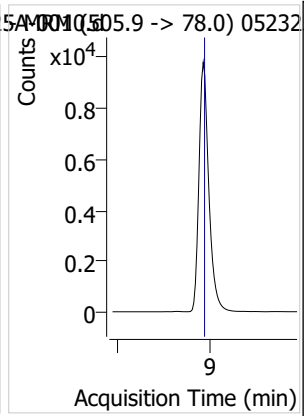


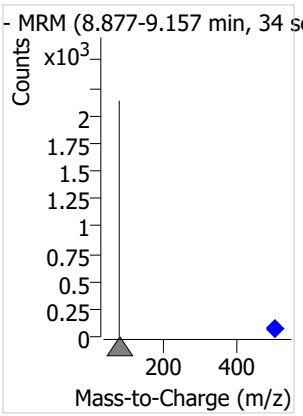




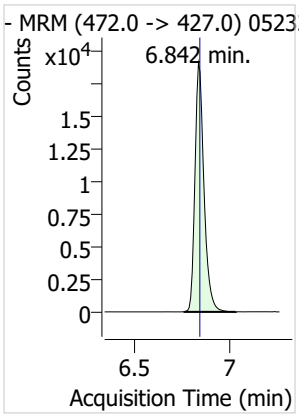
13C8-PFOSA

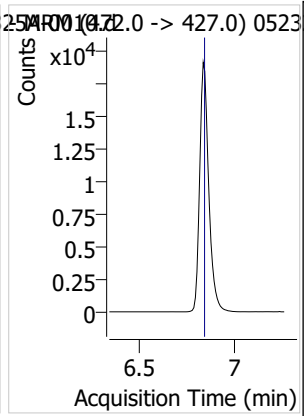


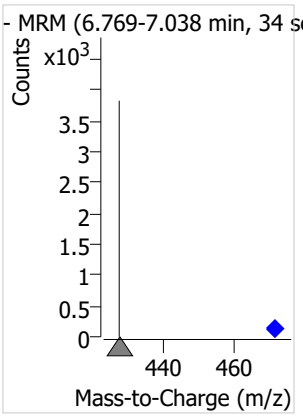




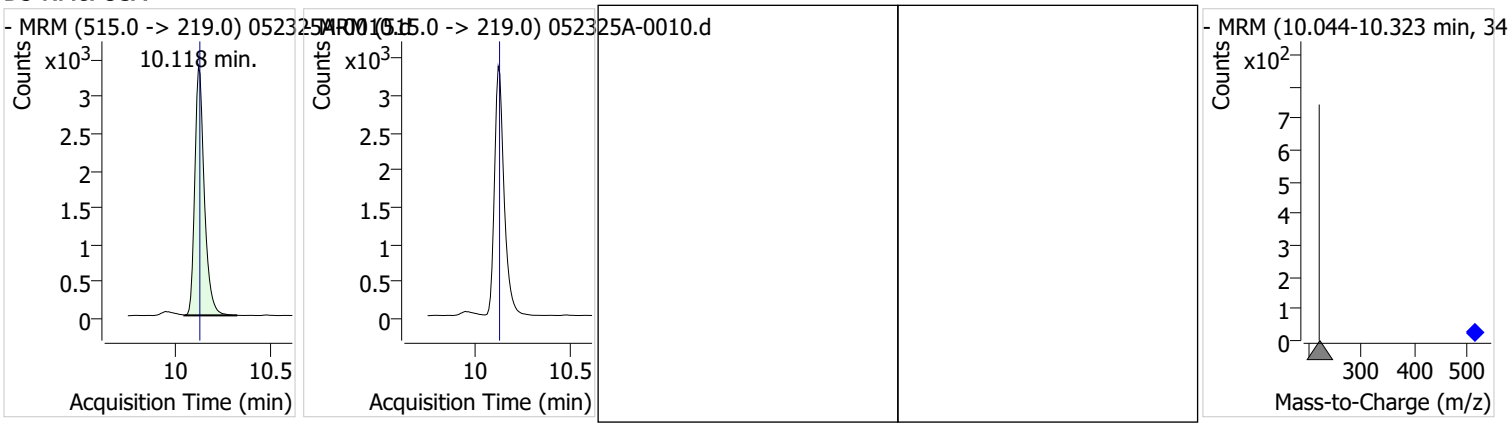
13C9-PFNA



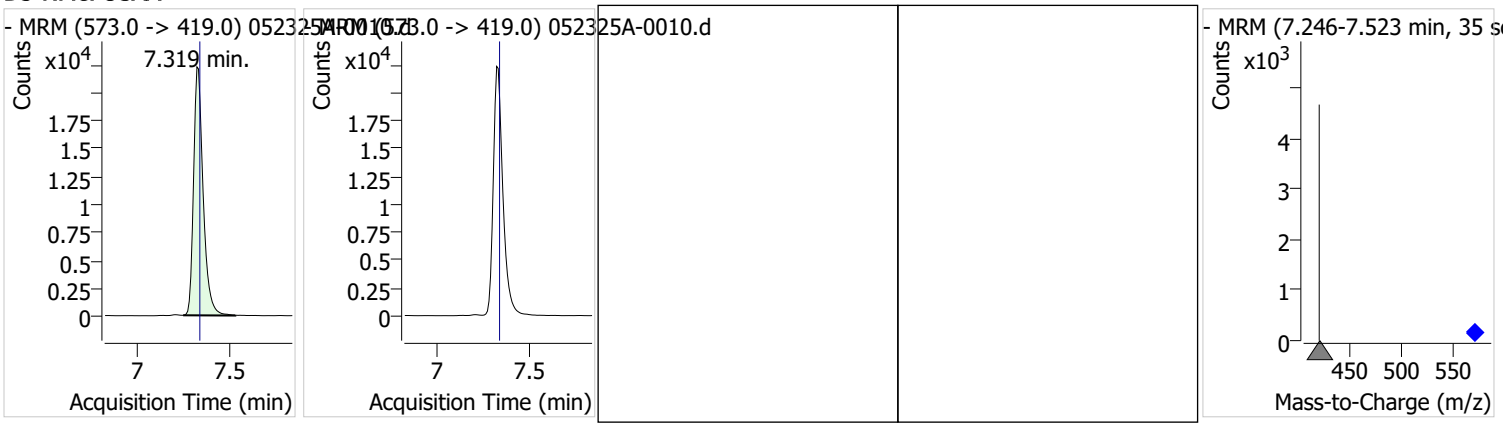




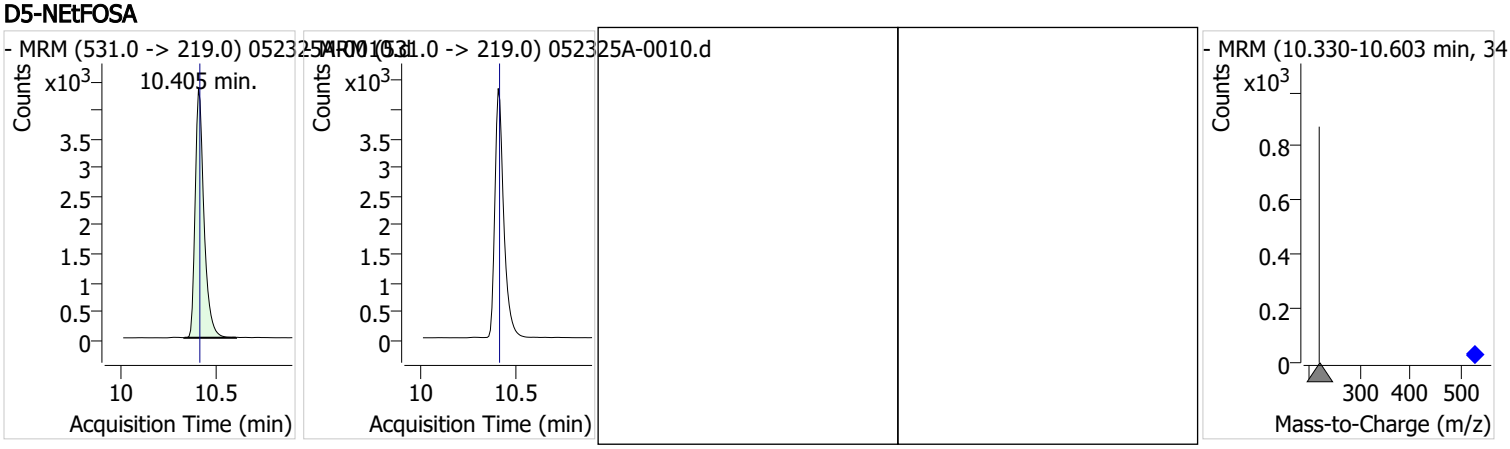
D3-NMeFOSA



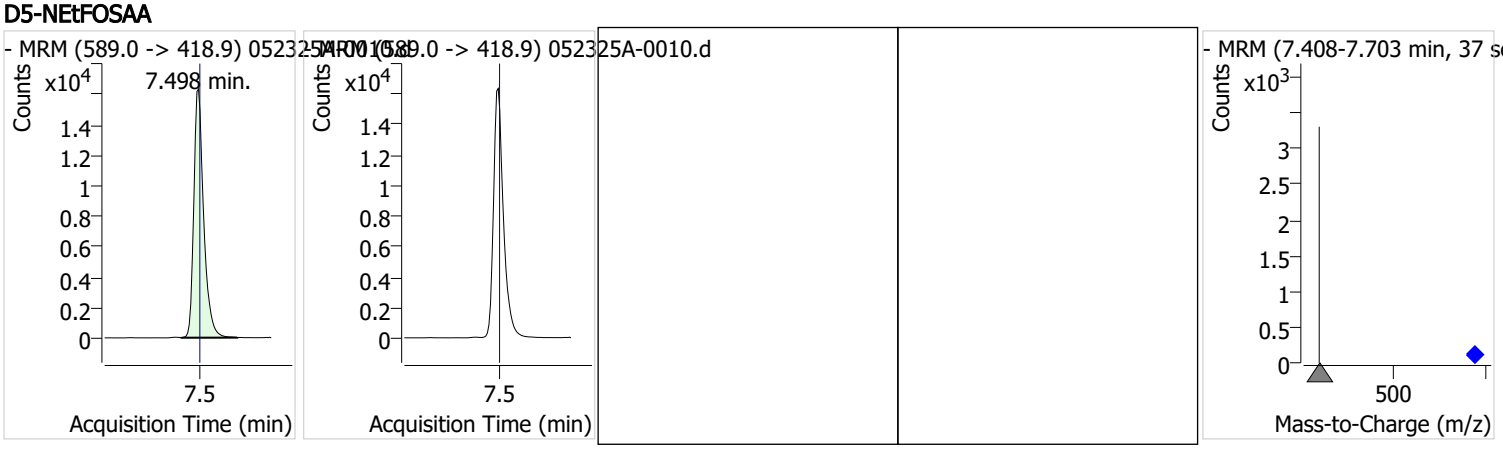
D3-NMeFOSAA



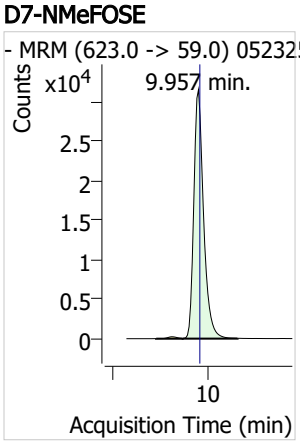
D5-NEtFOSA

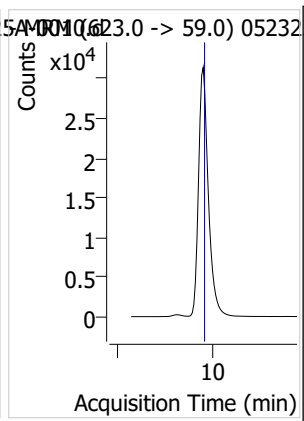


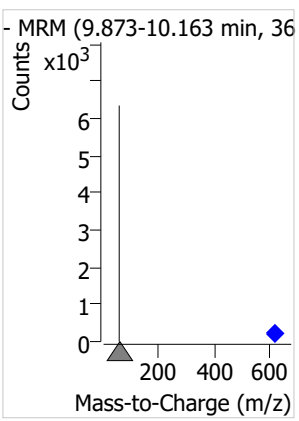
D5-NEtFOSAA



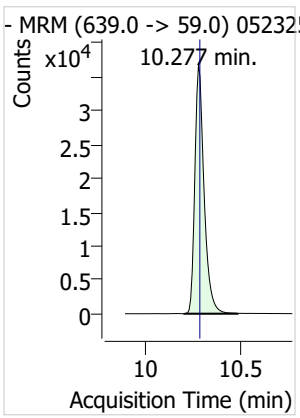
D7-NMeFOSE

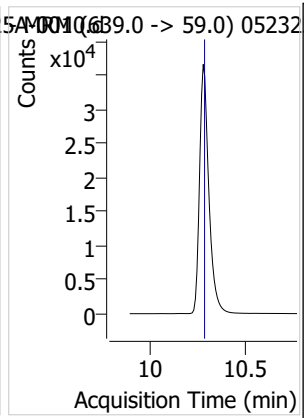


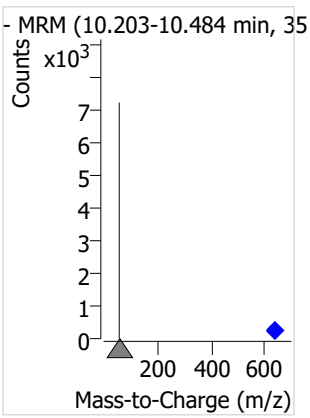




D9-NEtFOSE

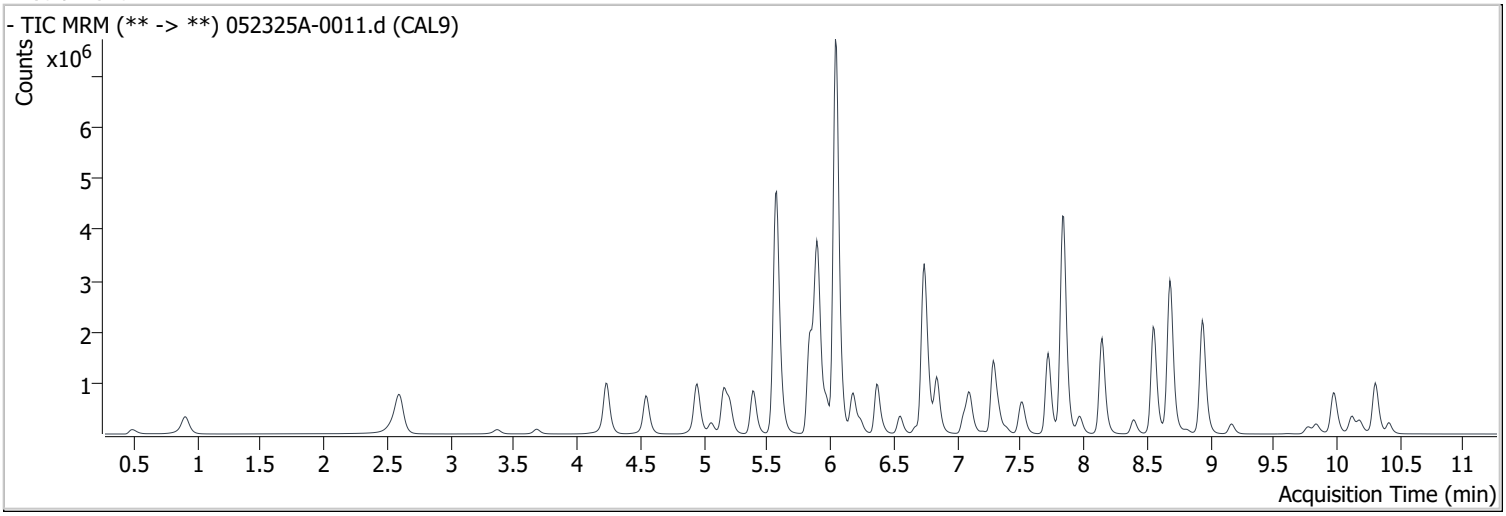






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 12:19 PM	**Data File**	052325A-0011.d
Sample Type	Cal	**Sample Name**	CAL9
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510293	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	1850574	3822968.01		13C3-HFPODA_ISTD	5.394	69644	270.6904	ng/ml			
285.0 -> 184.9	5.394	1061958	7079.27	57.4								
4:2FTS	4.947	2710289	394183.51		13C2-4:2FTS_ISTD	4.946	17537	234.8133	ng/ml			
327.0 -> 80.9	4.947	998985	85239.50	36.9								
6:2FTS	6.180	1686795	4107544.53		13C2-6:2FTS_ISTD	6.180	13119	238.7125	ng/ml			
427.0 -> 80.9	6.181	699304	2881205.19	41.5								
ADONA	6.044	19022742	966489.30		13C4-PFHpA_ISTD	5.839	120188	244.1000	ng/ml			
377.0 -> 85.1	6.044	7286065	204456.46	38.3								
8:2FTS	7.100	1744509	291291.89		13C2-8:2FTS_ISTD	7.100	13853	229.7451	ng/ml			
527.0 -> 81.0	7.101	715873	199956.52	41.0								
13C4-PFBA	2.597	156535	718.64		13C3-PFBA_ISTD	2.592	64069	10.0384	ng/ml			
9Cl-PF3ONS	7.838	12172788	1059179.37		13C8-PFOS_ISTD	7.528	23515	228.9369	ng/ml			
533.0 -> 353.0	7.838	3064929	108077.82	25.2								
11Cl-PF3OUdS	8.685	8699352	2642571.46		13C8-PFOS_ISTD	7.528	23515	233.6841	ng/ml			
633.0 -> 453.0	8.684	2088679	198031.21	24.0								
PFHpS	7.055	858261	25602.46		13C8-PFOS_ISTD	7.528	23515	65.7670	ng/ml			
449.0 -> 98.8	7.064	381679	47107.83	44.5								
13C2-4:2FTS	4.946	17537	4350.69		18O2-PFHxS_ISTD	6.559	24435	4.1679	ng/ml			
13C2-6:2FTS	6.180	13119	26496.22		18O2-PFHxS_ISTD	6.559	24435	4.1383	ng/ml			
13C2-8:2FTS	7.100	13853	75597.08		18O2-PFHxS_ISTD	6.559	24435	4.3534	ng/ml			
13C2-PFDoA	8.146	91386	52414.37		13C2-PFDA_ISTD	7.290	58399	1.2525	ng/ml			
13C2-PFDA	7.290	58399	9166.54					1.2012	ng/ml			
13C2-PFHxA	5.162	72695	4860.15					2.3585	ng/ml			
13C2-PFTeDA	8.936	105172	29830.70		13C2-PFDA_ISTD	7.290	58399	1.2828	ng/ml			
13C4-PFOS	7.529	23421	6761.33					2.1247	ng/ml			
13C3-HFPODA	5.394	69644	698758.81		13C2-PFHxA_ISTD	5.162	72695	8.9667	ng/ml			
13C3-PFBS	5.205	42442	10504.42		18O2-PFHxS_ISTD	6.559	24435	2.5441	ng/ml			
13C3-PFHxS	6.560	28816	53691.18		18O2-PFHxS_ISTD	6.559	24435	2.5509	ng/ml			

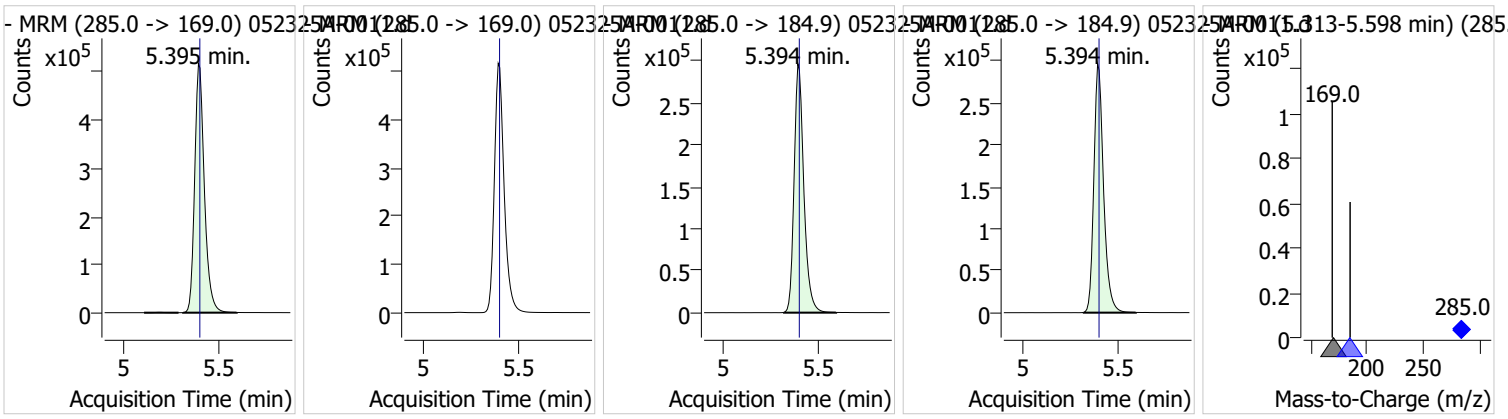
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
NEtFOSAA	7.434	806481	3608.80		D5-NEtFOSAA_ISTD	7.498	57918	71.5242	ng/ml			
584.0 -> 526.0	7.433	734451	2719.17	91.1								
13C4-PFHpA	5.839	120188	19839.04		13C2-PFHxA_ISTD	5.162	72695	2.3282	ng/ml			
NMeFOSAA	7.247	402364	34555.23		D3-NMeFOSAA_ISTD	7.327	78493	68.9635	ng/ml			
570.0 -> 483.0	7.246	491595	2759.04	122.2								
PFBA	2.594	4479111	734442.06		13C4-PFBA_ISTD	2.597	156535	287.1403	ng/ml			
13C5-PFHxA	5.161	78696	7237.79		13C2-PFHxA_ISTD	5.162	72695	2.4386	ng/ml			
PFBS	5.205	1410907	75423.24		13C3-PFBS_ISTD	5.205	42442	63.0306	ng/ml			
298.9 -> 98.8	5.205	496930	13856.24	35.2								
NMeFOSA	10.073	393188	5367.52		D3-NMeFOSA_ISTD	10.118	12217	67.6123	ng/ml			
512.0 -> 169.0	10.074	550317	5697.29	140.0								
PFDA	7.290	3859517	1146429.19		13C6-PFDA_ISTD	7.289	63883	73.8328	ng/ml			
513.0 -> 219.0	7.290	703552	209689.06	18.2								
PFDoA	8.146	5739815	253956.15		13C2-PFDoA_ISTD	8.146	91386	69.7334	ng/ml			
613.0 -> 319.0	8.147	639652	50692.80	11.1								
NEtFOSA	10.377	494390	2548.65		D5-NEtFOSA_ISTD	10.405	13682	73.8635	ng/ml			
526.0 -> 169.0	10.377	652775	2136.05	132.0								
PFHpA	5.839	4053074	28658.94		13C4-PFHpA_ISTD	5.839	120188	75.1716	ng/ml			
362.9 -> 169.0	5.839	677912	18652.58	16.7								
PFHxA	5.163	2605047	14106.18		13C5-PFHxA_ISTD	5.161	78696	70.9547	ng/ml			
313.0 -> 118.9	5.163	85577	10795.95	3.3								
NMeFOSE	9.899	3828129	3914.16		D7-NMeFOSE_ISTD	9.957	111363	698.3203	ng/ml			
PFHxS	6.498	921805	11606.49		13C3-PFHxS_ISTD	6.560	28816	63.3134	ng/ml			
398.9 -> 99.0	6.498	416088	10198.27	45.1								
PFNA	6.789	3057582	10422.29		13C9-PFNA_ISTD	6.842	61210	71.3818	ng/ml			
463.0 -> 219.0	6.789	943559	5808.43	30.9								
NEtFOSE	10.249	4588573	1989.86		D9-NEtFOSE_ISTD	10.277	122456	691.6087	ng/ml			
PFOA	6.300	3018492	9050.00		13C8-PFOA_ISTD	6.368	88924	71.8605	ng/ml			
413.0 -> 169.0	6.300	896358	7245.96	29.7								
PFOS	7.399	873795	9399.83		13C8-PFOS_ISTD	7.528	23515	62.8566	ng/ml			
499.0 -> 99.0	7.402	410829	8363.94	47.0								
PFPeA	4.231	3836488	11086.45		13C5-PFPeA_ISTD	4.229	118038	144.3672	ng/ml			
PFMPA	3.377	403297	84238.51		13C4-PFBA_ISTD	2.597	156535	148.9386	ng/ml			
13C5-PFPeA	4.229	118038	3979.47		13C2-PFHxA_ISTD	5.162	72695	4.5848	ng/ml			
PFMBA	4.547	2882721	8922.08		13C5-PFPeA_ISTD	4.229	118038	147.0420	ng/ml			
PFTrDA	8.550	6760187	172111.52		13C2-PFDoA_ISTD	8.146	91386	70.3326	ng/ml			
663.0 -> 168.9	8.551	543514	78800.33	8.0								
PFEESA	5.570	7349426	361809.84		13C5-PFHxA_ISTD	5.161	78696	116.8296	ng/ml			
315.0 -> 83.0	5.571	512772	16142.87	7.0								
13C6-PFDA	7.289	63883	4889.17		13C2-PFDA_ISTD	7.290	58399	1.1617	ng/ml			
NFDHA	5.066	559560	2637643.43		13C5-PFHxA_ISTD	5.161	78696	131.4425	ng/ml			
295.0 -> 85.0	5.067	192068	69016.34	34.3								
PFOSA	8.899	1110017	3719.81		13C8-PFOSA_ISTD	8.959	35788	70.5133	ng/ml			
497.9 -> 478.0	8.902	30610	1987.35	2.8								
13C7-PFUnA	7.721	74098	21833.57		13C2-PFDA_ISTD	7.290	58399	1.2065	ng/ml			
13C4-PFOA	6.369	19291	23604.54					2.3331	ng/ml			
PFDS	8.398	650503	29687.05		13C8-PFOS_ISTD	7.528	23515	65.7838	ng/ml			
599.0 -> 98.8	8.397	325689	92252.57	50.1								
PFNS	7.969	801089	68302.40		13C8-PFOS_ISTD	7.528	23515	65.8986	ng/ml			
549.0 -> 98.8	7.968	353856	99623.80	44.2								

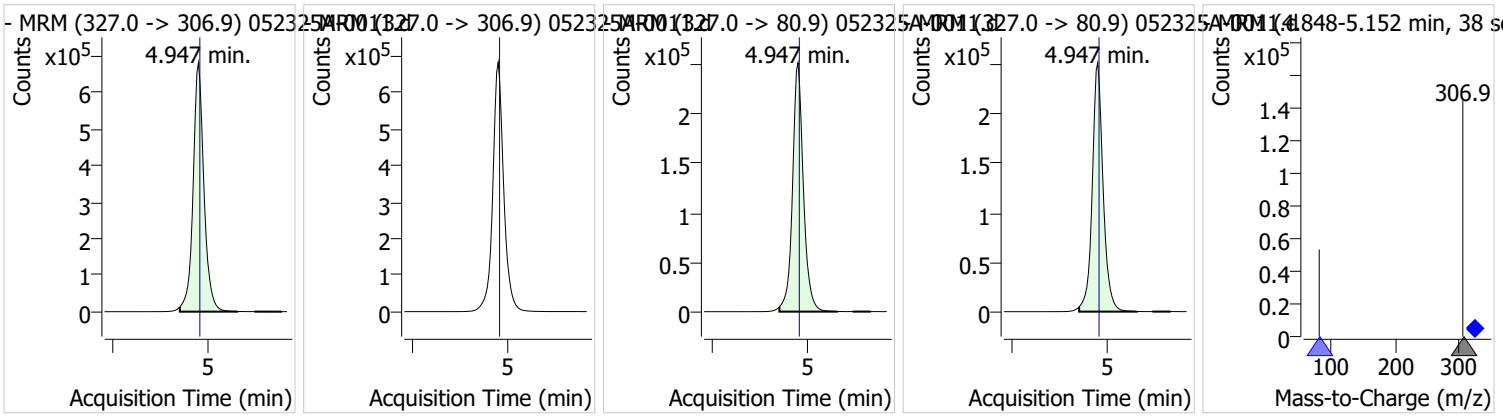
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFPeS	5.980	1188867	343063.92		13C3-PFHxS_ISTD	6.560	28816	65.7832	ng/ml			
349.0 -> 98.9	5.979	521990	150192.76	43.9								
PFTeDA	8.937	6670728	93261.39		13C2-PFTeDA_ISTD	8.936	105172	68.7163	ng/ml			
713.0 -> 168.9	8.938	332768	94199.90	5.0								
PFUnA	7.722	4520480	1335839.42		13C7-PFUnA_ISTD	7.721	74098	73.0526	ng/ml			
563.0 -> 269.1	7.722	734829	216507.14	16.3								
13C3-PFBA	2.592	64069	376.92					4.2188	ng/ml			
3:3FTCA	3.679	258621	2933.24		13C5-PFPeA_ISTD	4.229	118038	386.9185	ng/ml			
241.0 -> 117.0	3.682	135532	1846.23	52.4								
5:3FTCA	5.577	5193058	114776.91		13C5-PFHxA_ISTD	5.161	78696	1768.0916	ng/ml			
341.0 -> 217.0	5.577	4726000	54922.18	91.0								
7:3FTCA	6.746	6028902	1570977.68		13C9-PFNA_ISTD	6.842	61210	1841.1091	ng/ml			
441.0 -> 337.0	6.745	6367944	225538.90	105.6								
13C5-PFNA	6.842	56040	116404.20					1.1850	ng/ml			
18O2-PFHxS	6.559	24435	7150.91					2.1511	ng/ml			
PFDoS	9.171	441744	39697.75		13C8-PFOS_ISTD	7.528	23515	66.4529	ng/ml			
698.9 -> 99.0	9.170	246501	22439.53	55.8								
TDCA	6.023	36943	55615.13		13C8-PFOS_ISTD	7.528	23515	9.8570	ng/ml			
499.0 -> 124.0	6.023	66023	8351.30	178.7								
PFPrA	0.912	1699349	70800.94		13C3-PFPrA_ISTD	0.907	65616	294.7375	ng/ml			
13C3-PFPrA	0.907	65616	4143.32		13C3-PFBA_ISTD	2.592	64069	9.4671	ng/ml			
TFSI	5.900	8980764	99802.96		13C3-HFPODA_ISTD	5.394	69644	124.2134	ng/ml			
279.9 -> 77.9	5.900	6123202	359393.71	68.2								
13C8-PFOA	6.368	88924	27561.28		13C4-PFOA_ISTD	6.369	19291	2.4603	ng/ml			
13C8-PFOS	7.528	23515	2682.41		13C4-PFOS_ISTD	7.529	23421	2.5672	ng/ml			
13C8-PFOSA	8.959	35788	10003.36		13C4-PFOS_ISTD	7.529	23421	2.7172	ng/ml			
13C9-PFNA	6.842	61210	18405.40		13C5-PFNA_ISTD	6.842	56040	1.2362	ng/ml			
D3-NMeFOSA	10.118	12217	636.73		13C4-PFOS_ISTD	7.529	23421	2.9114	ng/ml			
D3-NMeFOSAA	7.327	78493	1163.02		13C4-PFOS_ISTD	7.529	23421	5.3883	ng/ml			
D5-NEtFOSA	10.405	13682	6003.27		13C4-PFOS_ISTD	7.529	23421	2.7123	ng/ml			
D5-NEtFOSAA	7.498	57918	1258.41		13C4-PFOS_ISTD	7.529	23421	5.2352	ng/ml			
D7-NMeFOSE	9.957	111363	612533.77		13C4-PFOS_ISTD	7.529	23421	27.6434	ng/ml			
D9-NEtFOSE	10.277	122456	8843.54		13C4-PFOS_ISTD	7.529	23421	27.3739	ng/ml			

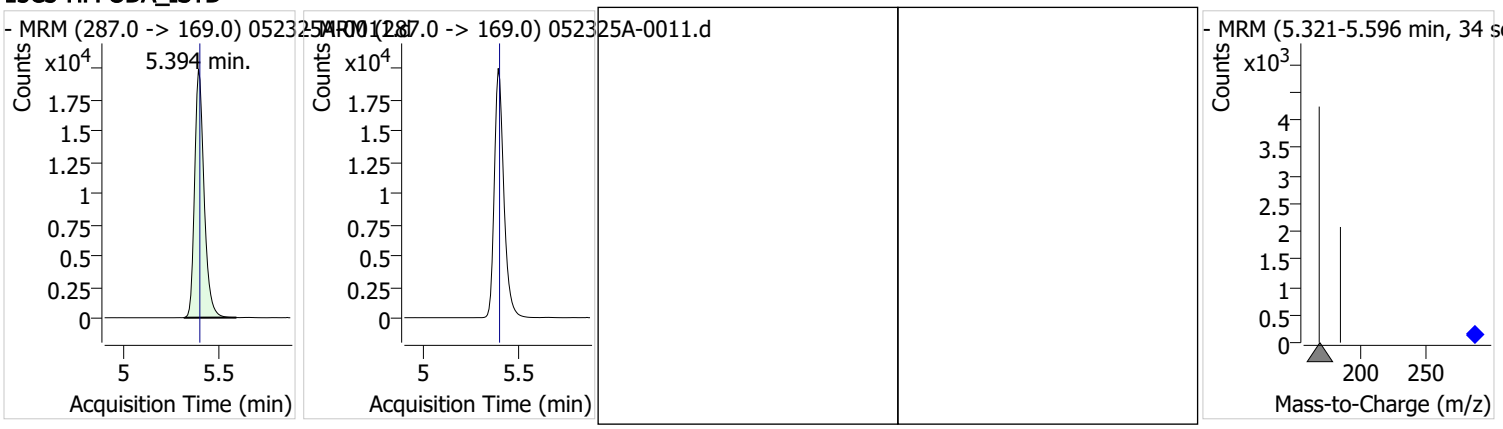
HFPO-DA



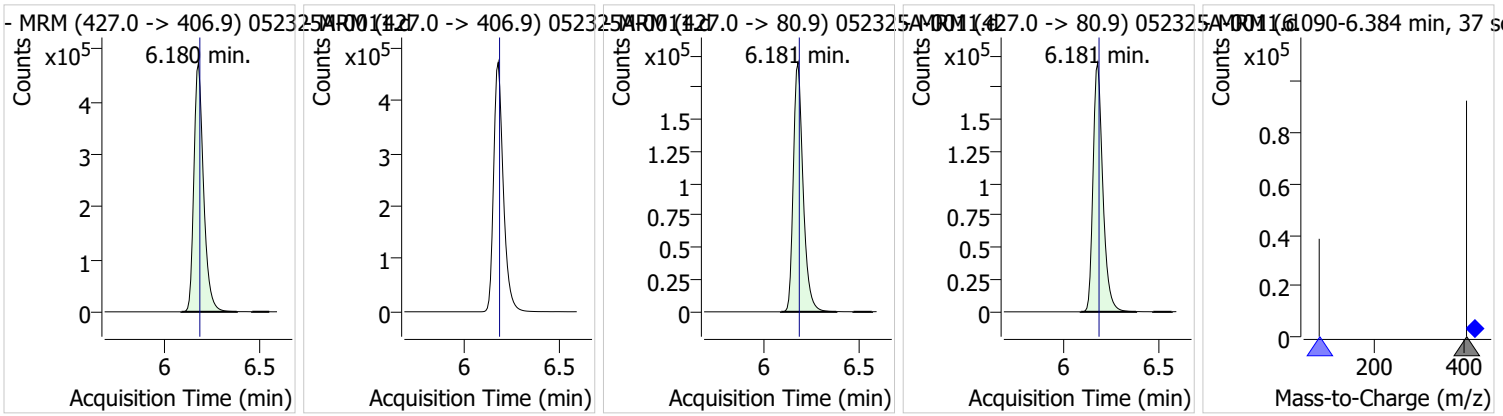
4:2FTS



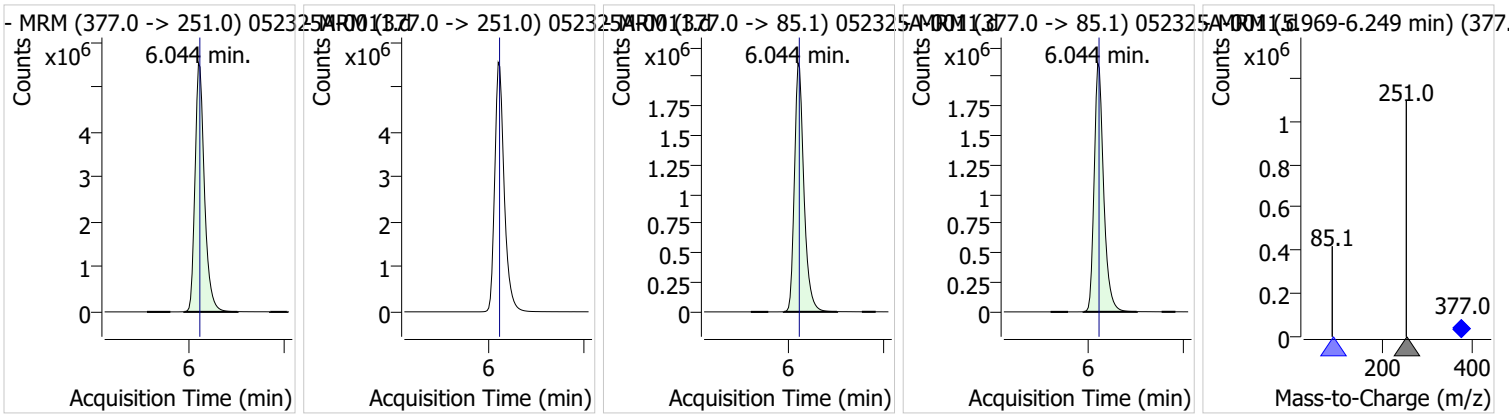
13C3-HFPODA_ISTD



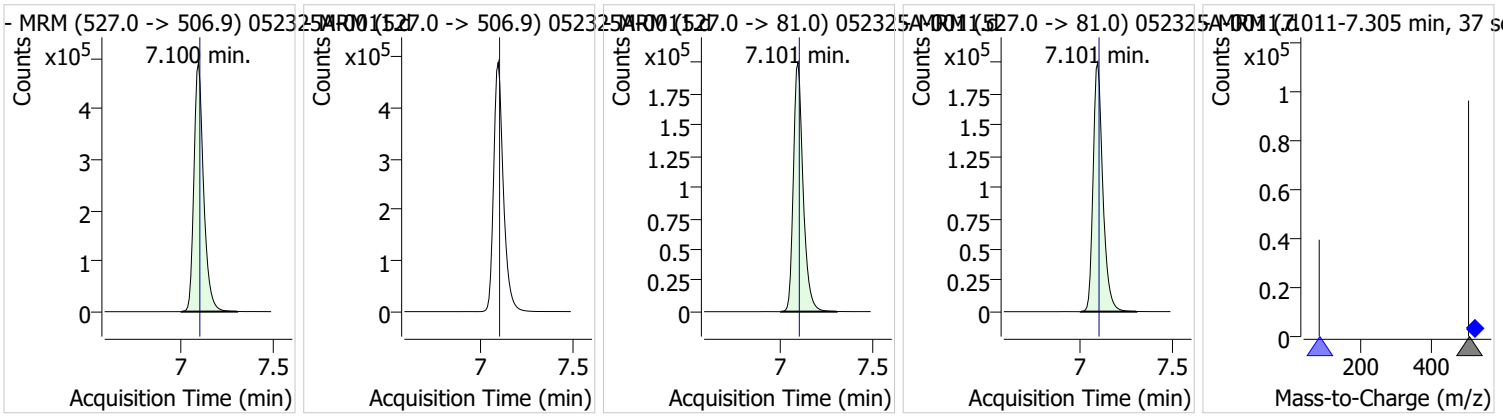
6:2FTS



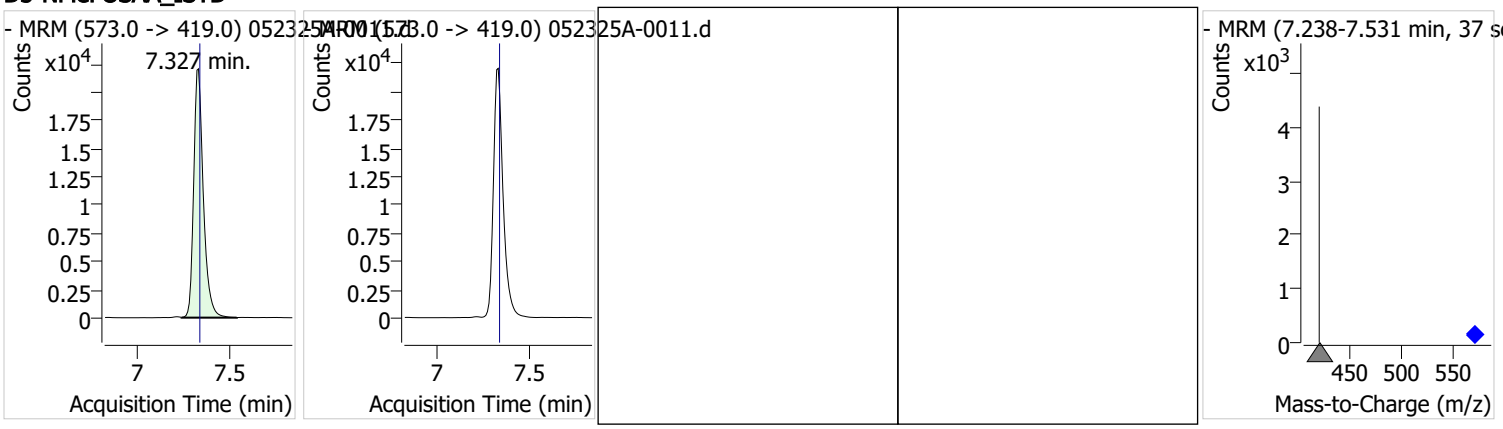
ADONA



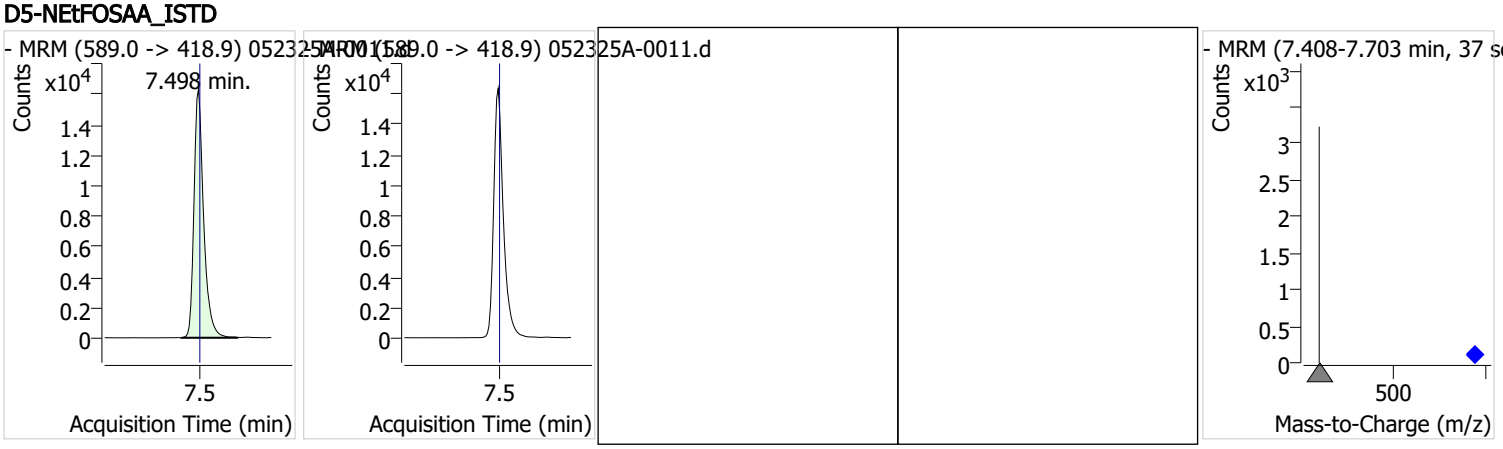
8:2FTS



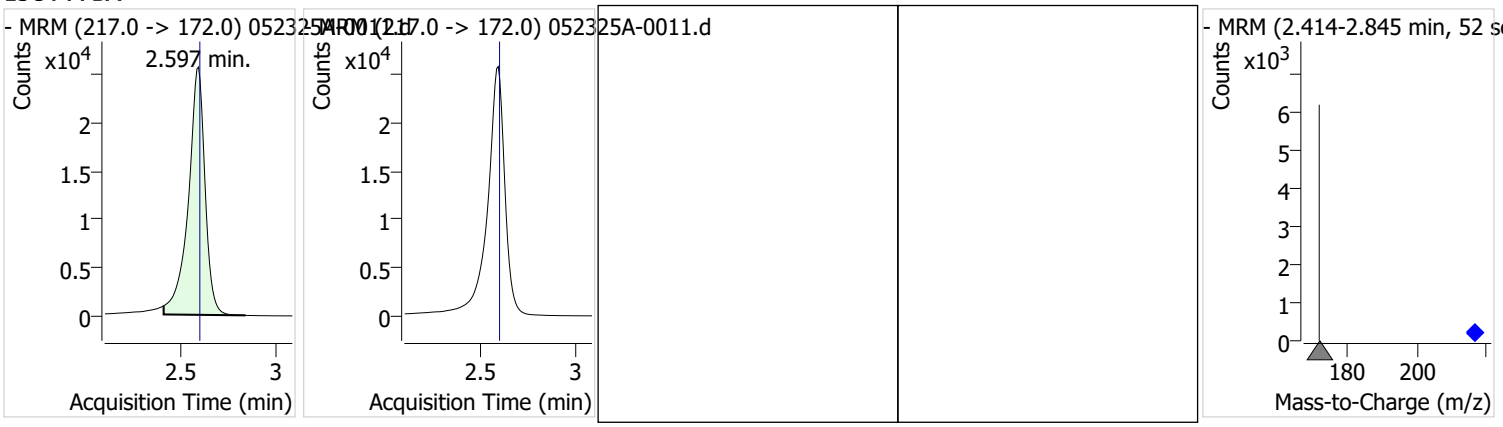
D3-NMeFOSAA_ISTD



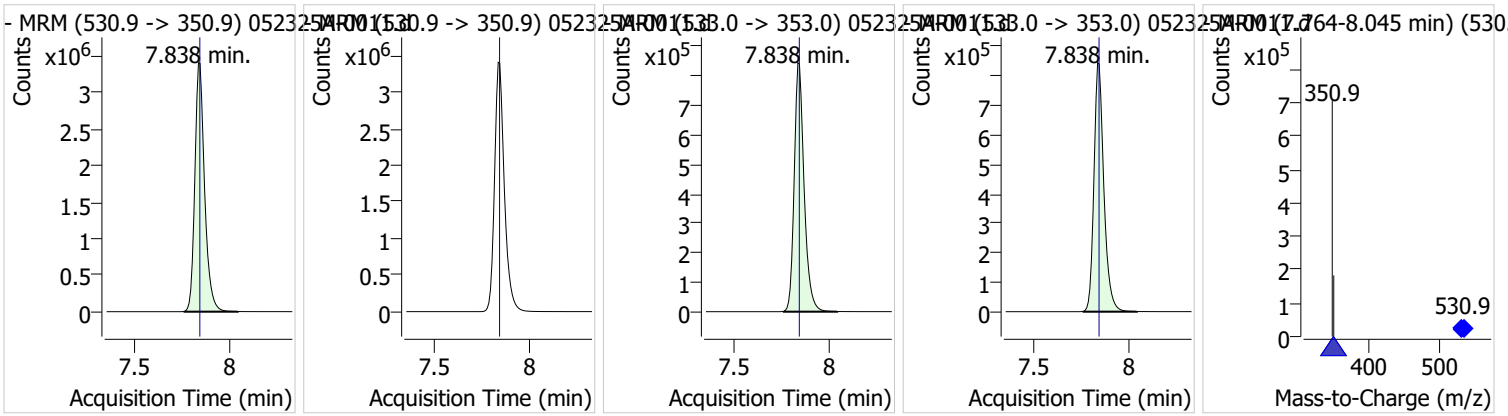
D5-NEtFOSAA_ISTD



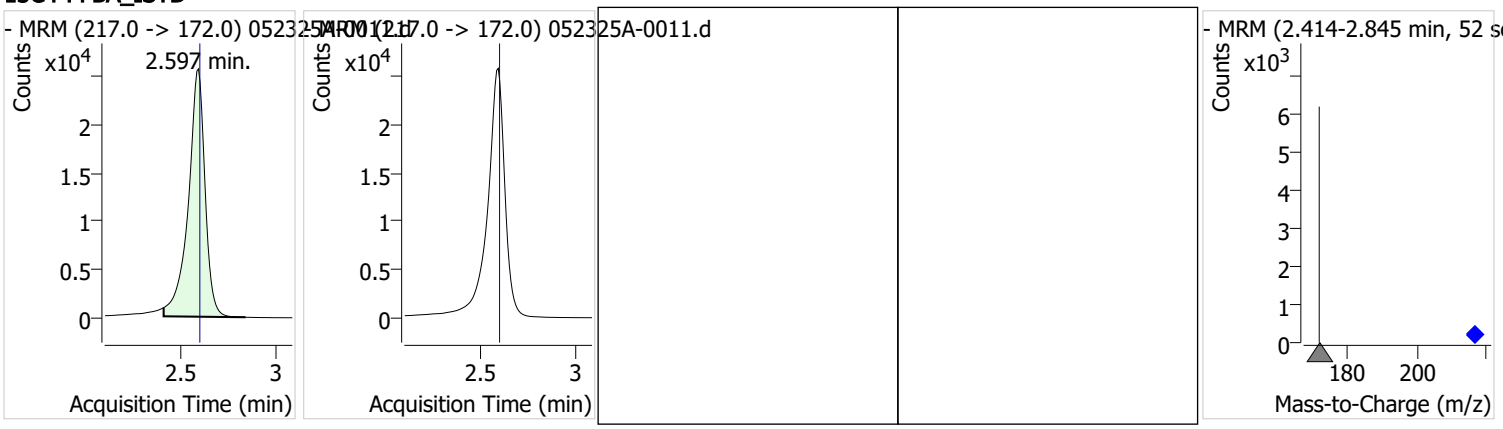
13C4-PFBA



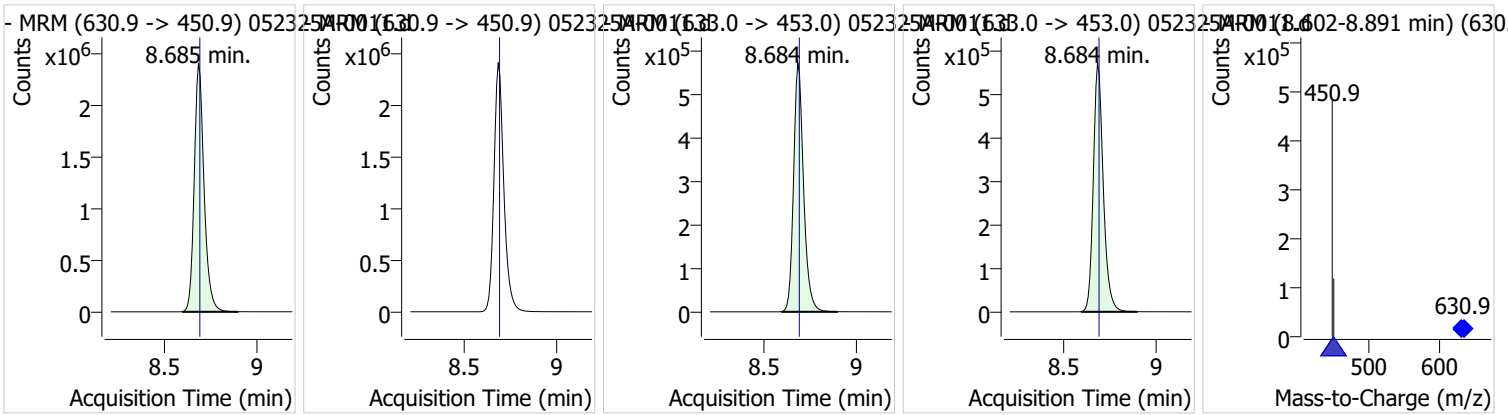
9Cl-PF3ONS



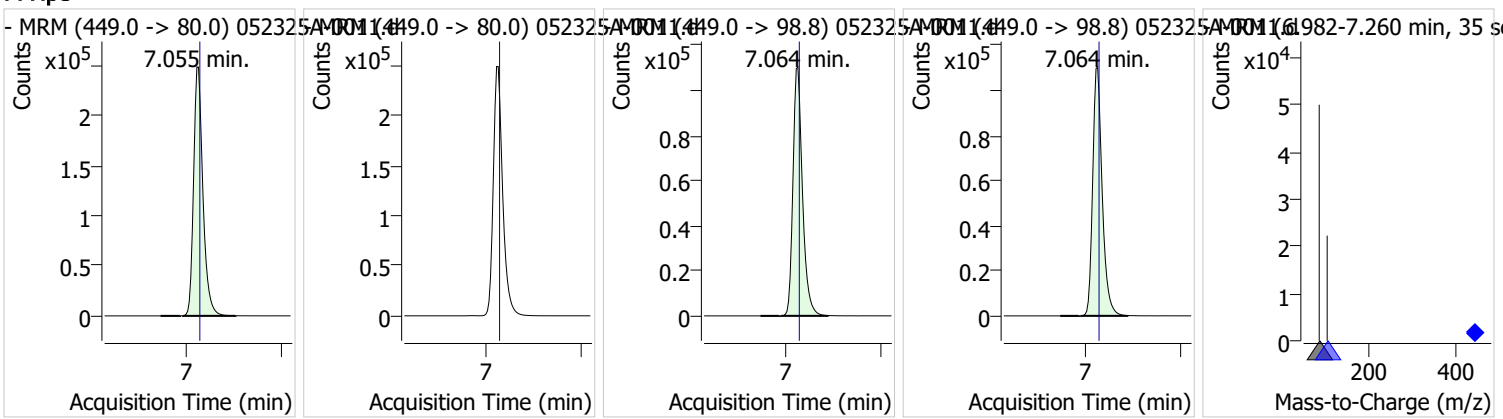
13C4-PFBA_ISTD



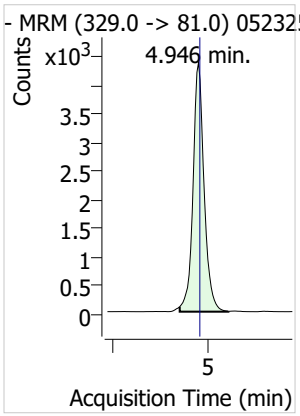
11Cl-PF3OUdS

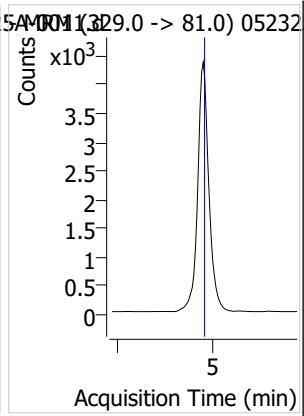


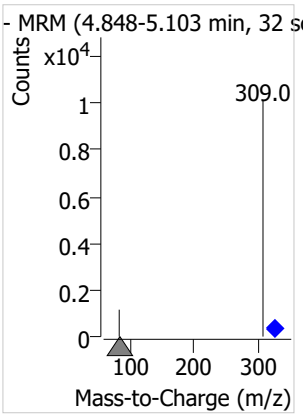
PFHpS



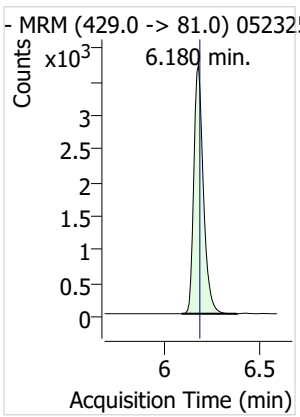
13C2-4:2FTS

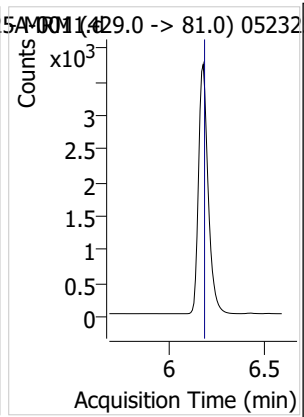


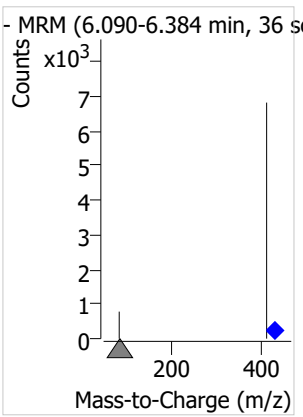




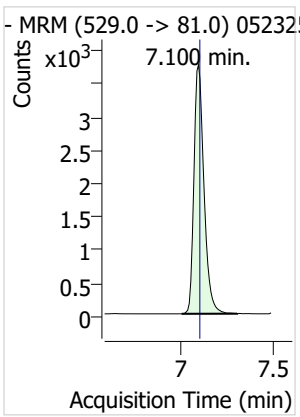
13C2-6:2FTS

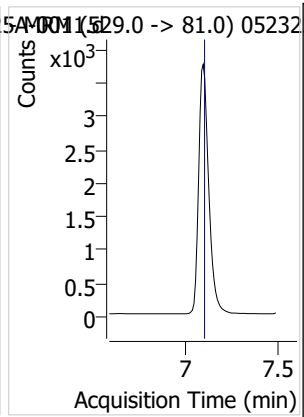


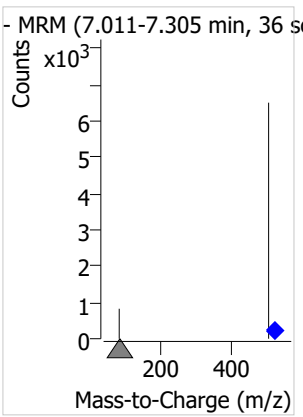




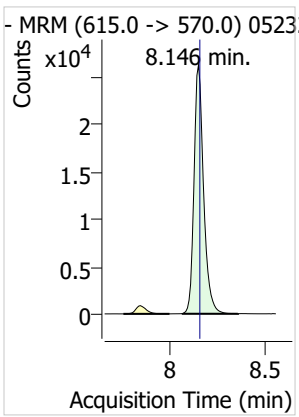
13C2-8:2FTS

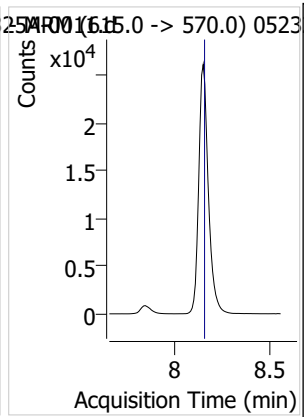


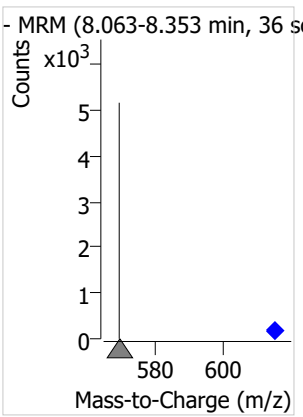




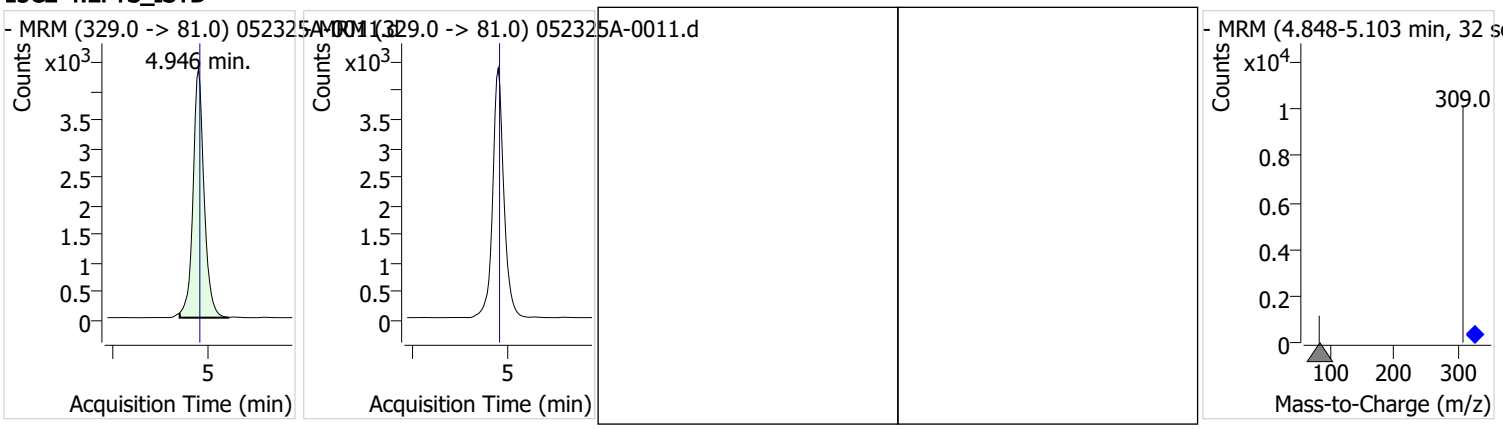
13C2-PFDoA







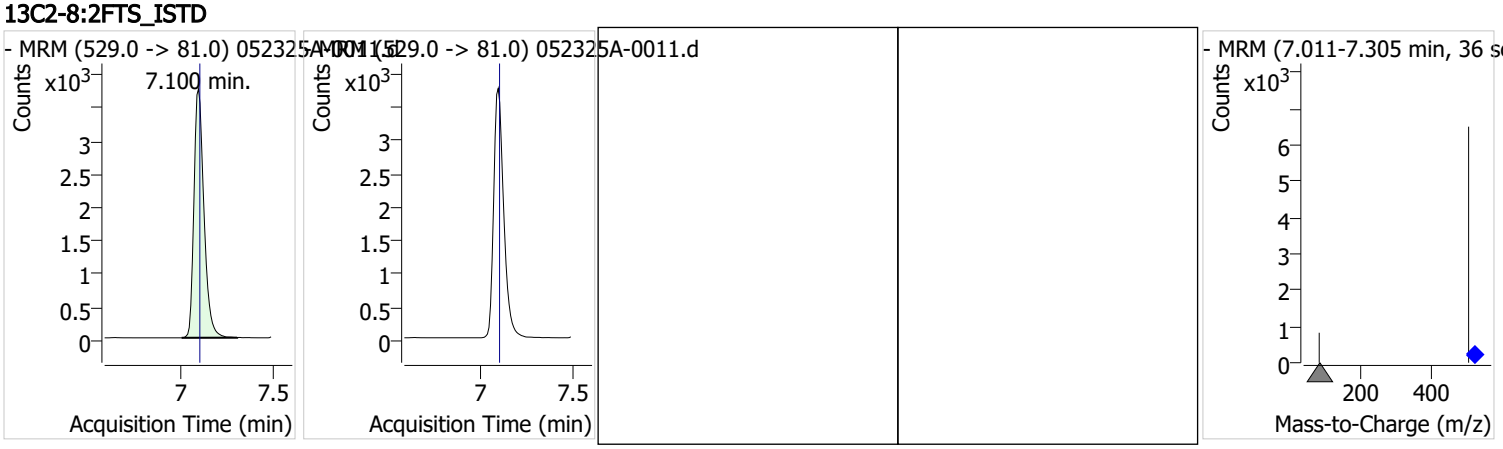
13C2-4:2FTS_ISTD



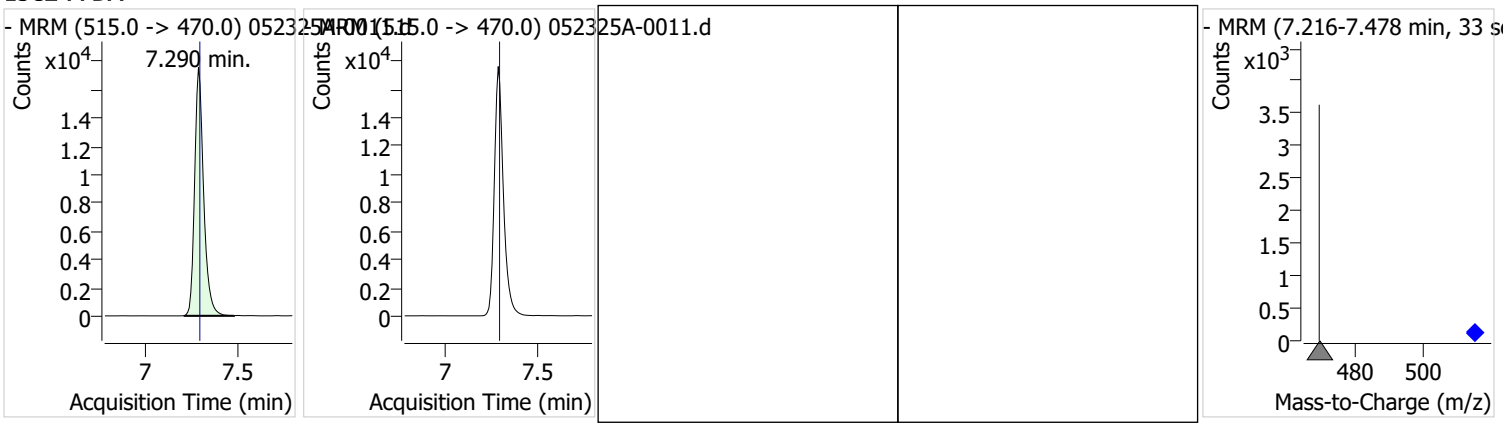
13C2-6:2FTS_ISTD



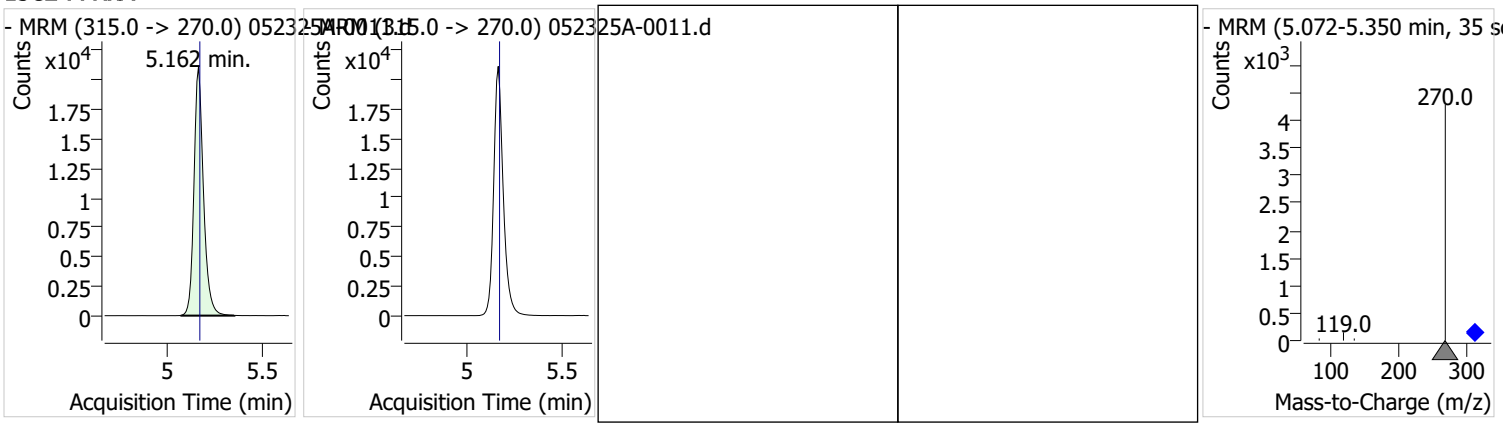
13C2-8:2FTS_ISTD



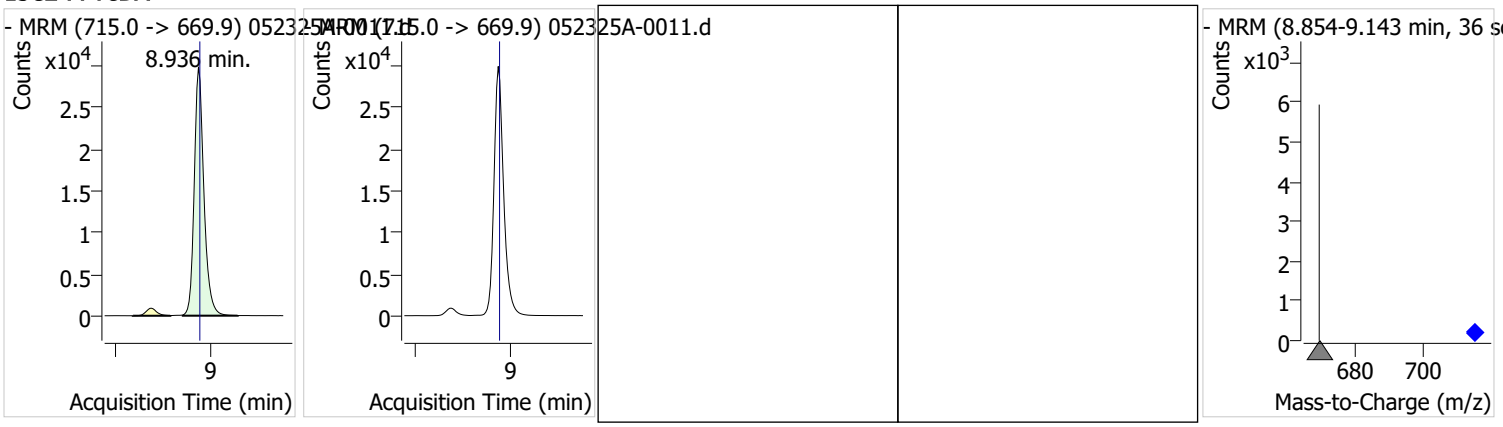
13C2-PFDA



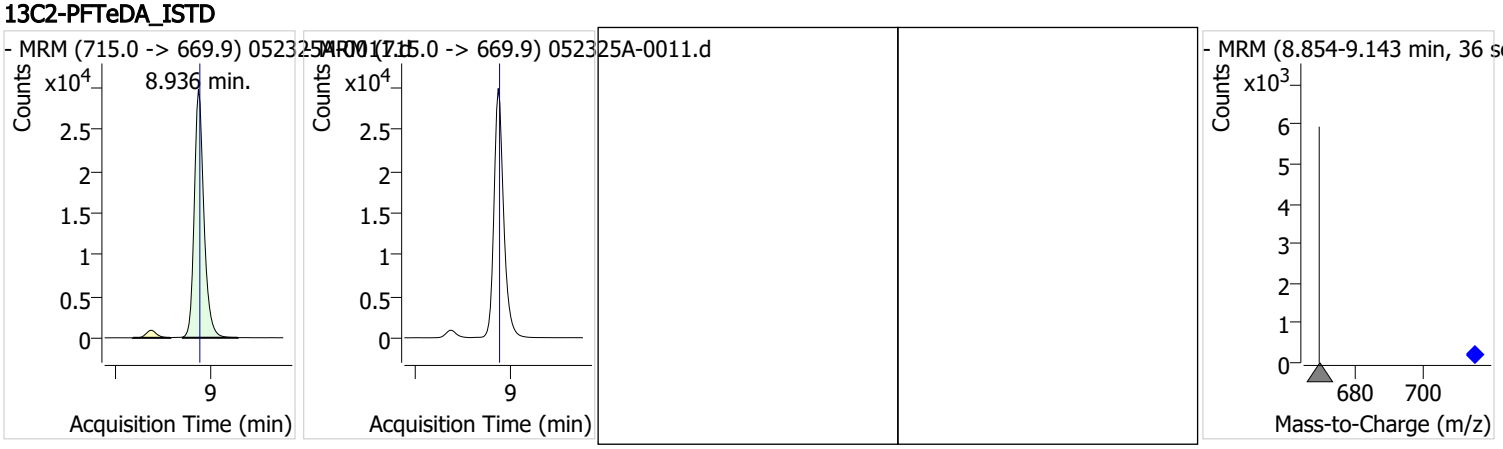
13C2-PFHxA



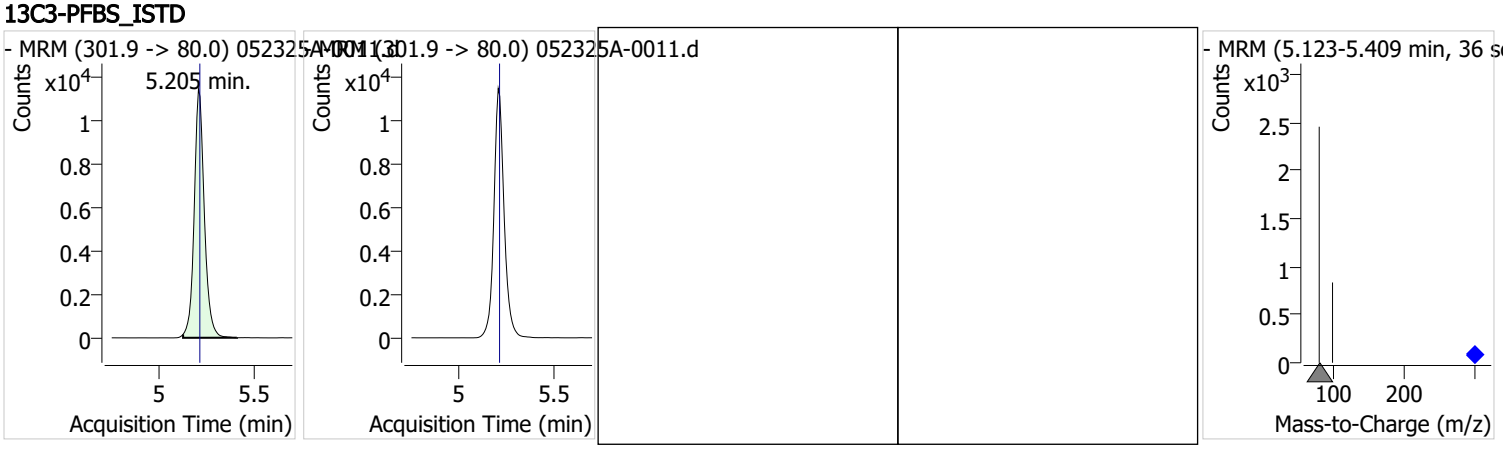
13C2-PFTeDA



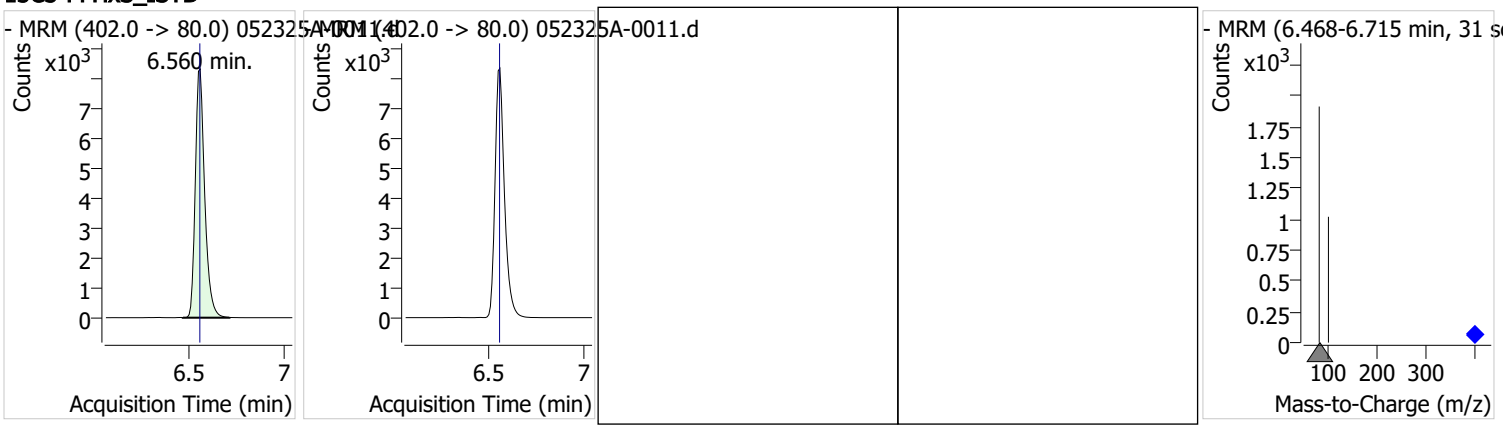
13C2-PFTeDA_ISTD



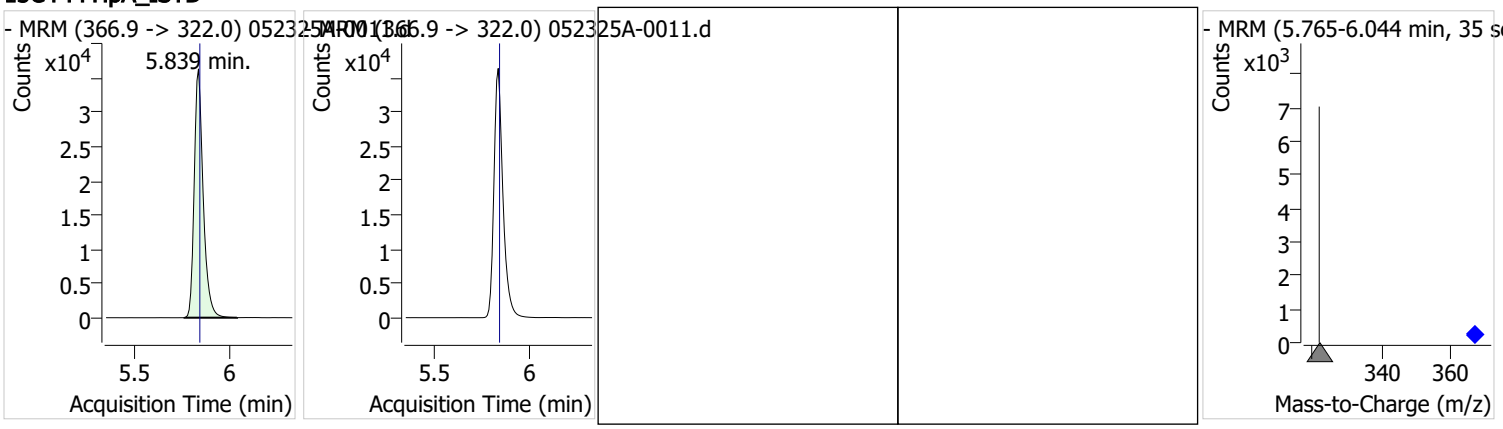
13C3-PFBS_ISTD



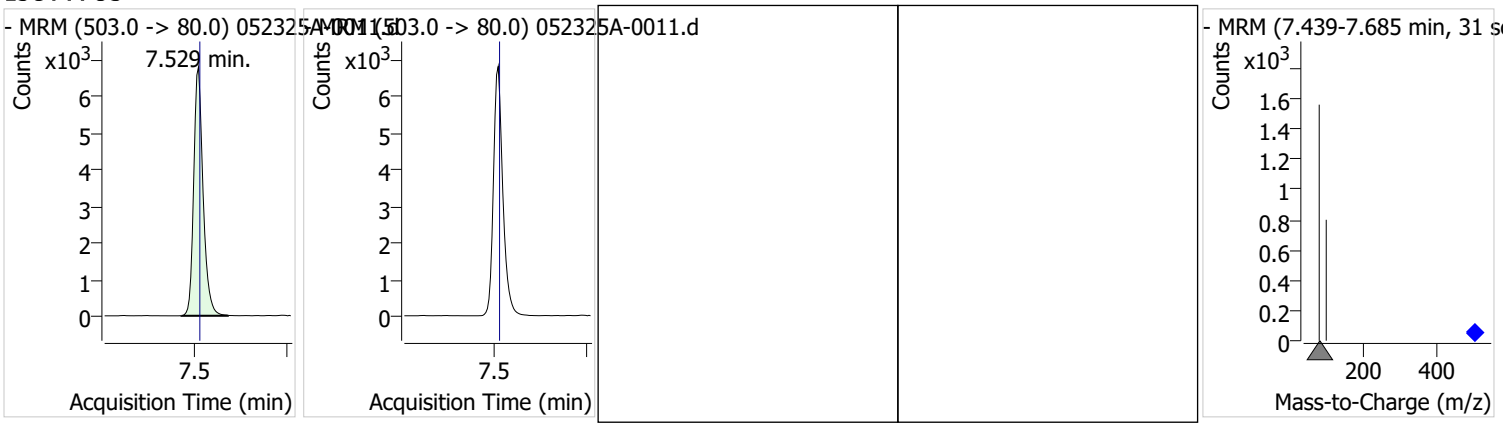
13C3-PFHxS_ISTD



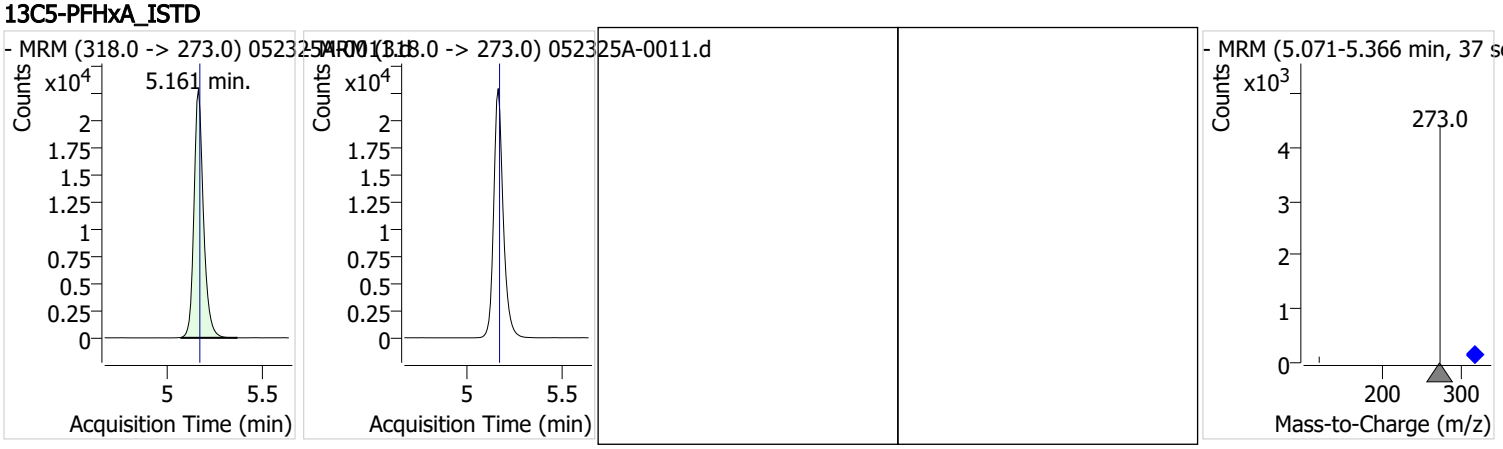
13C4-PFHpA_ISTD



13C4-PFOS



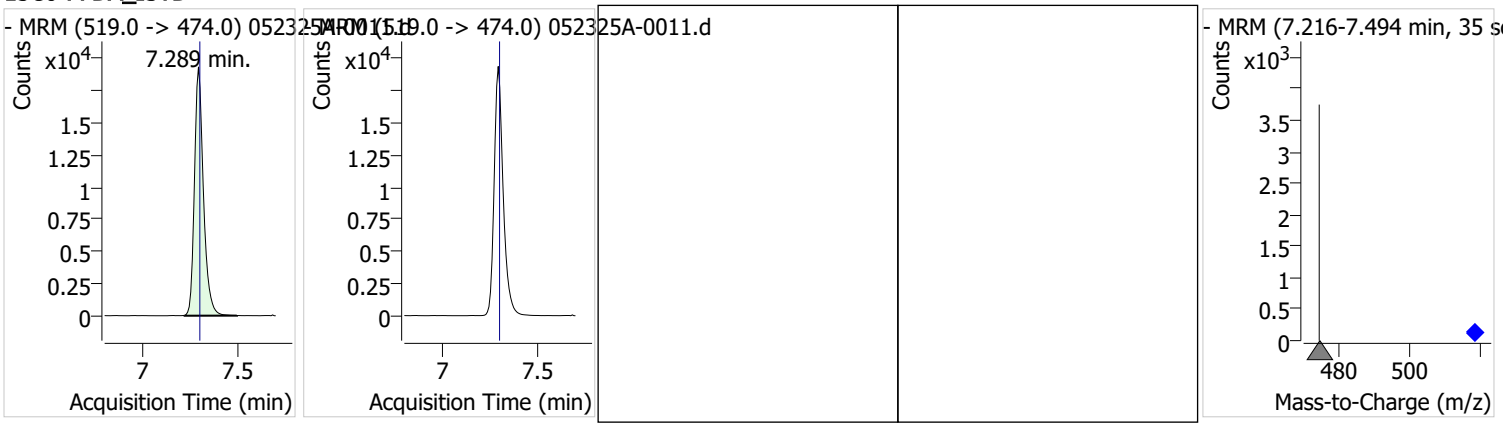
13C5-PFHxA_ISTD



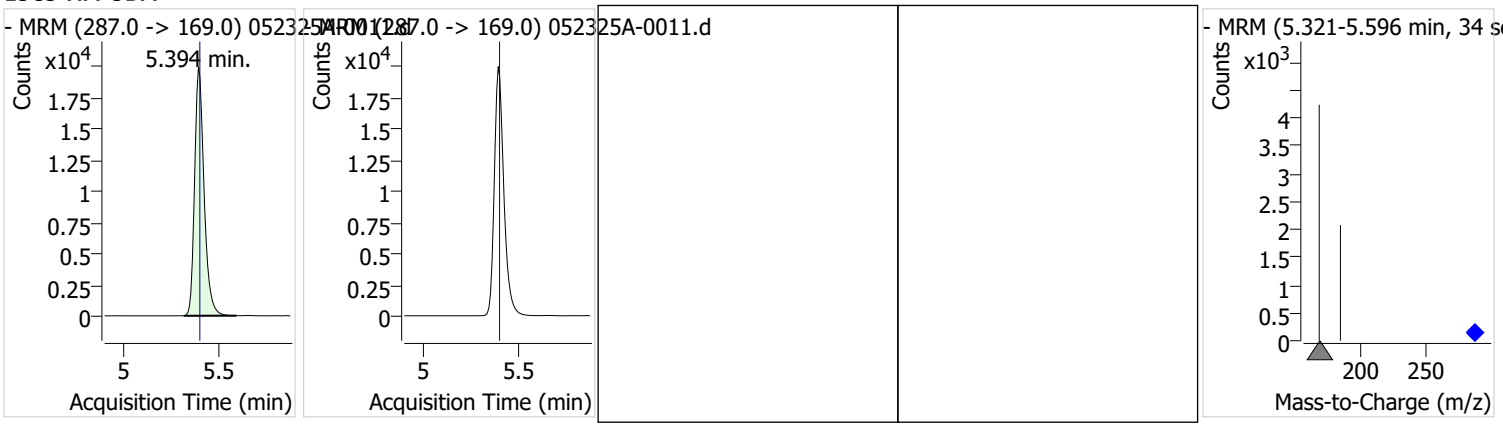
13C5-PFPeA_ISTD



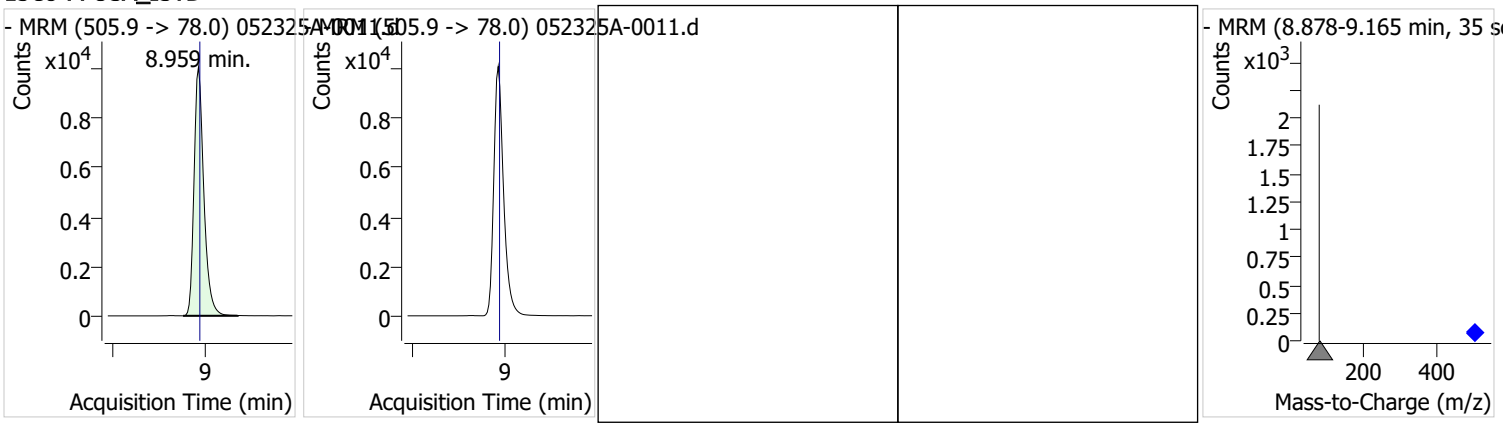
13C6-PFDA_ISTD



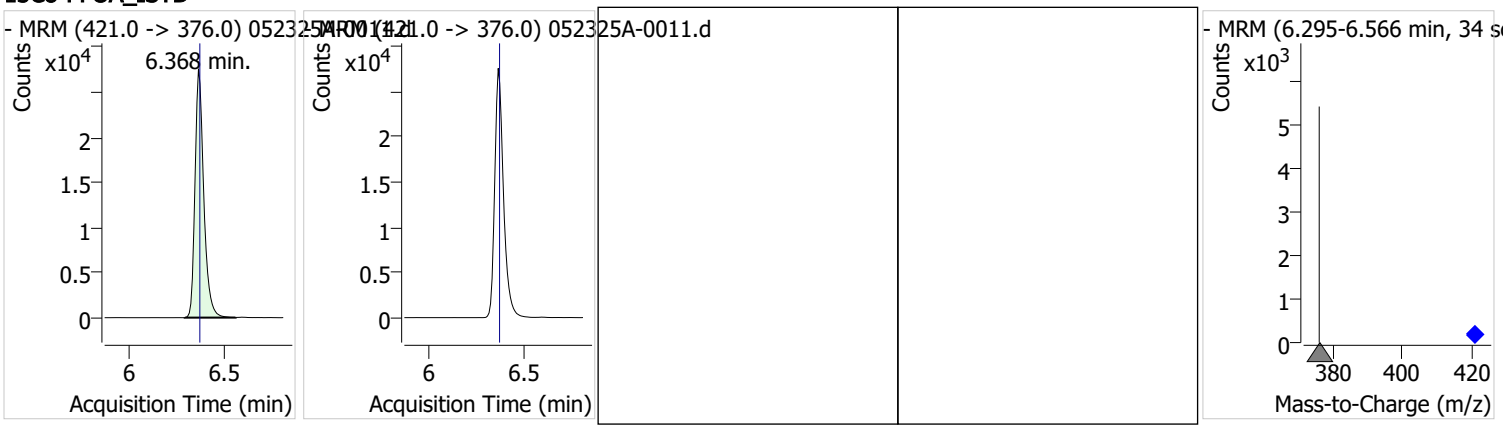
13C3-HFPODA



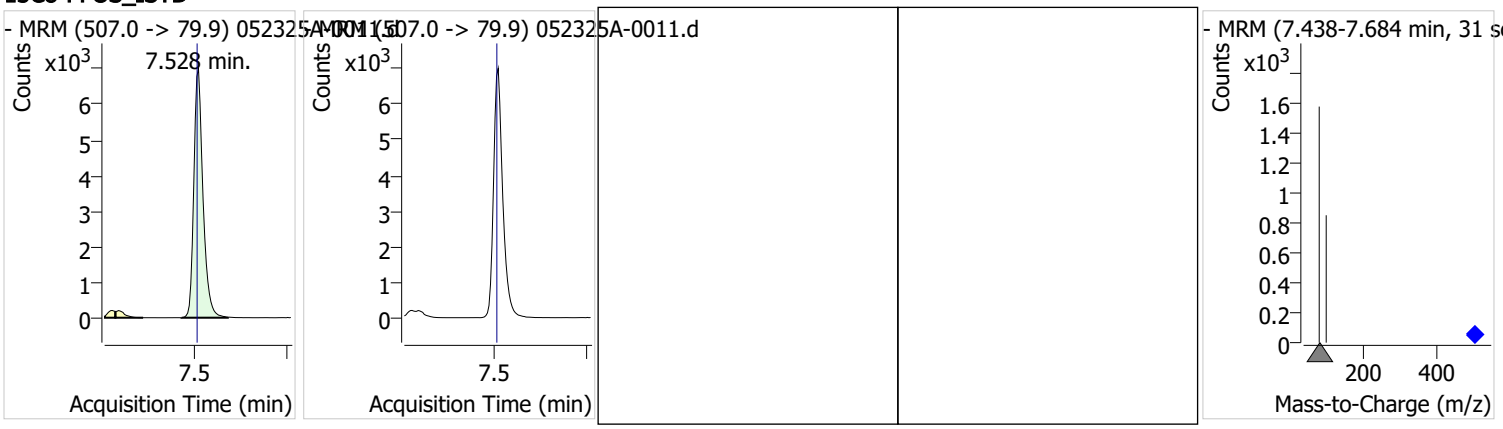
13C8-PFOSA_ISTD



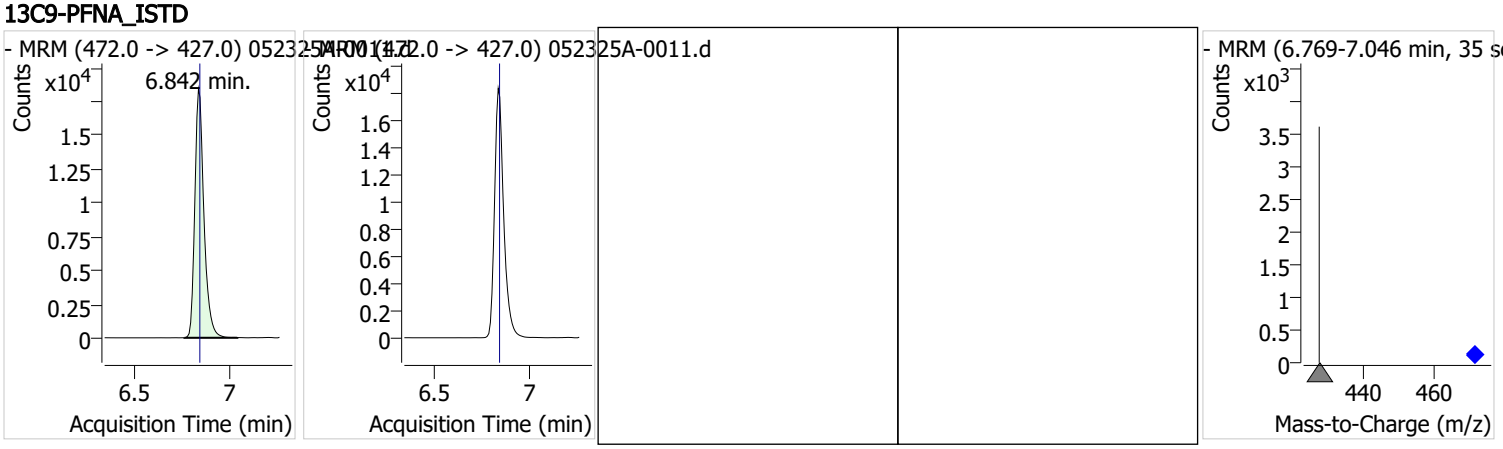
13C8-PFOA_ISTD



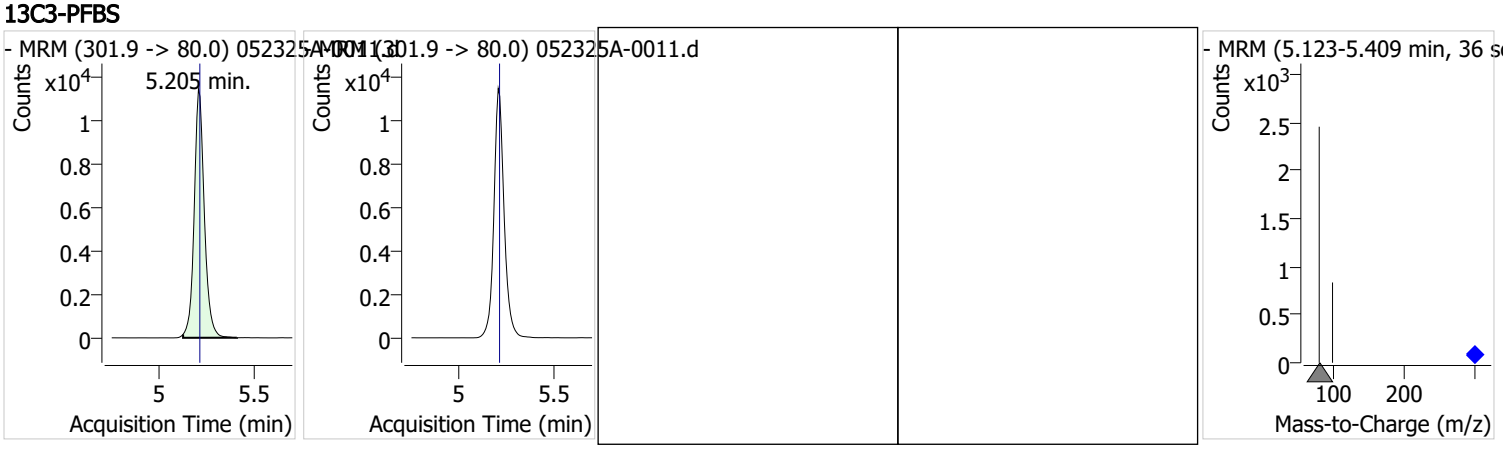
13C8-PFOS_ISTD



13C9-PFNA_ISTD



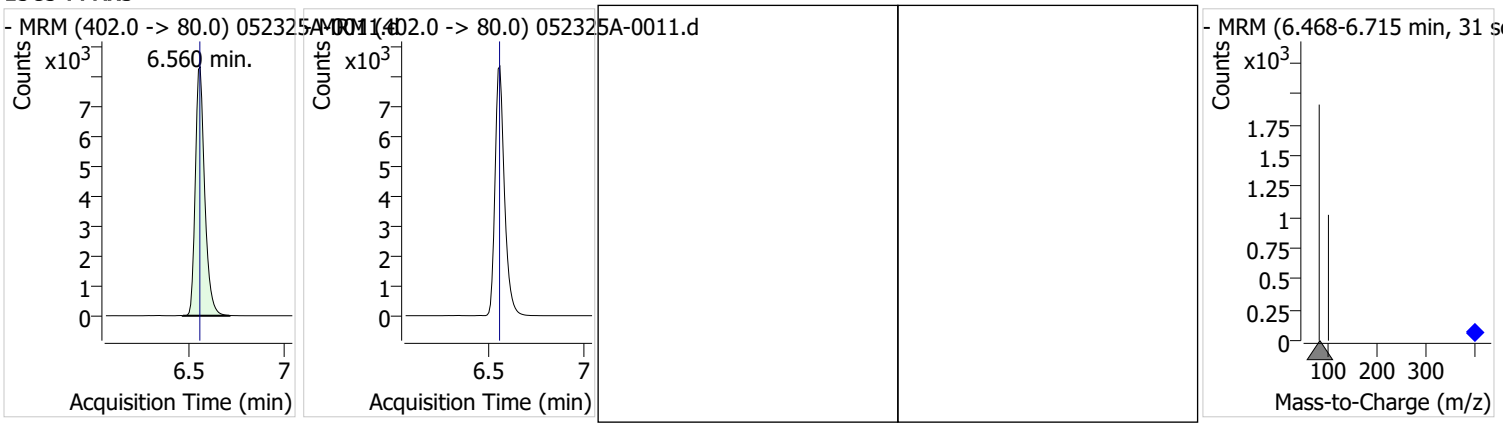
13C3-PFBS



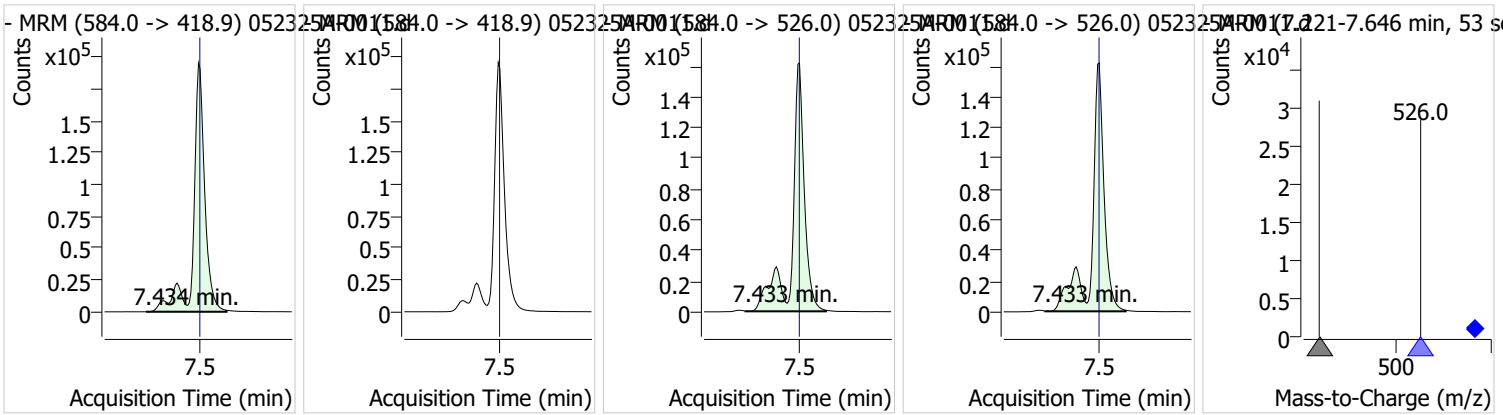
13C2-PFDoA_ISTD



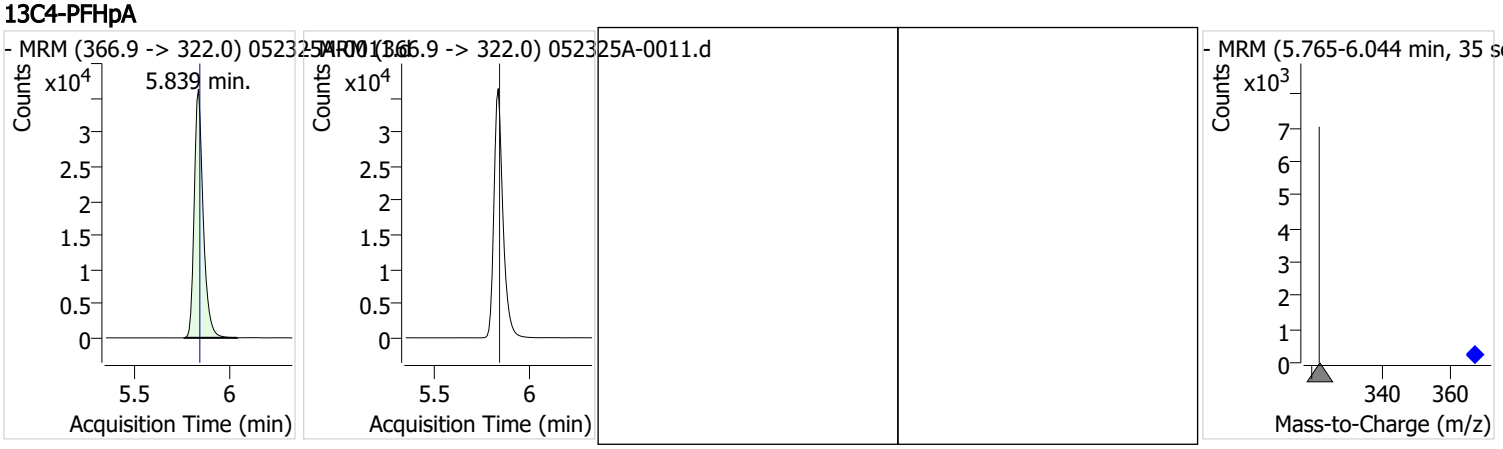
13C3-PFHxS



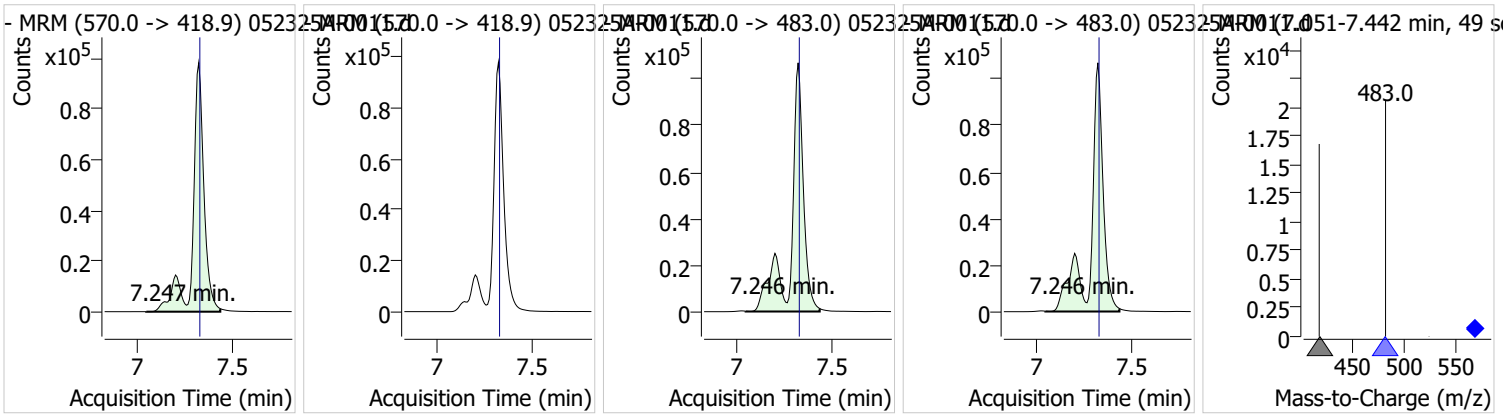
NEtFOSAA



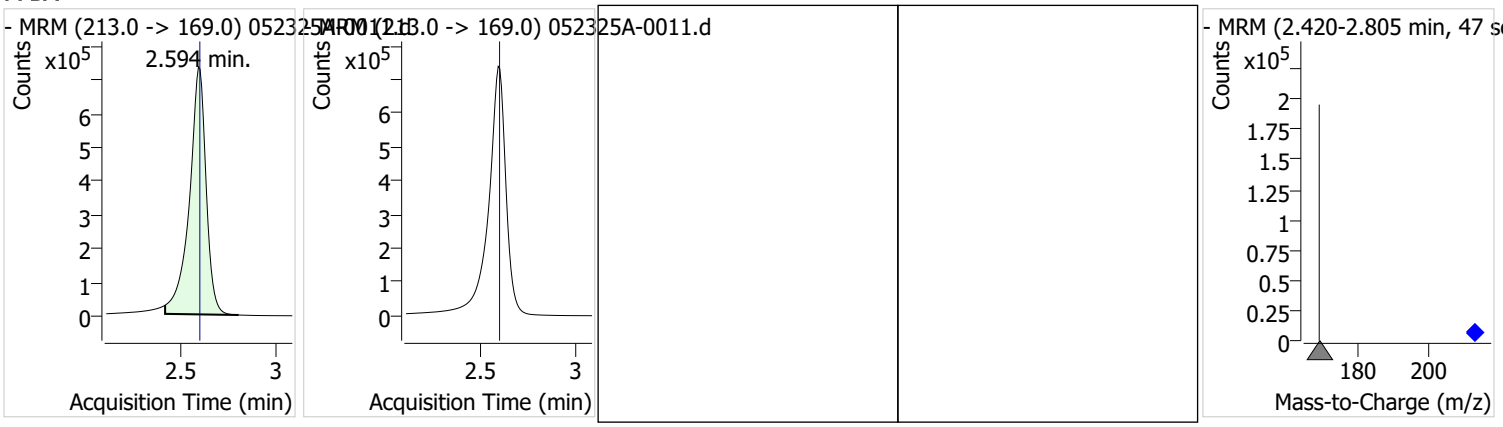
13C4-PFHpA



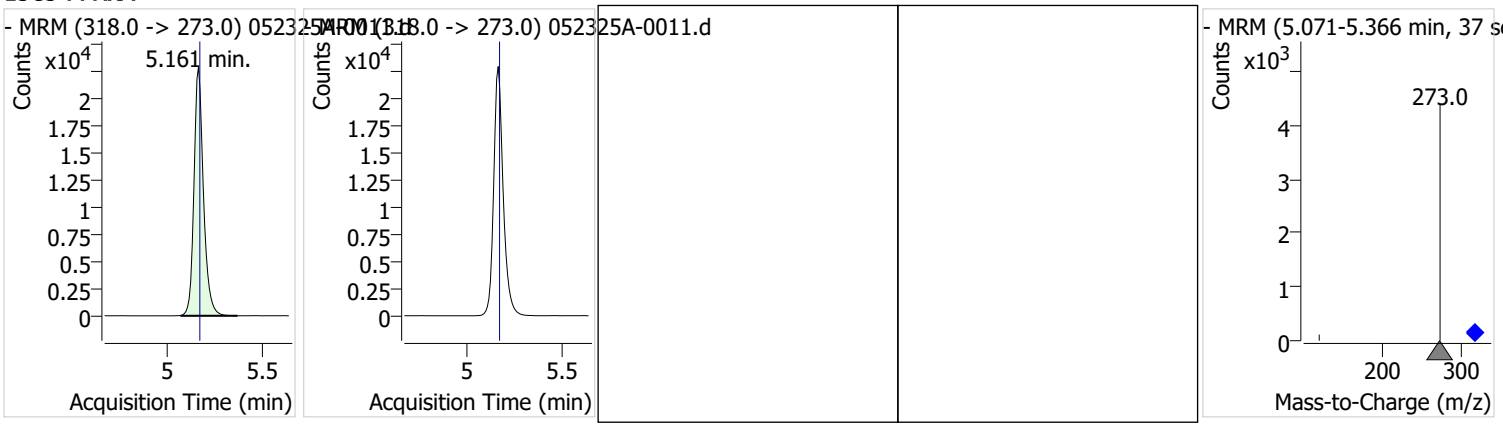
NMeFOSAA



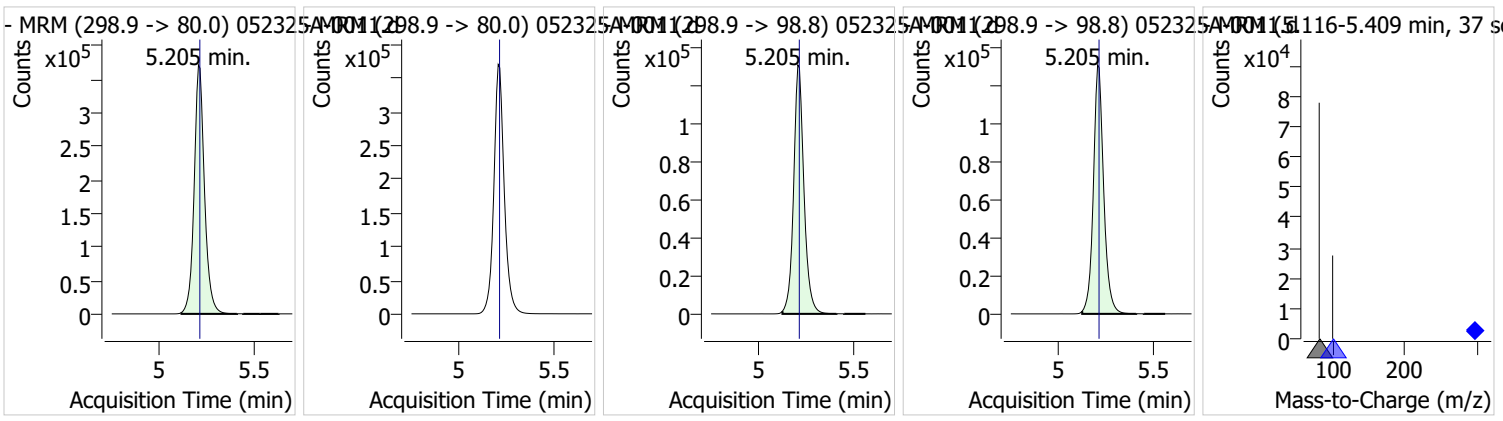
PFBA



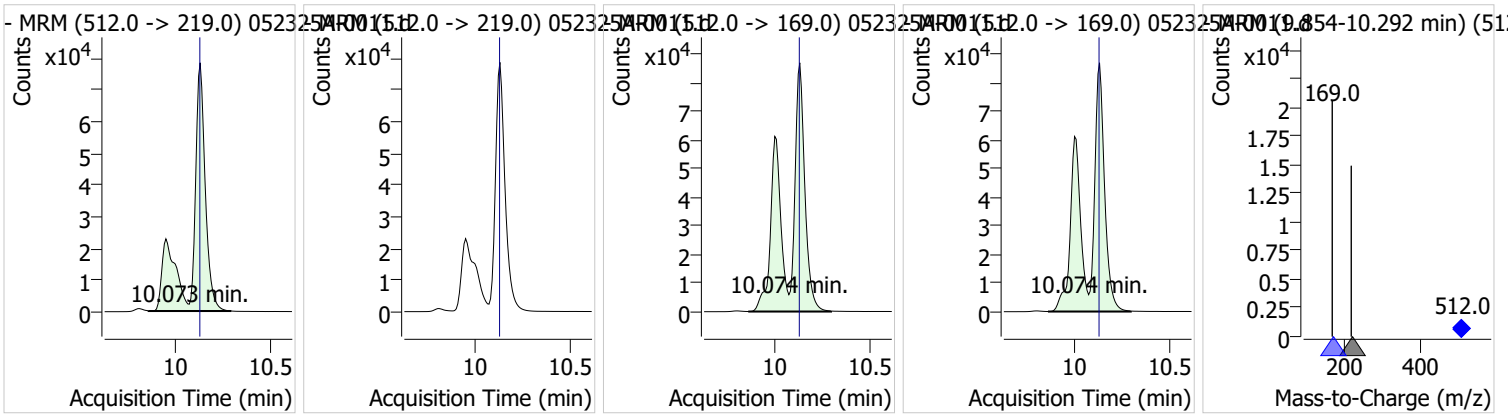
13C5-PFHxA



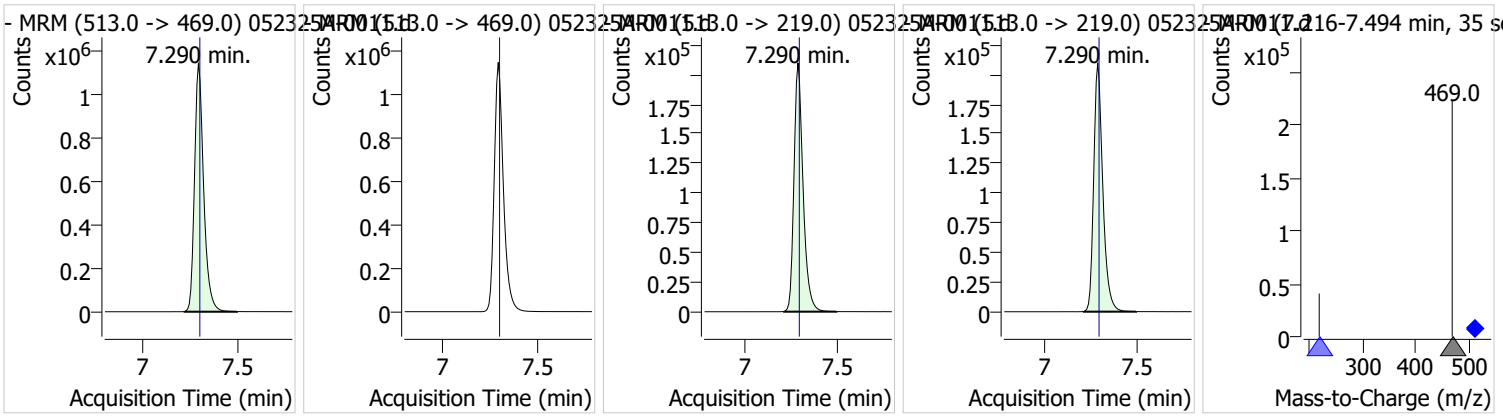
PFBS



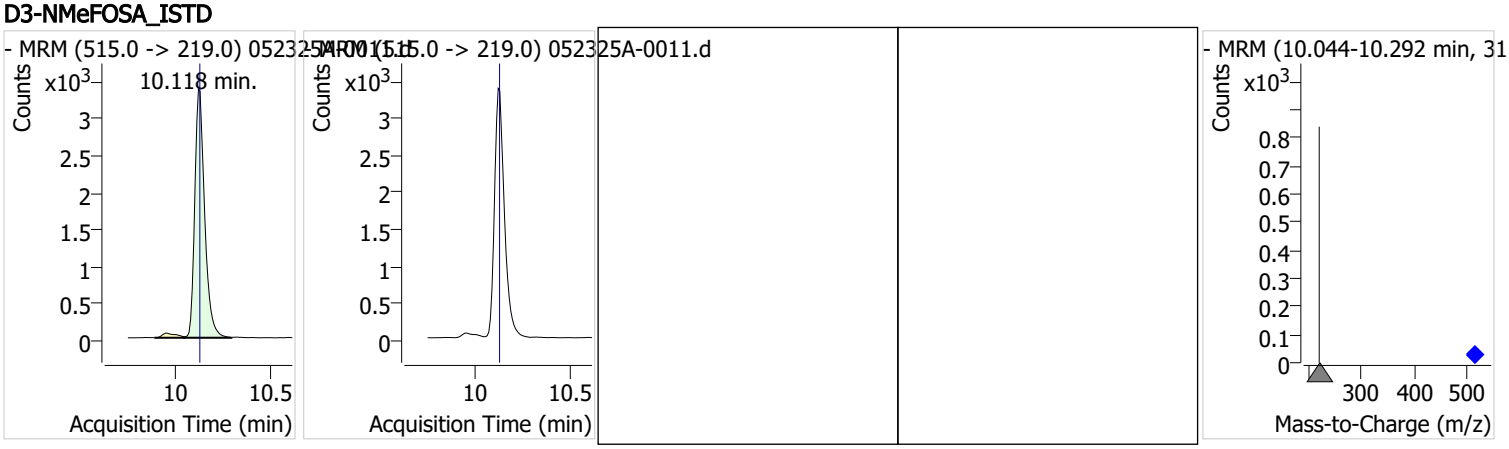
NMeFOSA



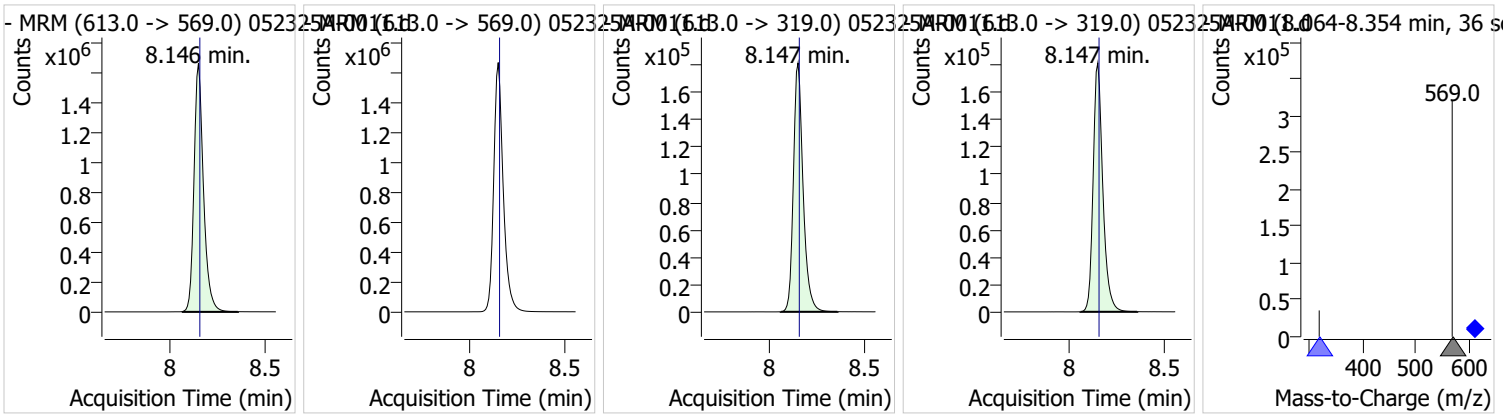
PFDA



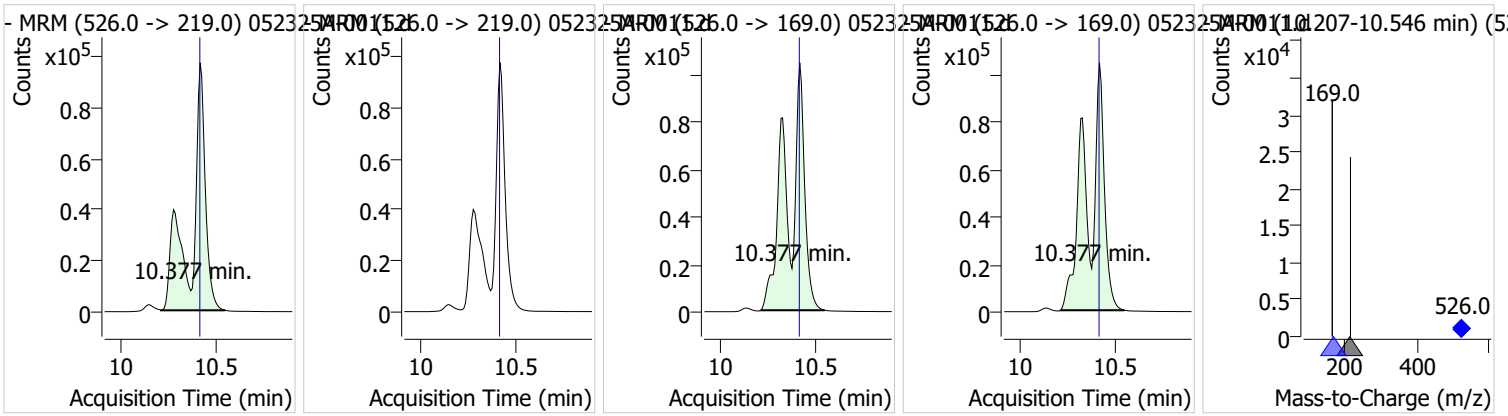
D3-NMeFOSA_ISTD



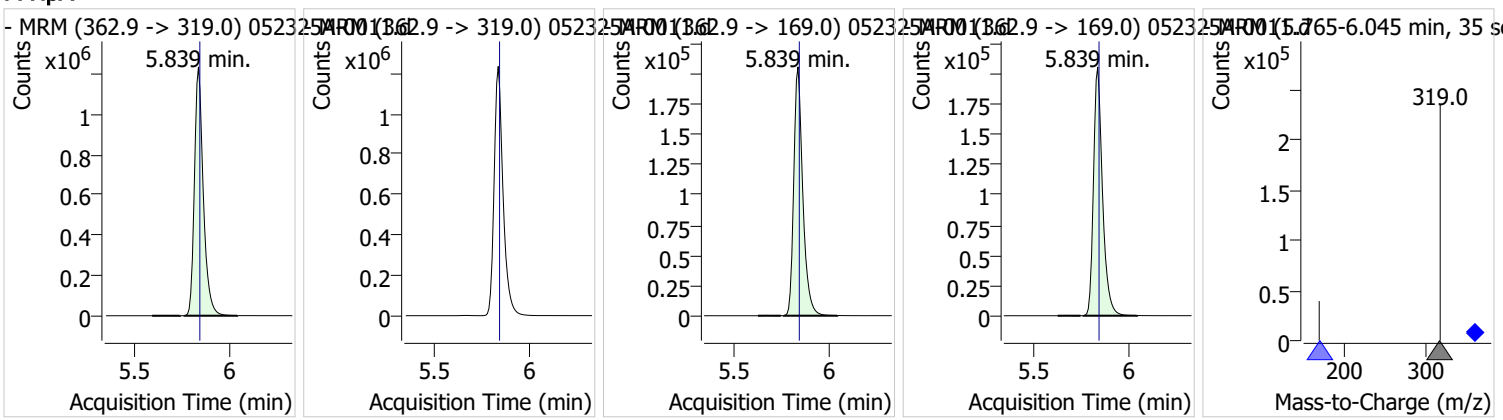
PFDoA



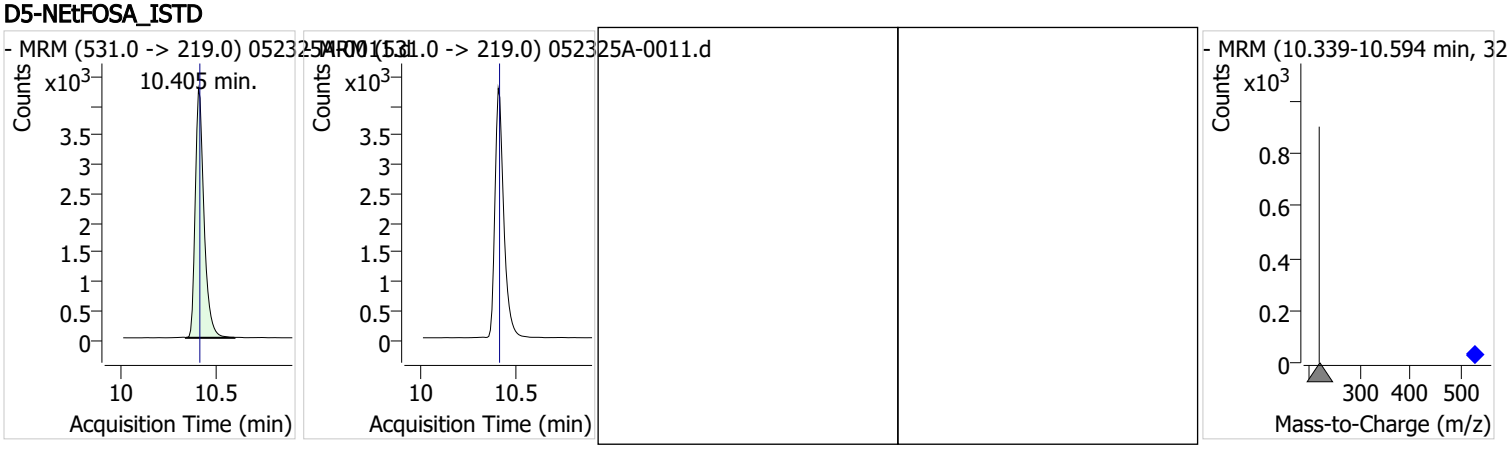
NEtFOSA



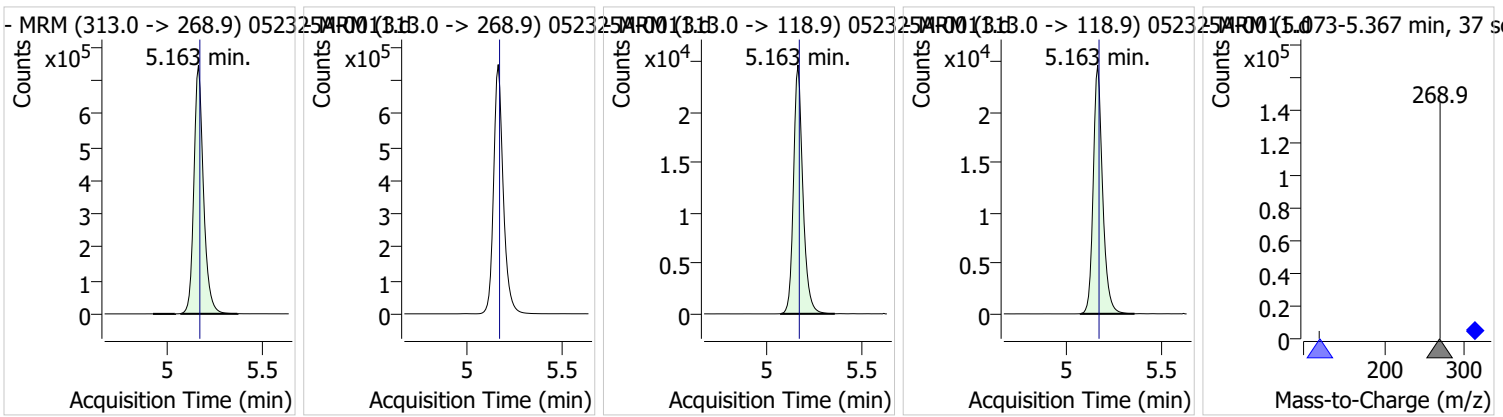
PFHpA



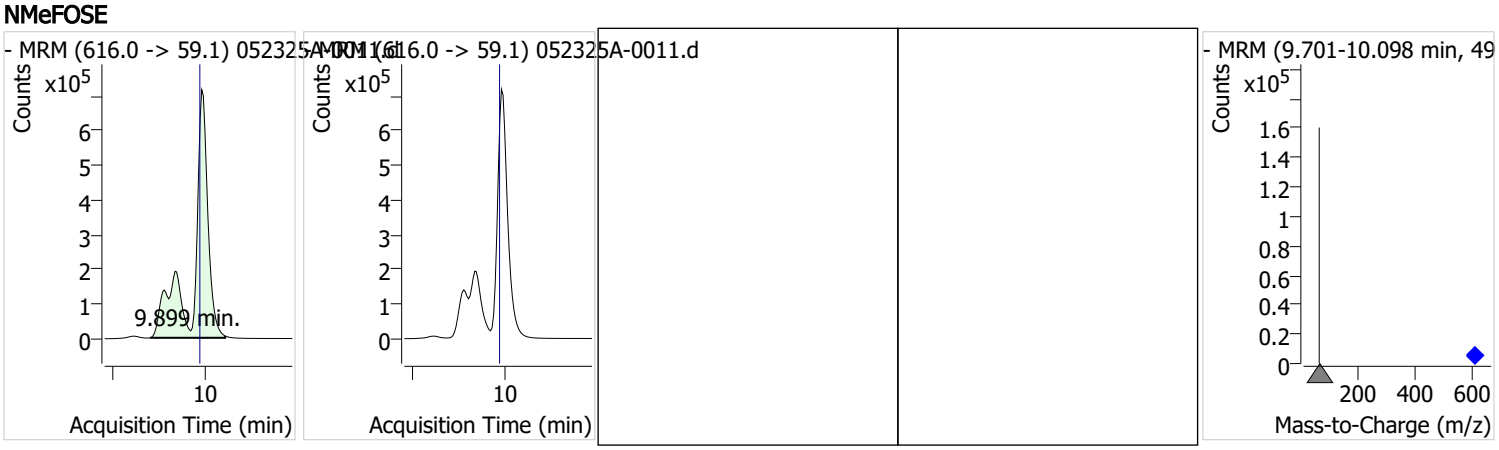
D5-NEtFOSA_ISTD



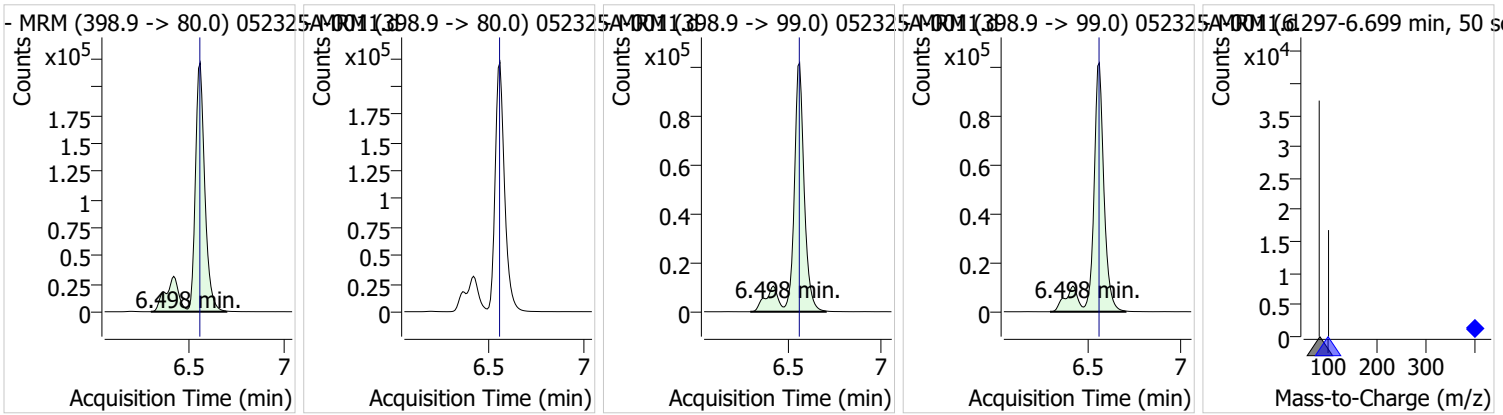
PFHxA



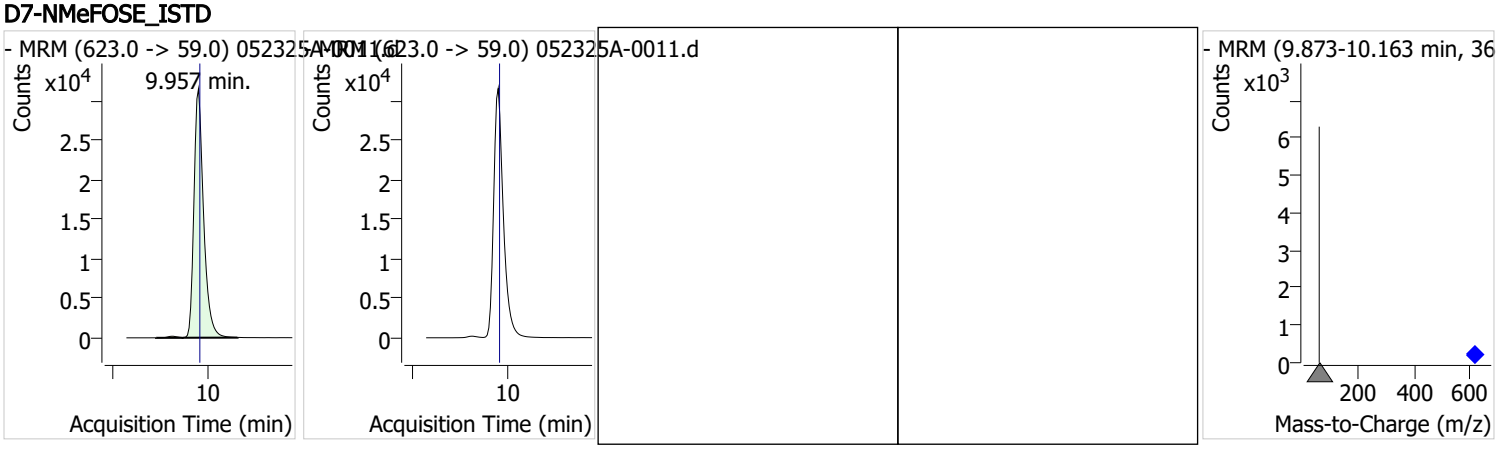
NMeFOSE



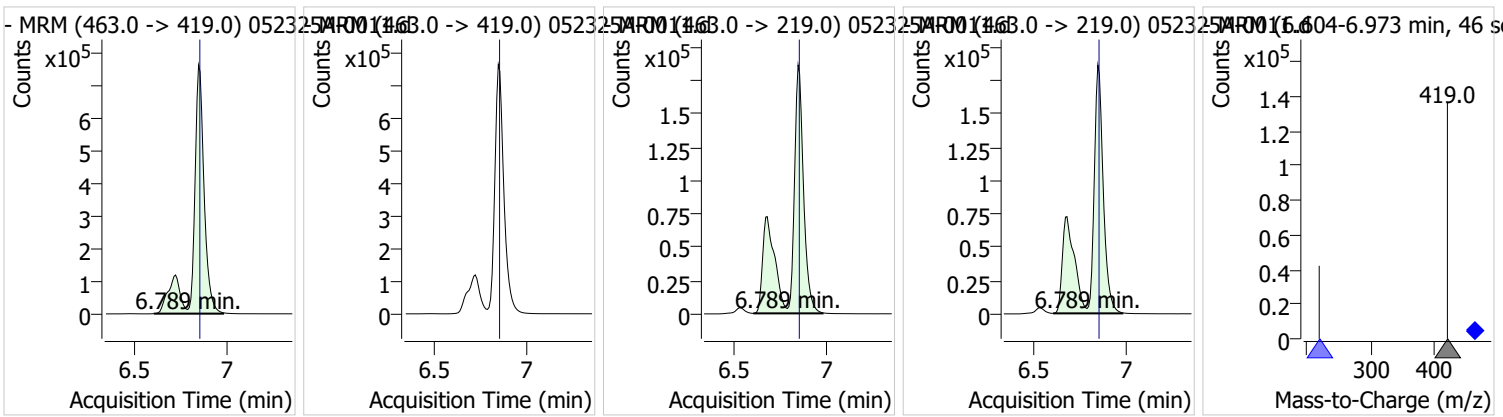
PFHxS



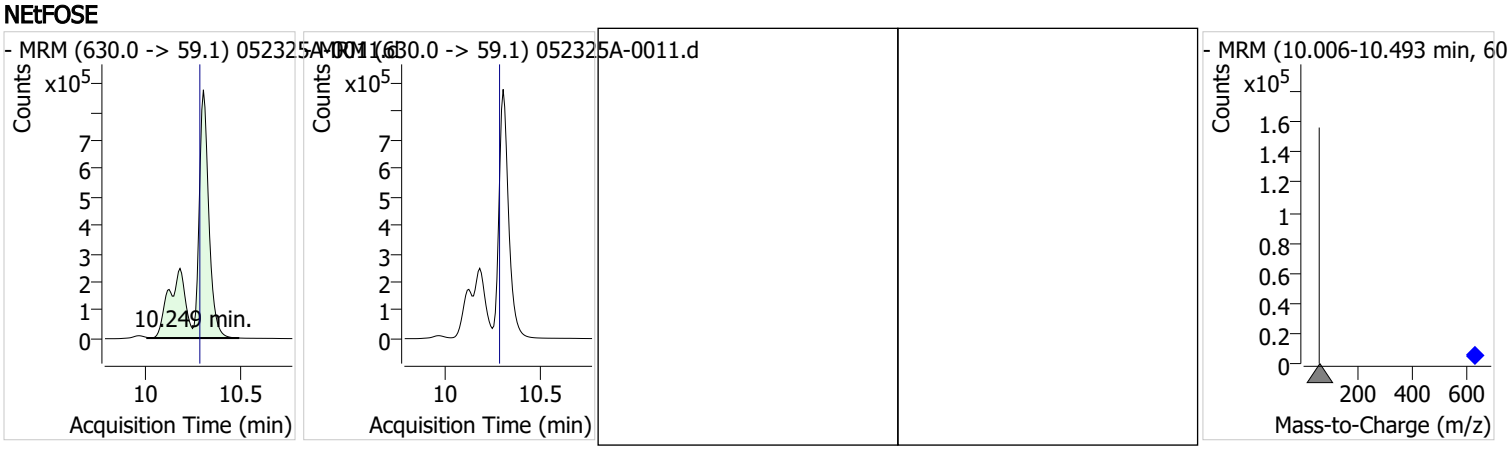
D7-NMeFOSE_ISTD



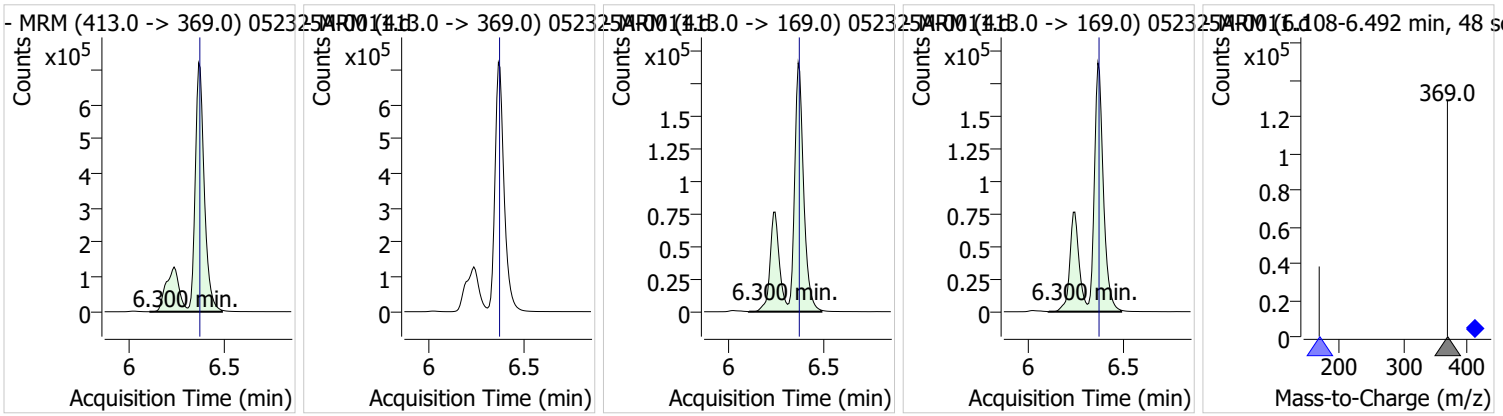
PFNA



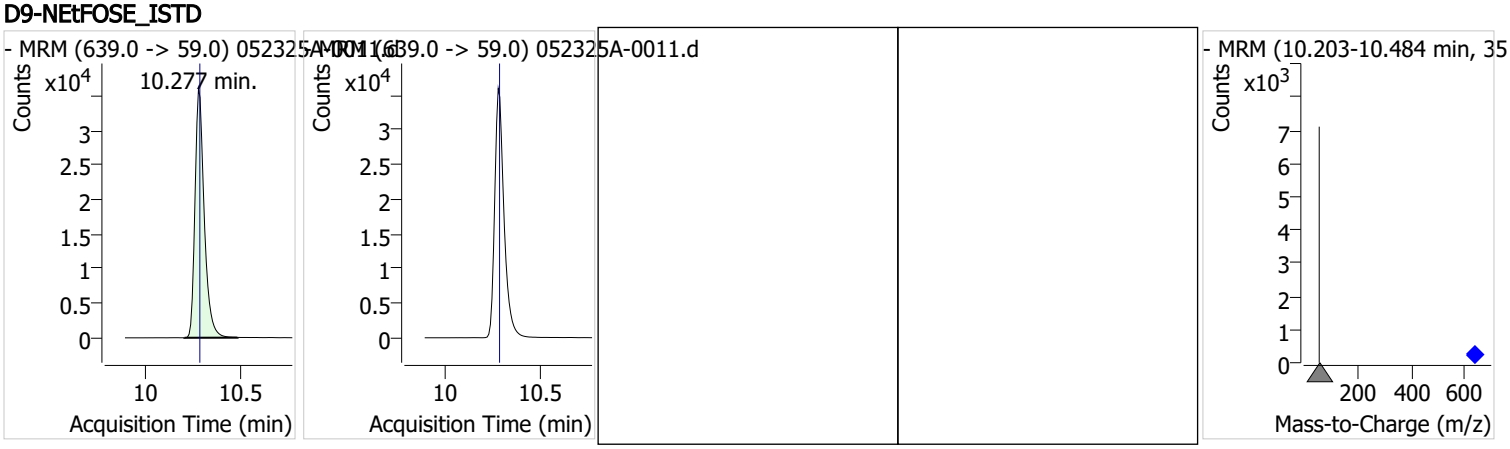
NEtFOSE



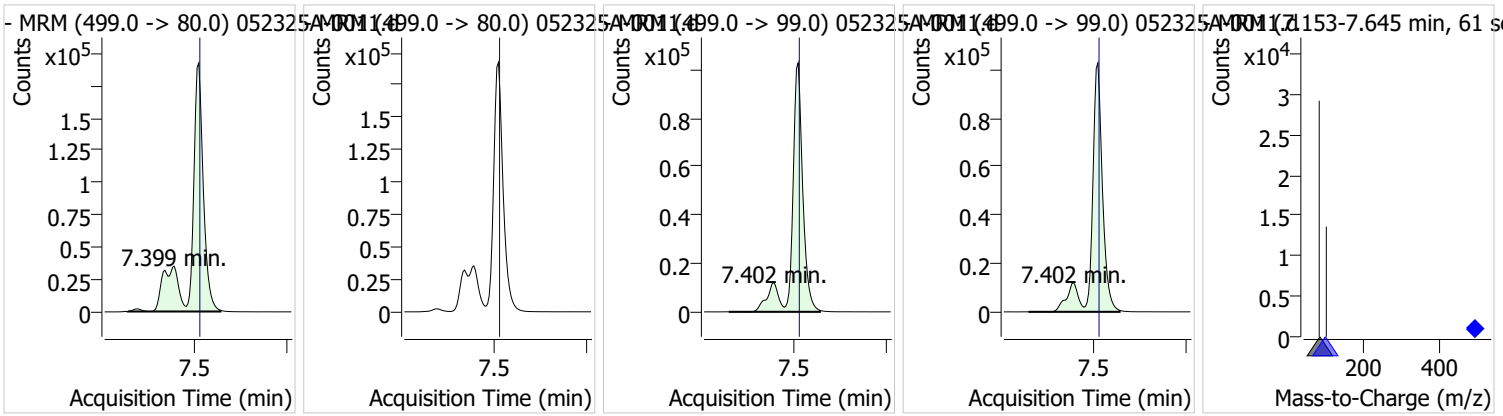
PFOA



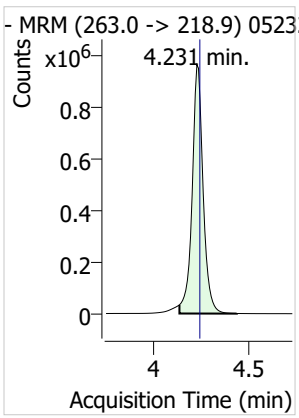
D9-NEtFOSE_ISTD

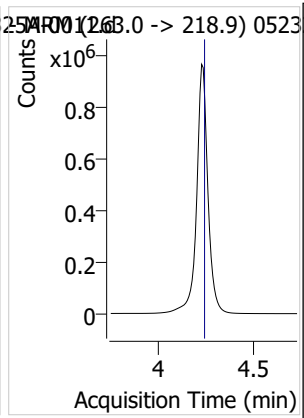


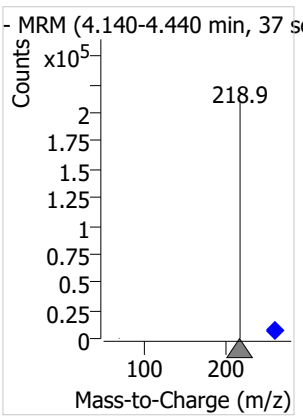
PFOS



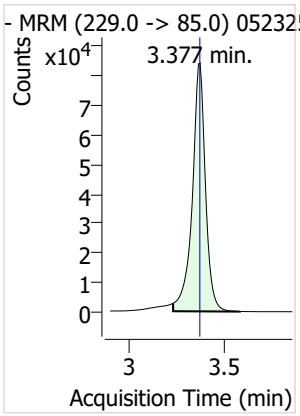
PFPeA

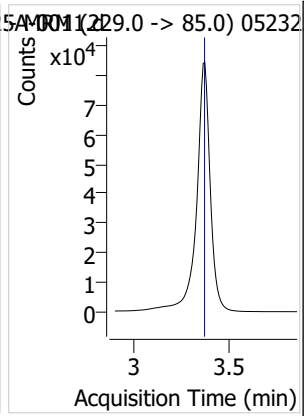


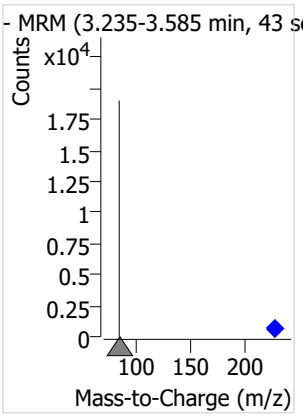




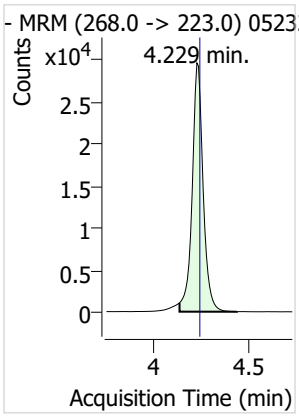
PFMPA

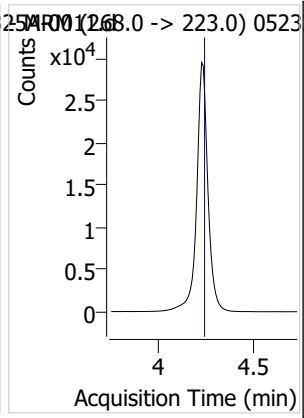


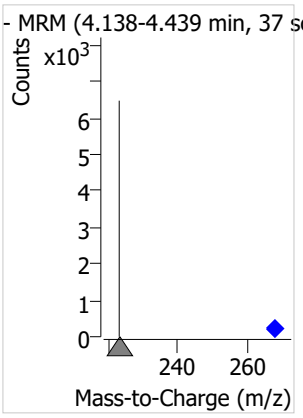




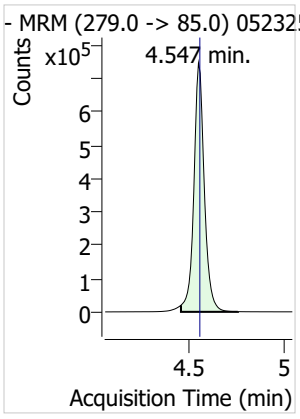
13C5-PFPeA

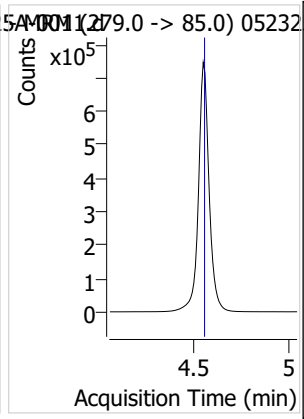


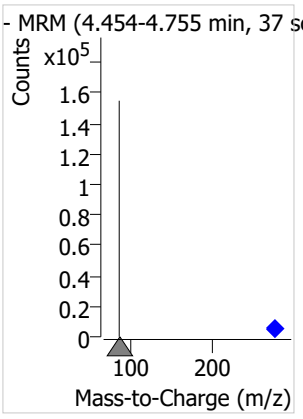




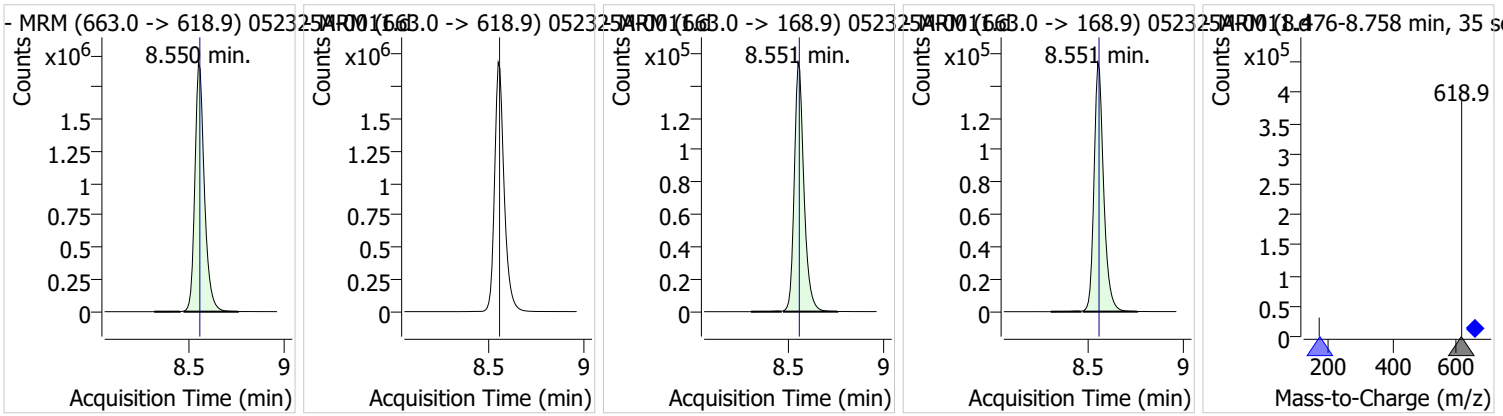
PFMBA



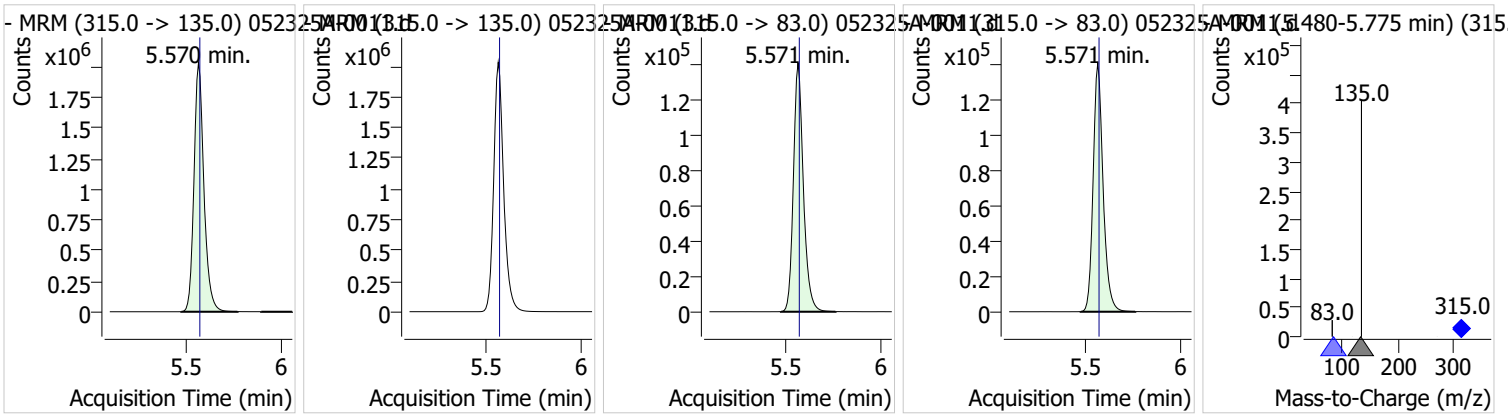




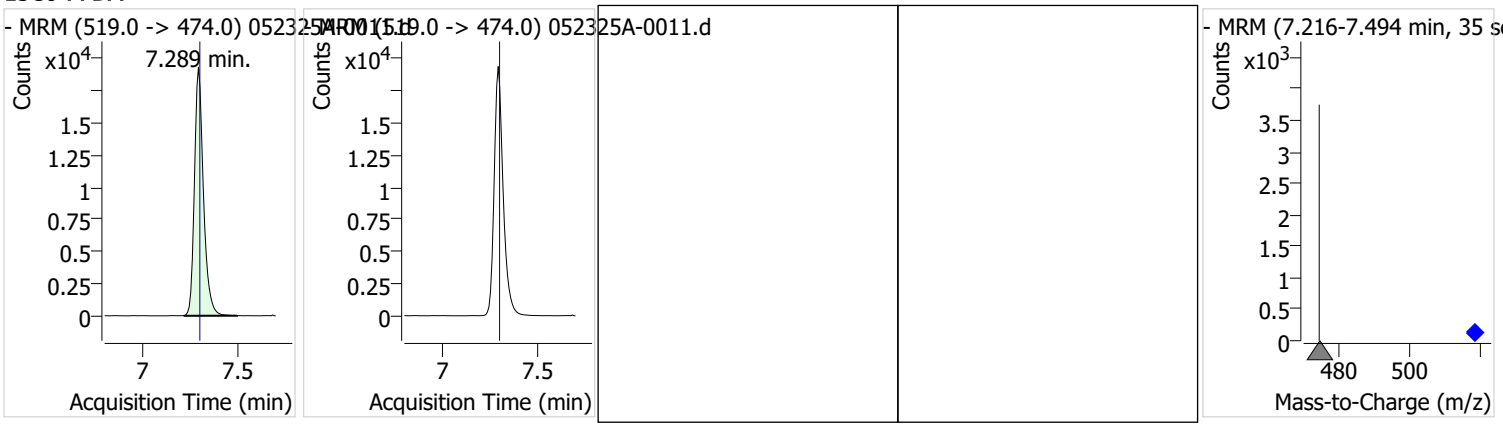
PFTrDA



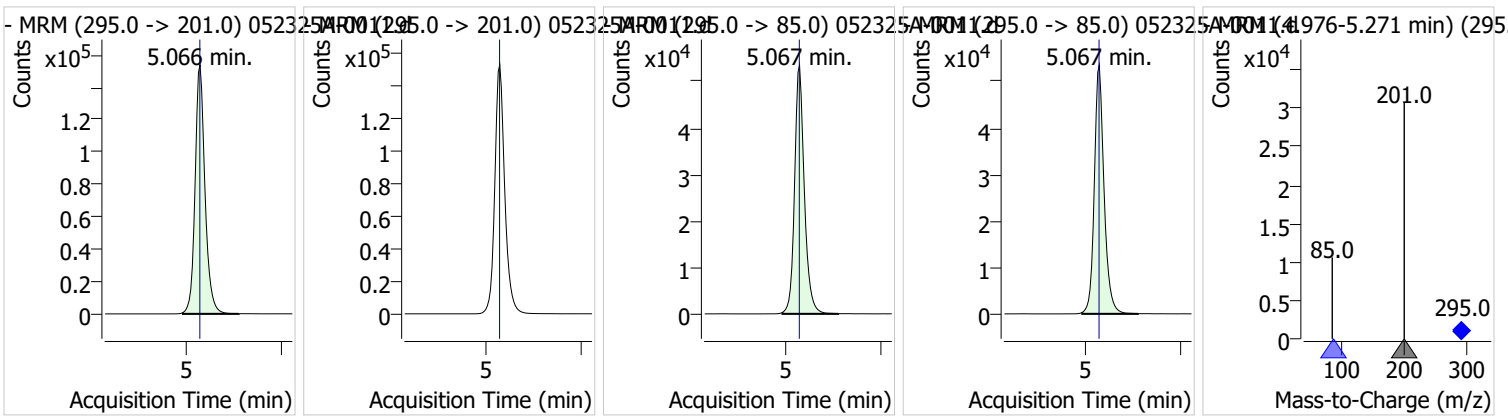
PFEESA



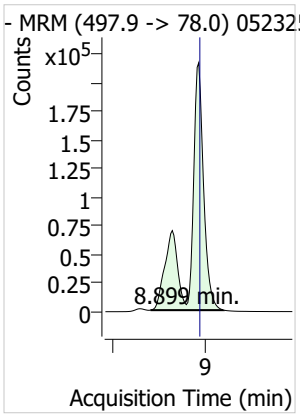
13C6-PFDA

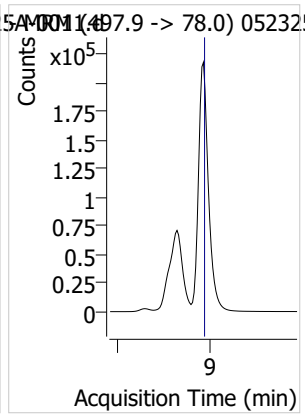


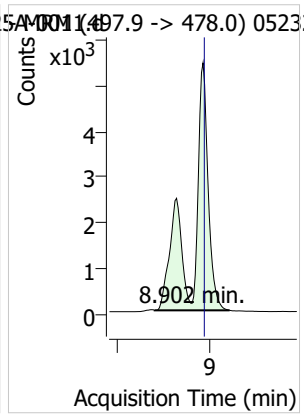
NFDHA

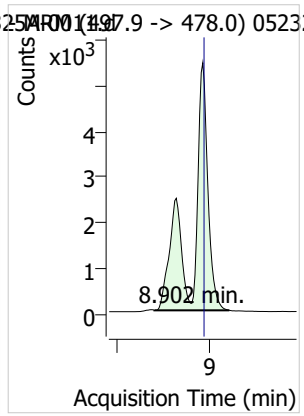


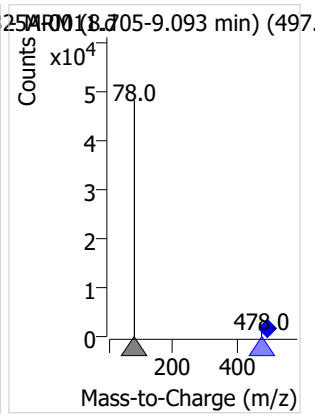
PFOSA



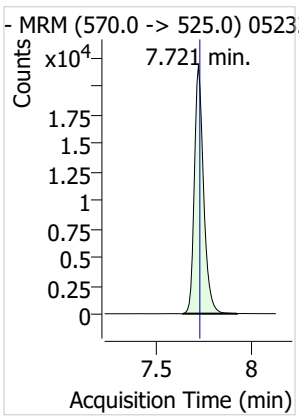


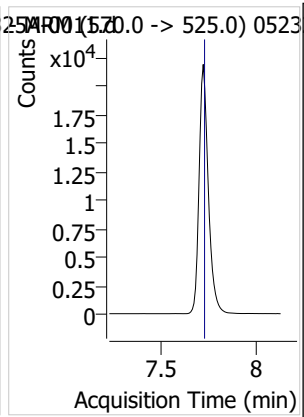


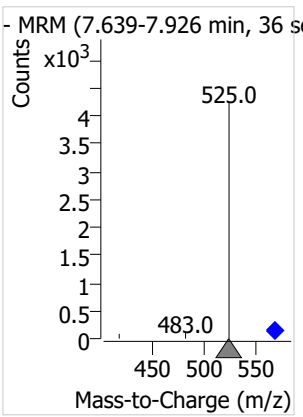




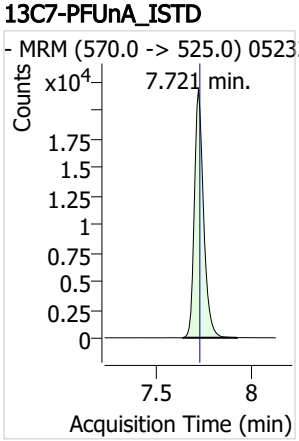
13C7-PFUnA

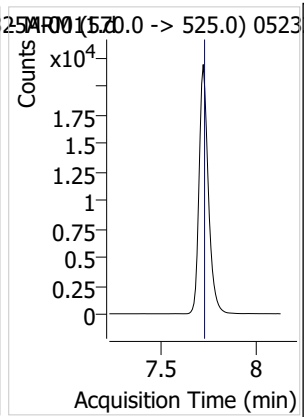


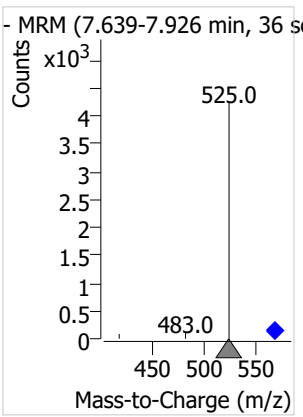




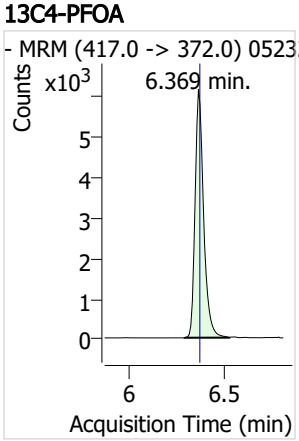
13C7-PFUnA_ISTD

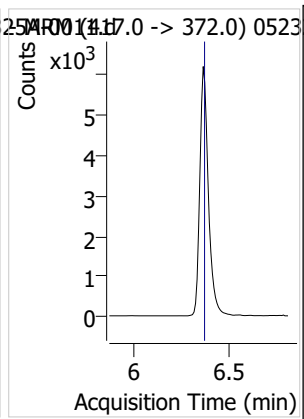


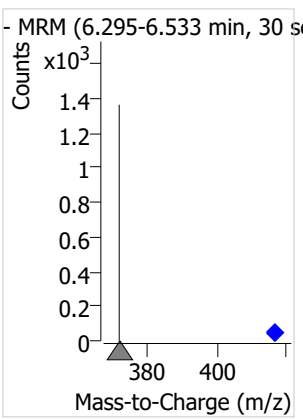




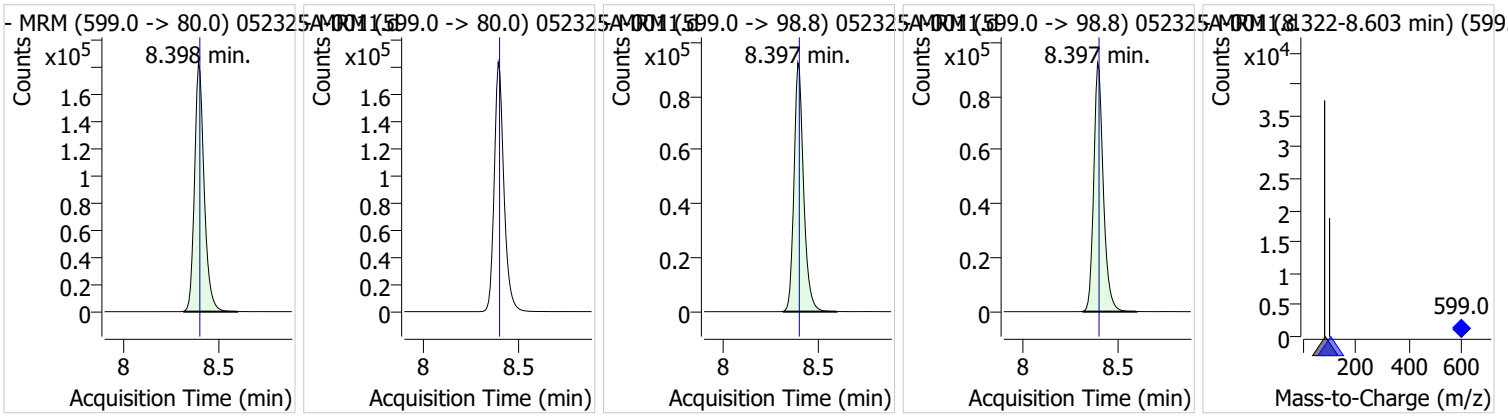
13C4-PFOA



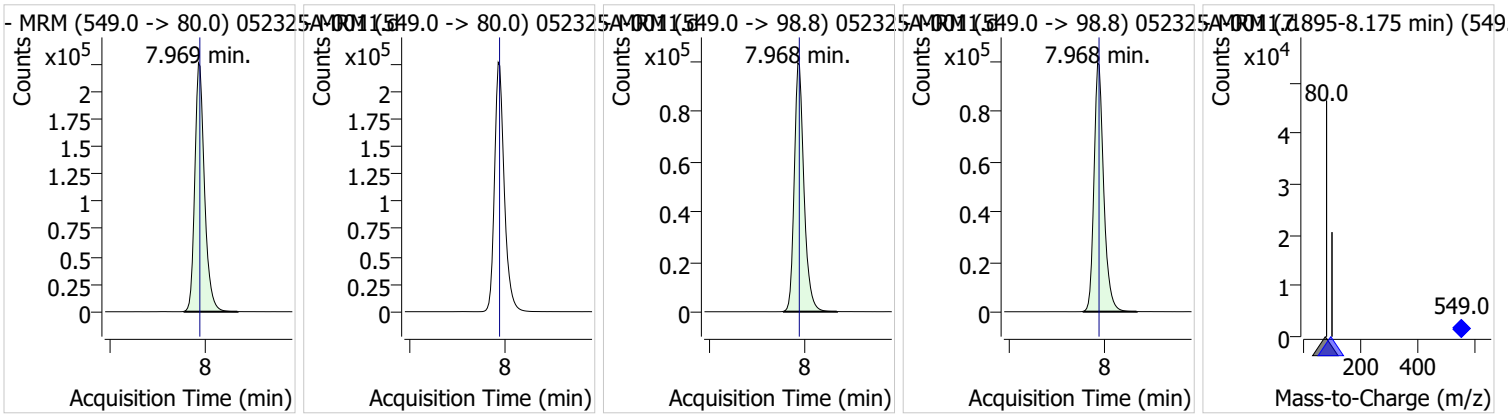




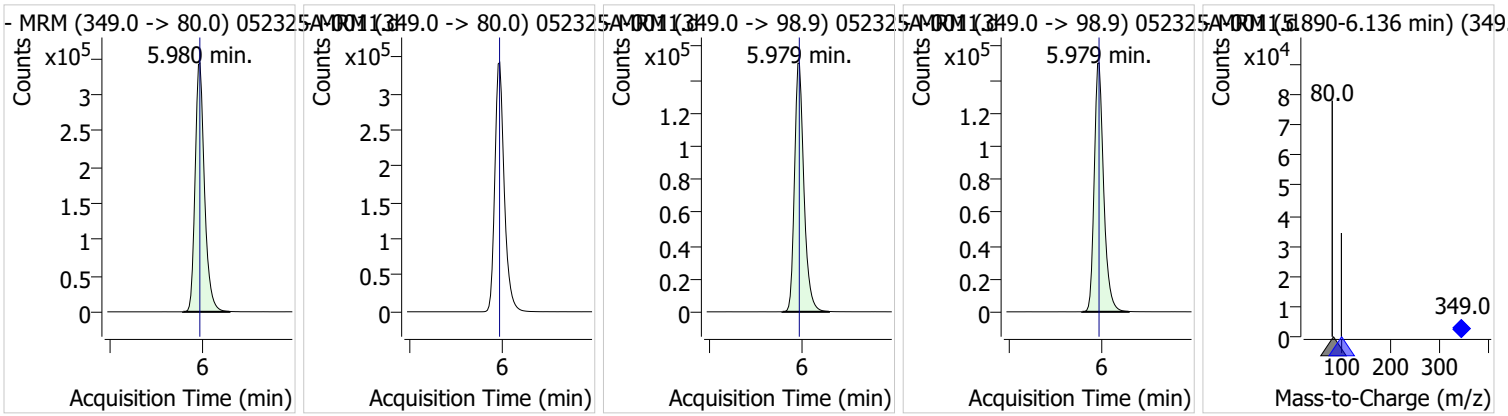
PFDS



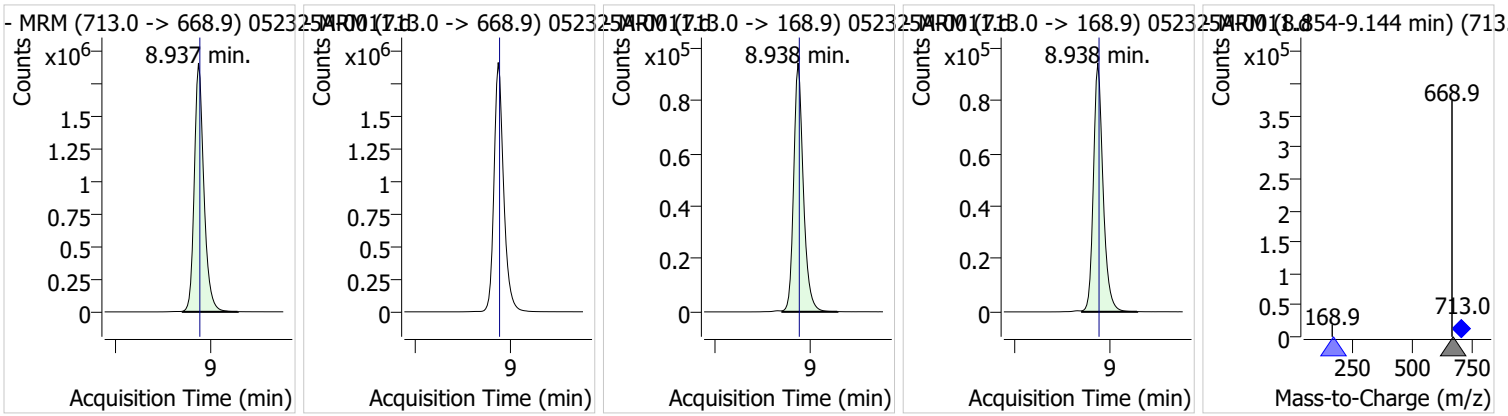
PFNS



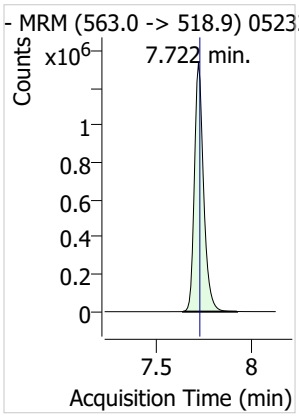
PFPeS

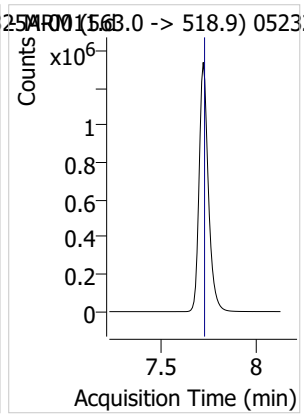


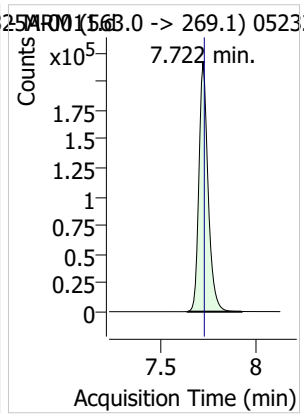
PFTeDA

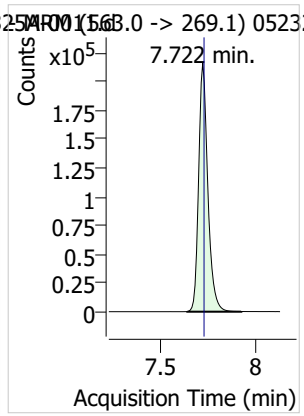


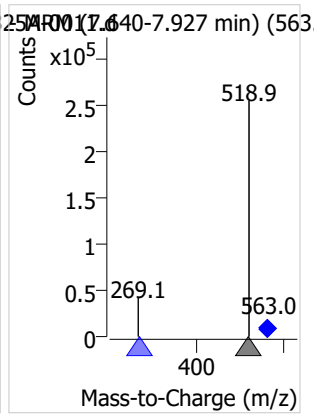
PFUnA



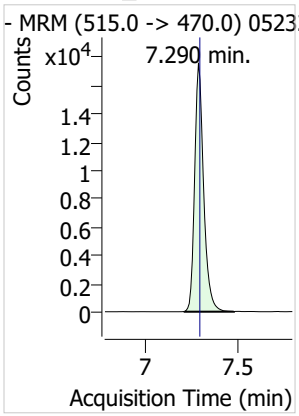


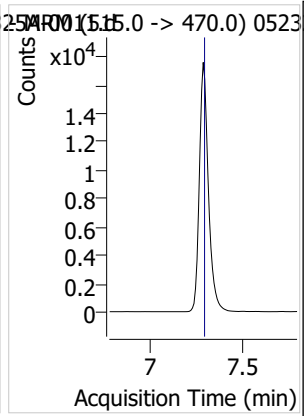


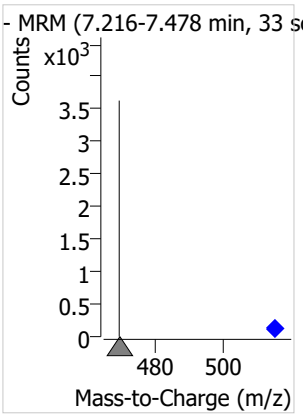




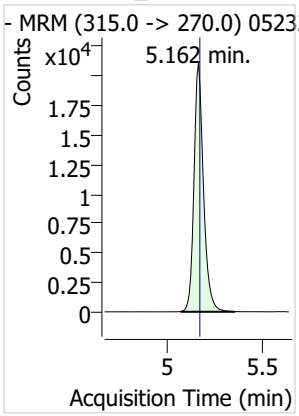
13C2-PFDA_ISTD

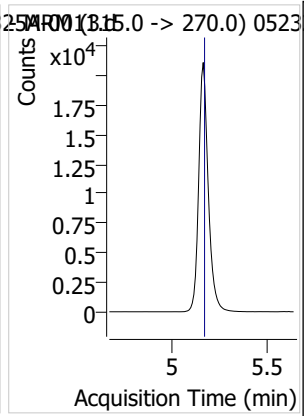


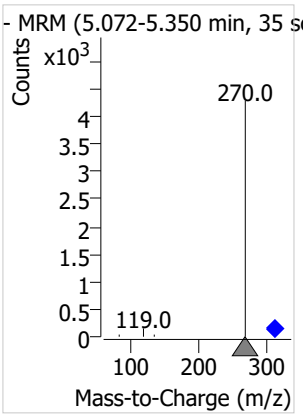




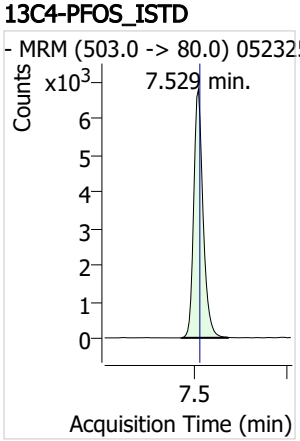
13C2-PFHxA_ISTD

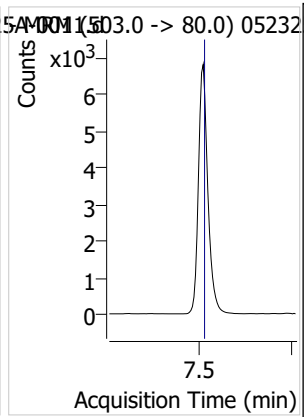


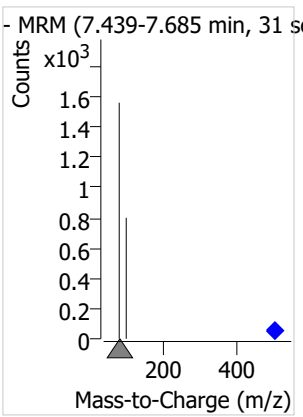




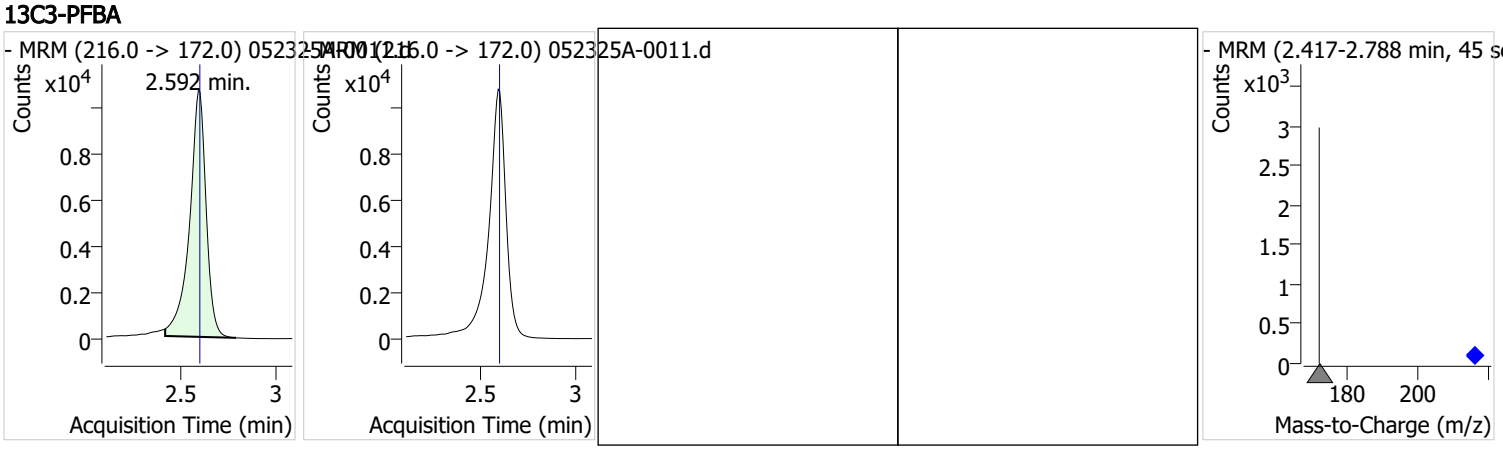
13C4-PFOS_ISTD



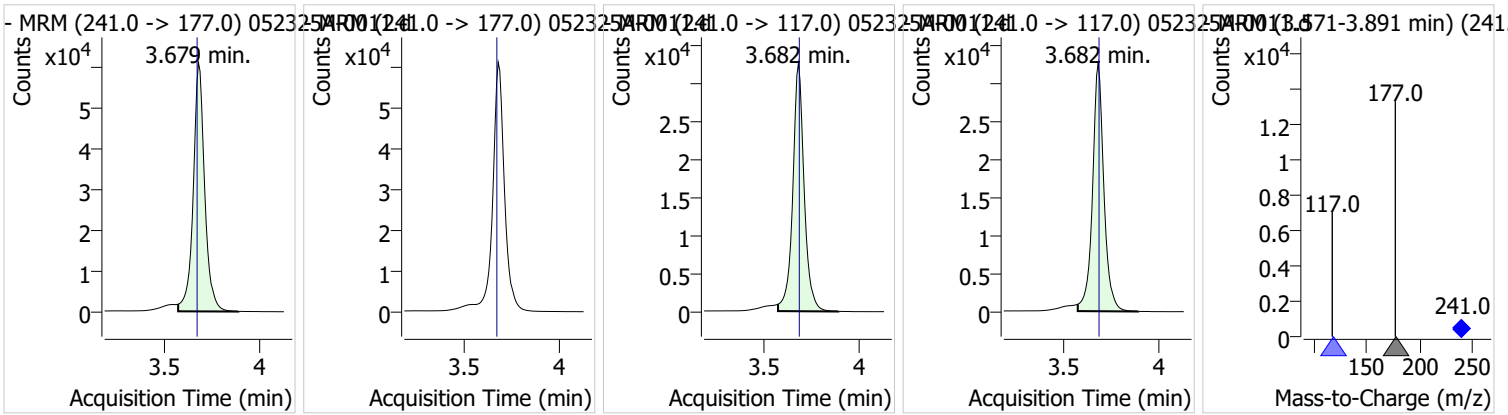




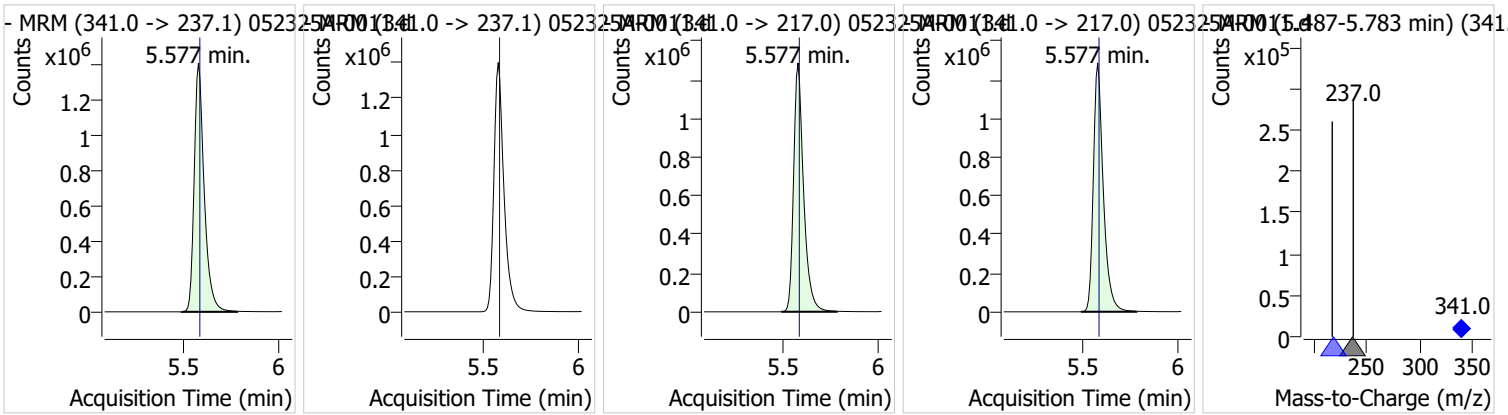
13C3-PFBA



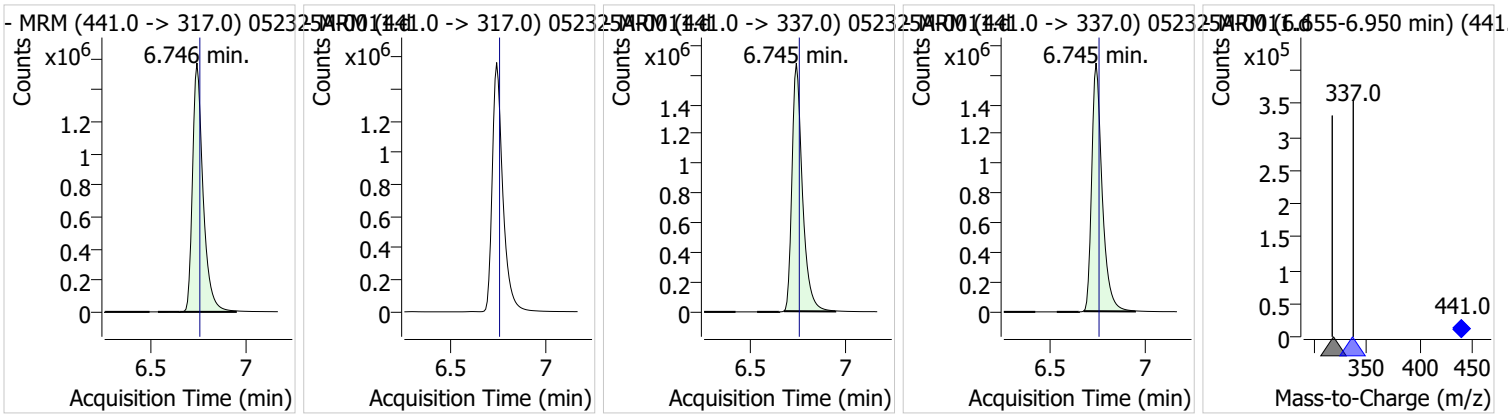
3:3FTCA



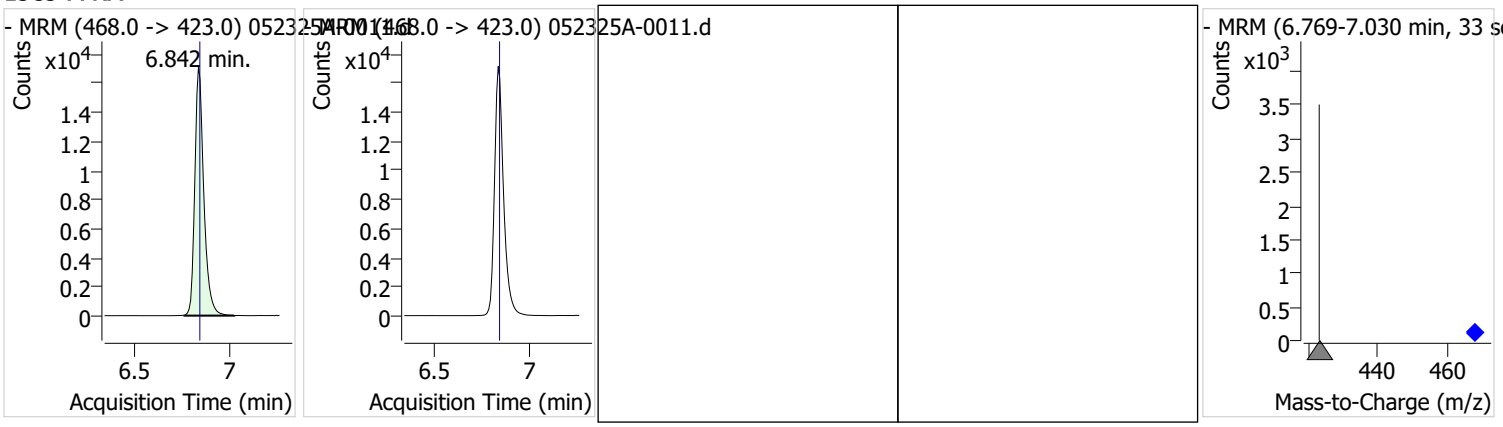
5:3FTCA



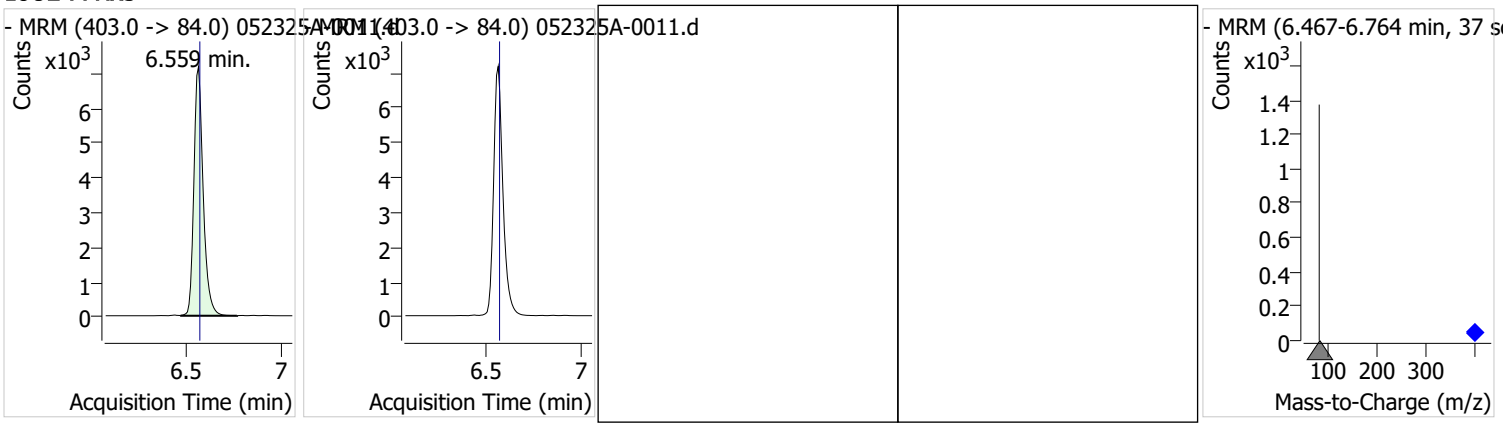
7:3FTCA



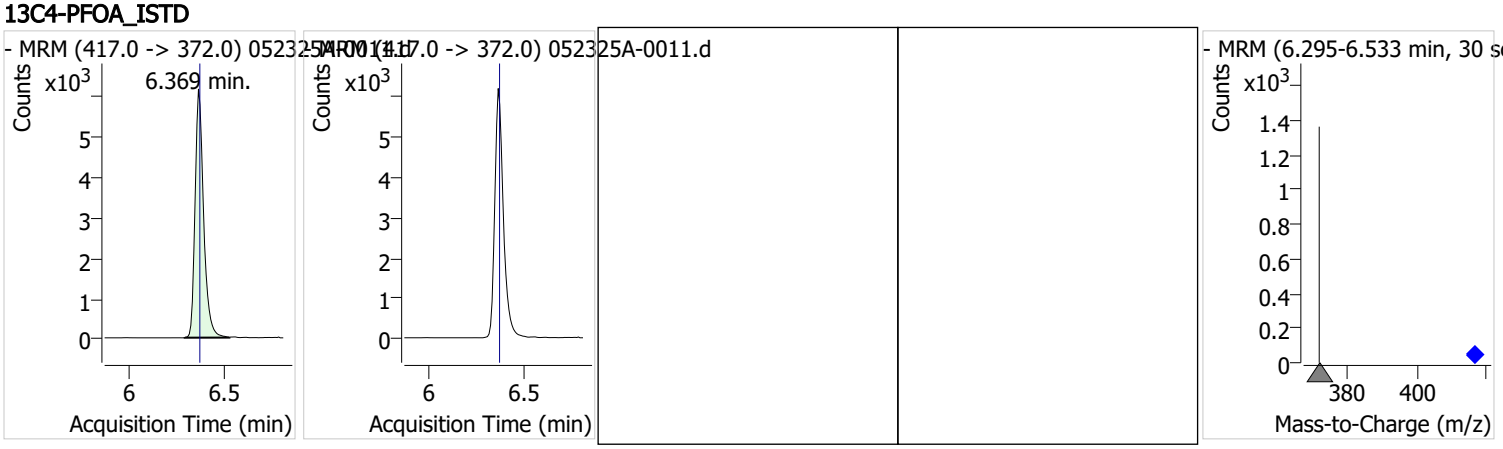
13C5-PFNA



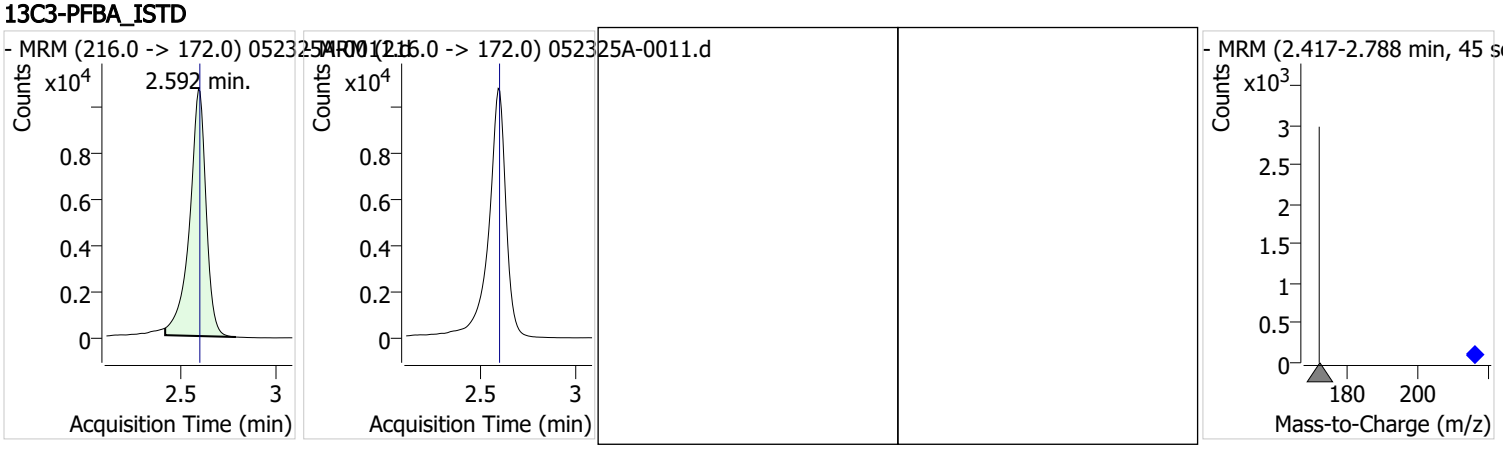
18O2-PFHxS



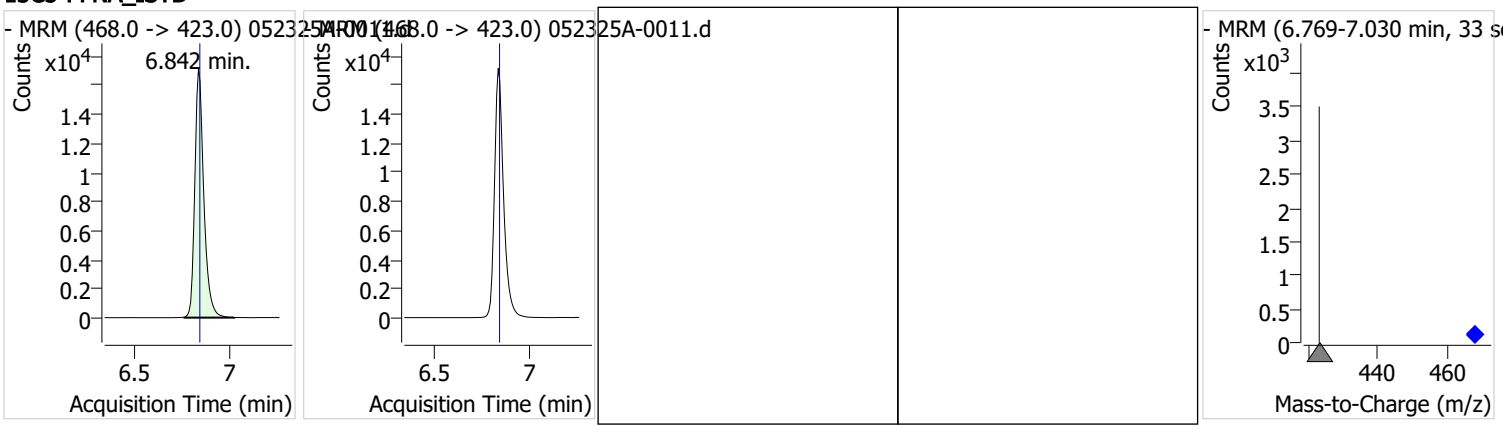
13C4-PFOA_ISTD



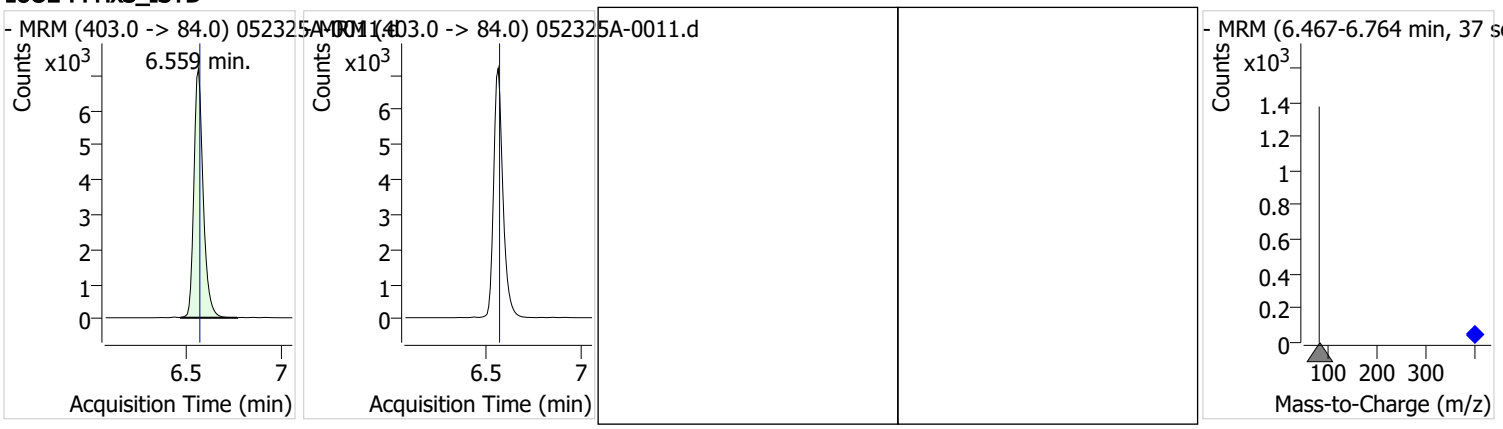
13C3-PFBA_ISTD



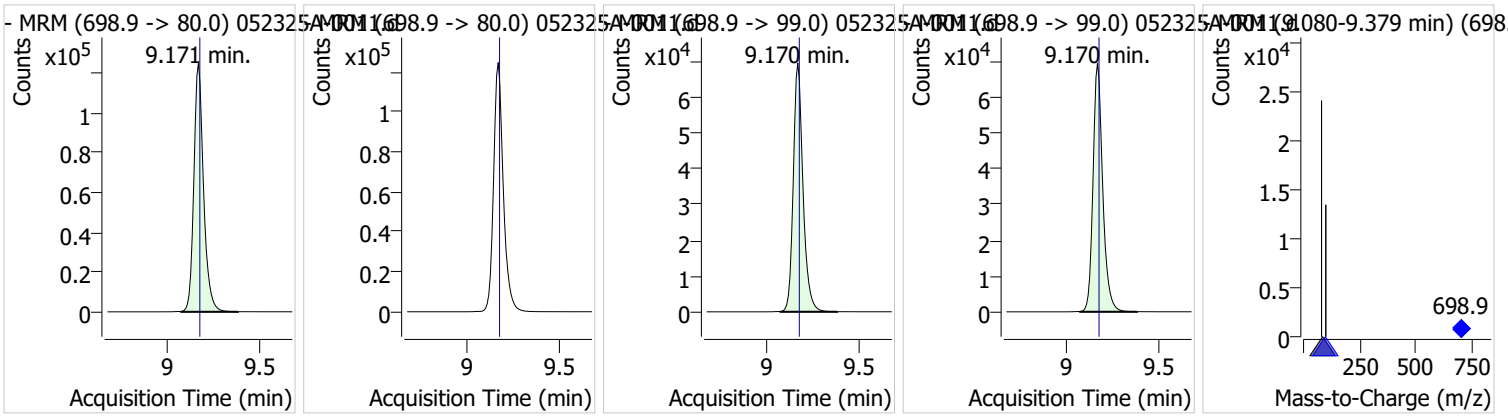
13C5-PFNA_ISTD



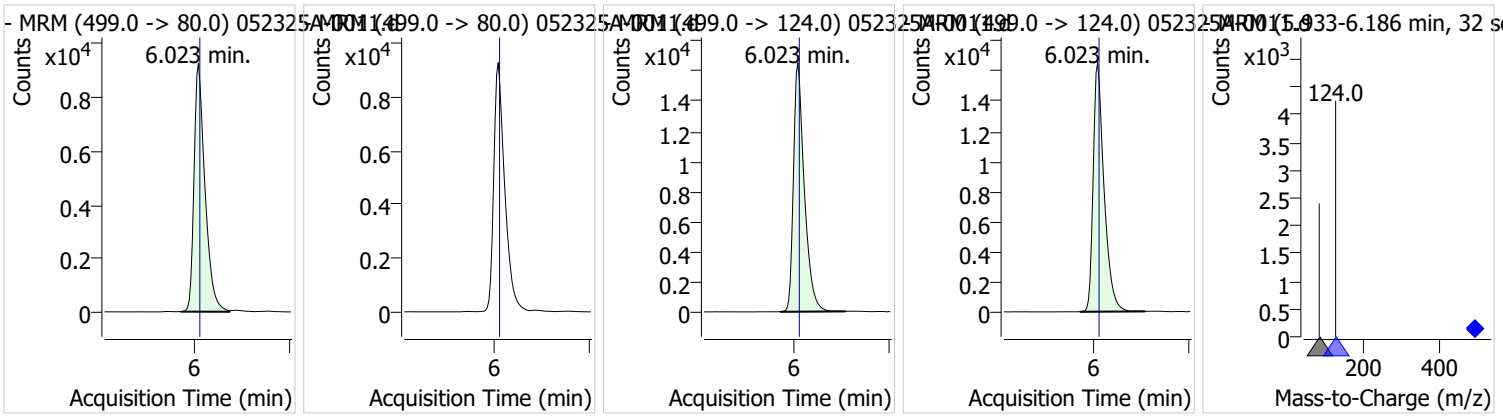
18O2-PFHxS_ISTD



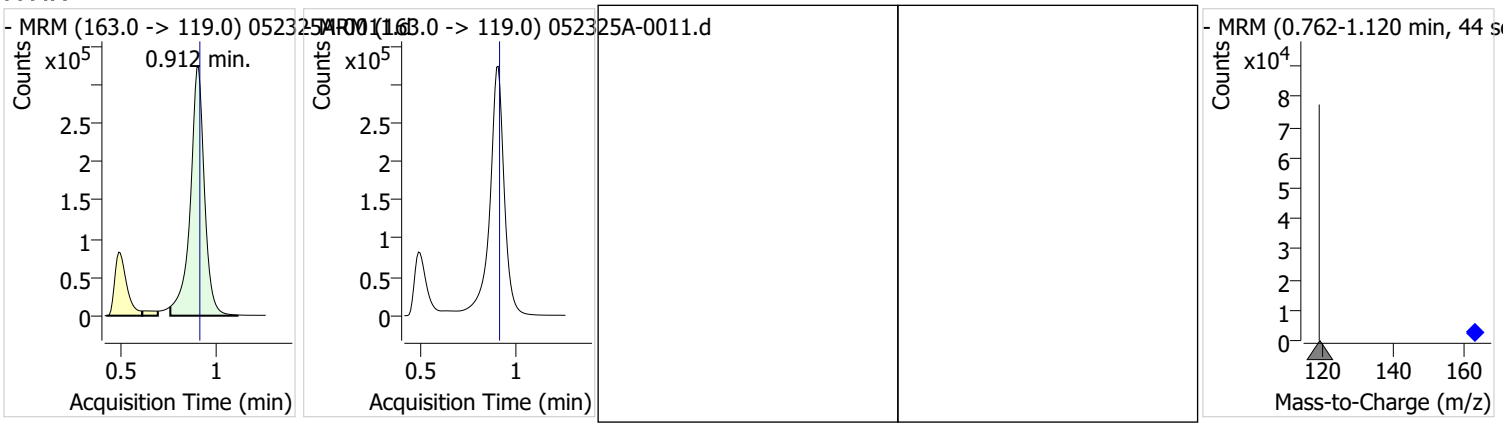
PFDoS



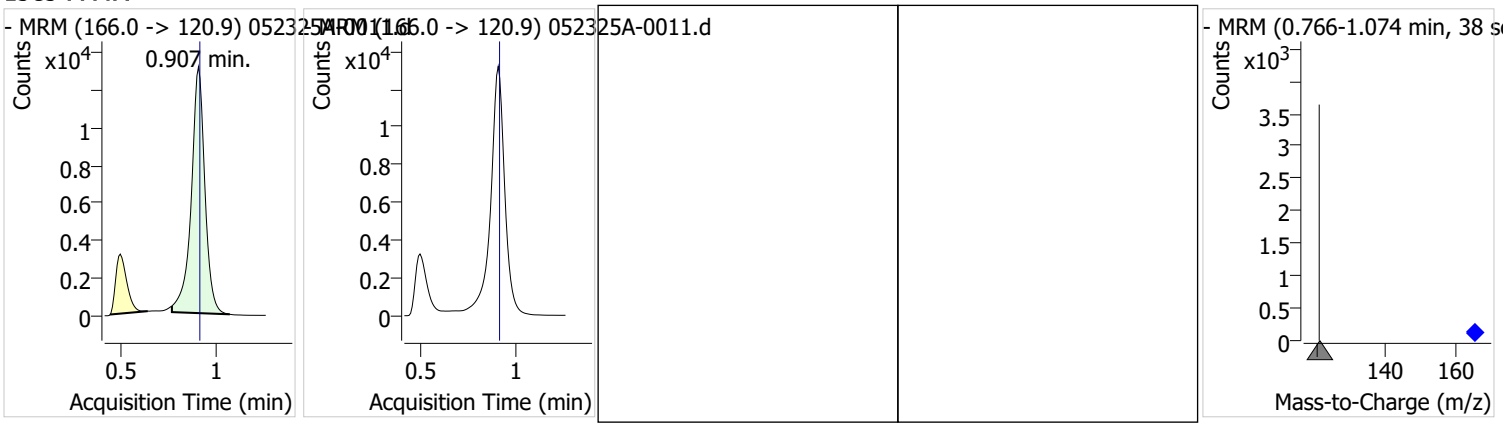
TDCA



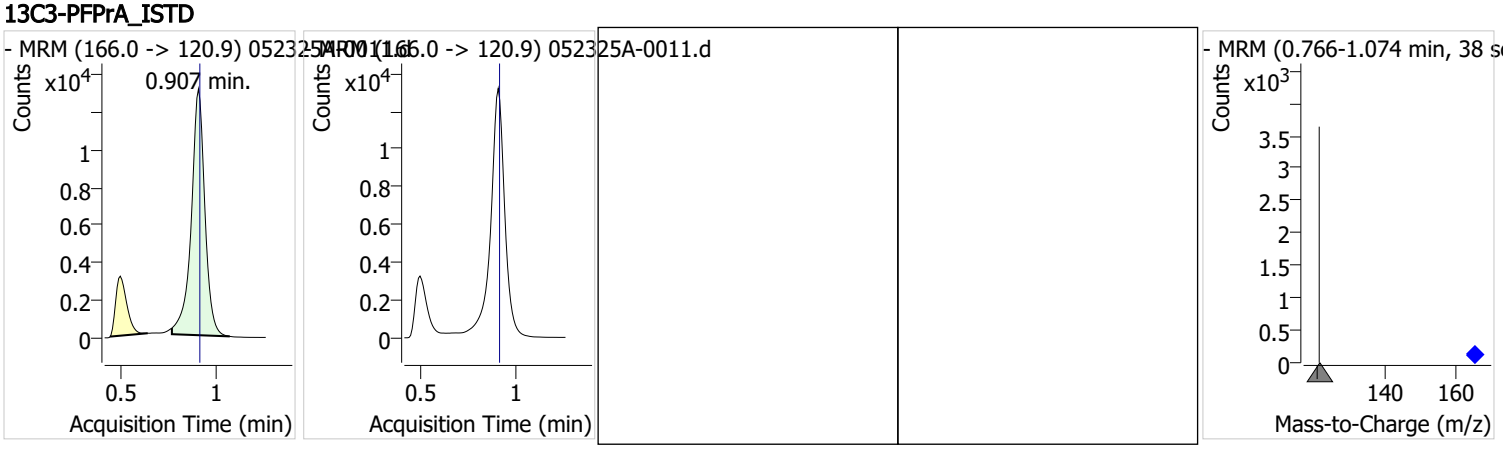
PFPrA



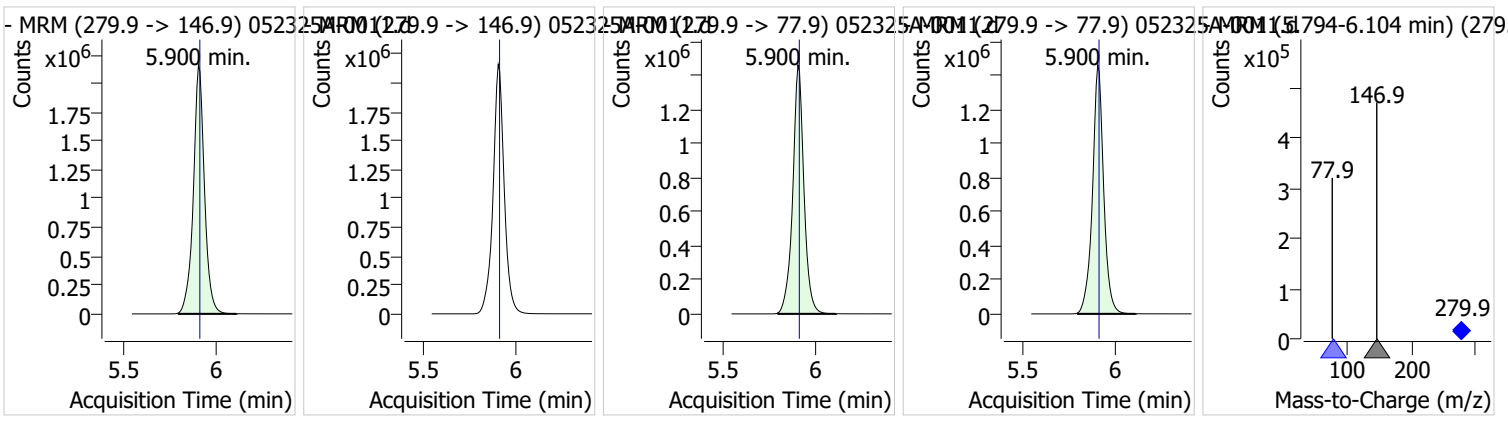
13C3-PFPrA



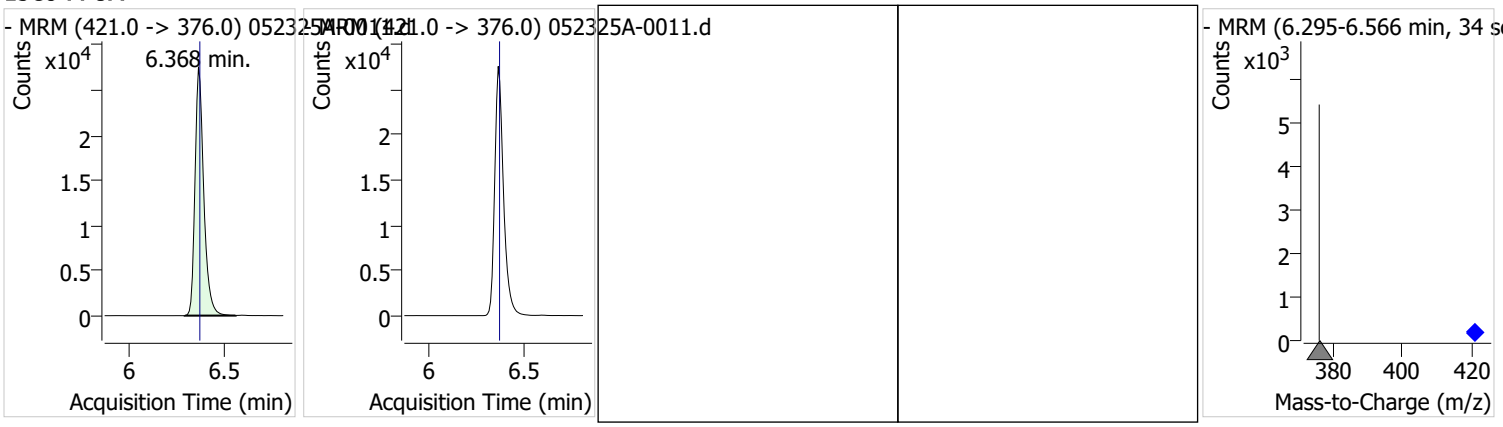
13C3-PFPrA_ISTD



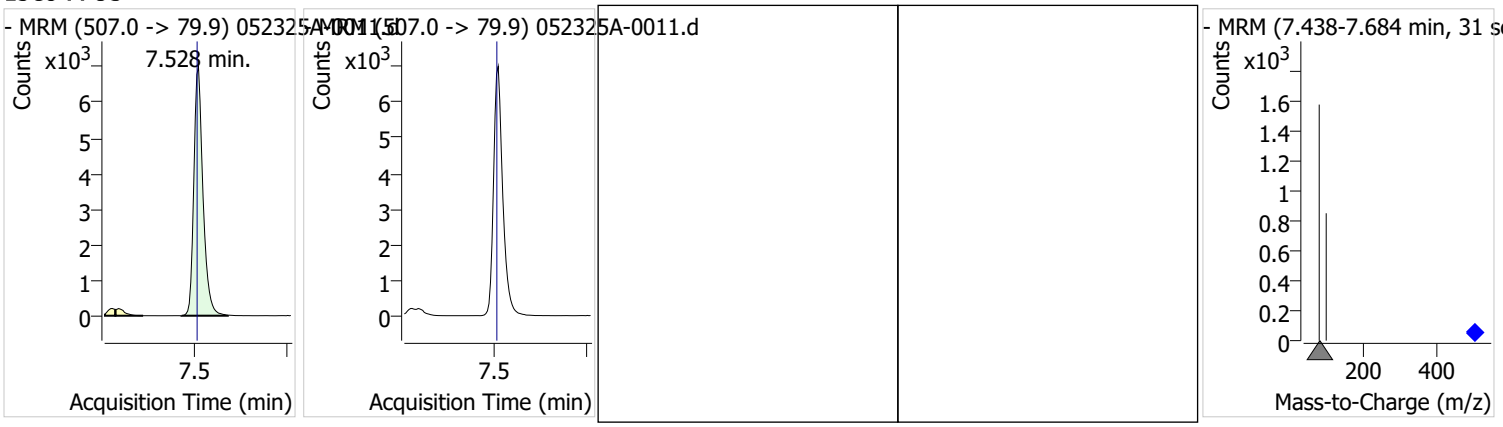
TFSI



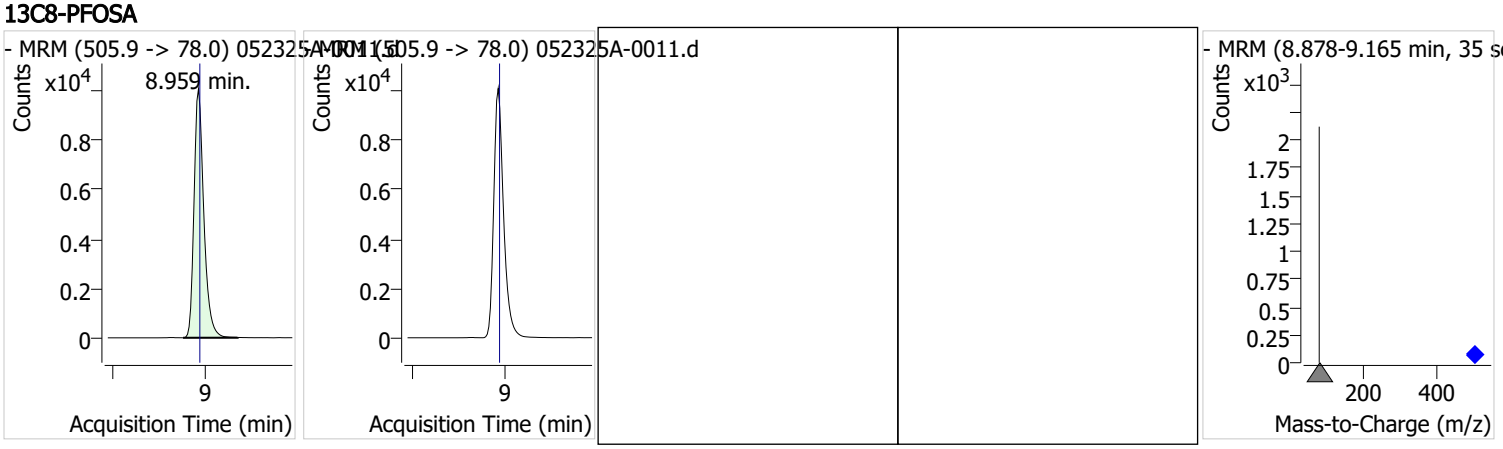
13C8-PFOA



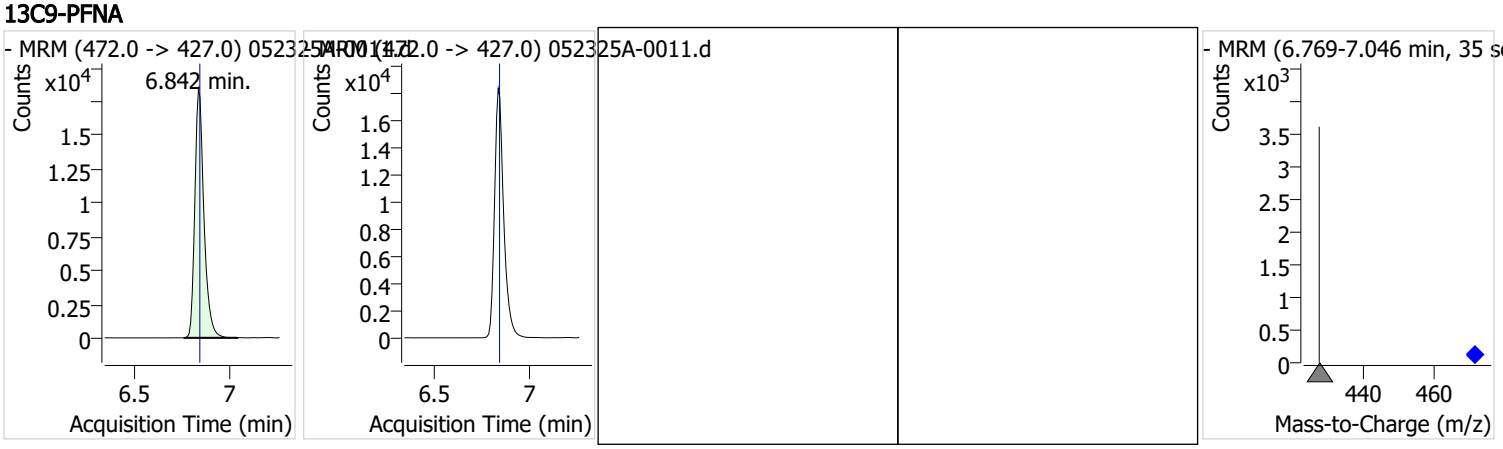
13C8-PFOS



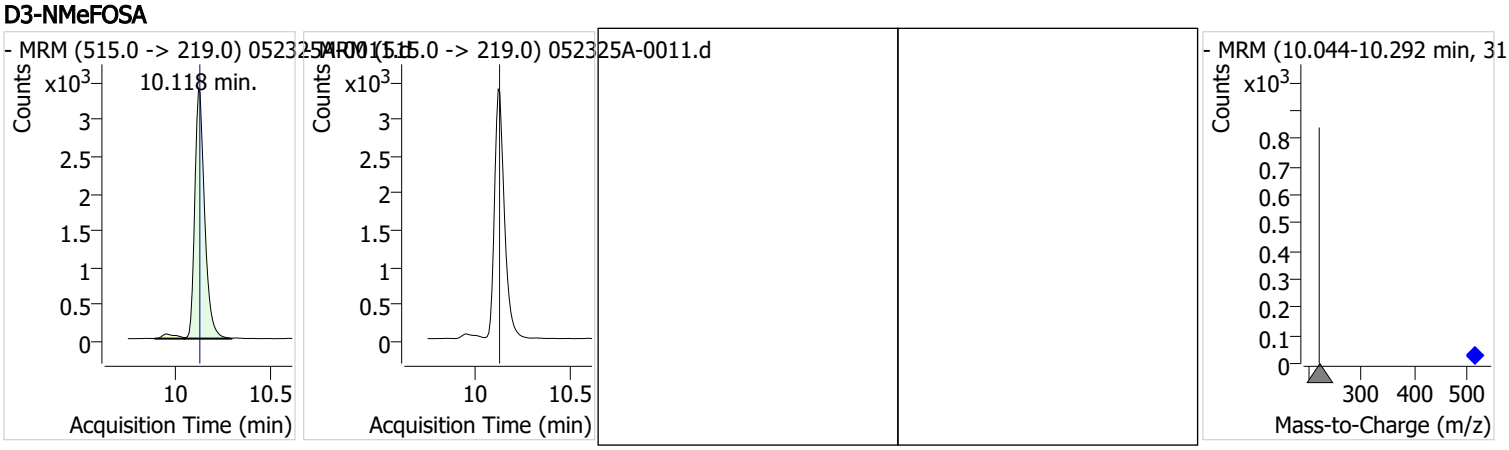
13C8-PFOSA



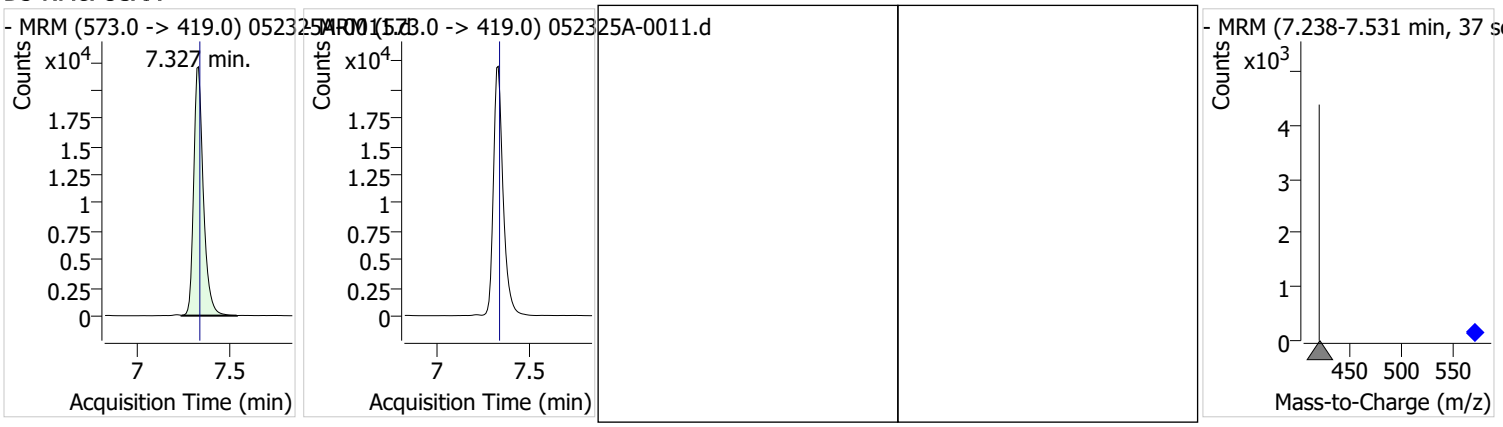
13C9-PFNA



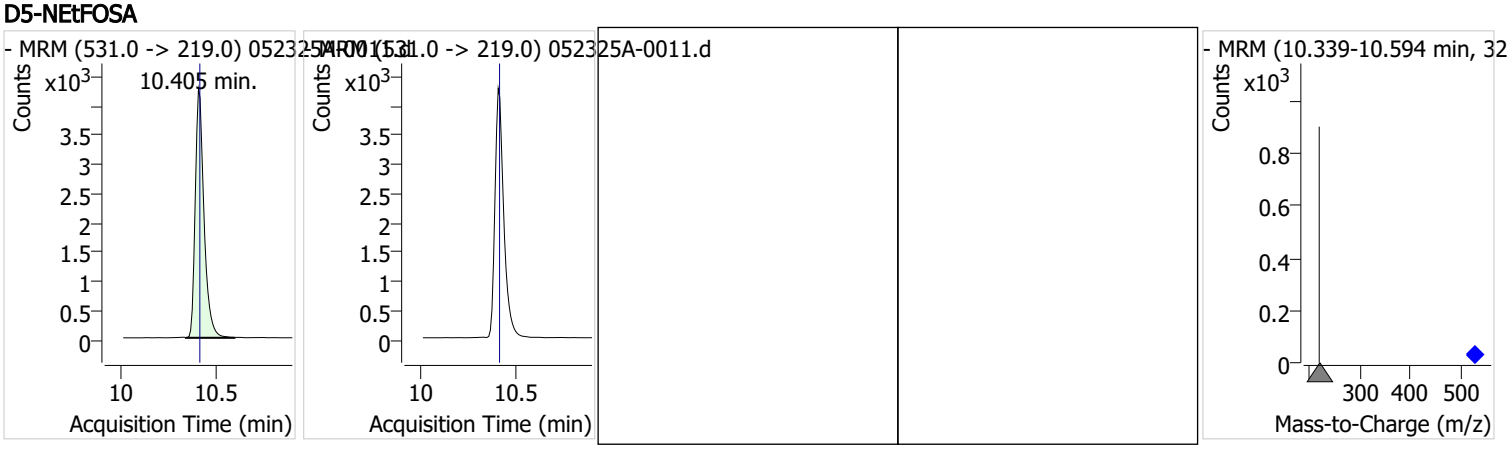
D3-NMeFOSA



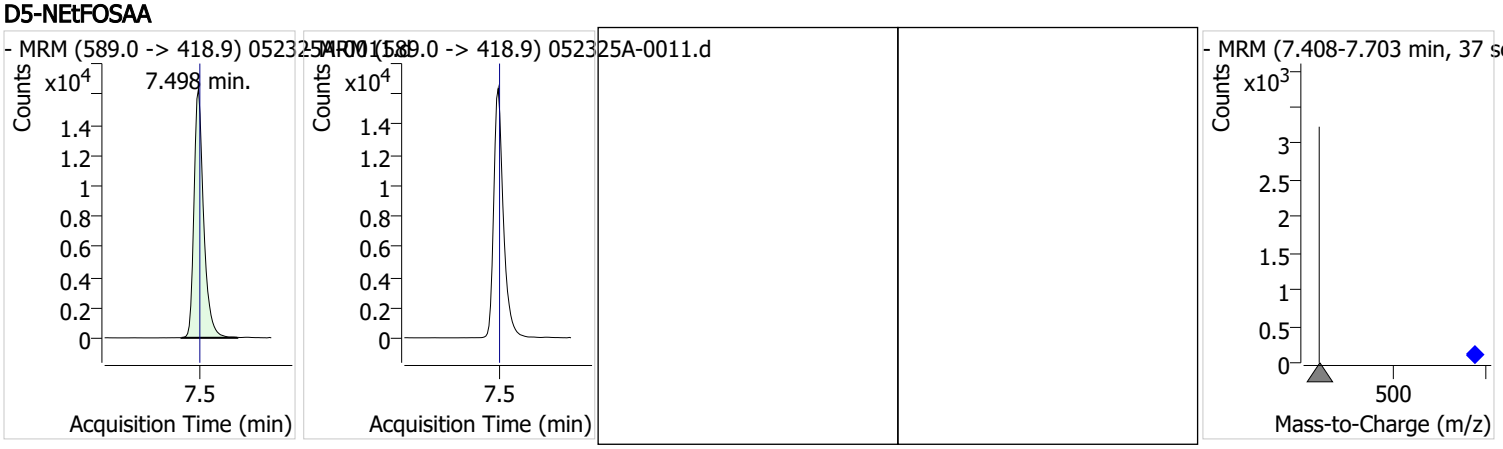
D3-NMeFOSAA



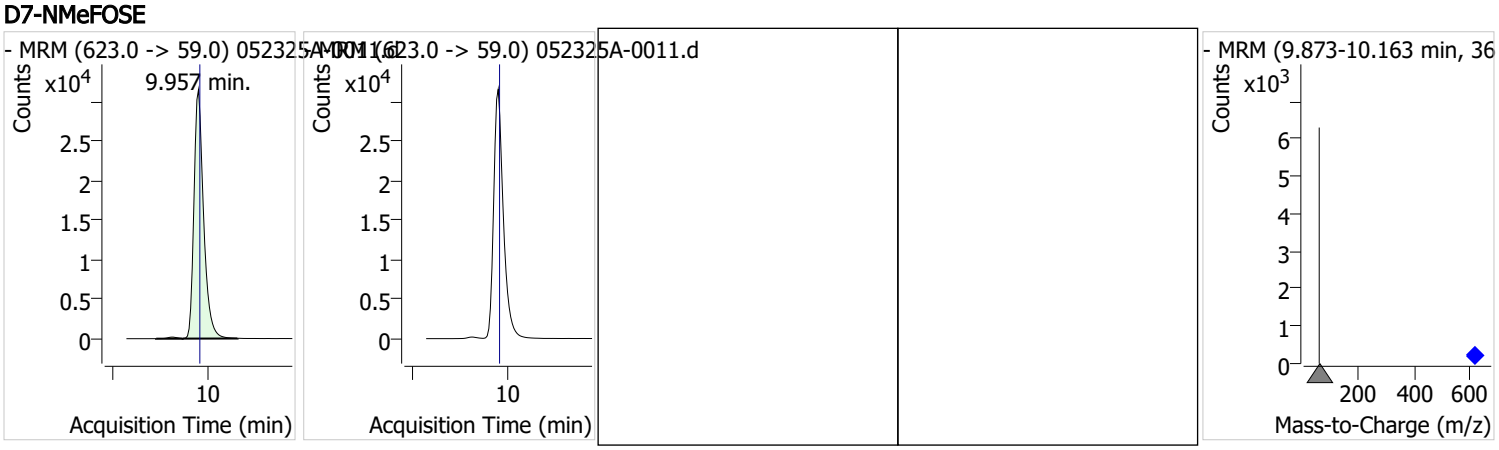
D5-NEtFOSA



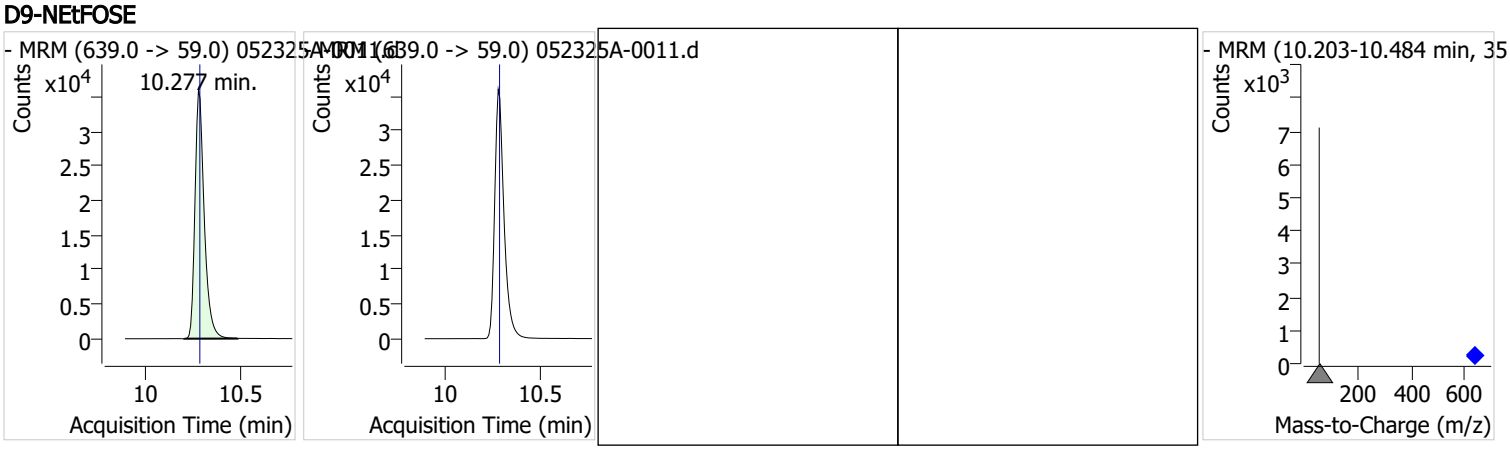
D5-NEtFOSAA



D7-NMeFOSE

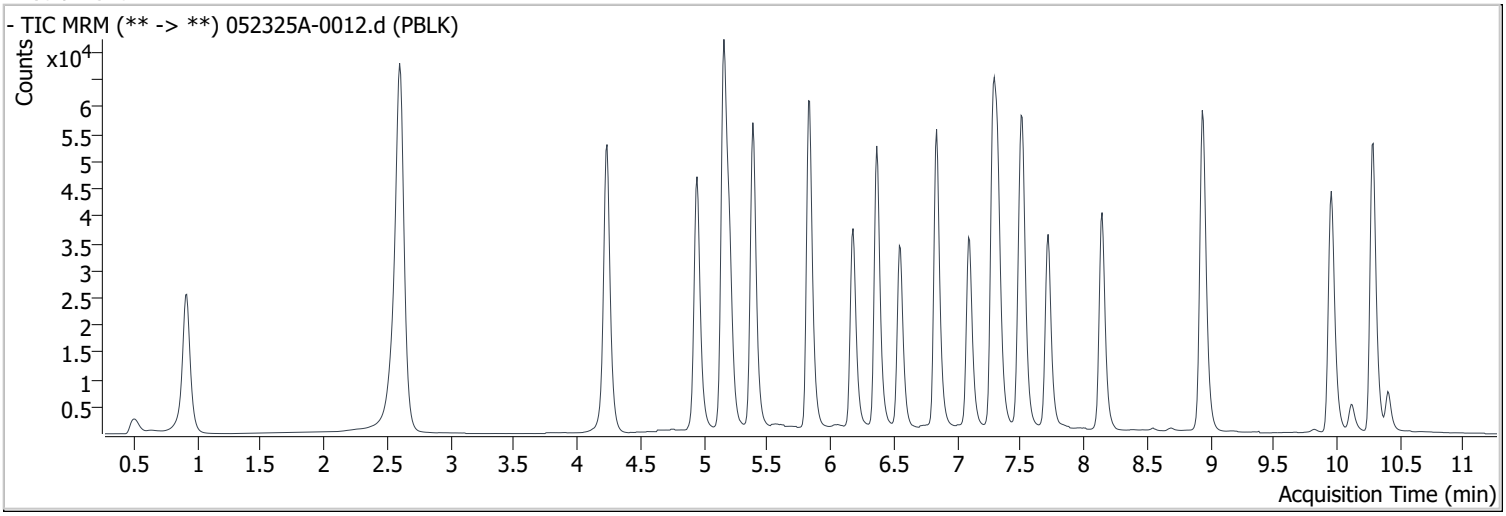


D9-NEtFOSE



Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 12:33 PM	**Data File**	052325A-0012.d
Sample Type	Blank	**Sample Name**	PBLK
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6317	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	122403	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	48144	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS	6.180	485	20.75		13C2-6:2FTS_ISTD	6.180	34031	0.0264	ng/ml			
427.0 -> 80.9	6.181	287	670.00	59.3								
ADONA	6.044	988	14.42		13C4-PFHpA_ISTD	5.831	197859	0.0077	ng/ml			
377.0 -> 85.1	6.044	480	13.87	48.6								
8:2FTS	7.092	337	90.93		13C2-8:2FTS_ISTD	7.092	32616	0.0189	ng/ml			
527.0 -> 81.0	7.084	229	1000.06	***67.8**								
13C4-PFBA	2.597	271681	49183.42		13C3-PFBA_ISTD	2.600	99871	11.1769	ng/ml			
9Cl-PF3ONS	7.846	1117	10.07		13C8-PFOS_ISTD	7.519	41531	0.0119	ng/ml			
533.0 -> 353.0	7.846	172	4.69	15.4								
11Cl-PF3OUdS	8.685	1673	84.00		13C8-PFOS_ISTD	7.519	41531	0.0254	ng/ml			
633.0 -> 453.0	8.693	367	60.48	21.9								
PFHpS					13C8-PFOS_ISTD	7.519	41531	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	48144	5967.65		18O2-PFHxS_ISTD	6.550	38665	7.2312	ng/ml			
13C2-6:2FTS	6.180	34031	9998.83		18O2-PFHxS_ISTD	6.550	38665	6.7841	ng/ml			
13C2-8:2FTS	7.092	32616	42105.08		18O2-PFHxS_ISTD	6.550	38665	6.4776	ng/ml			
13C2-PFDoA	8.146	134237	120579.44		13C2-PFDA_ISTD	7.290	76745	1.4000	ng/ml			
13C2-PFDA	7.290	76745	23310.95					1.5785	ng/ml			
13C2-PFHxA	5.162	98988	29467.46					3.2115	ng/ml			
13C2-PFTeDA	8.936	155036	10515.48		13C2-PFDA_ISTD	7.290	76745	1.4390	ng/ml			
13C4-PFOS	7.520	36878	2680.20					3.3455	ng/ml			
13C3-HFPODA	5.394	122403	694236.75		13C2-PFHxA_ISTD	5.162	98988	11.5734	ng/ml			
13C3-PFBS	5.205	70259	265529.12		18O2-PFHxS_ISTD	6.550	38665	2.6615	ng/ml			
13C3-PFHxS	6.551	47787	118746.28		18O2-PFHxS_ISTD	6.550	38665	2.6734	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	106077	-	ng/ml			
584.0 -> 526.0				*								

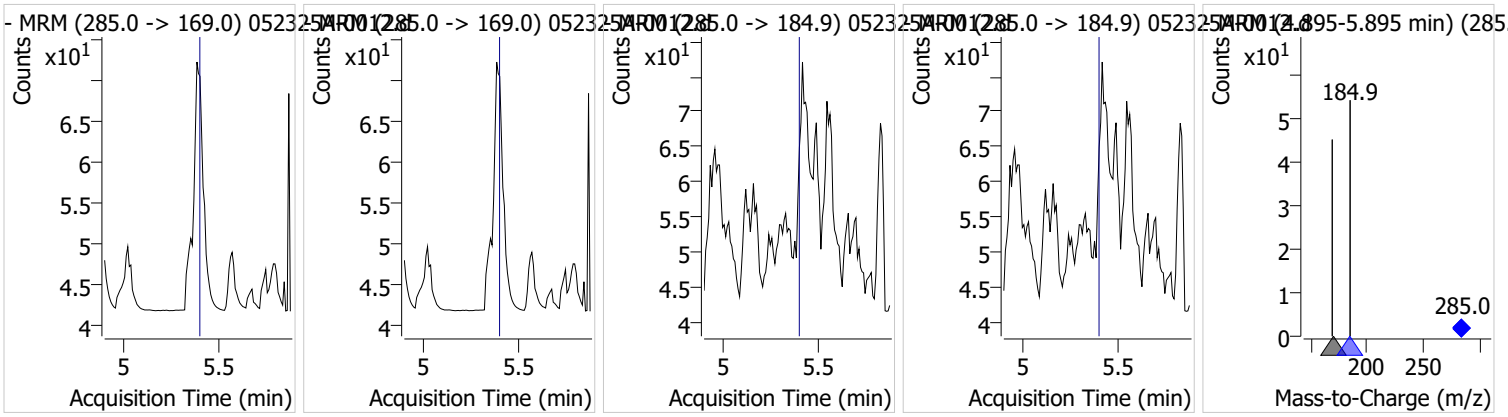
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	197859	59566.98		13C2-PFHxA_ISTD	5.162	98988	2.8147	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.319	128579	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.597	271681	-	ng/ml			
13C5-PFHxA	5.161	123388	36872.25		13C2-PFHxA_ISTD	5.162	98988	2.8079	ng/ml			
PFBS					13C3-PFBS_ISTD	5.205	70259	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	16759	-	ng/ml			
512.0 -> 169.0				*								
PFDA	7.298	344	13.07		13C6-PFDA_ISTD	7.289	106414	0.0040	ng/ml			
513.0 -> 219.0	7.307	97	4.26	28.3								
PFDoA	8.138	741	13.45		13C2-PFDoA_ISTD	8.146	134237	0.0061	ng/ml			
613.0 -> 319.0	8.139	69	4.57	9.3								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	21245	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.831	197859	-	ng/ml			
362.9 -> 169.0				*								
PFHxA	5.163	0	0.00		13C5-PFHxA_ISTD	5.161	123388	-	ng/ml	✔	INT	
313.0 -> 118.9				*								
NMeFOSE	9.983	2305	443.94		D7-NMeFOSE_ISTD	9.957	158208	0.2960	ng/ml	✔	BA	
PFHxS	6.551	274	477.88		13C3-PFHxS_ISTD	6.551	47787	0.0113	ng/ml	✔	GT	
398.9 -> 99.0	6.551	143	17.38	52.3								
PFNA					13C9-PFNA_ISTD	6.842	95921	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE	10.303	3042	659.15		D9-NEtFOSE_ISTD	10.286	182372	0.3078	ng/ml	✔	BA	NBH 5/23/25
PFOA	6.369	844	21.15		13C8-PFOA_ISTD	6.368	137591	0.0130	ng/ml	✔	GT	
413.0 -> 169.0	6.361	212	64.40	25.2								
PFOS	7.399	554	70.55		13C8-PFOS_ISTD	7.519	41531	0.0225	ng/ml			
499.0 -> 99.0	7.402	272	48.50	49.1								
PFPeA					13C5-PFPeA_ISTD	4.237	201173	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.597	271681	-	ng/ml			
13C5-PFPeA	4.237	201173	13997.98		13C2-PFHxA_ISTD	5.162	98988	5.7384	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	201173	-	ng/ml			
PFTrDA	8.550	1409	31.09		13C2-PFDoA_ISTD	8.146	134237	0.0100	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	123388	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	106414	32037.10		13C2-PFDA_ISTD	7.290	76745	1.4726	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	123388	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.959	56067	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	117479	33443.99		13C2-PFDA_ISTD	7.290	76745	1.4556	ng/ml			
13C4-PFOA	6.369	27200	8311.98					3.2897	ng/ml			
PFDS					13C8-PFOS_ISTD	7.519	41531	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.519	41531	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.551	47787	-	ng/ml			
349.0 -> 98.9				*								

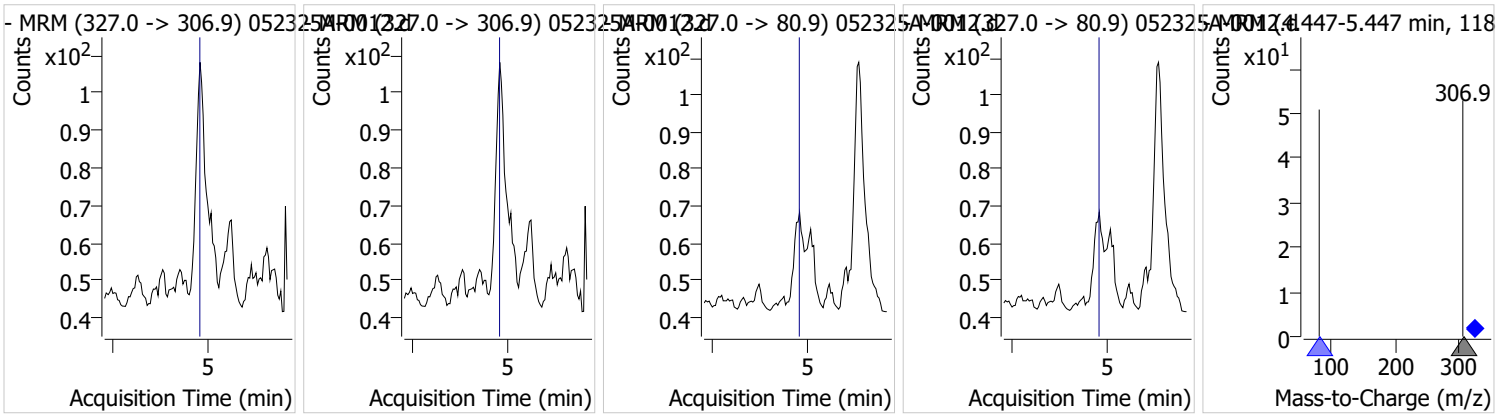
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA	8.937	2461	54.14		13C2-PFTeDA_ISTD	8.936	155036	0.0172	ng/ml			
713.0 -> 168.9	8.938	153	922.24	6.2								
PFUnA	7.722	0	0.00		13C7-PFUnA_ISTD	7.721	117479	-	ng/ml	✔	INT sn	
563.0 -> 269.1				*								
13C3-PFBA	2.600	99871	51204.71					6.5763	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	201173	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	123388	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA	6.746	544	121.08		13C9-PFNA_ISTD	6.842	95921	0.1060	ng/ml	✔	BA	
441.0 -> 337.0	6.737	417	15.98	76.7								
13C5-PFNA	6.842	79650	235148.08					1.6842	ng/ml			
18O2-PFHxS	6.550	38665	53538.85					3.4039	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.519	41531	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.519	41531	-	ng/ml			
499.0 -> 124.0				*								
PFPrA					13C3-PFPrA_ISTD	0.916	119295	-	ng/ml			
13C3-PFPrA	0.916	119295	25528.94		13C3-PFBA_ISTD	2.600	99871	11.0417	ng/ml			
TFSI	5.900	514	6.76		13C3-HFPODA_ISTD	5.394	122403	0.0412	ng/ml			
279.9 -> 77.9	5.908	262	42.06	*51.0								
13C8-PFOA	6.368	137591	985662.34		13C4-PFOA_ISTD	6.369	27200	2.6999	ng/ml			
13C8-PFOS	7.519	41531	12069.68		13C4-PFOS_ISTD	7.520	36878	2.8795	ng/ml			
13C8-PFOSA	8.959	56067	15566.42		13C4-PFOS_ISTD	7.520	36878	2.7035	ng/ml			
13C9-PFNA	6.842	95921	29739.63		13C5-PFNA_ISTD	6.842	79650	1.3630	ng/ml			
D3-NMeFOSA	10.118	16759	3123.92		13C4-PFOS_ISTD	7.520	36878	2.5364	ng/ml			
D3-NMeFOSAA	7.319	128579	6410.13		13C4-PFOS_ISTD	7.520	36878	5.6056	ng/ml			
D5-NEtFOSA	10.405	21245	3890.43		13C4-PFOS_ISTD	7.520	36878	2.6748	ng/ml			
D5-NEtFOSAA	7.498	106077	2736.09		13C4-PFOS_ISTD	7.520	36878	6.0893	ng/ml			
D7-NMeFOSE	9.957	158208	15765.02		13C4-PFOS_ISTD	7.520	36878	24.9406	ng/ml			
D9-NEtFOSE	10.286	182372	52387.94		13C4-PFOS_ISTD	7.520	36878	25.8907	ng/ml			

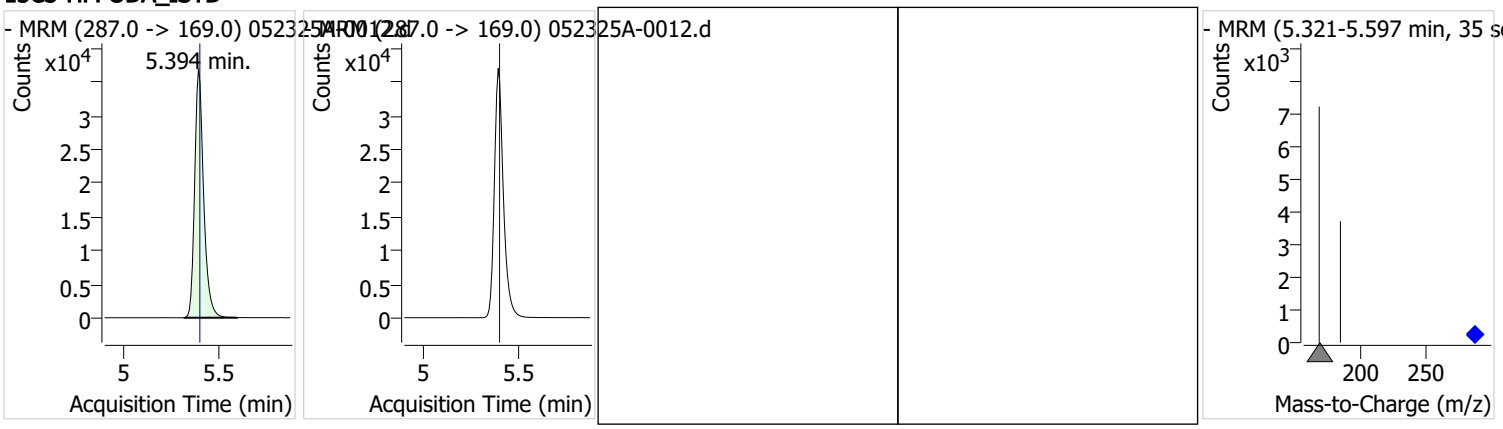
HFPO-DA



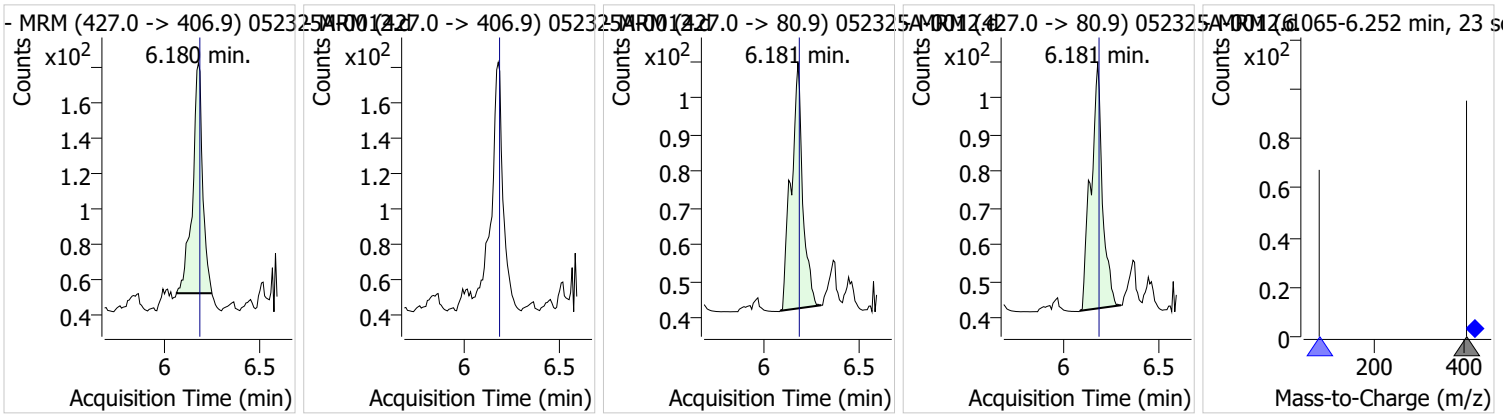
4:2FTS



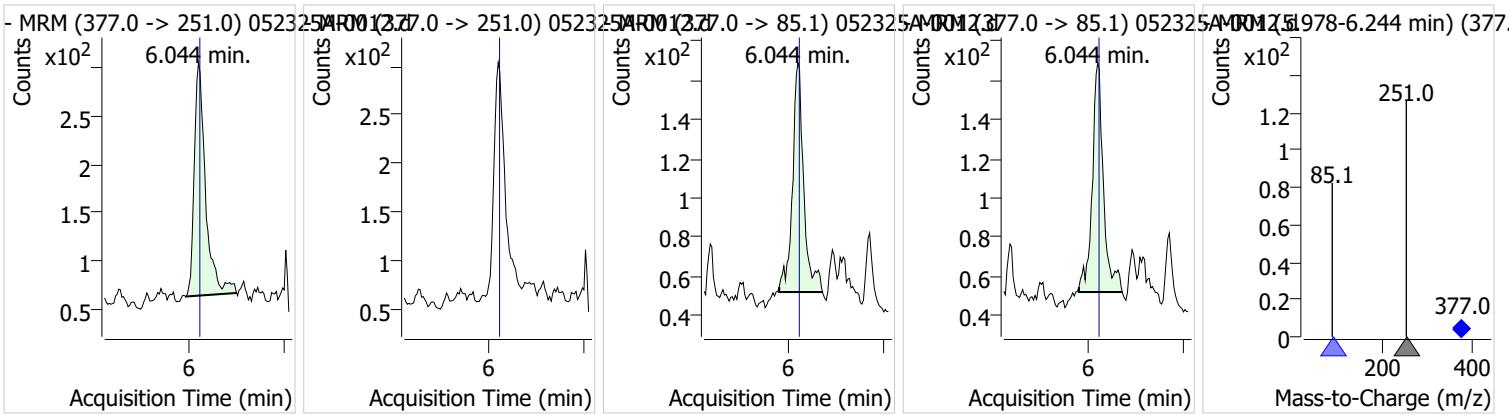
13C3-HFPODA_ISTD



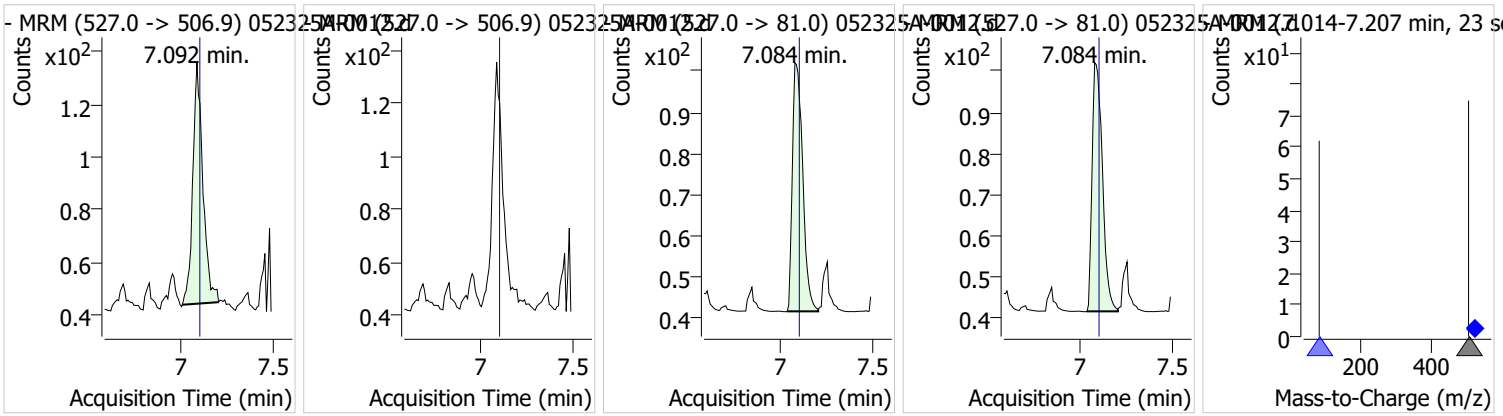
6:2FTS



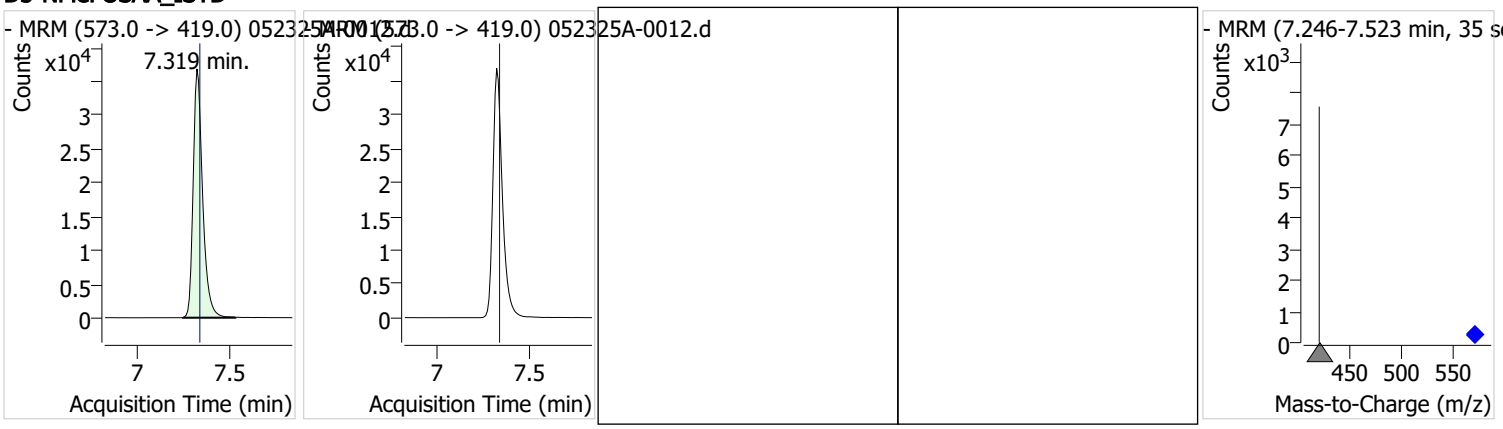
ADONA



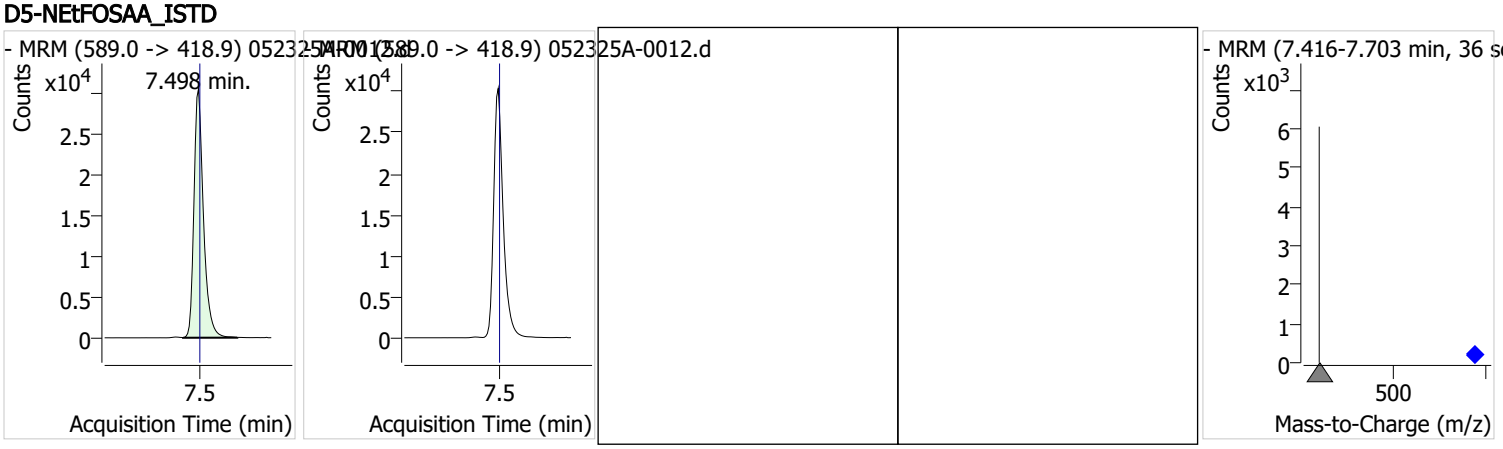
8:2FTS



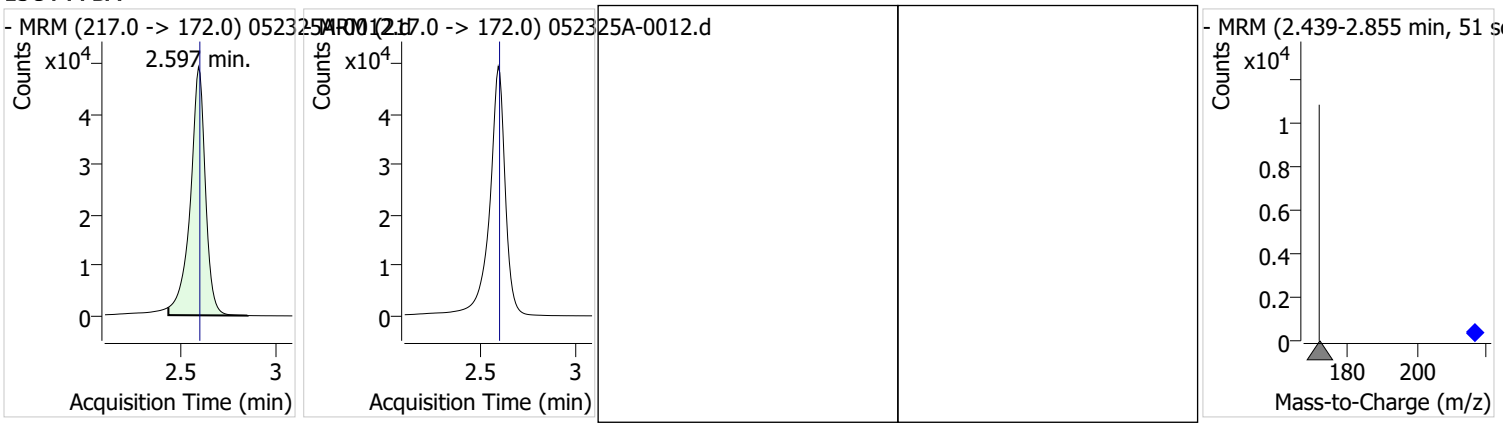
D3-NMeFOSAA_ISTD



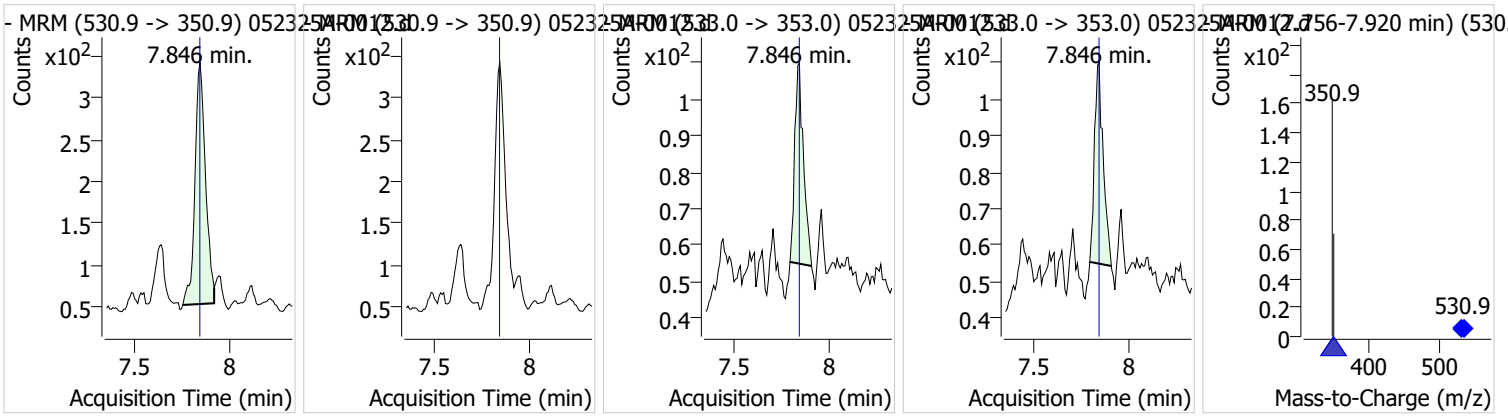
D5-NEtFOSAA_ISTD



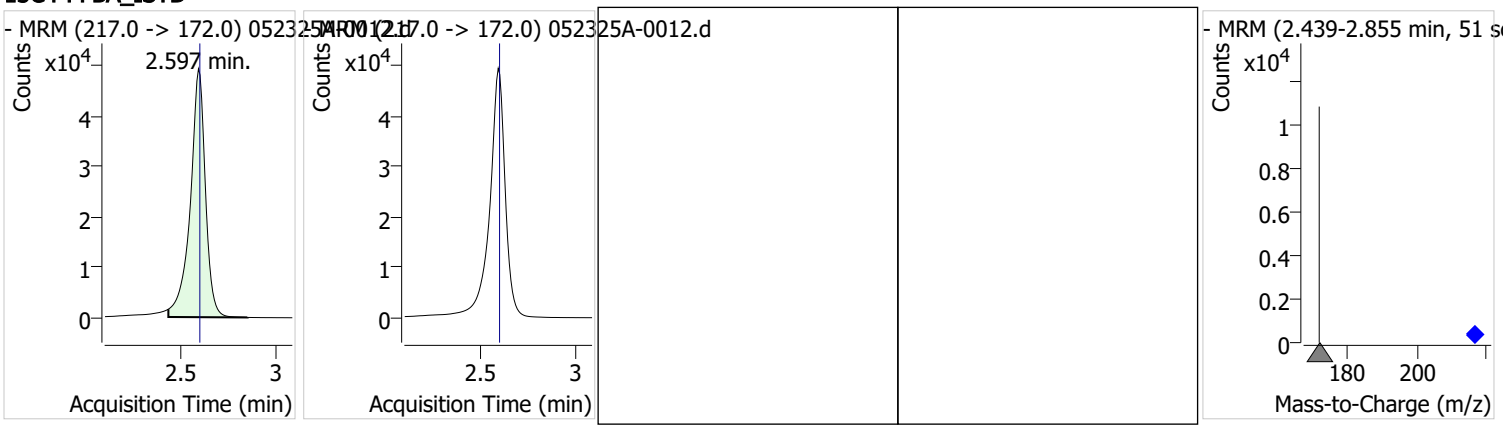
13C4-PFBA



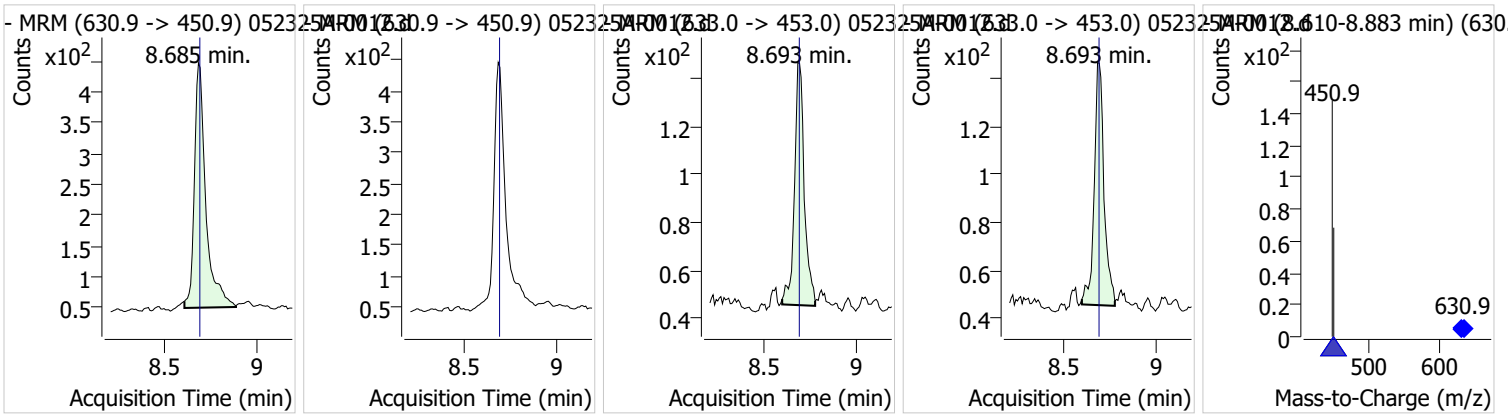
9Cl-PF3ONS



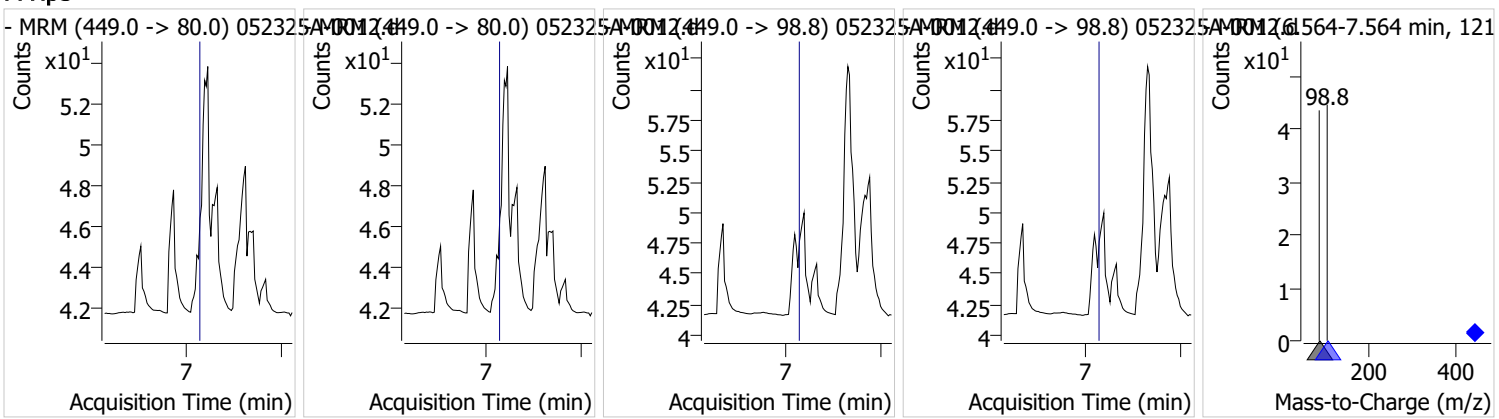
13C4-PFBA_ISTD



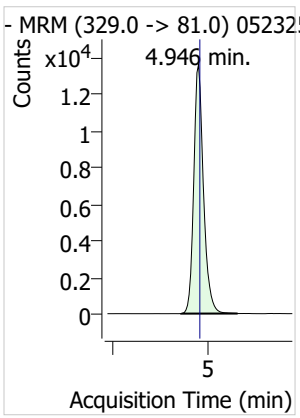
11Cl-PF3OUdS

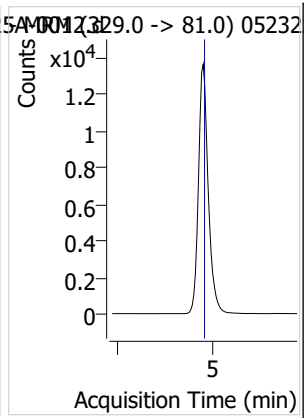


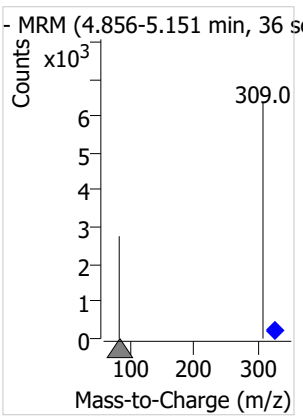
PFHpS



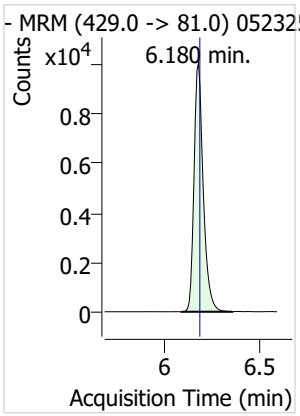
13C2-4:2FTS

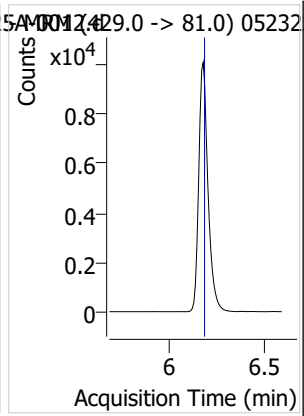


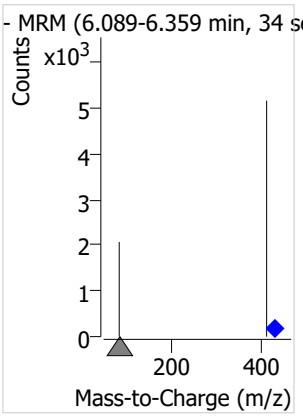




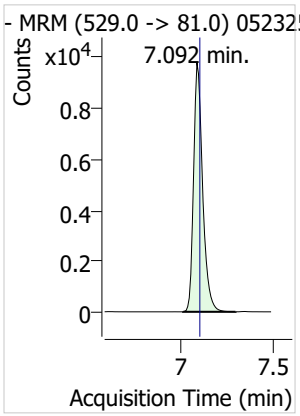
13C2-6:2FTS

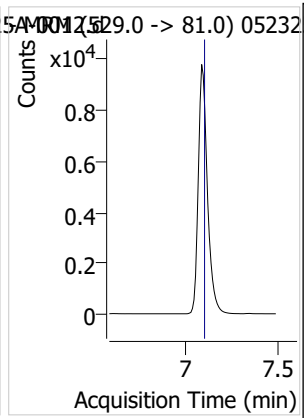


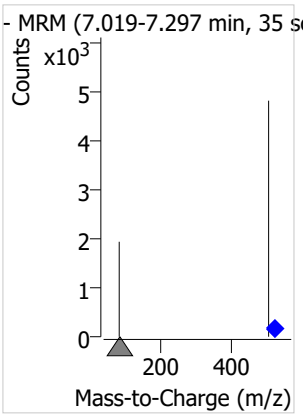




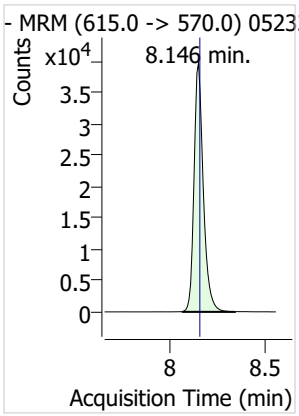
13C2-8:2FTS

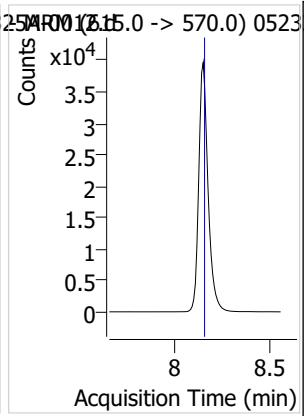


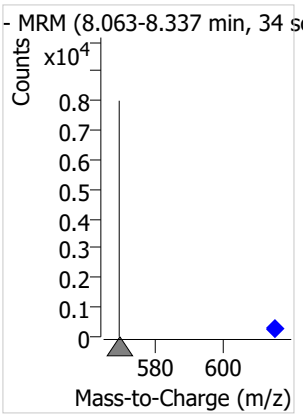




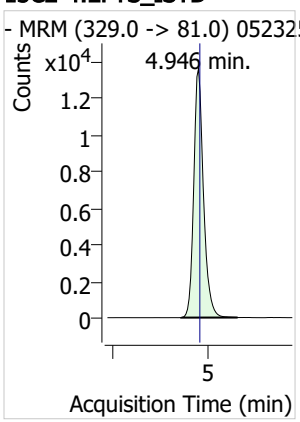
13C2-PFDoA

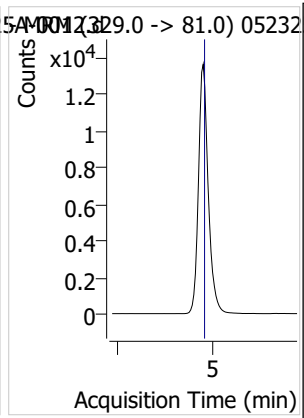


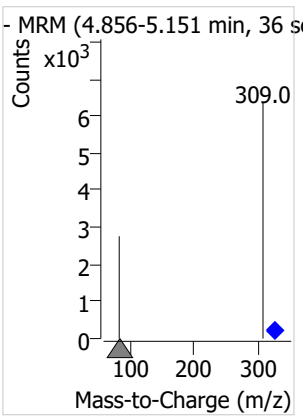




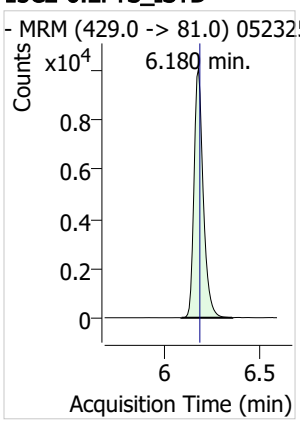
13C2-4:2FTS_ISTD

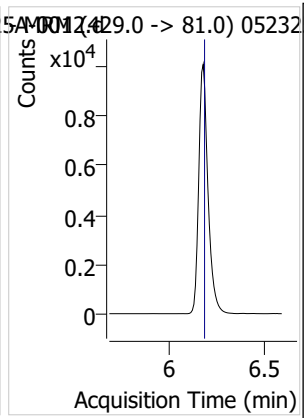


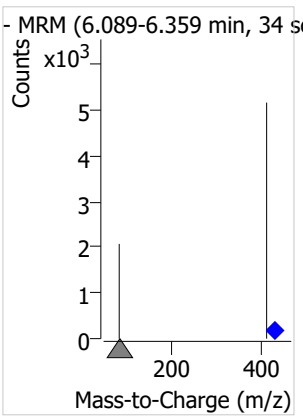




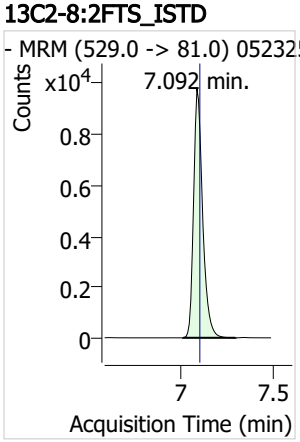
13C2-6:2FTS_ISTD

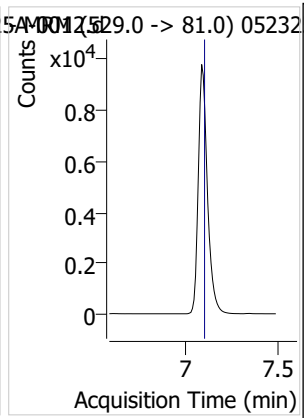


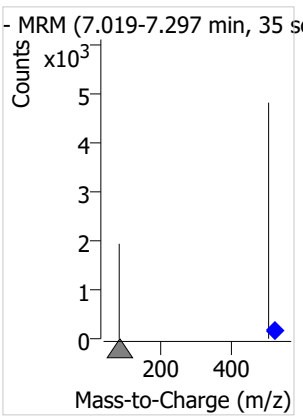




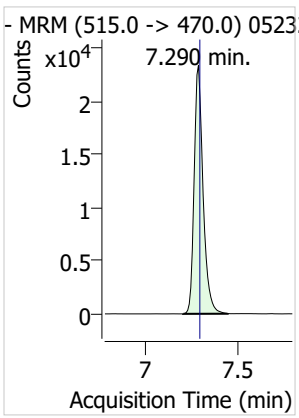
13C2-8:2FTS_ISTD

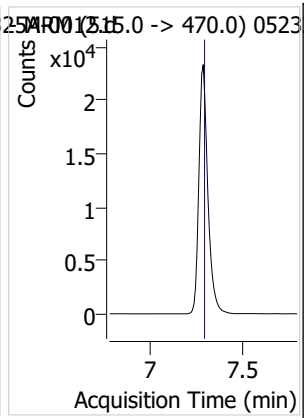


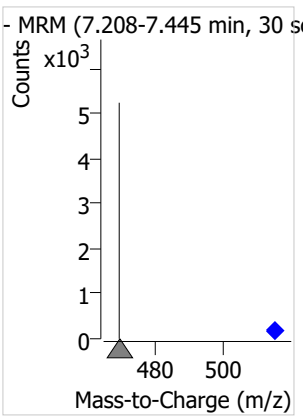




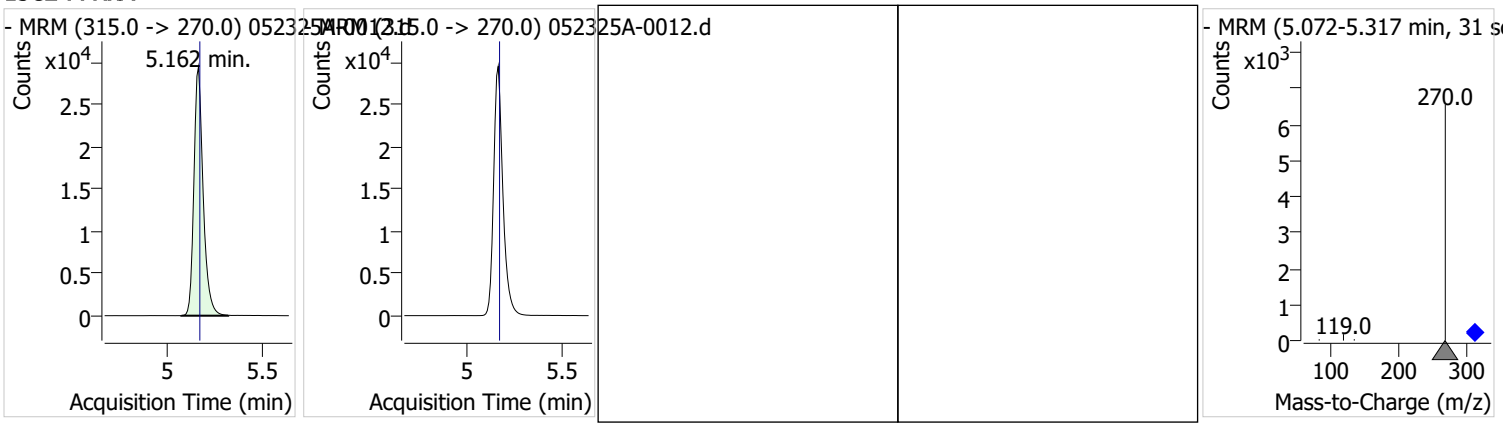
13C2-PFDA



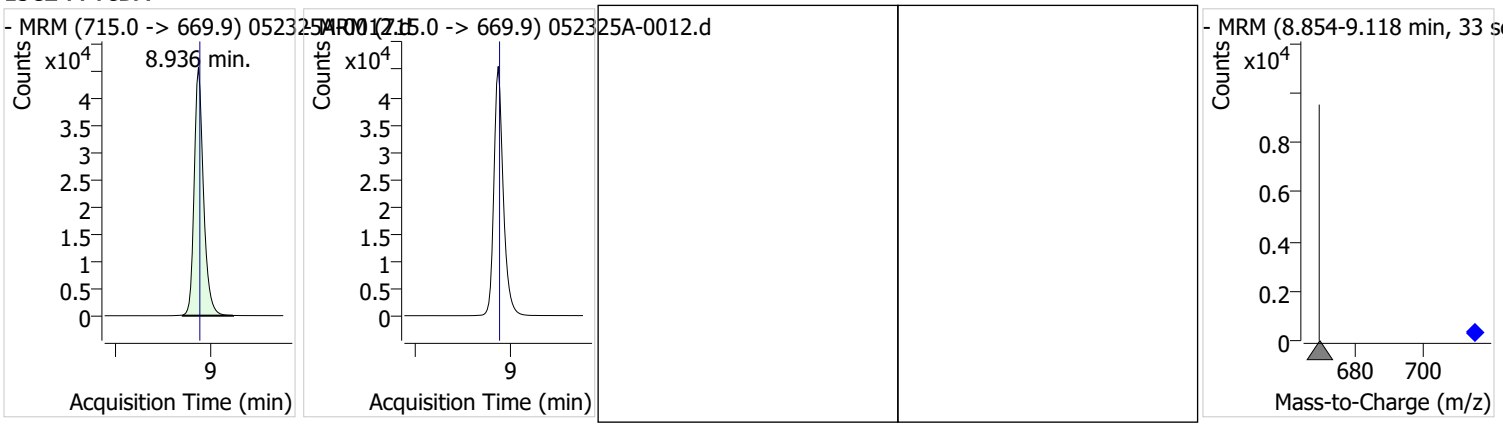




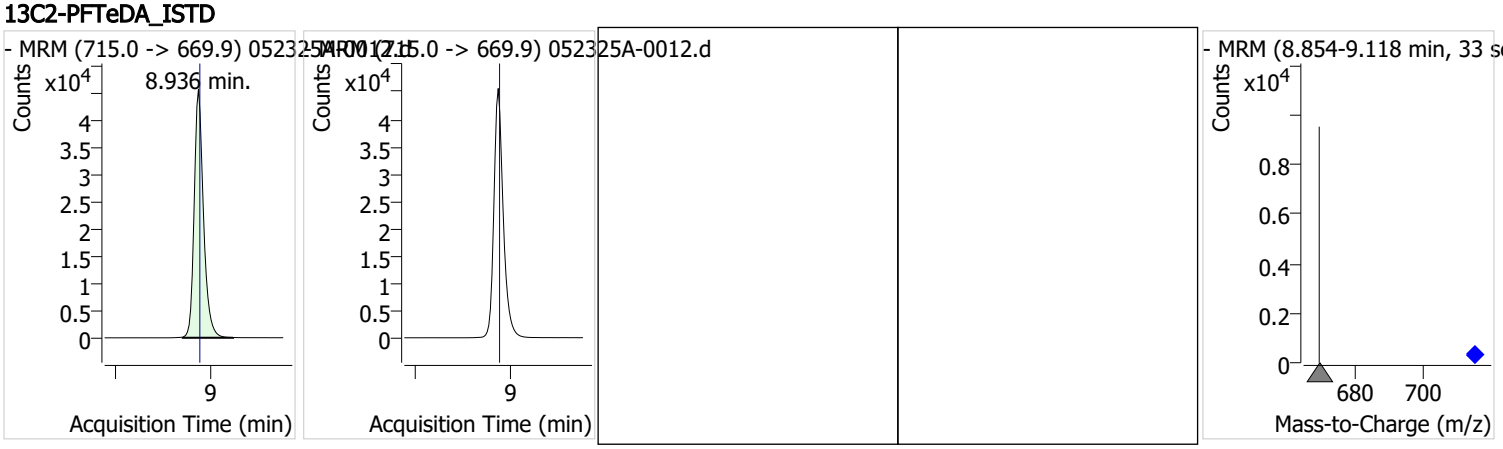
13C2-PFHxA



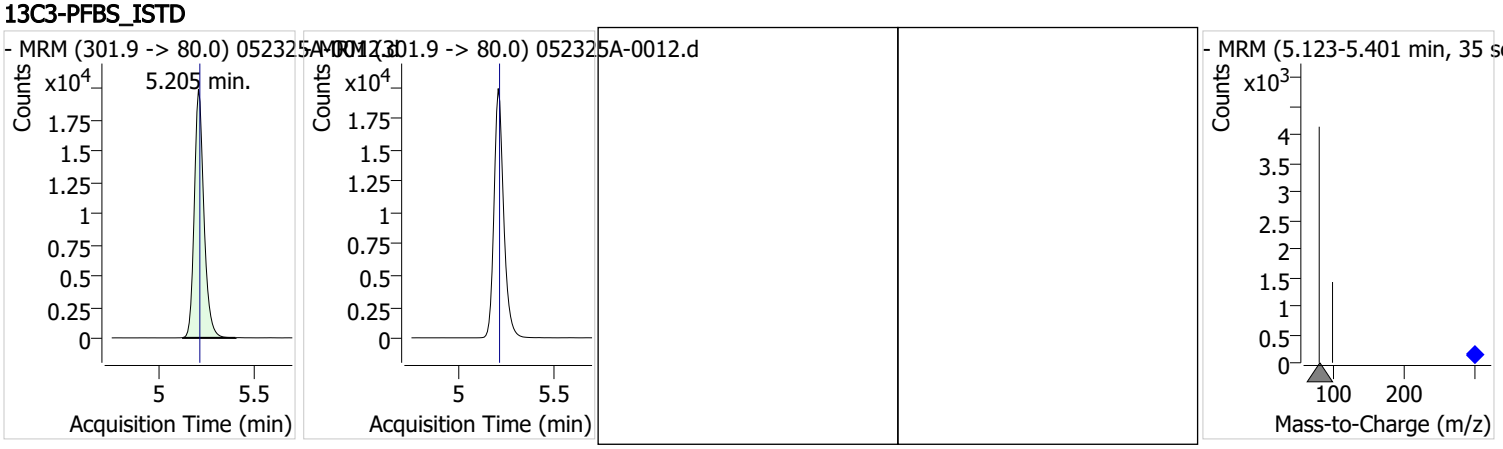
13C2-PFTeDA



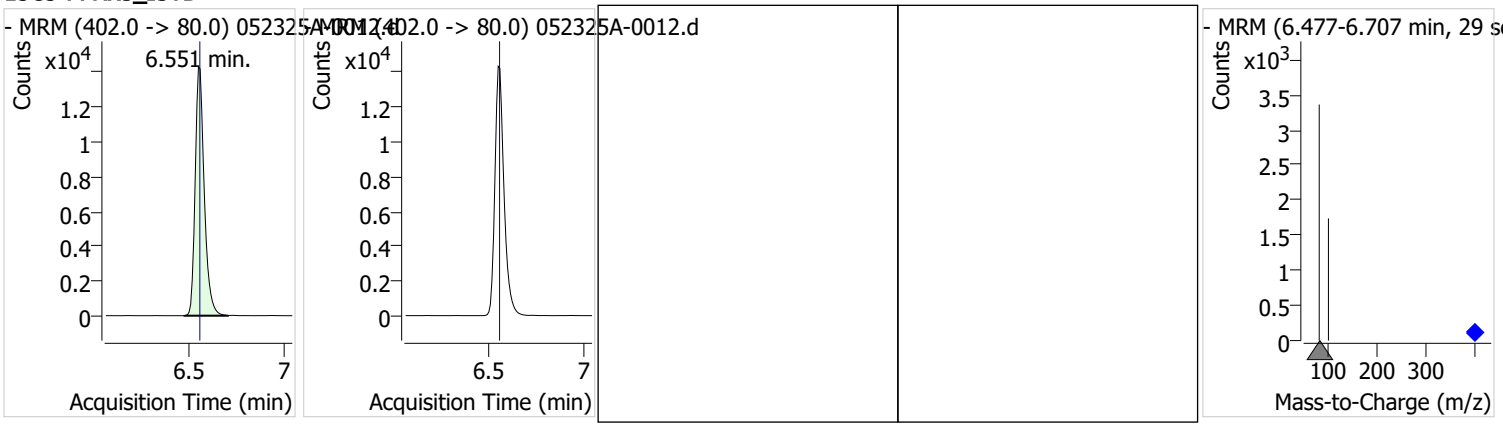
13C2-PFTeDA_ISTD



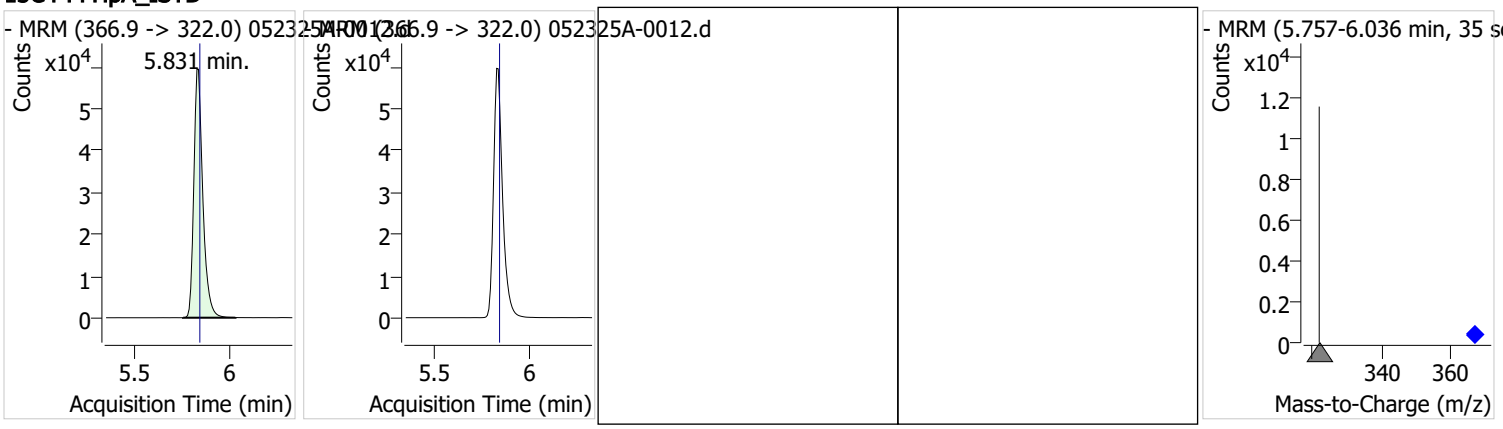
13C3-PFBS_ISTD



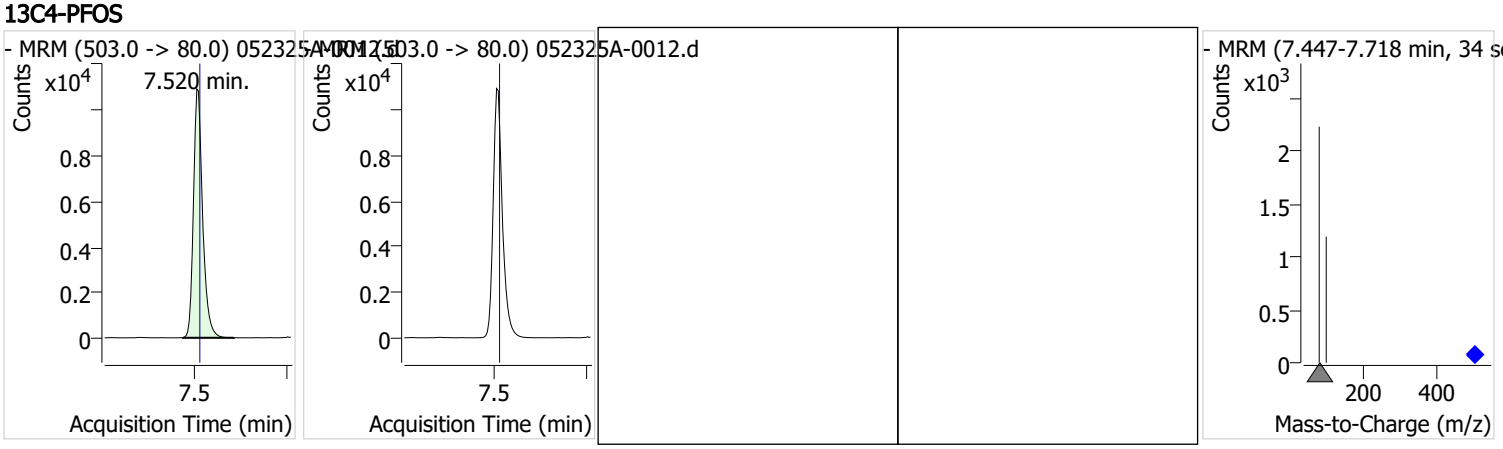
13C3-PFHxS_ISTD



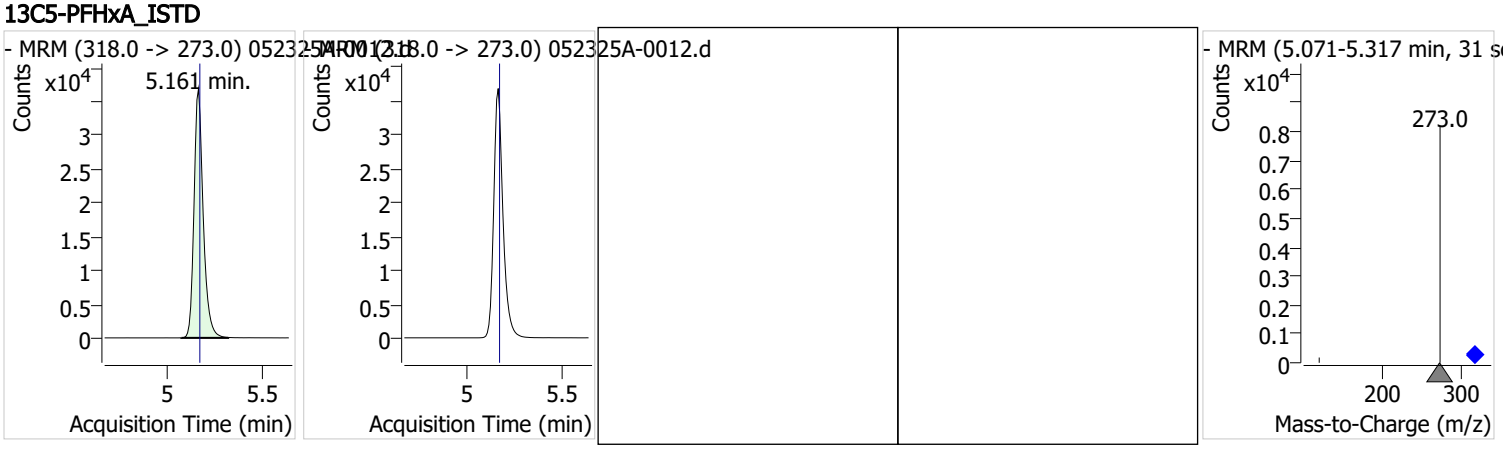
13C4-PFHpA_ISTD



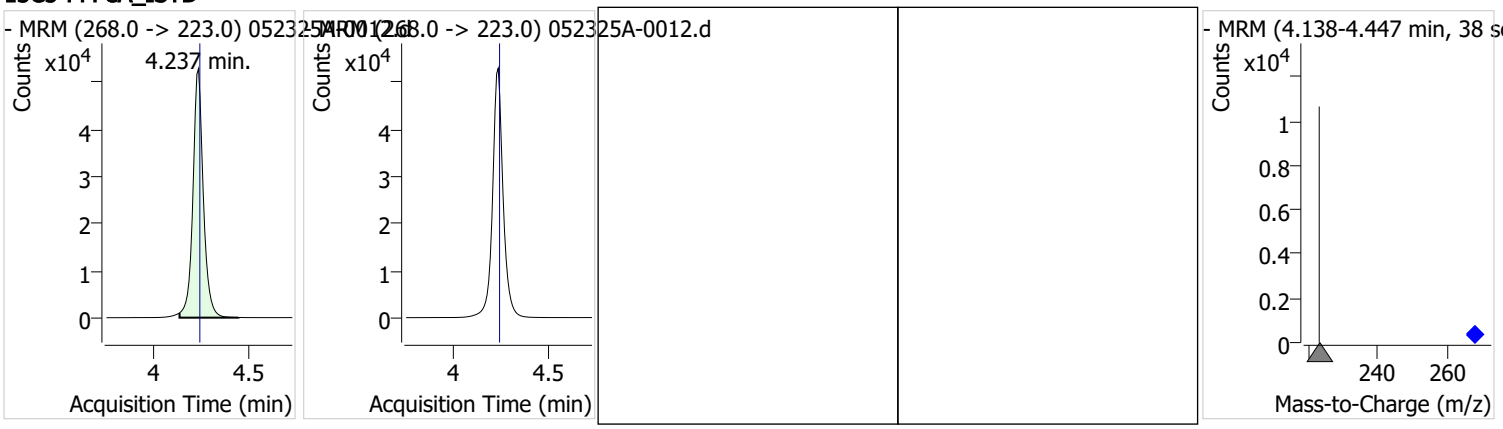
13C4-PFOS



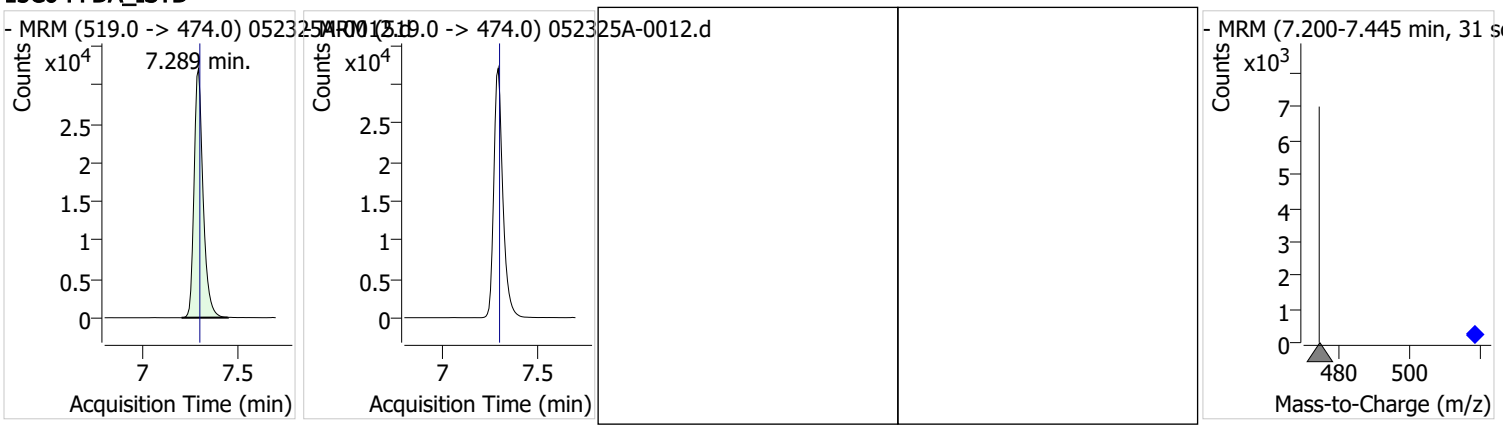
13C5-PFHxA_ISTD



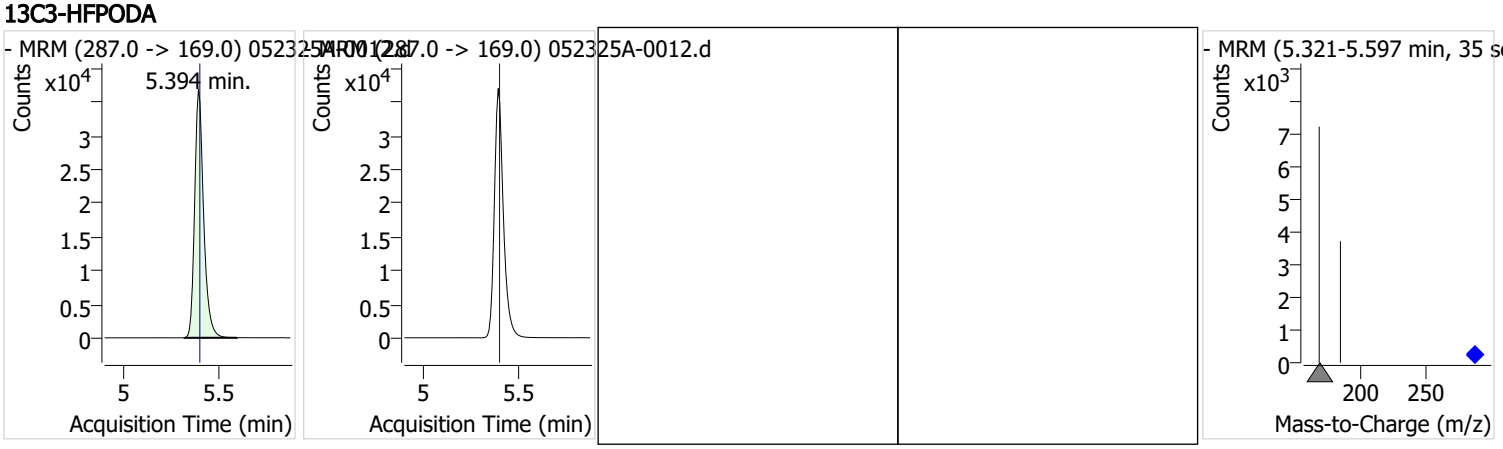
13C5-PFPeA_ISTD



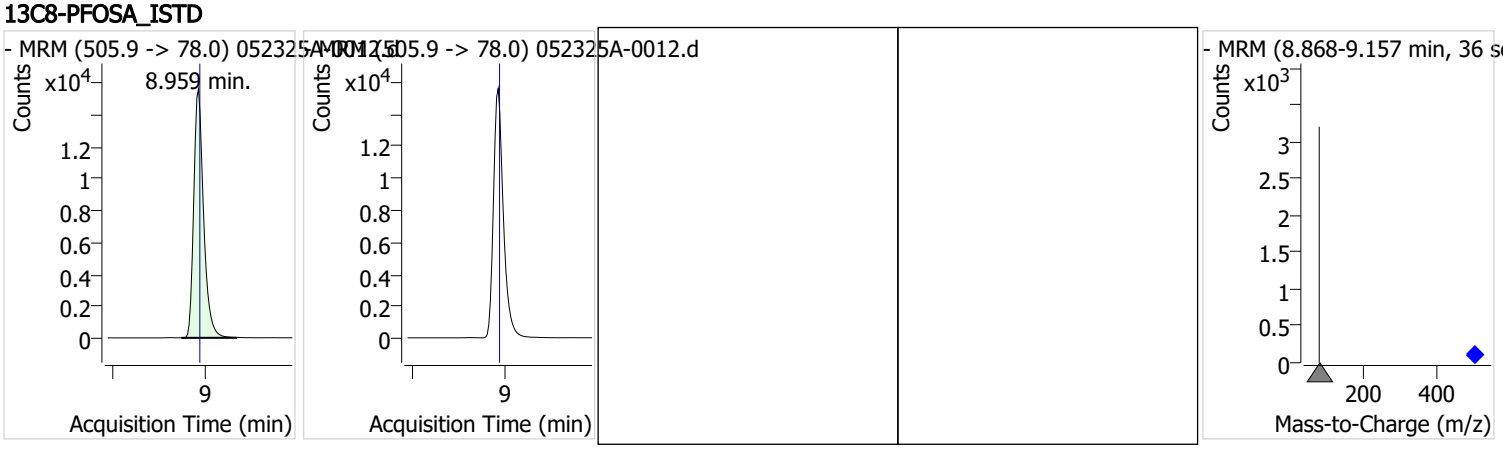
13C6-PFDA_ISTD



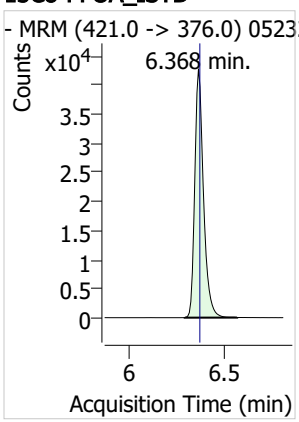
13C3-HFPODA

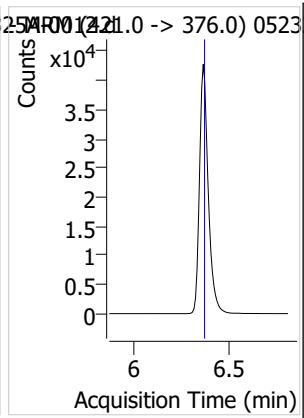


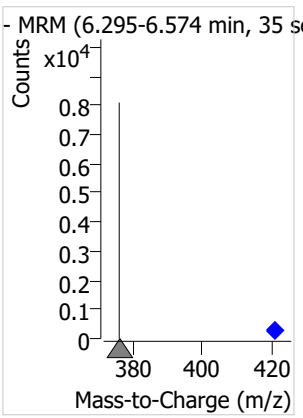
13C8-PFOSA_ISTD



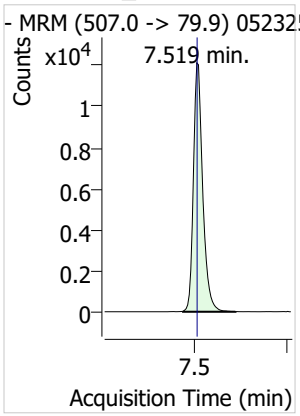
13C8-PFOA_ISTD

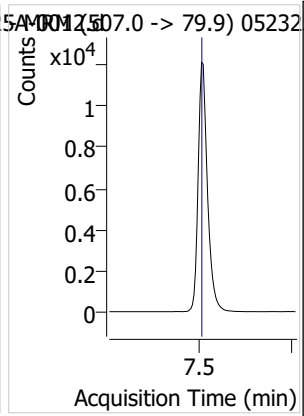


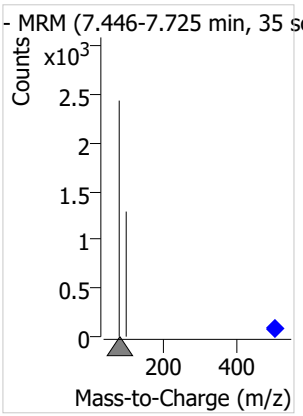




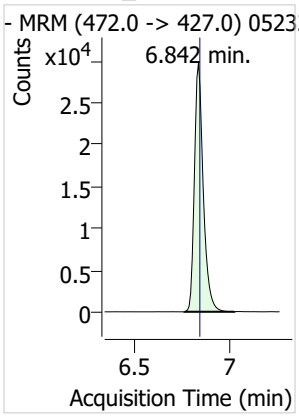
13C8-PFOS_ISTD

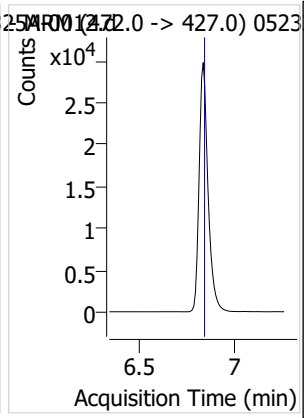


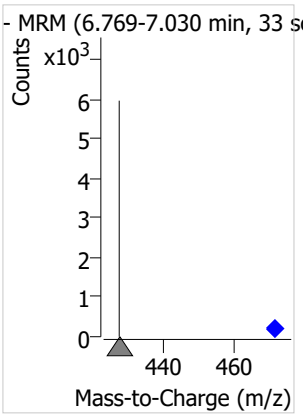




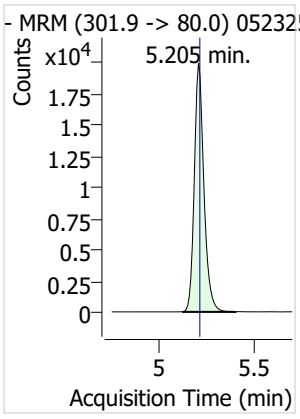
13C9-PFNA_ISTD

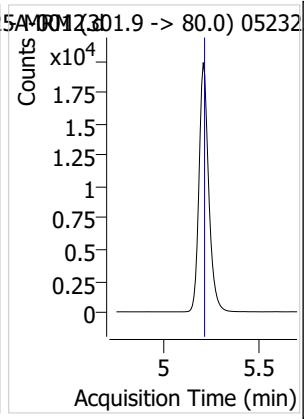


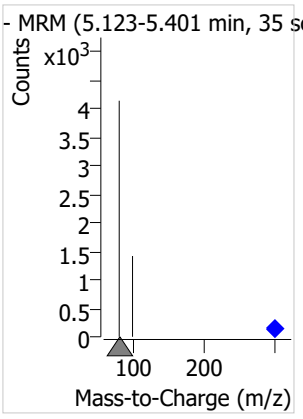




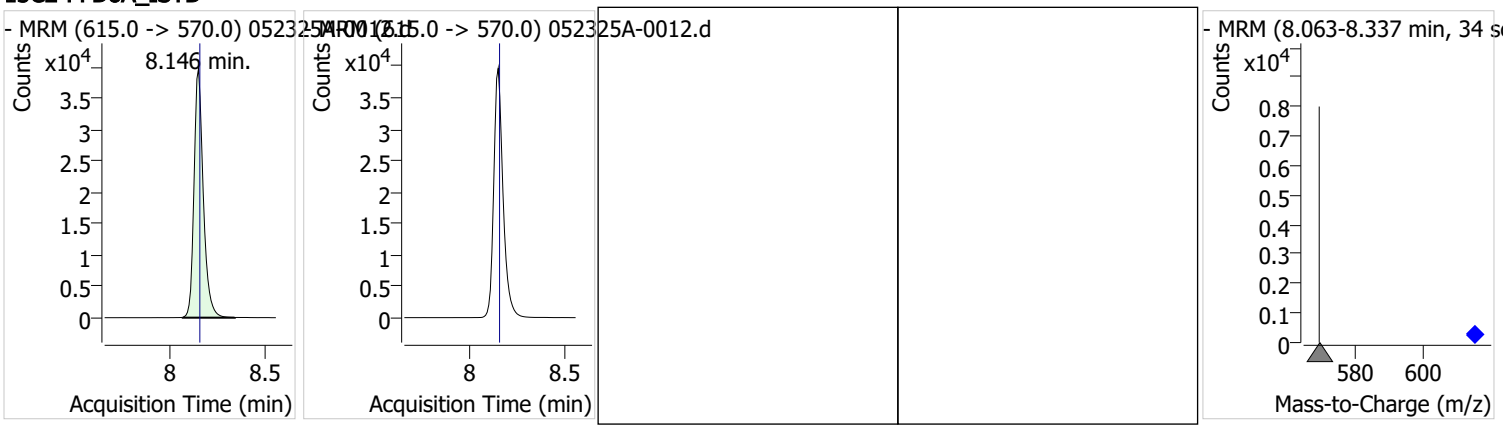
13C3-PFBS



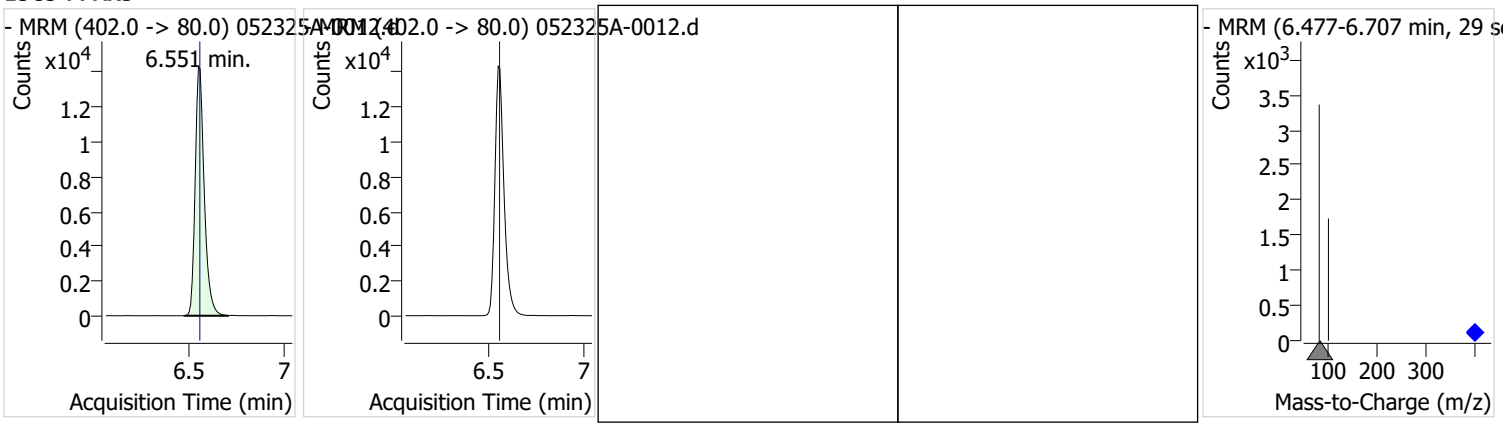




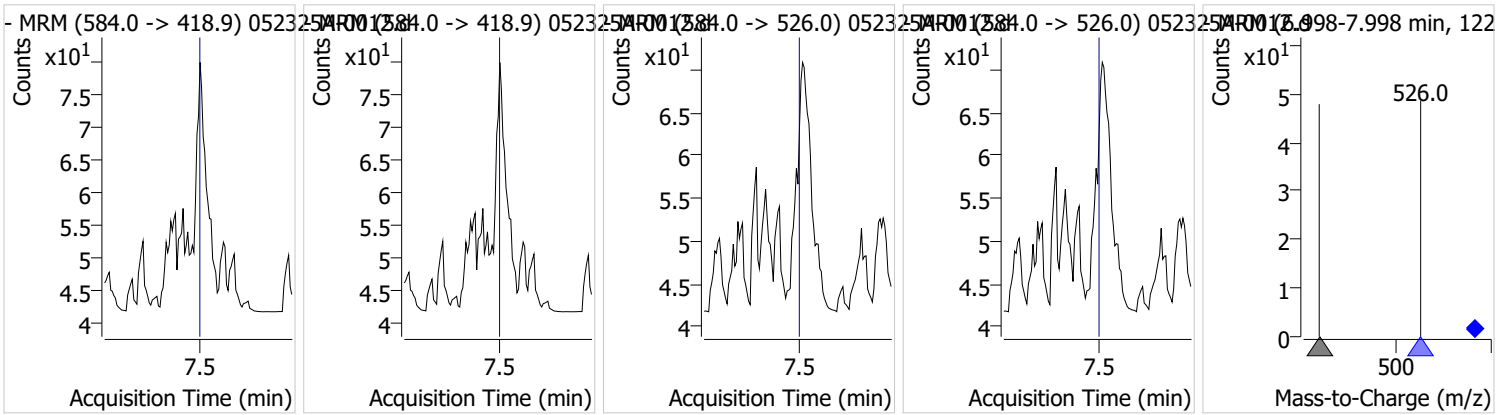
13C2-PFDoA_ISTD



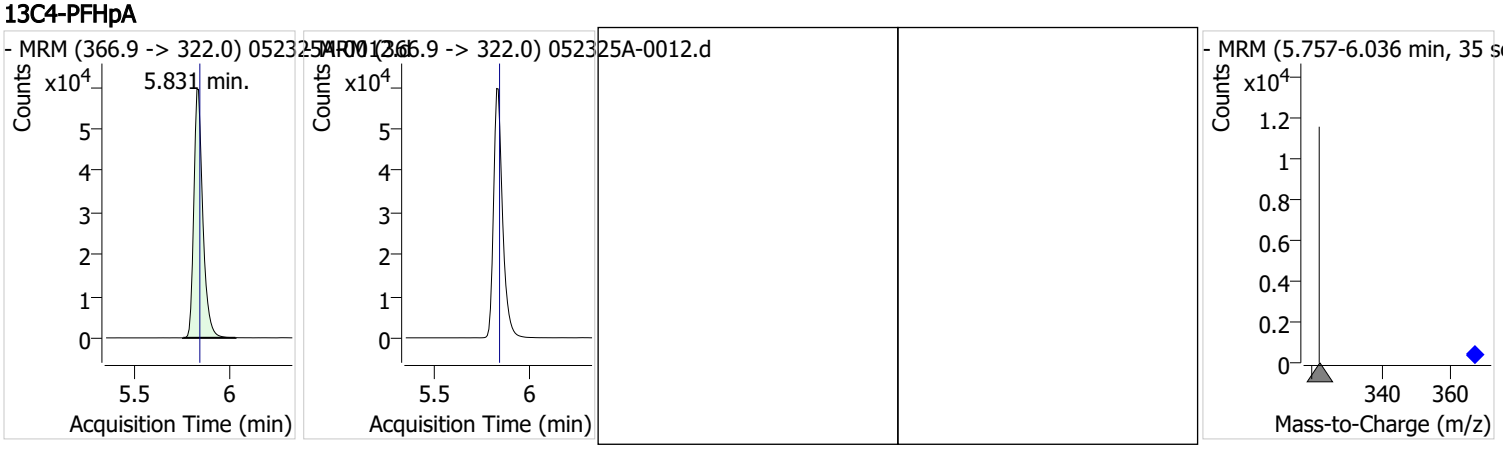
13C3-PFHxS



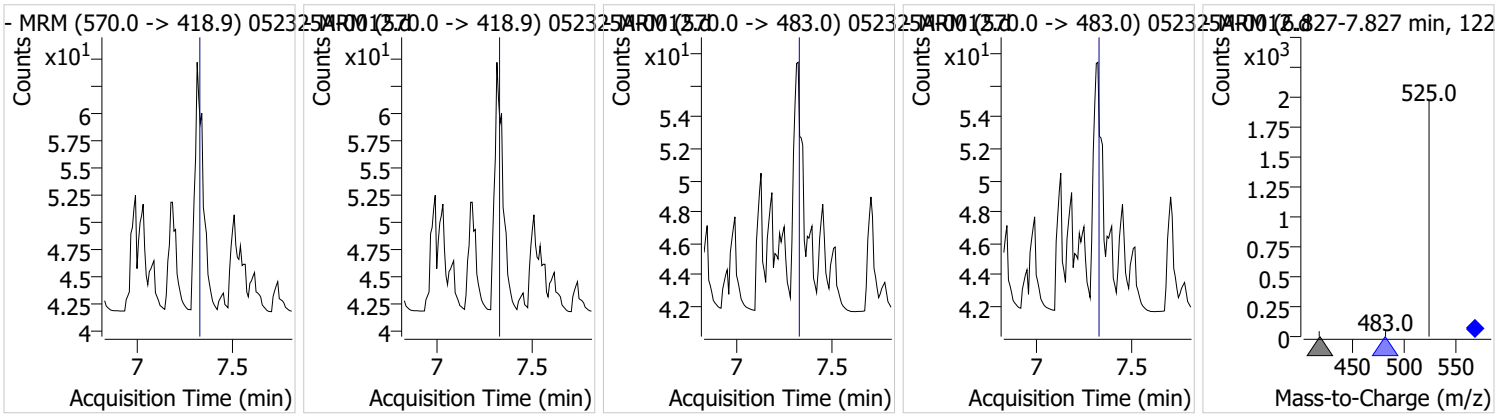
NEtFOSAA



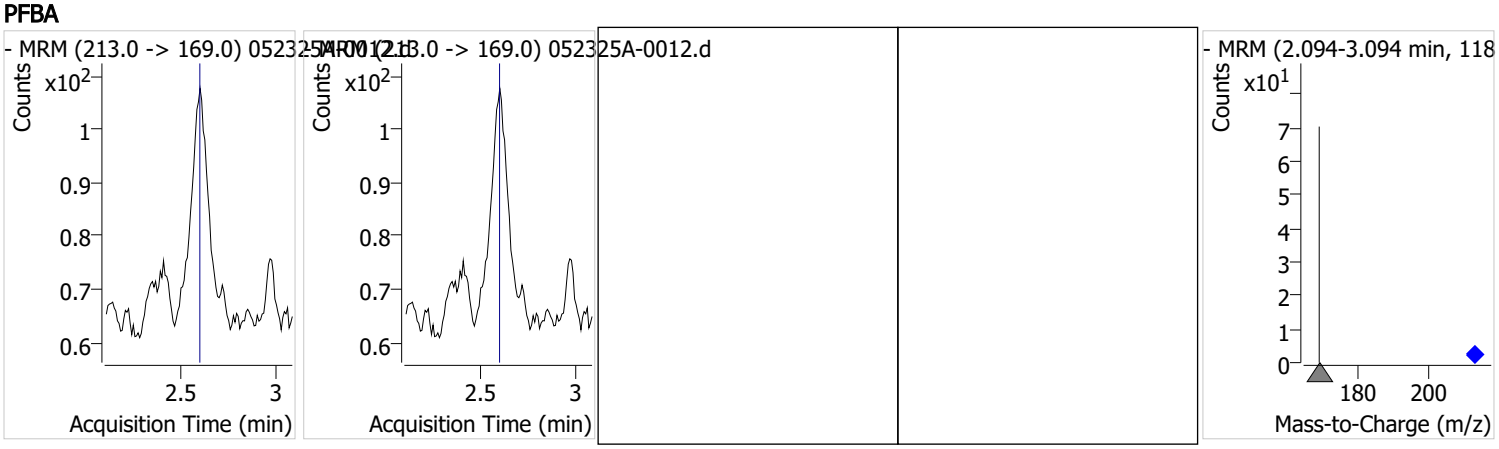
13C4-PFHpA



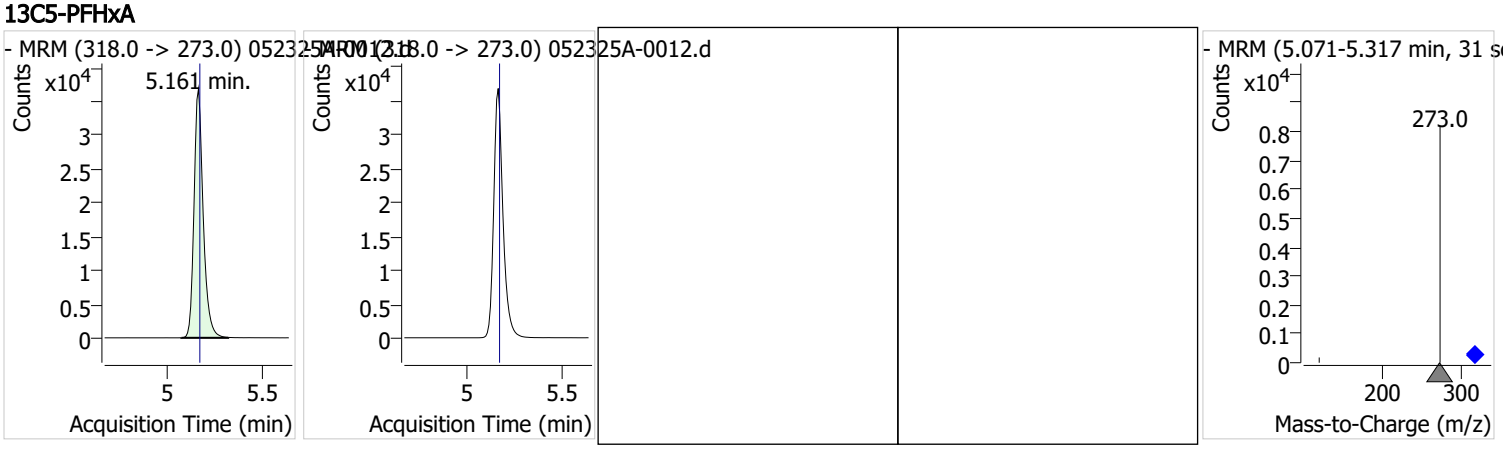
NMeFOSAA



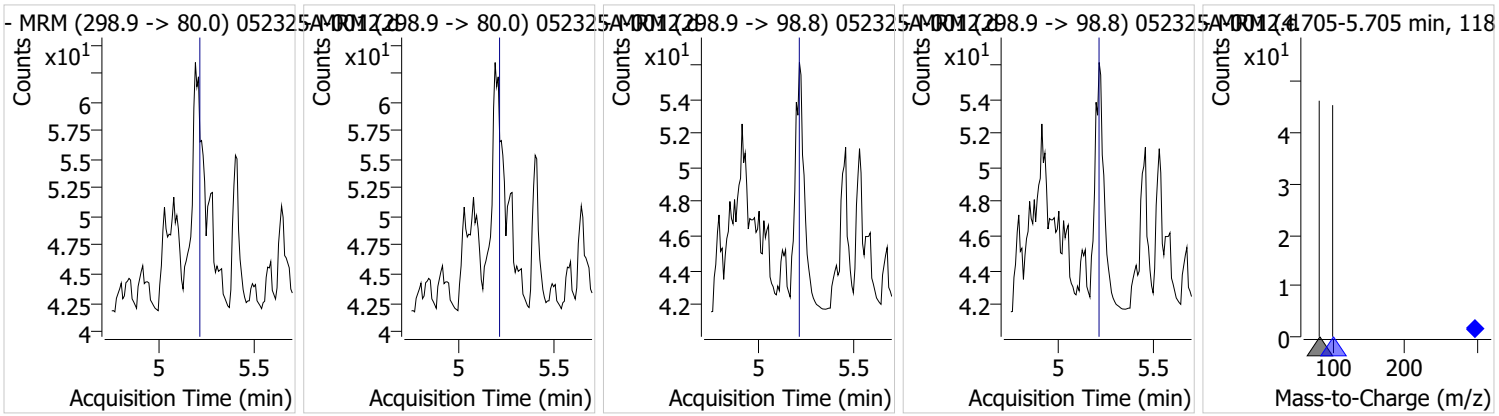
PFBA



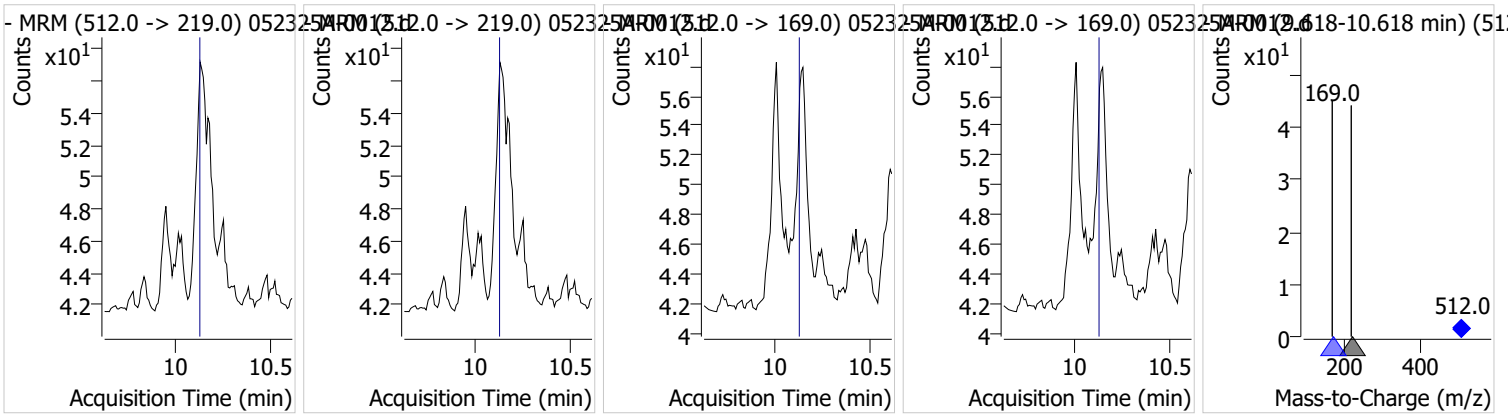
13C5-PFHxA



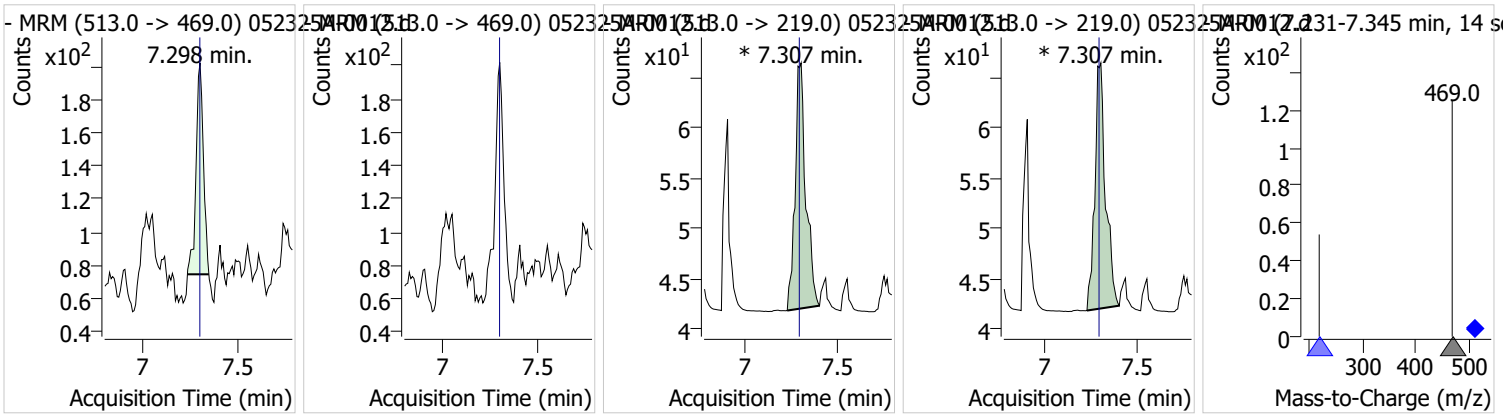
PFBS



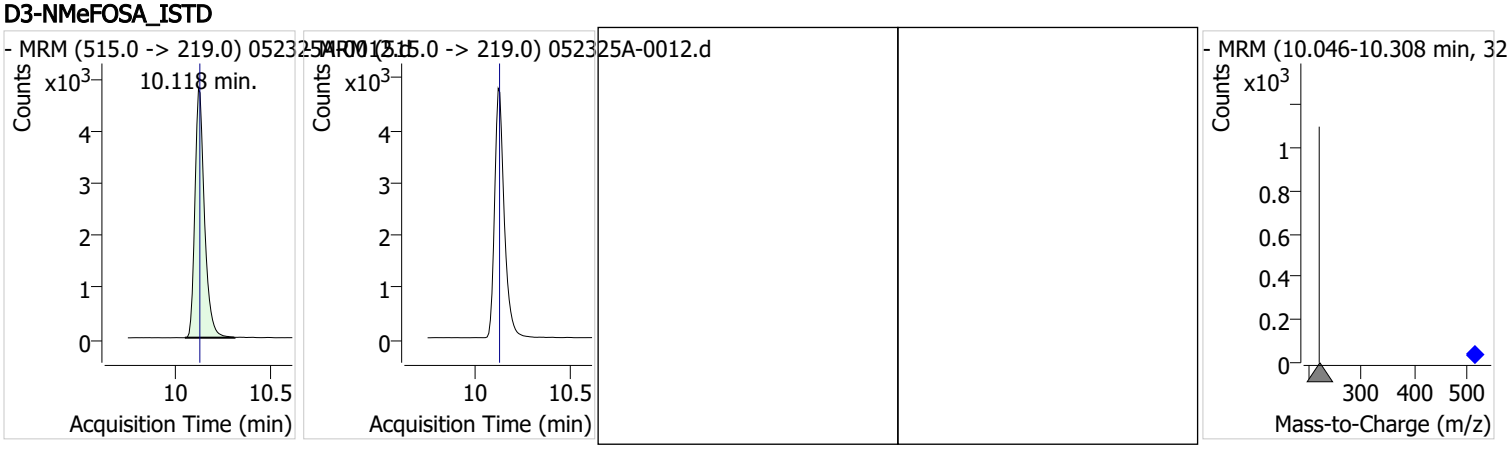
NMeFOSA



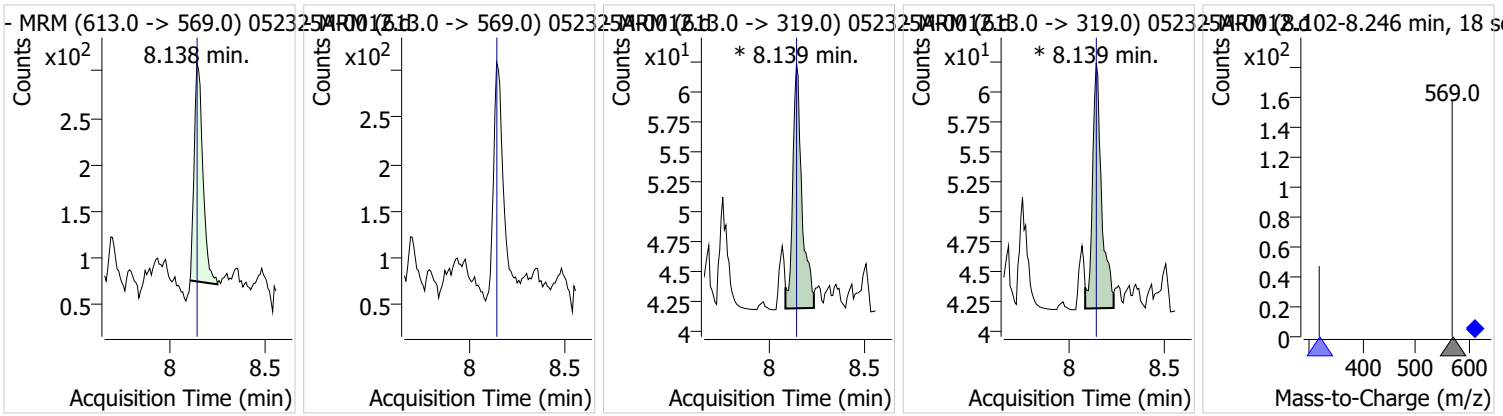
PFDA



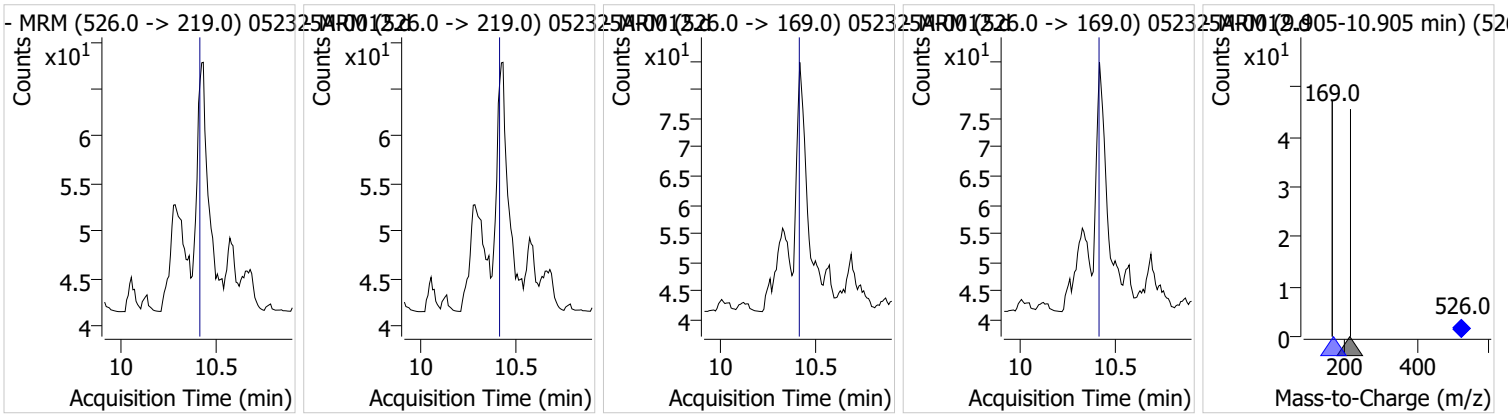
D3-NMeFOSA_ISTD



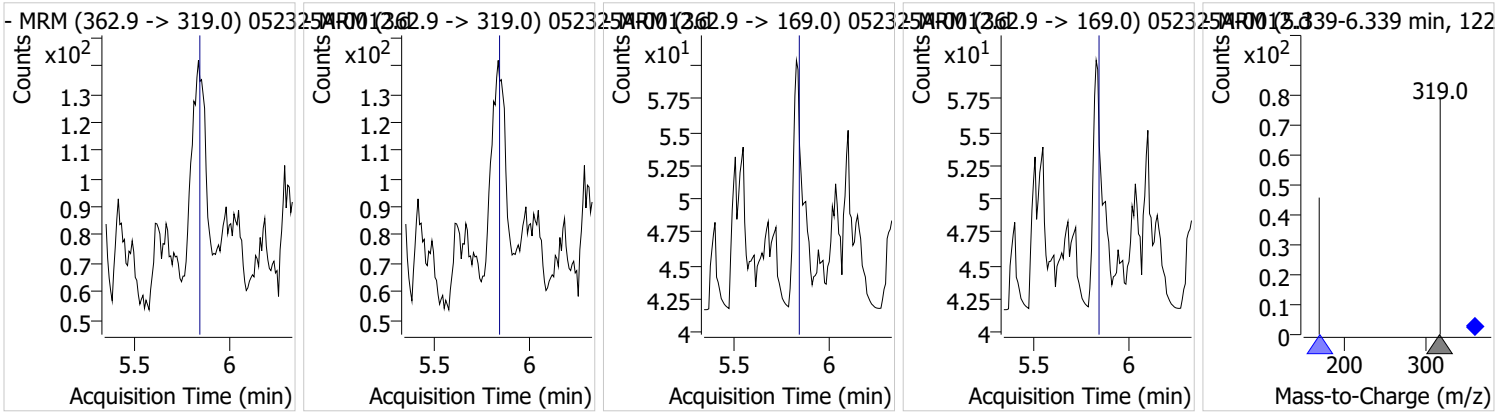
PFDoA



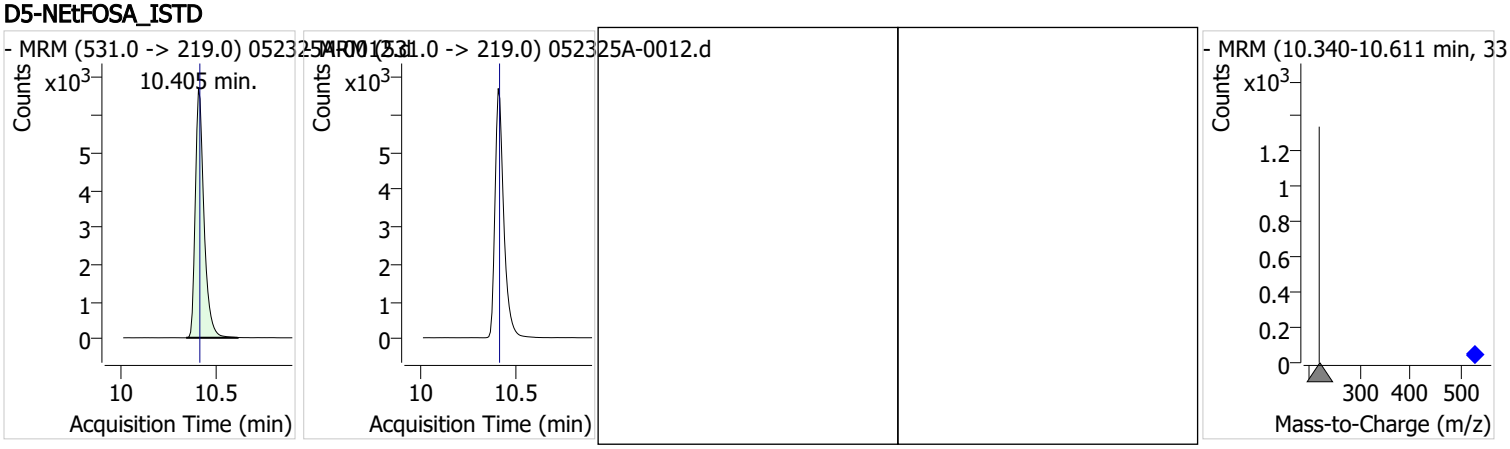
NEtFOSA



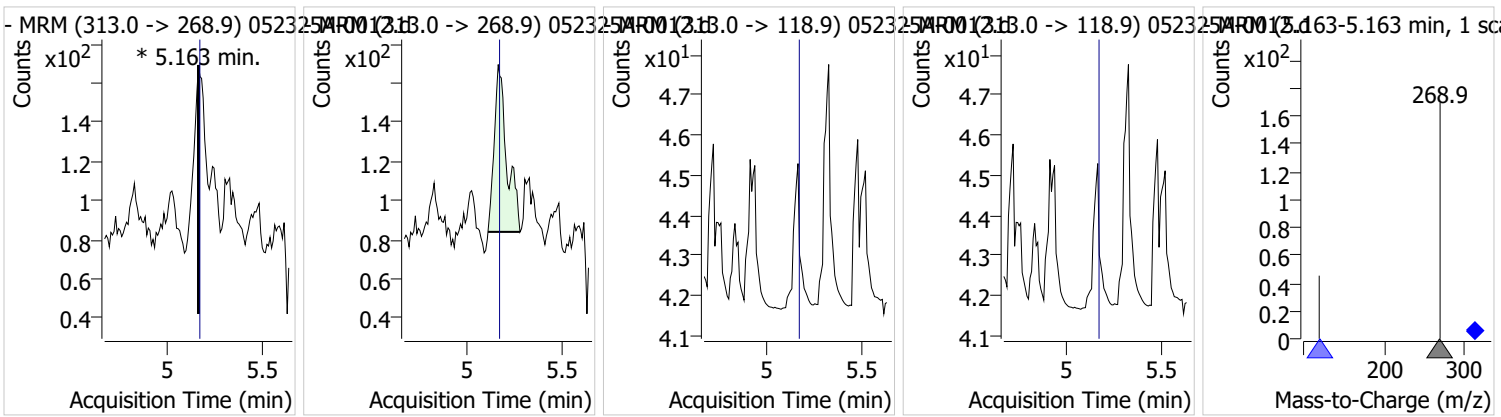
PFHpA



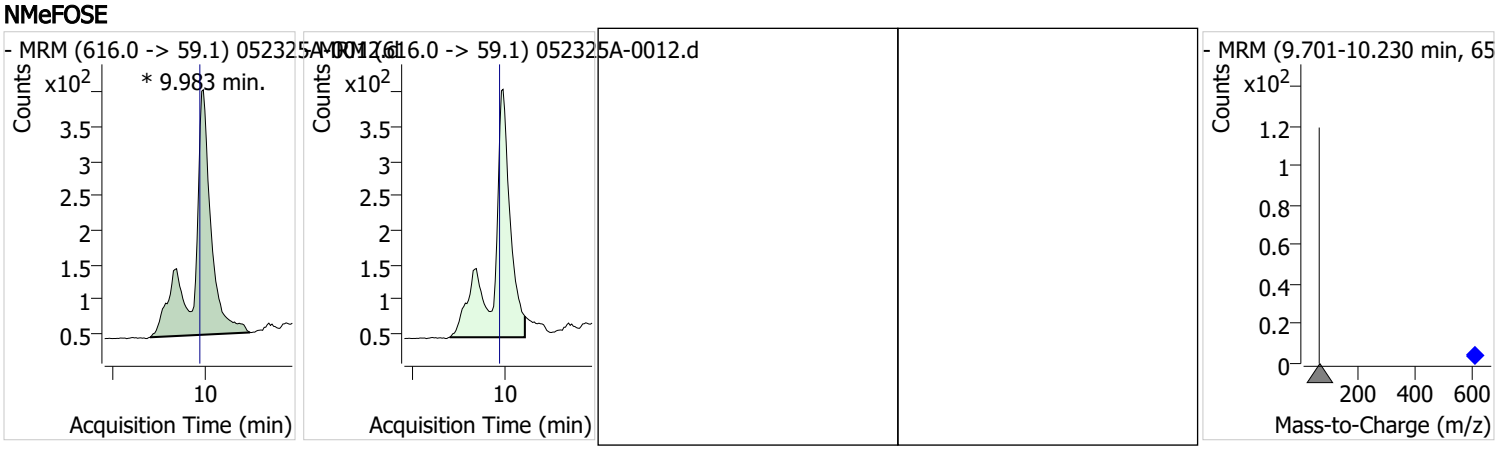
D5-NEtFOSA_ISTD



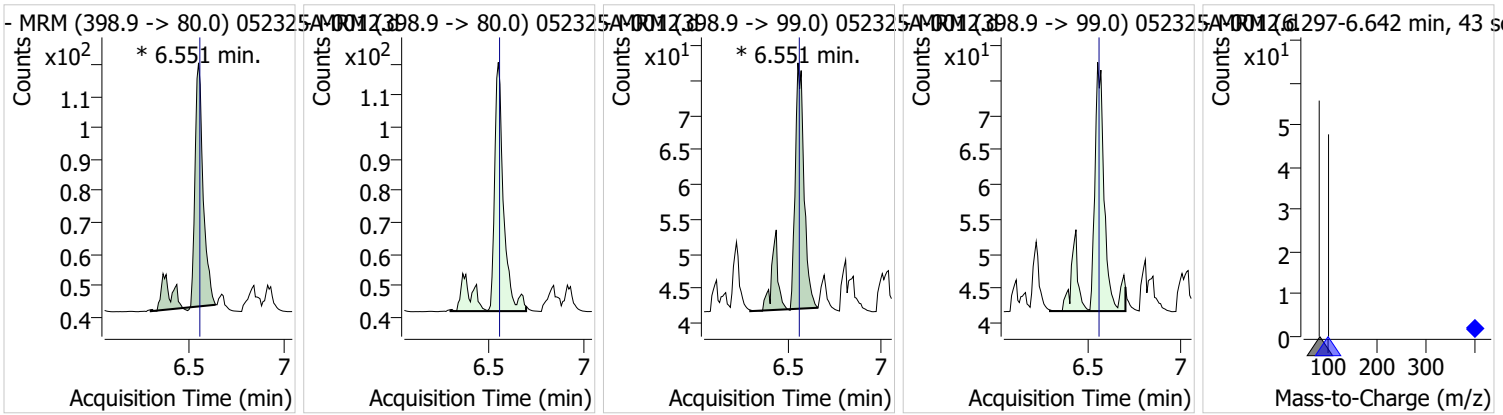
PFHxA



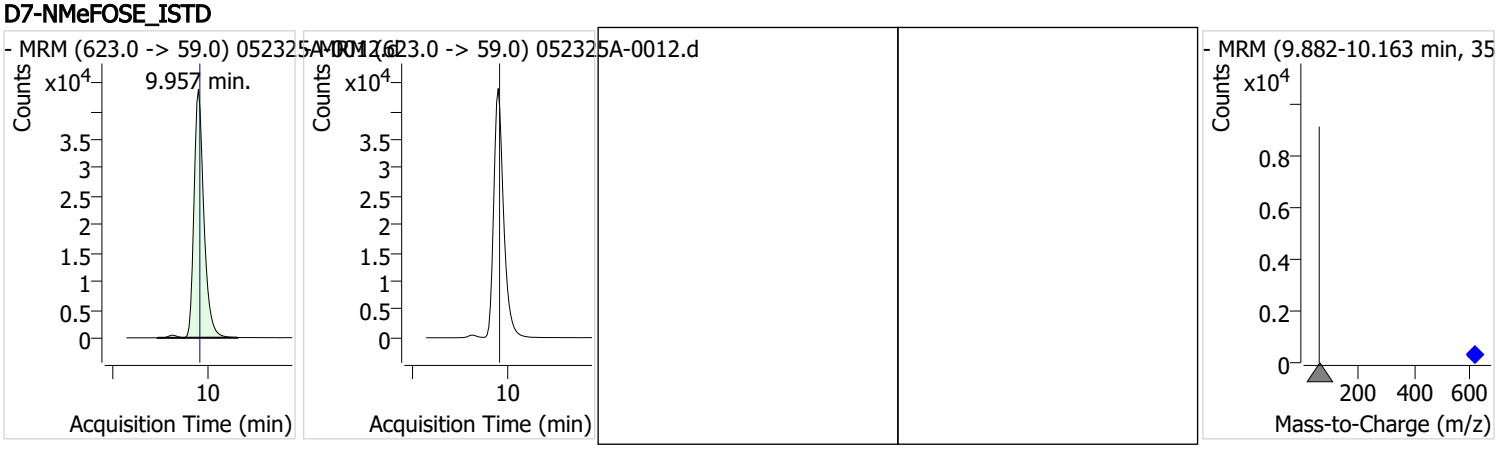
NMeFOSE



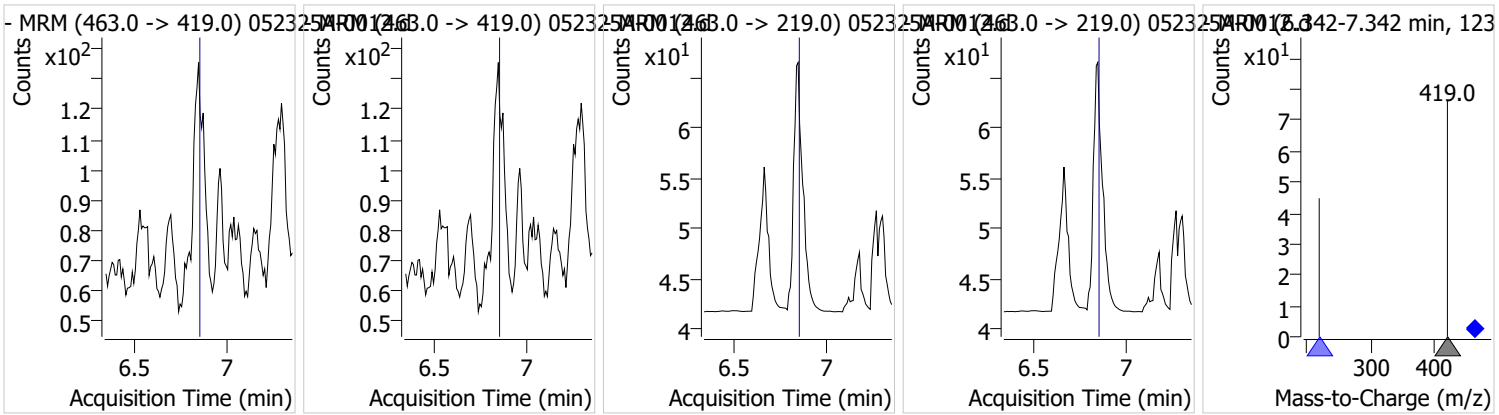
PFHxS



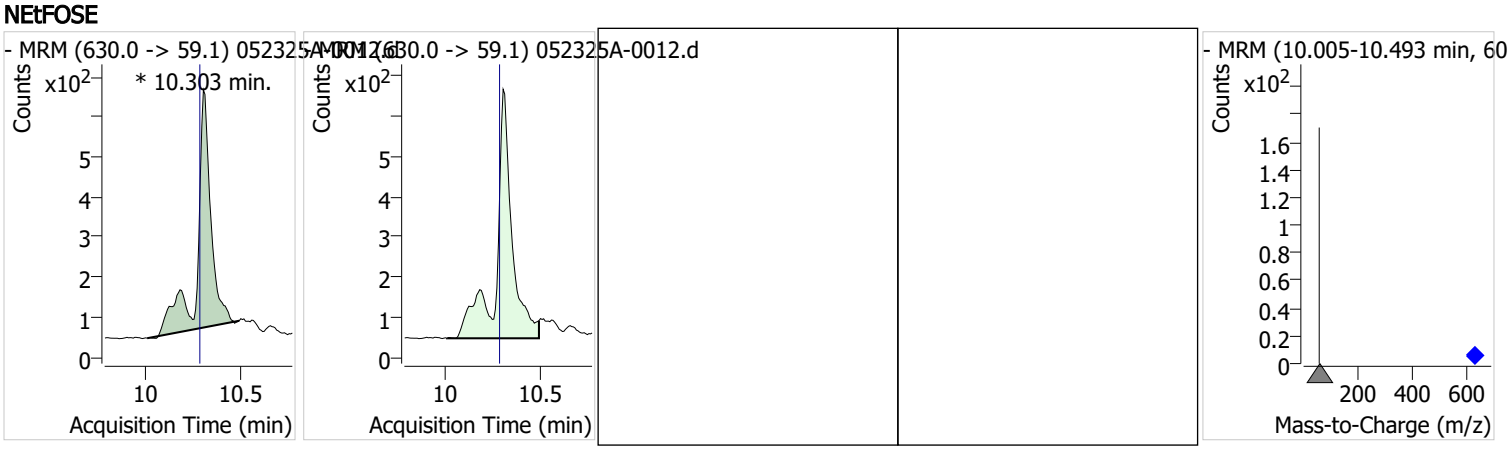
D7-NMeFOSE_ISTD



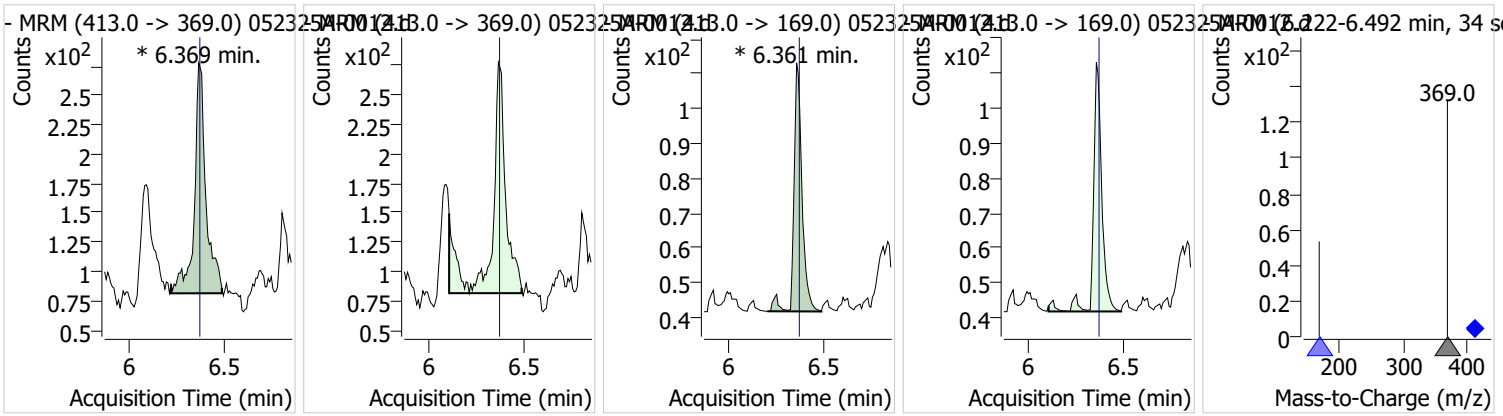
PFNA



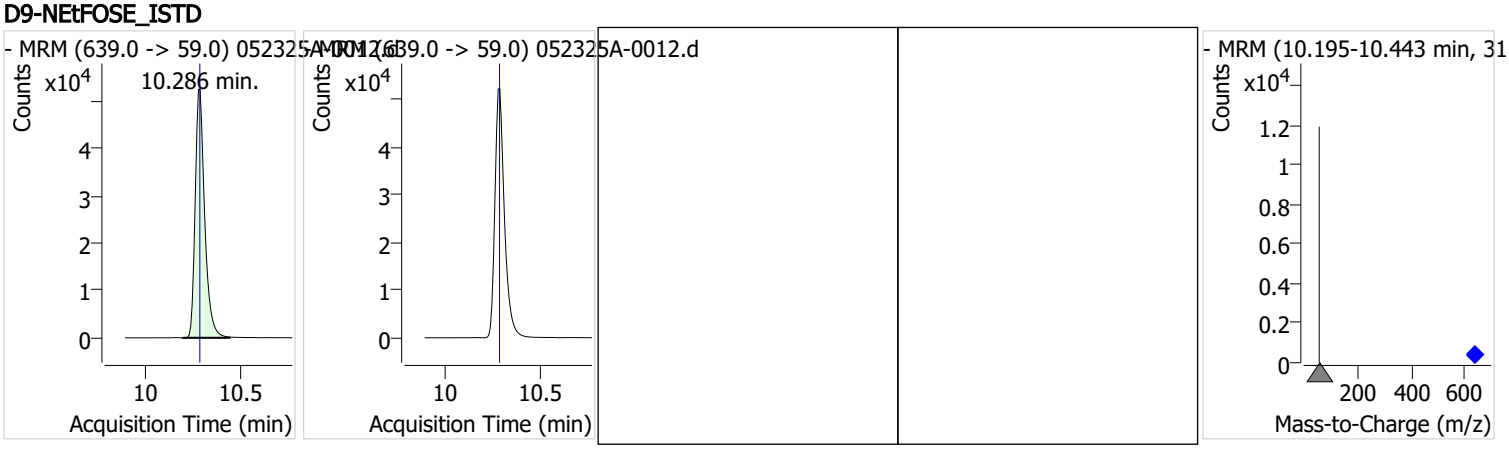
NEtFOSE



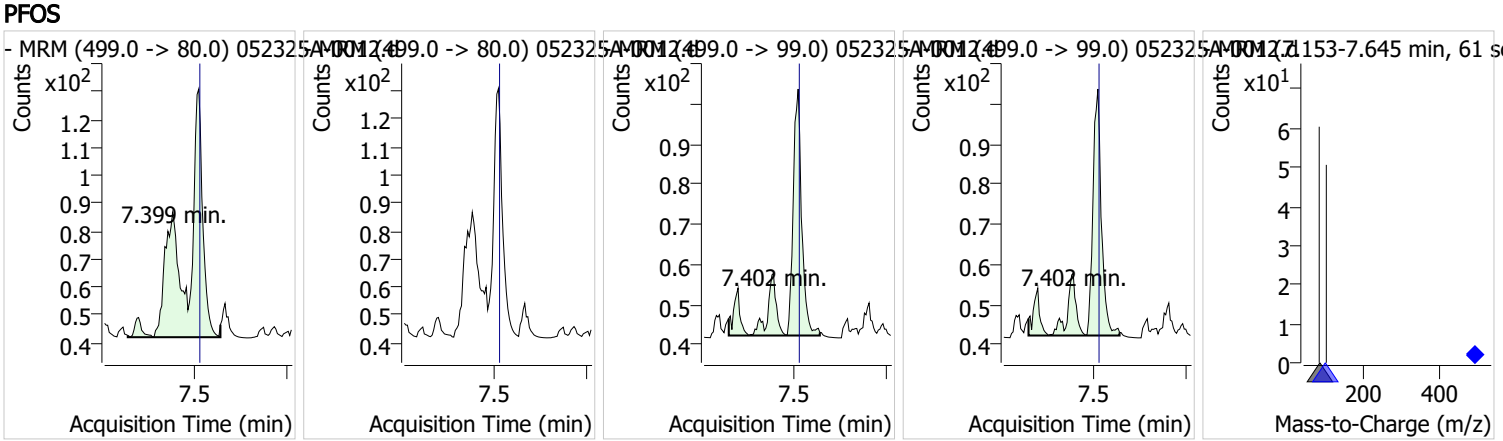
PFOA



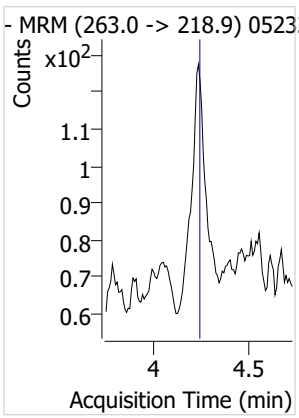
D9-NEtFOSE_ISTD

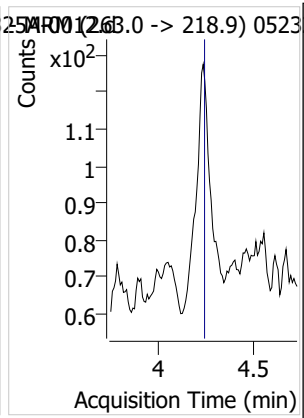


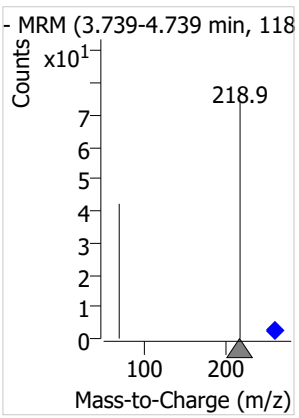
PFOS



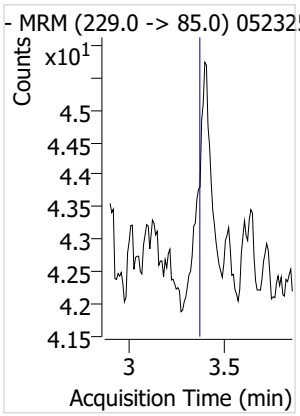
PFPeA

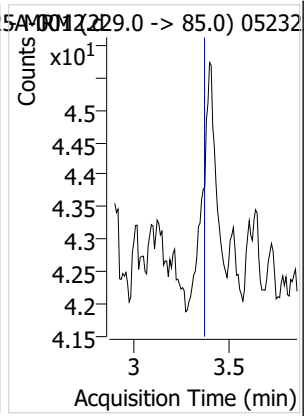


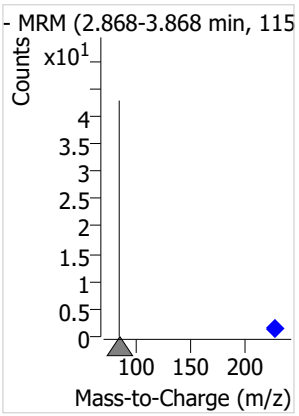




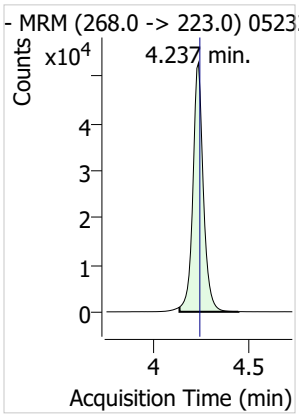
PFMPA

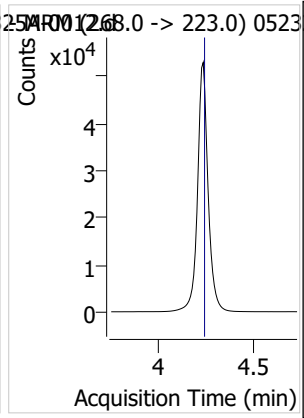


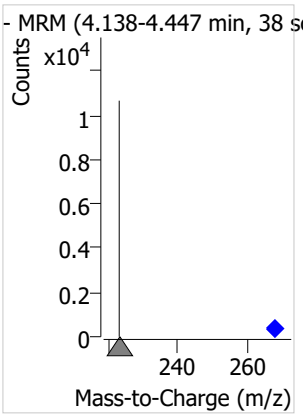




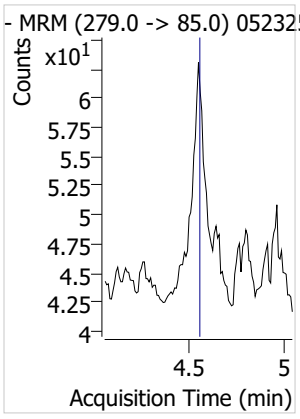
13C5-PFPeA

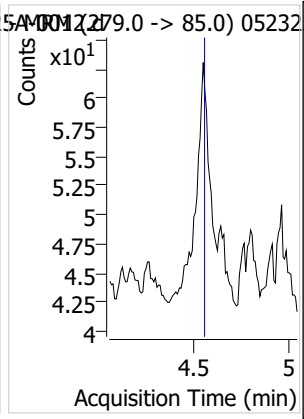


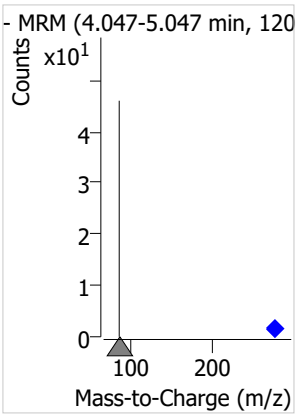




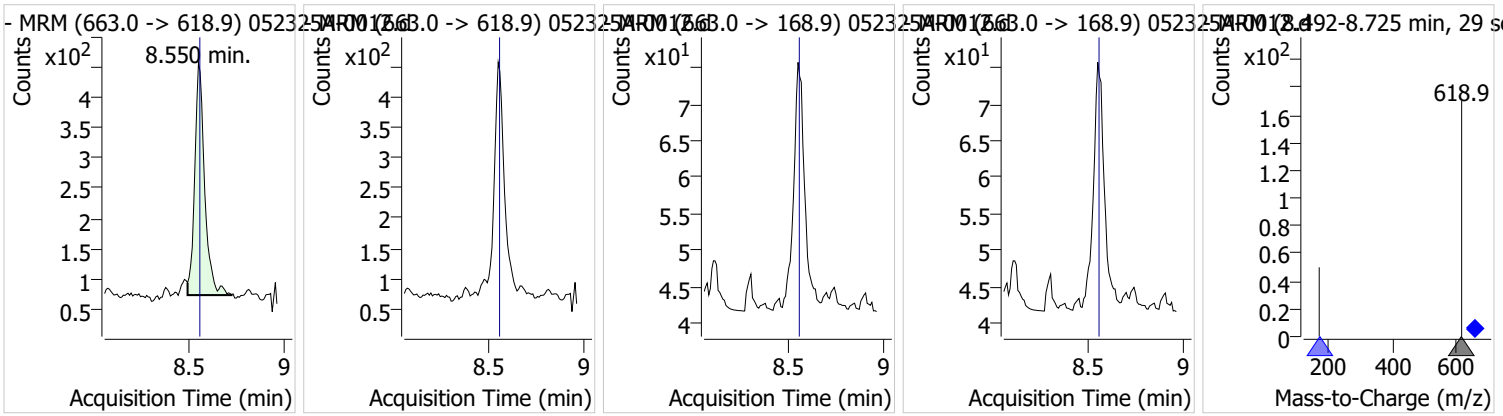
PFMBA



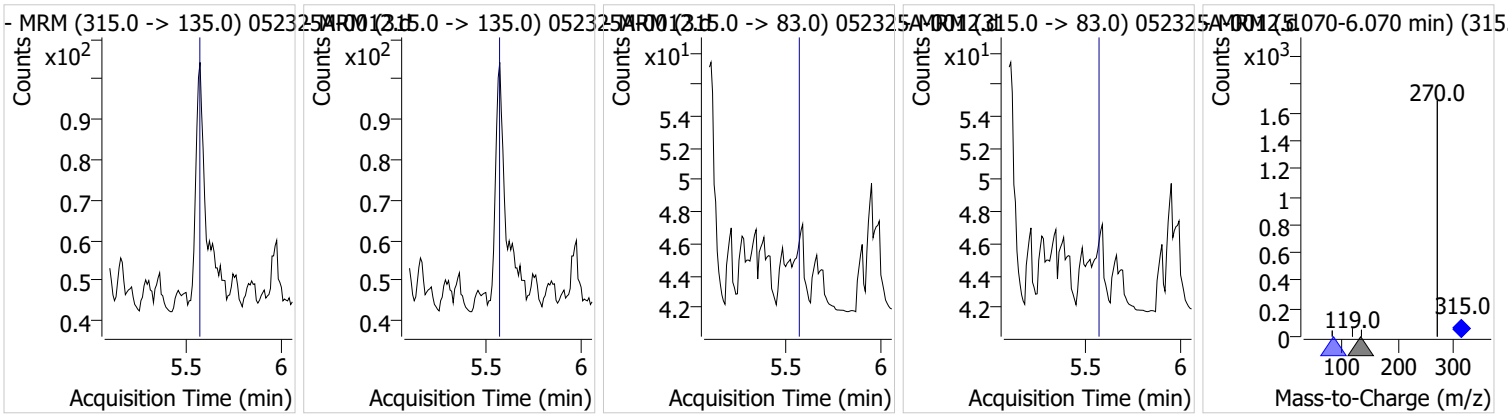




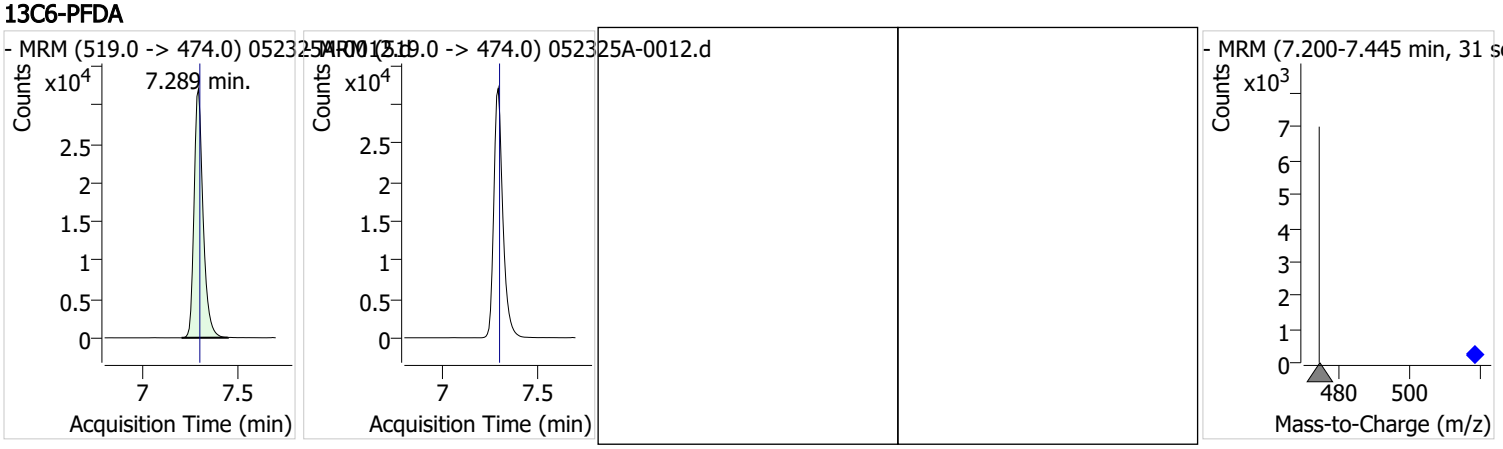
PFTrDA



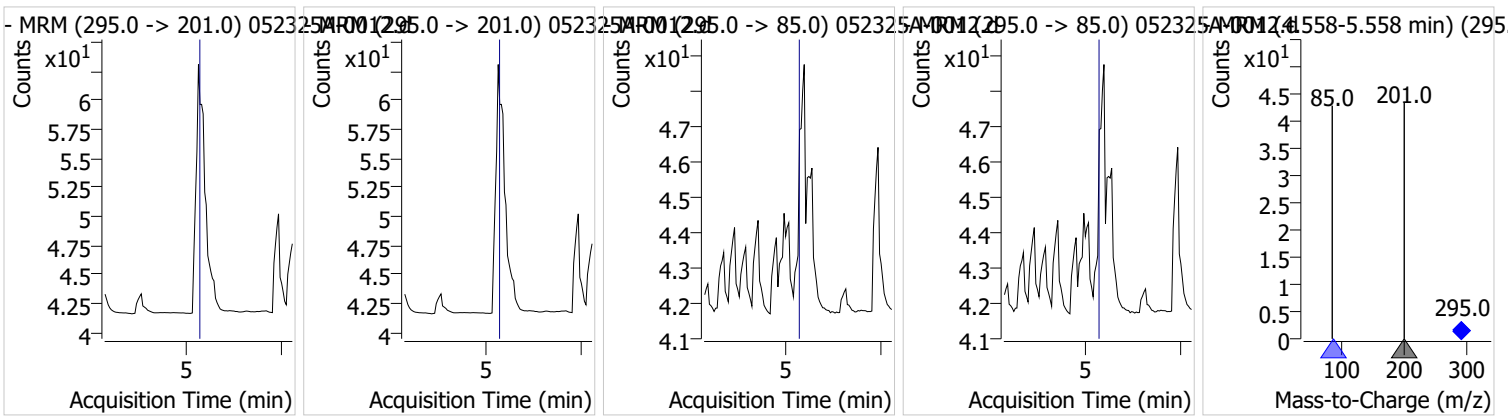
PFEESA



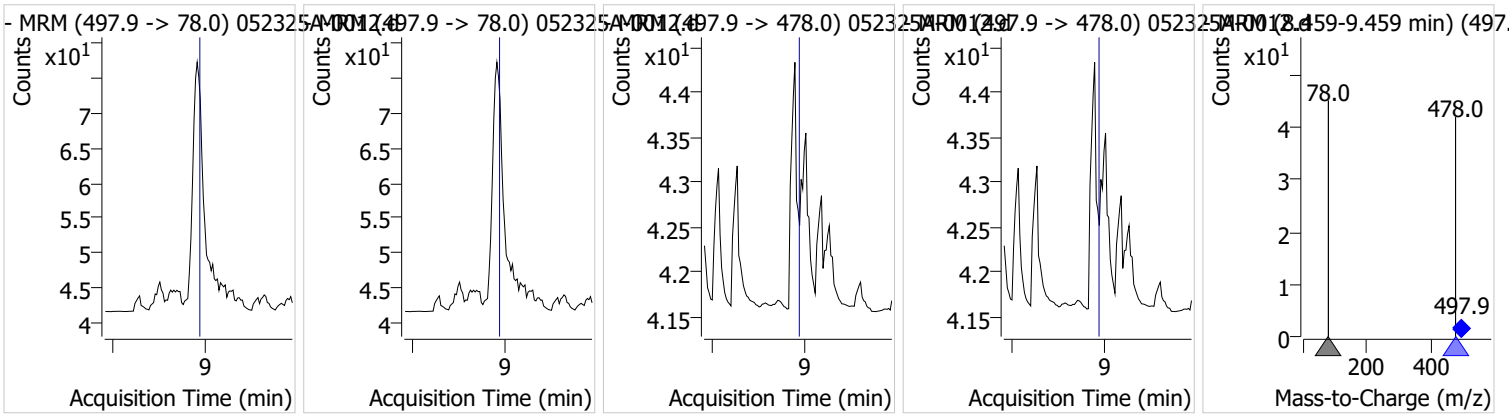
13C6-PFDA



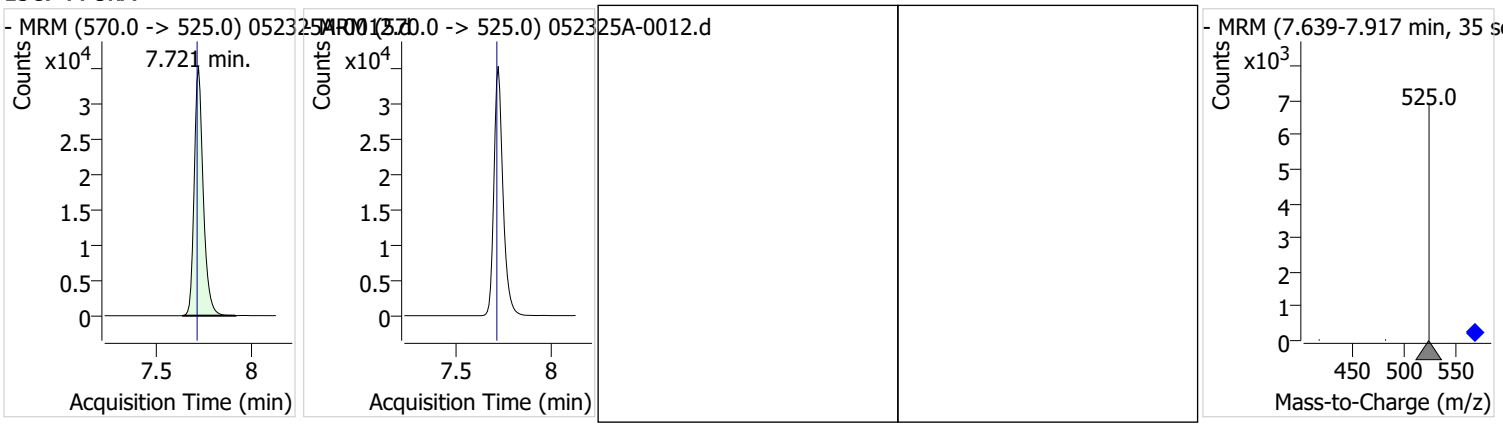
NFDHA



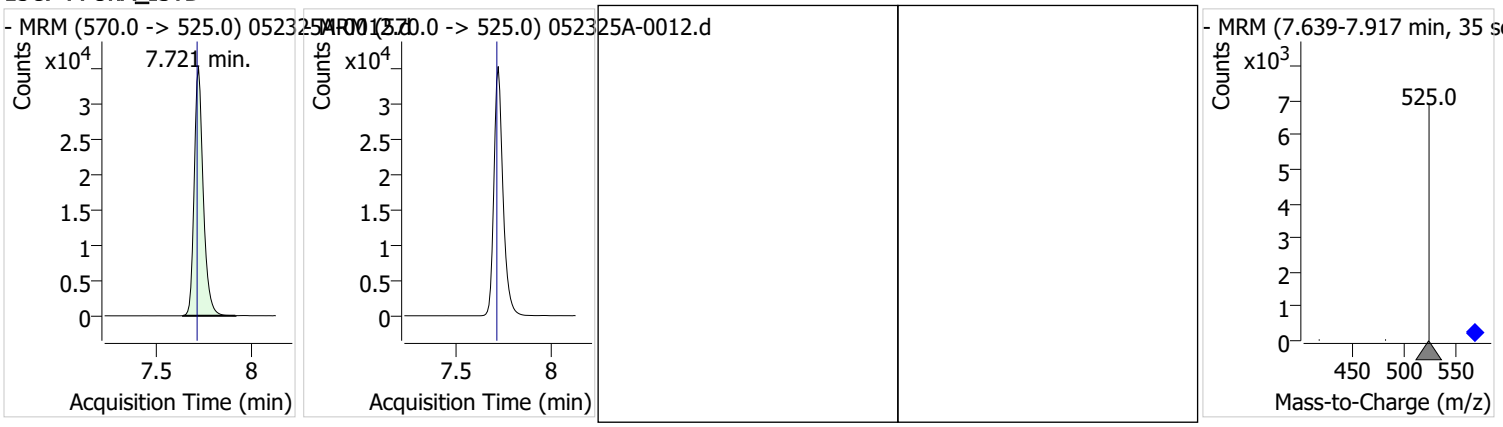
PFOSA



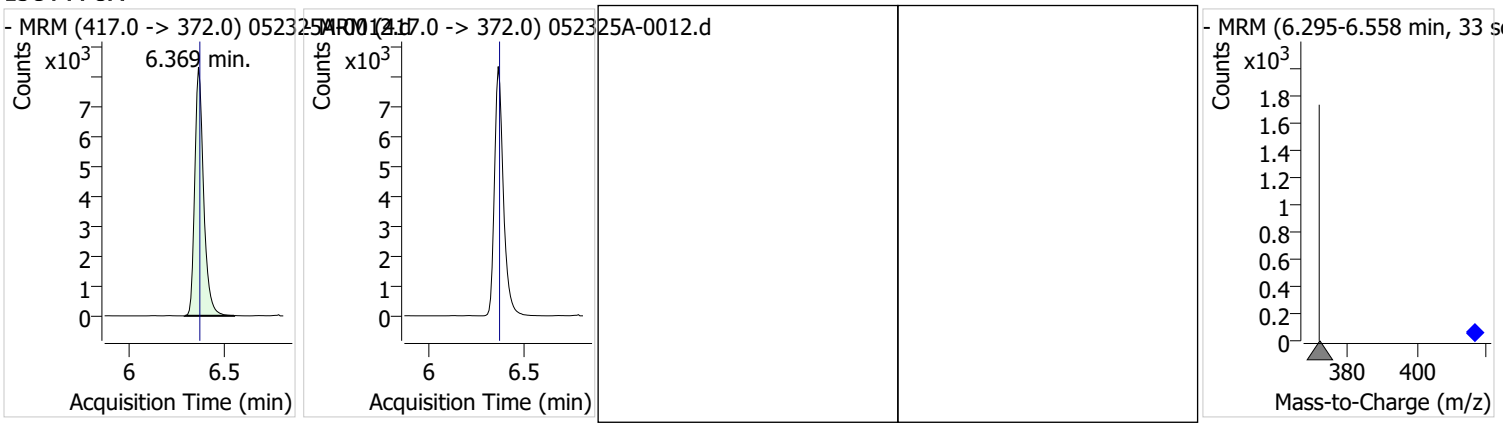
13C7-PFUnA



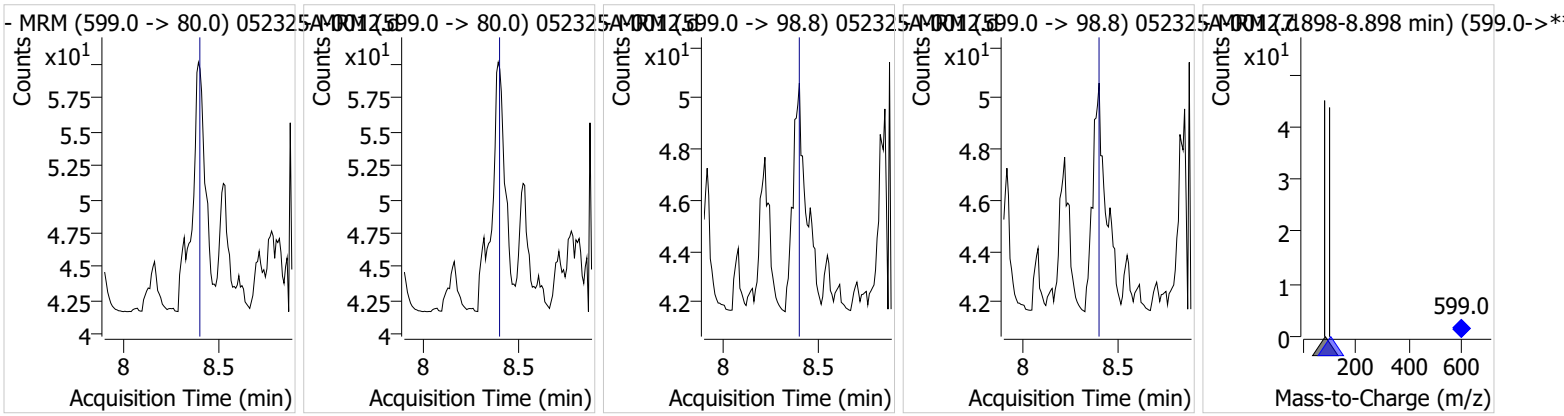
13C7-PFUnA_ISTD



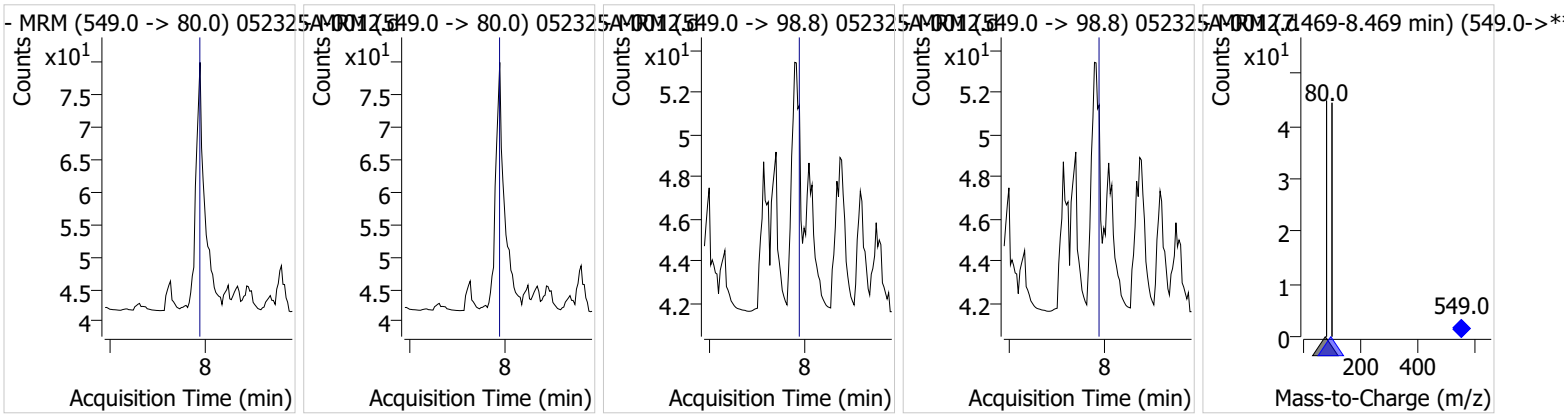
13C4-PFOA



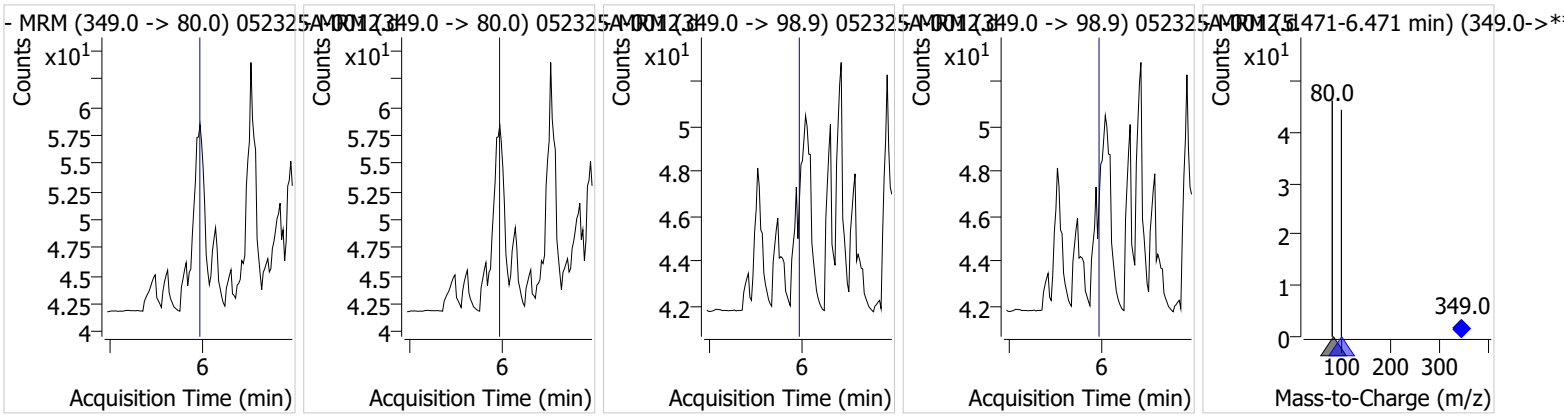
PFDS



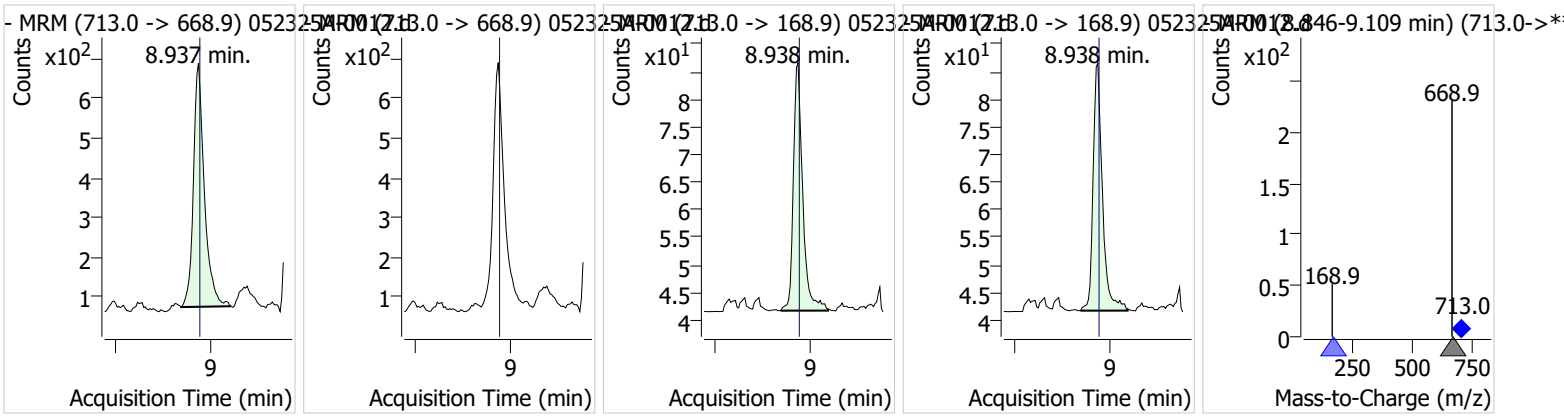
PFNS



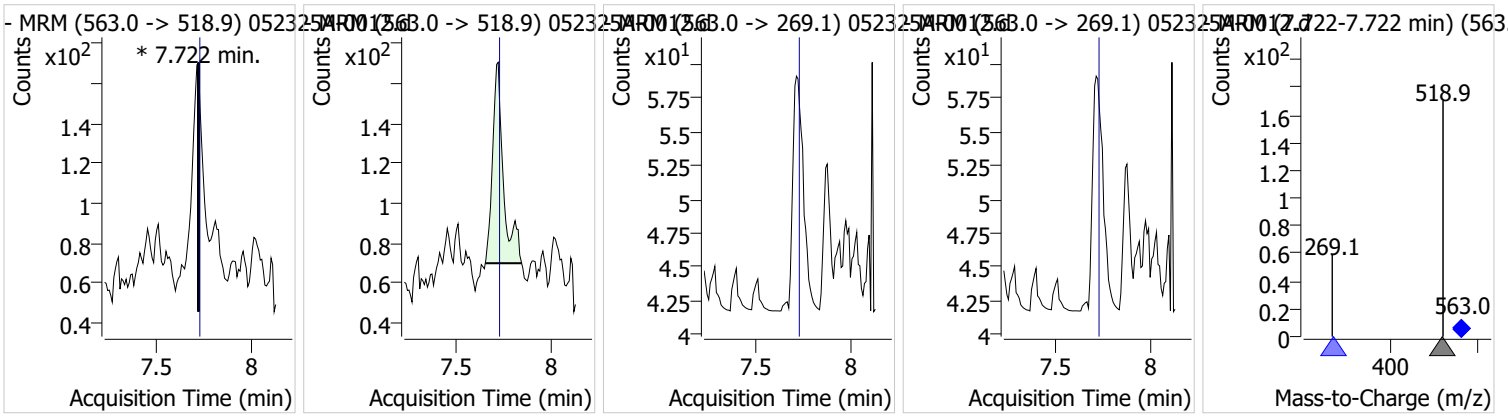
PFPeS



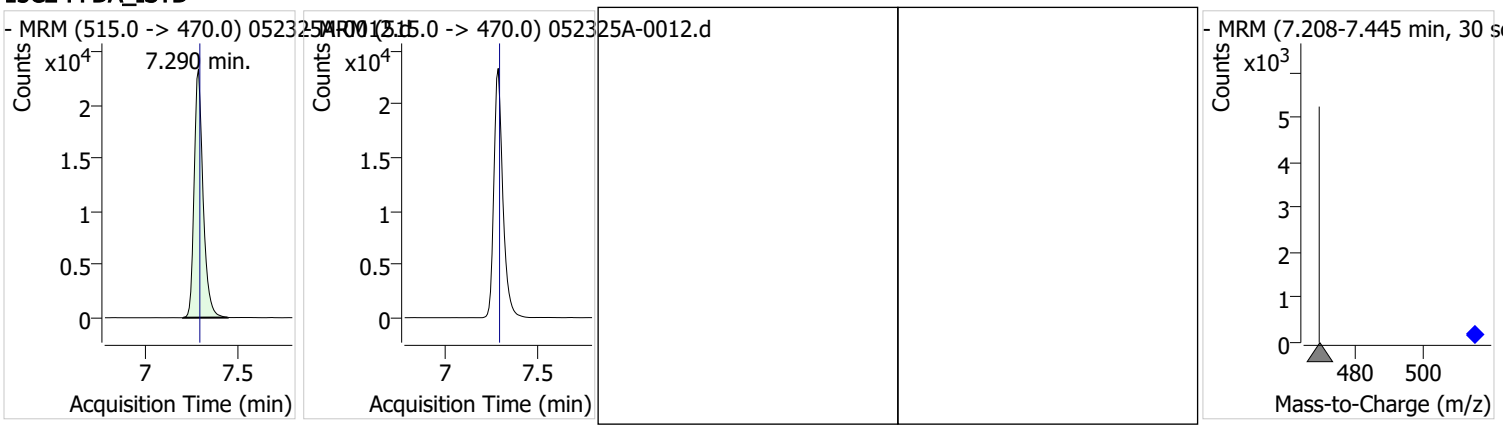
PFTeDA



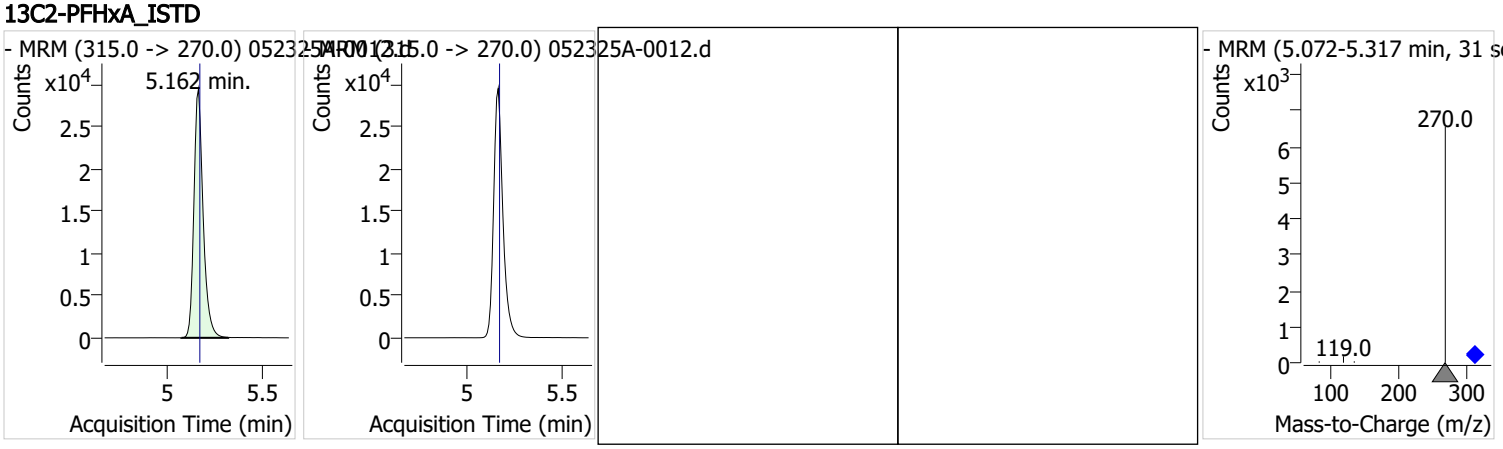
PFUnA



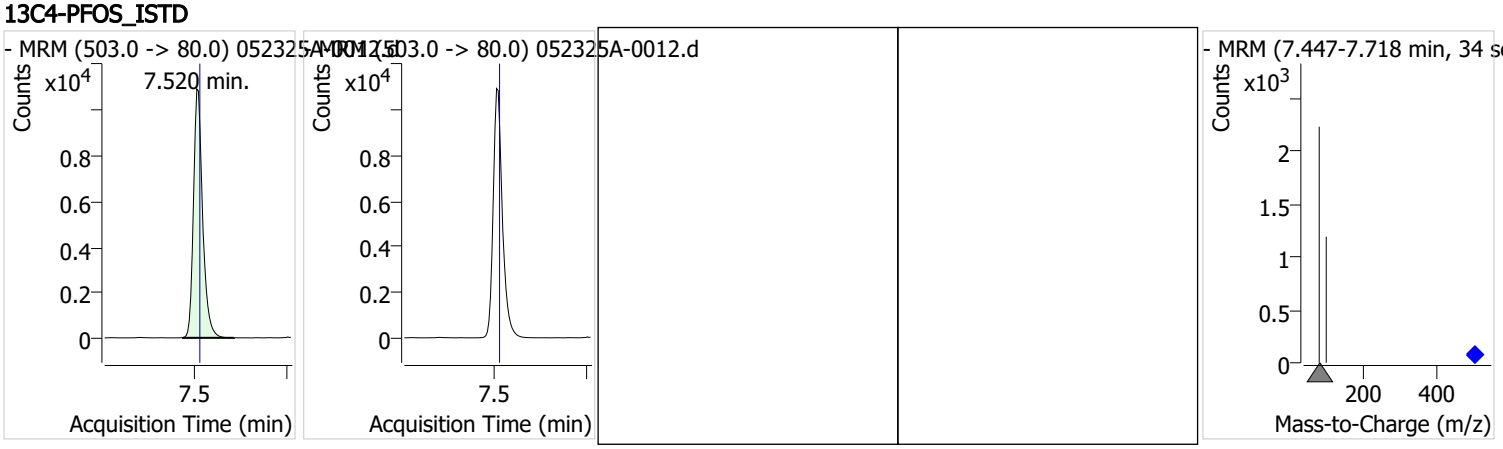
13C2-PFDA_ISTD



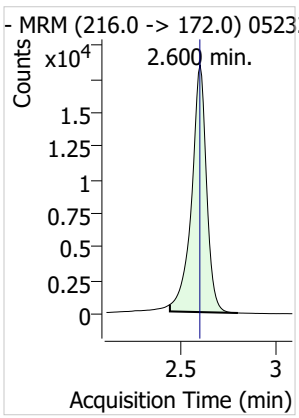
13C2-PFHxA_ISTD

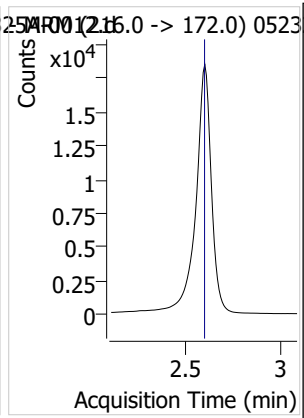


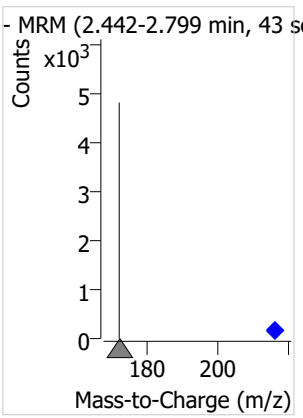
13C4-PFOS_ISTD



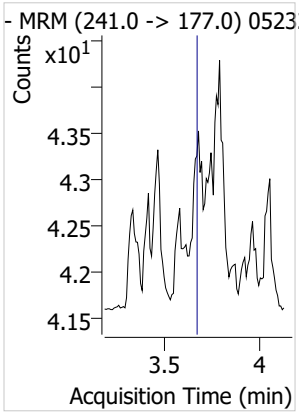
13C3-PFBA

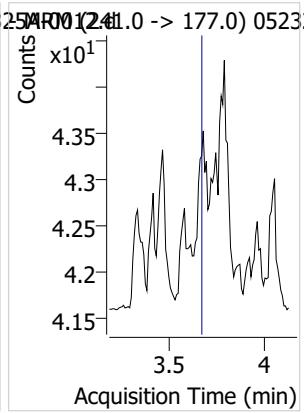


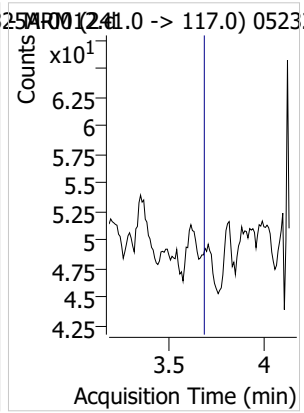


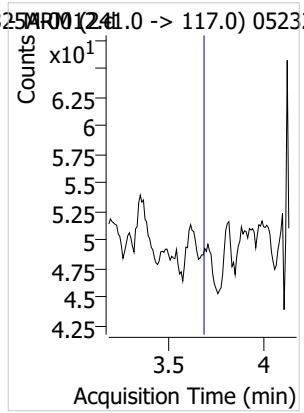


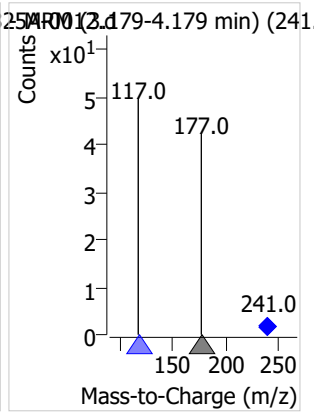
3:3FTCA



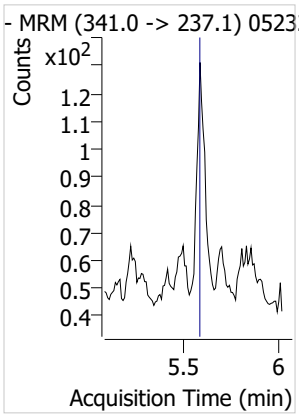


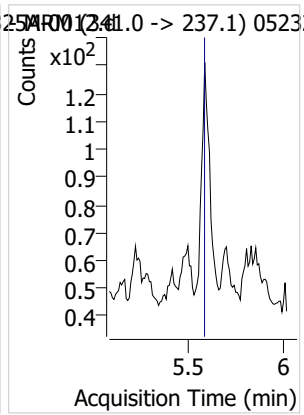


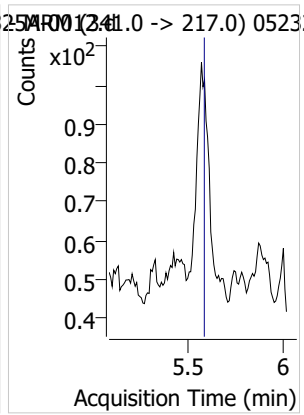


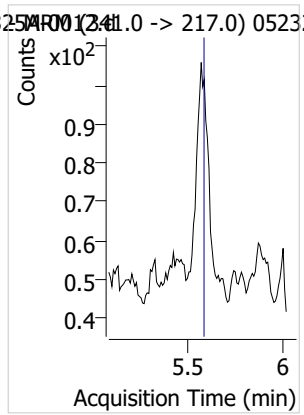


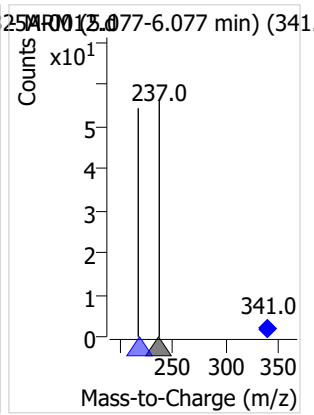
5:3FTCA



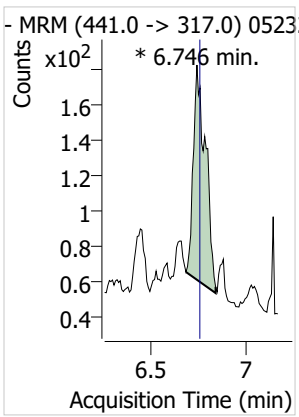


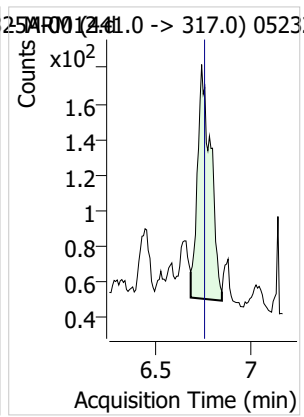


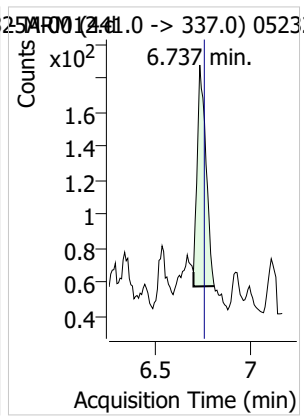


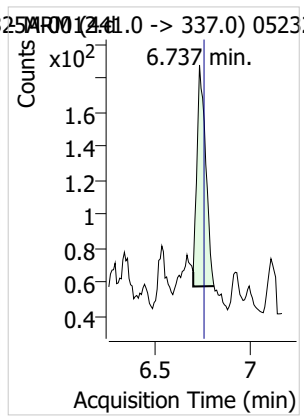


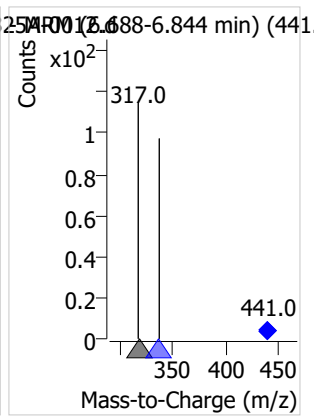
7:3FTCA



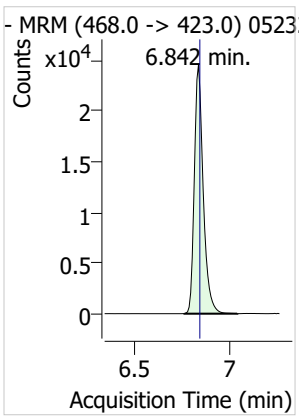


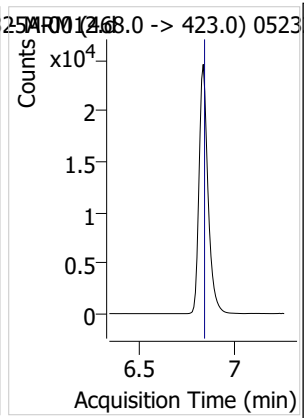


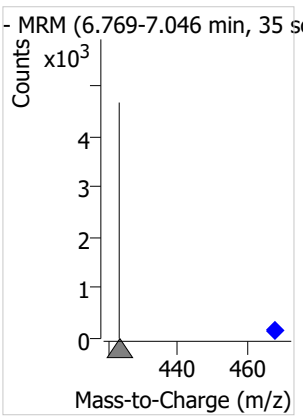




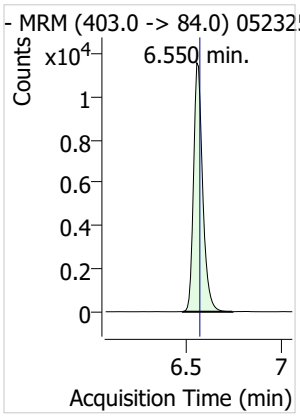
13C5-PFNA

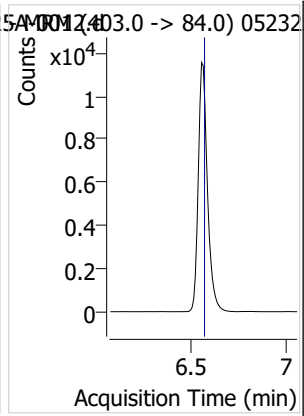


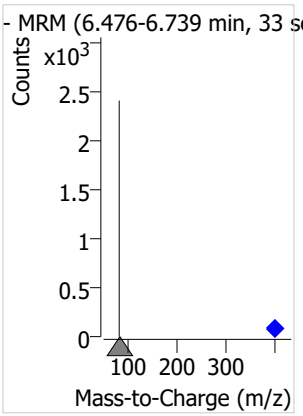




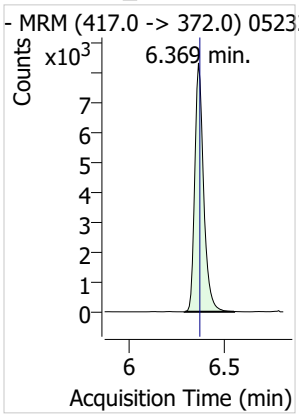
18O2-PFHxS

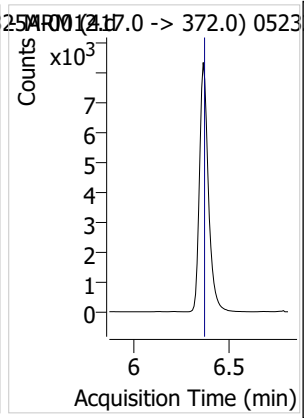


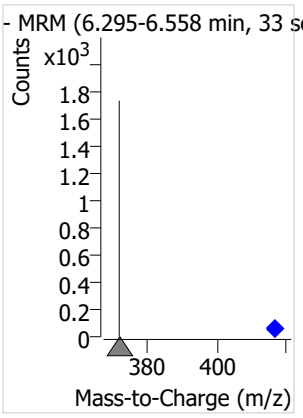




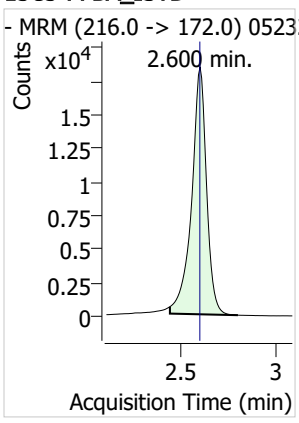
13C4-PFOA_ISTD

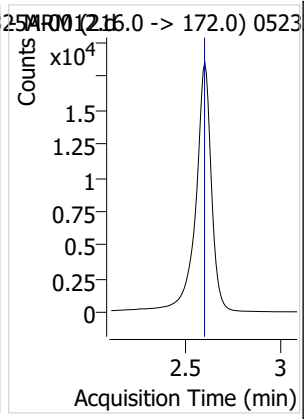


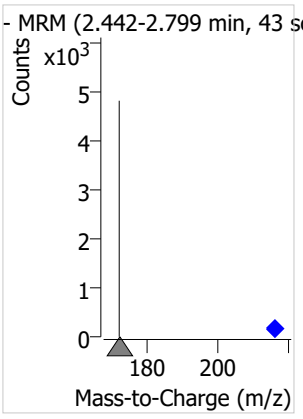




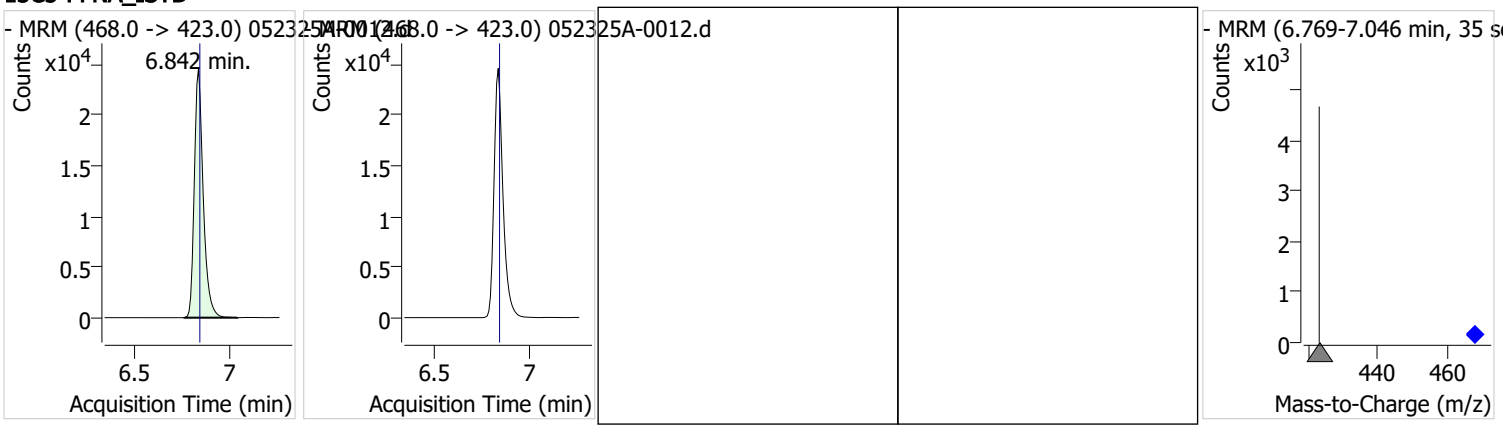
13C3-PFBA_ISTD



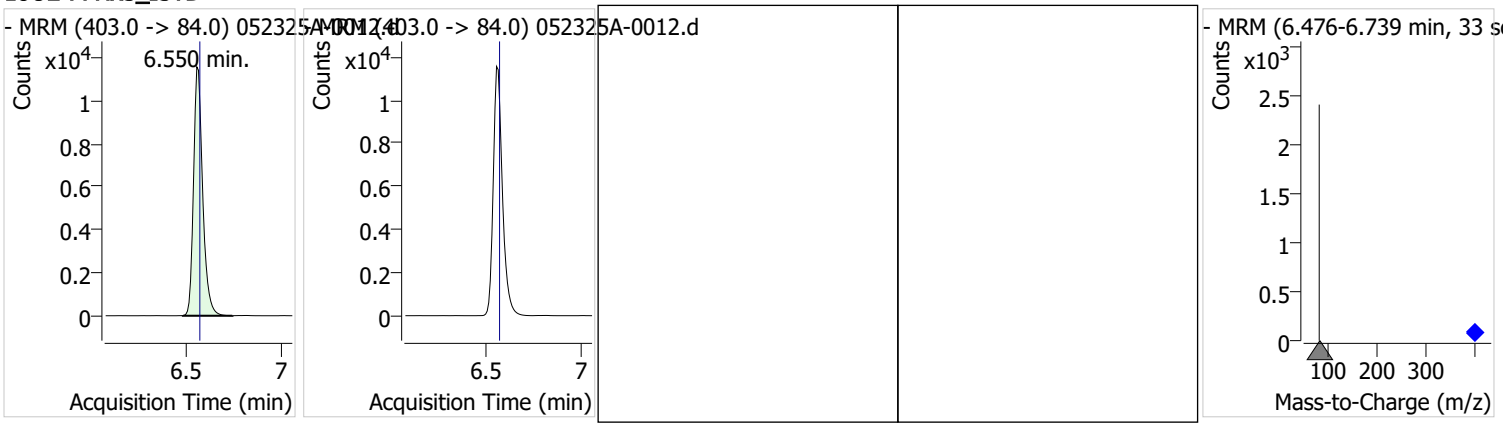




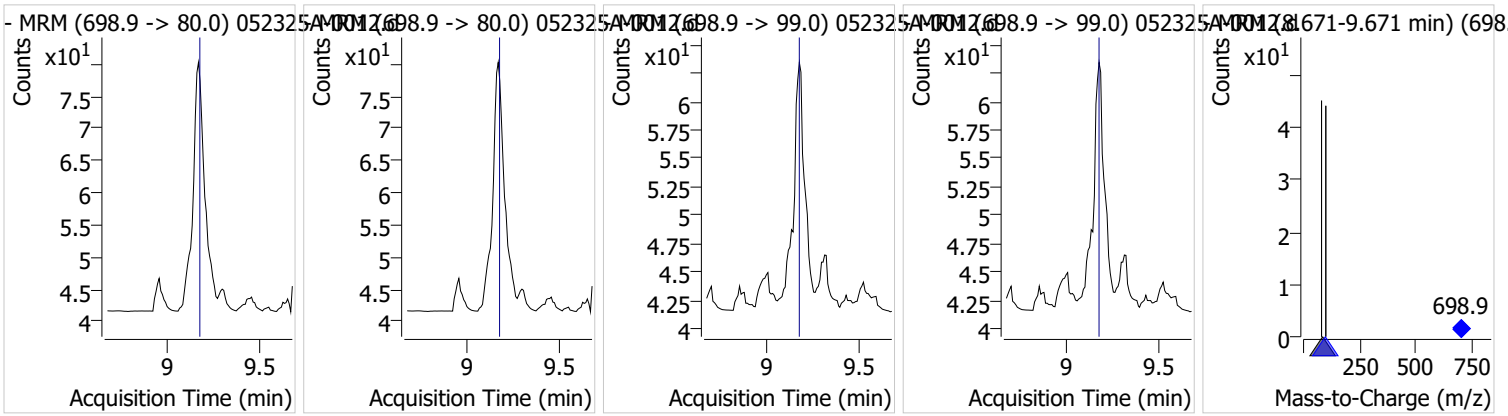
13C5-PFNA_ISTD



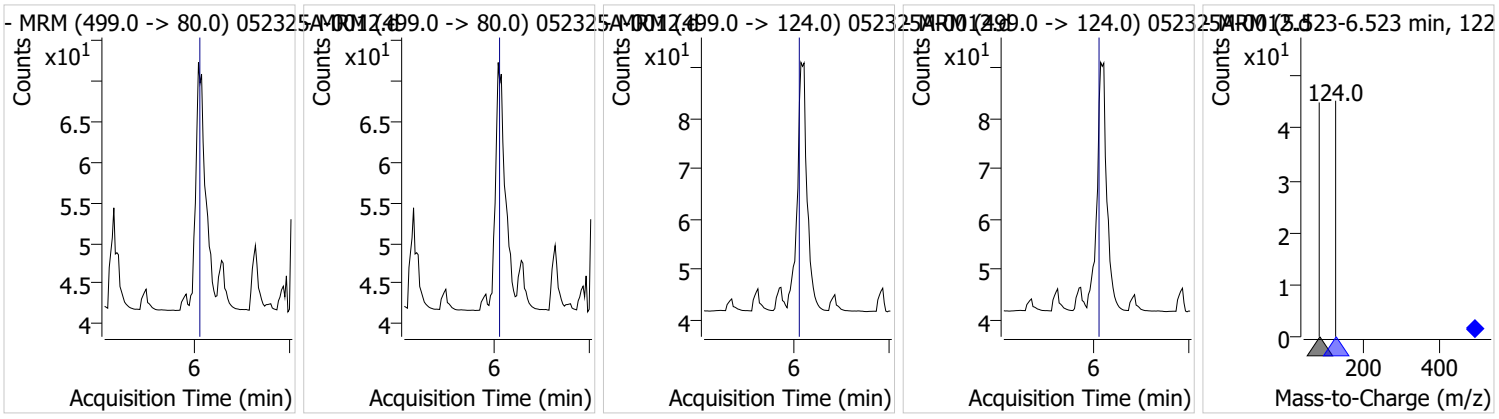
18O2-PFHxS_ISTD



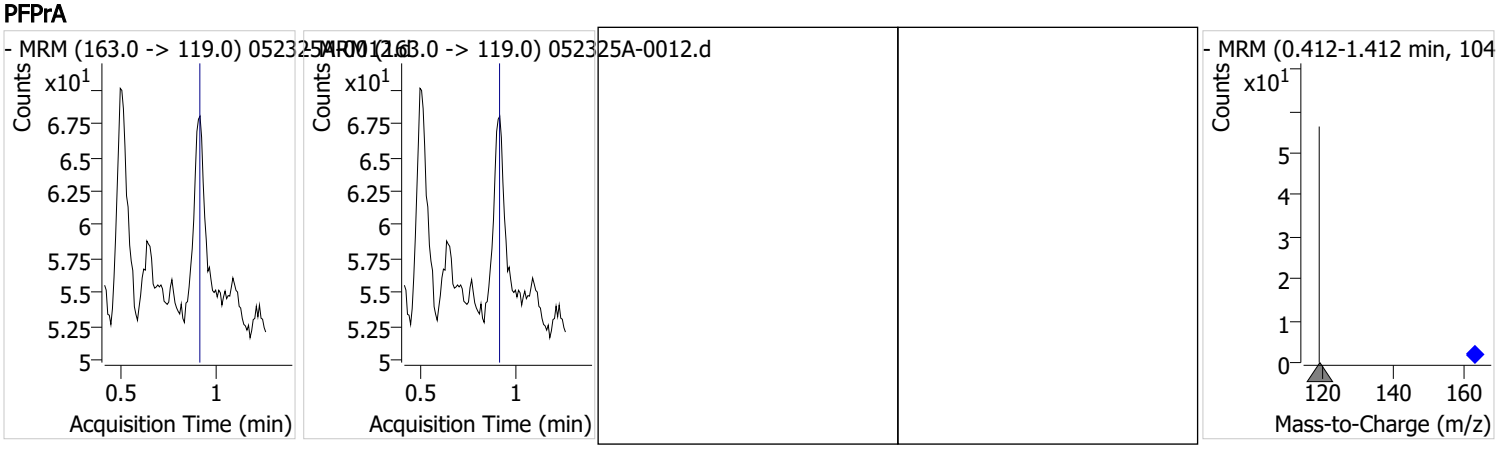
PFDoS



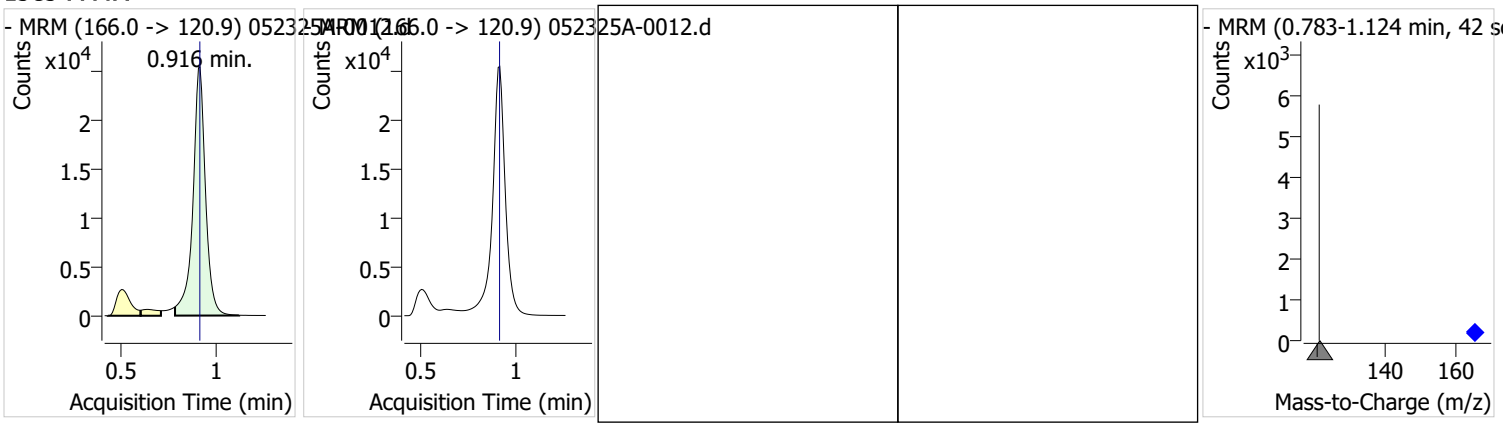
TDCA



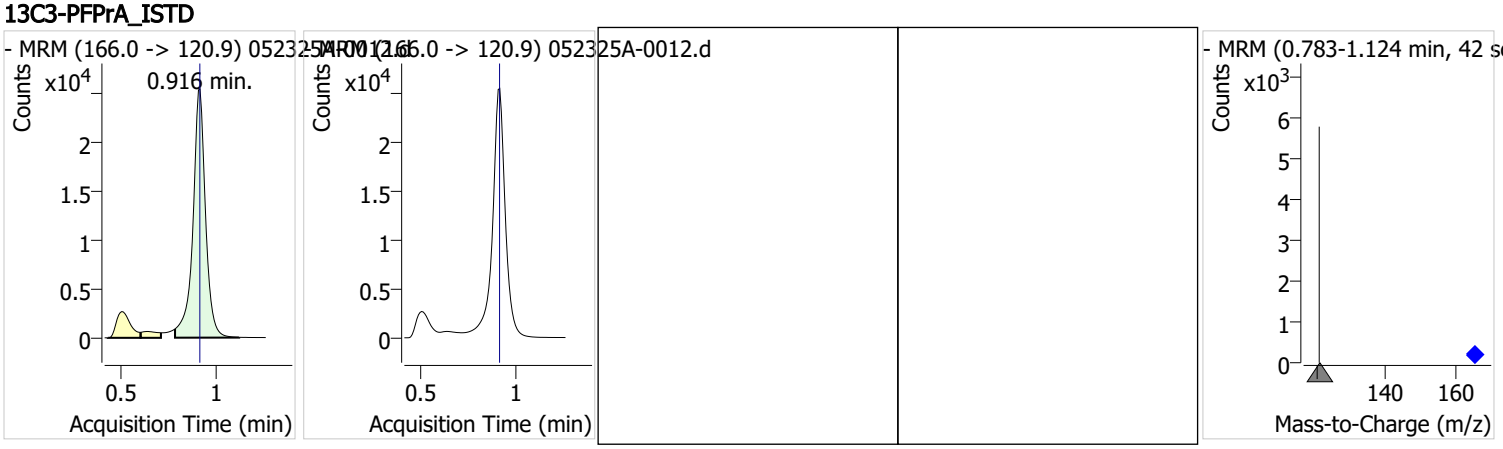
PFPrA



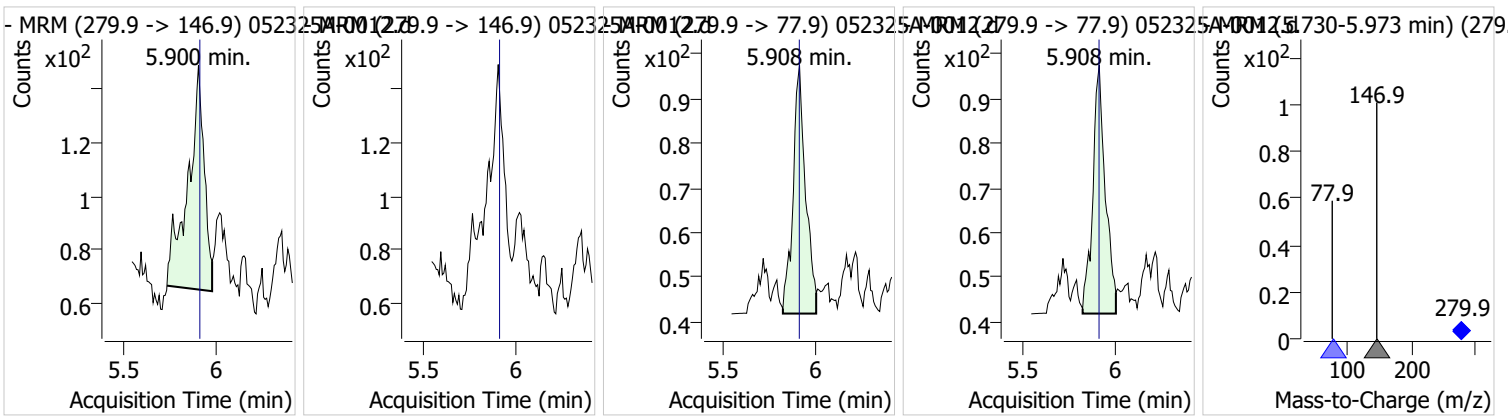
13C3-PFPrA



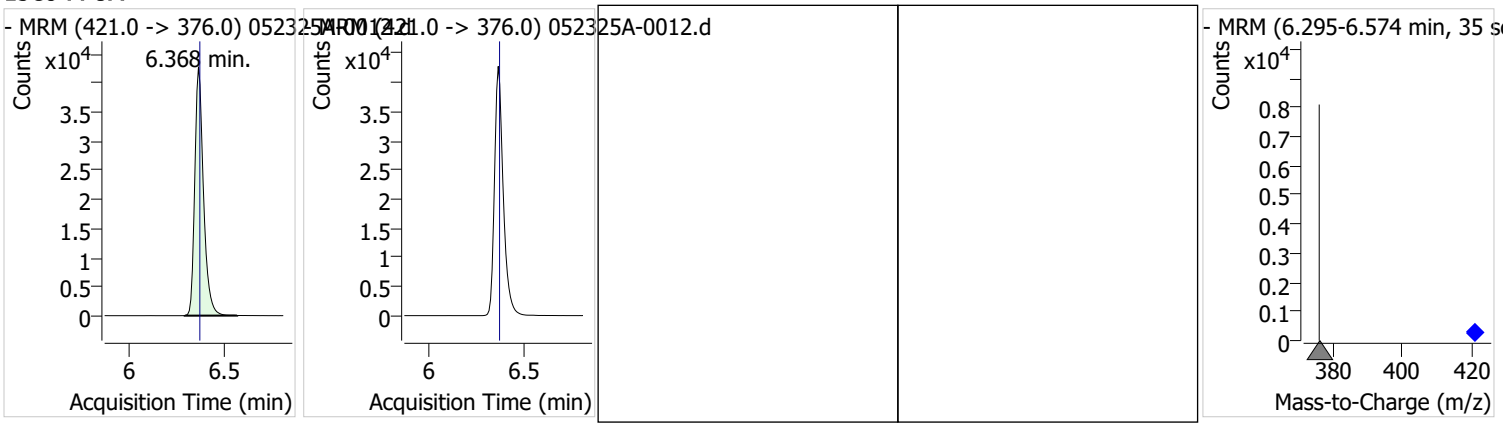
13C3-PFPrA_ISTD



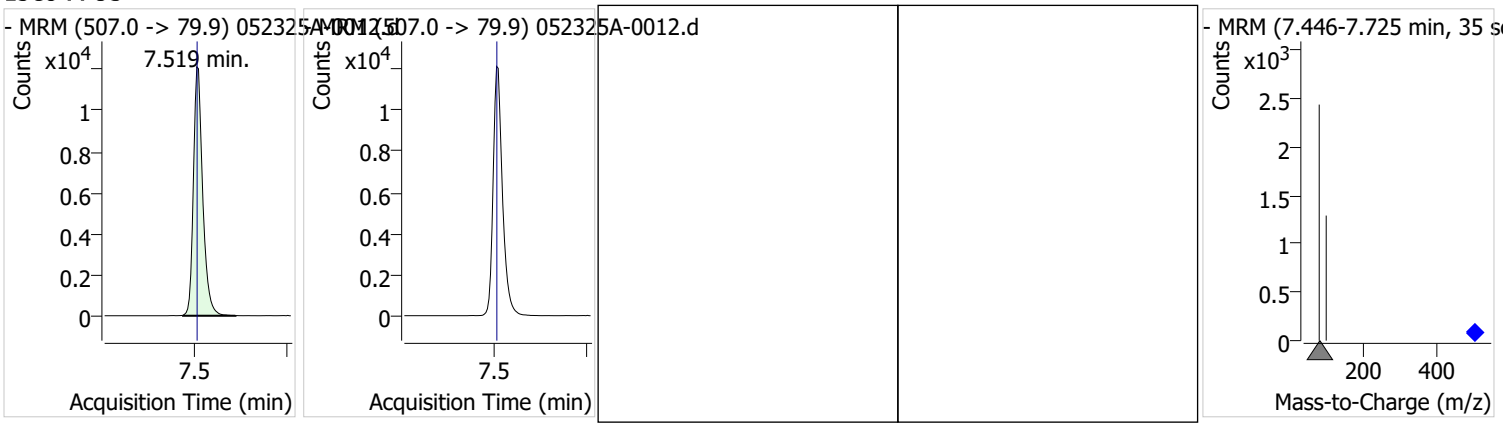
TFSI



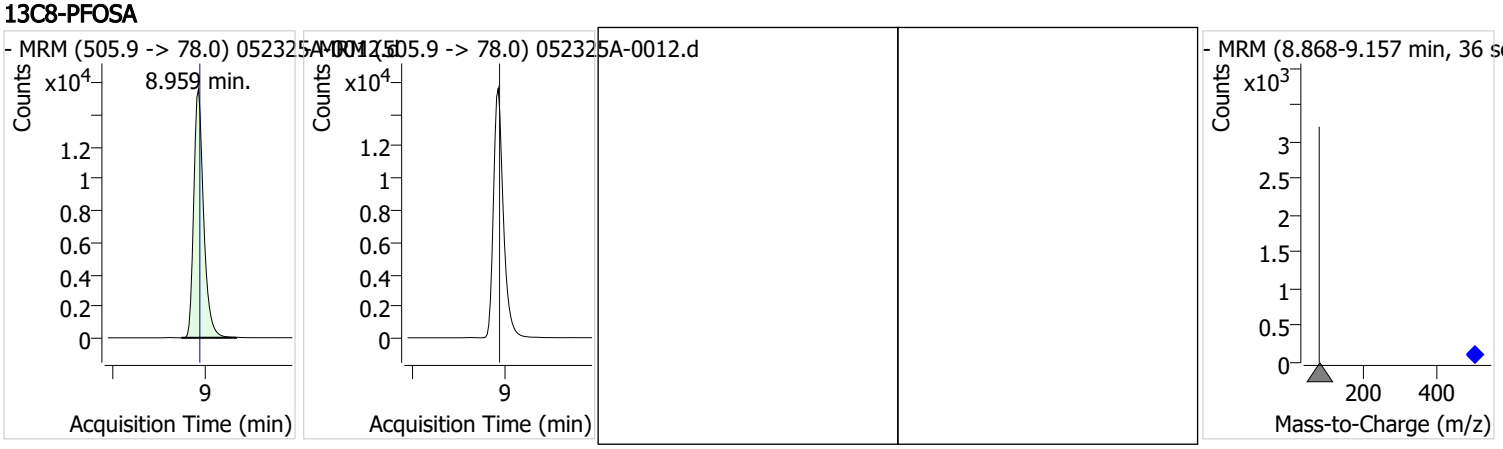
13C8-PFOA



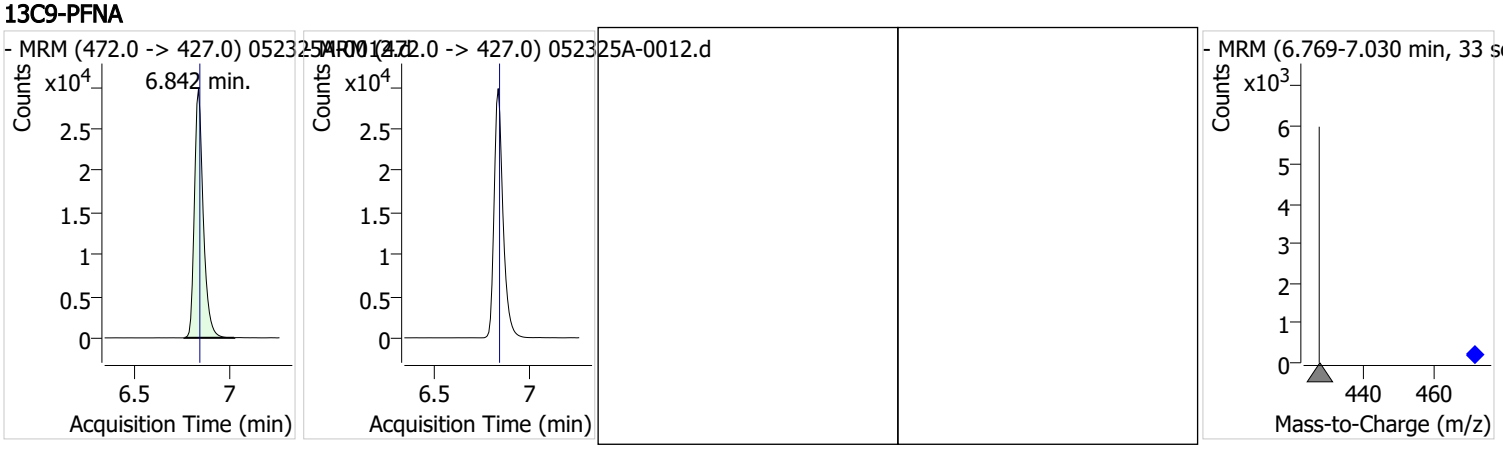
13C8-PFOS



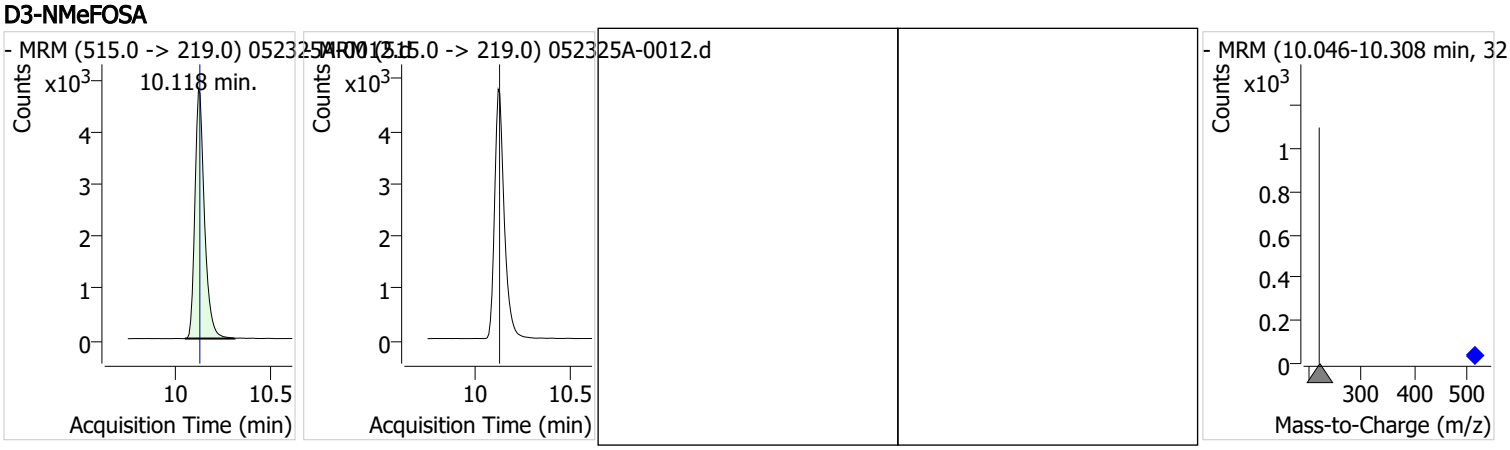
13C8-PFOSA



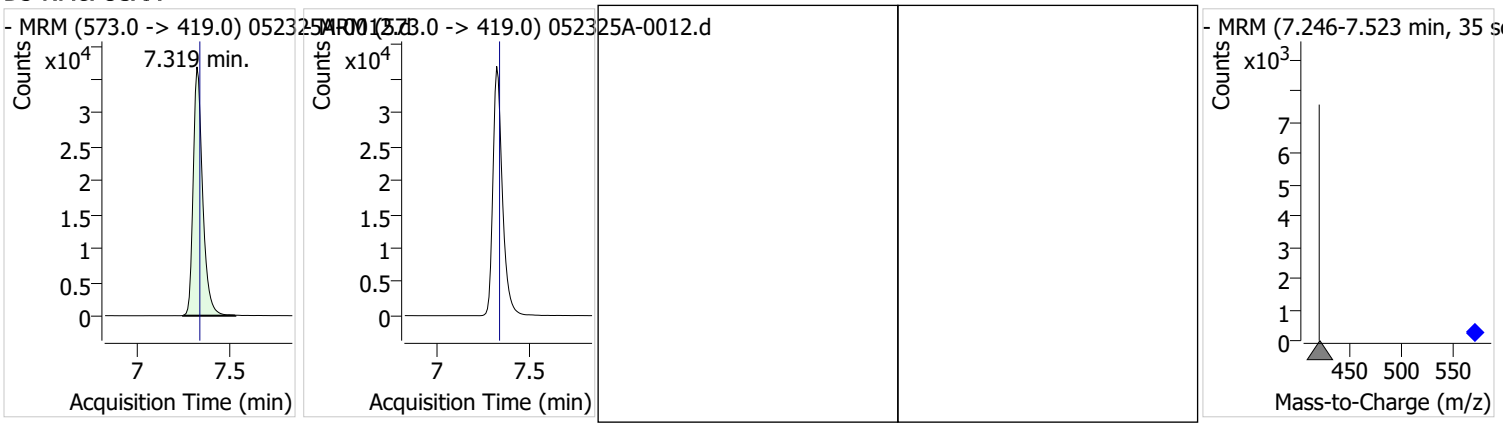
13C9-PFNA



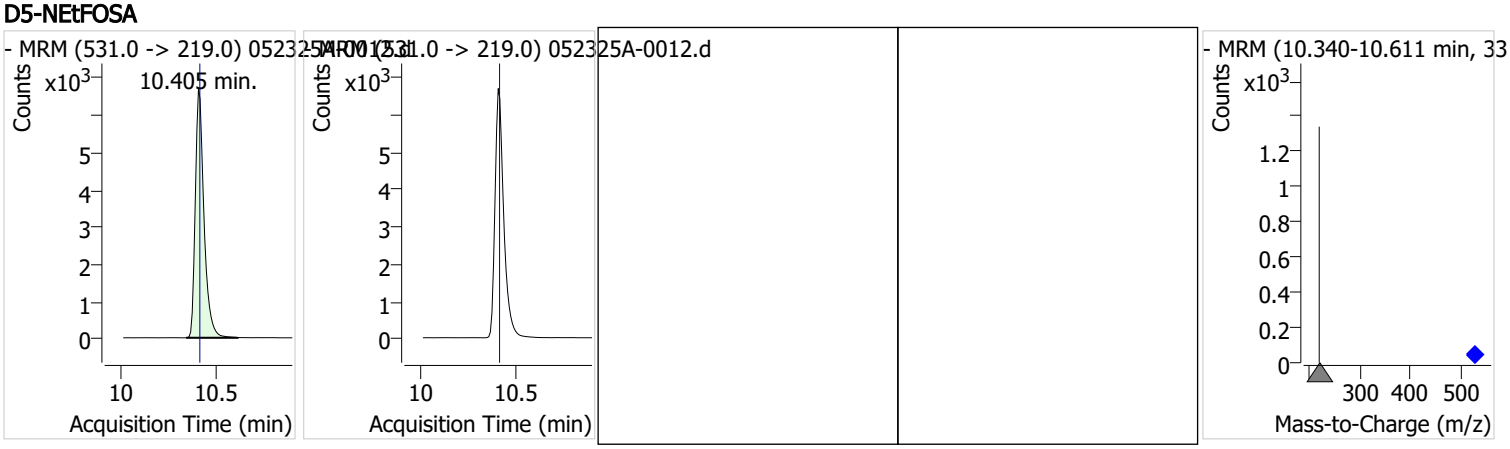
D3-NMeFOSA



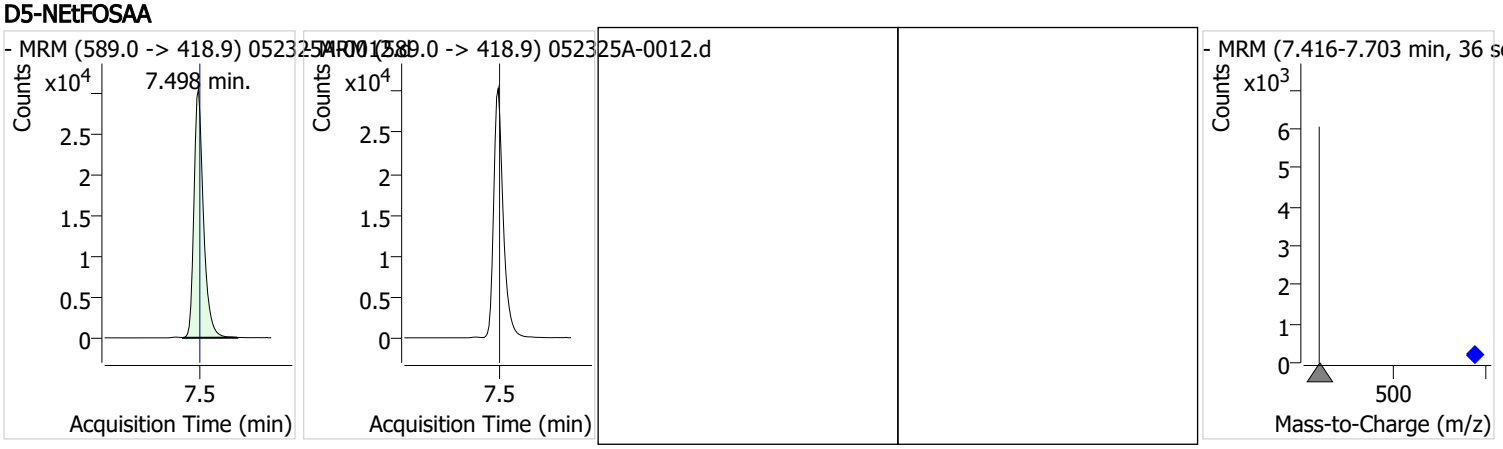
D3-NMeFOSAA



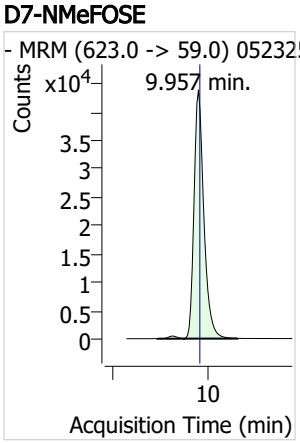
D5-NEtFOSA

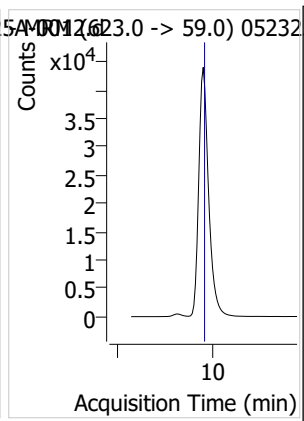


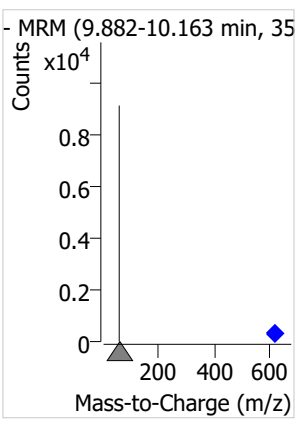
D5-NEtFOSAA



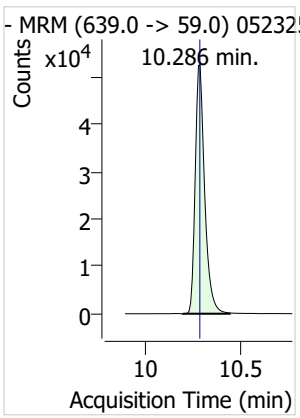
D7-NMeFOSE

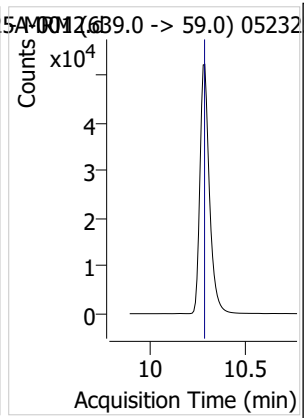


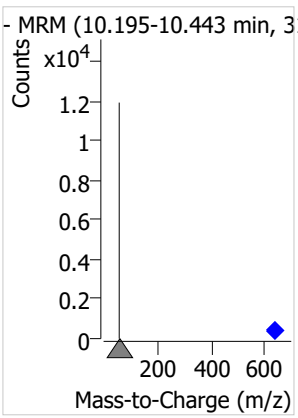




D9-NEtFOSE

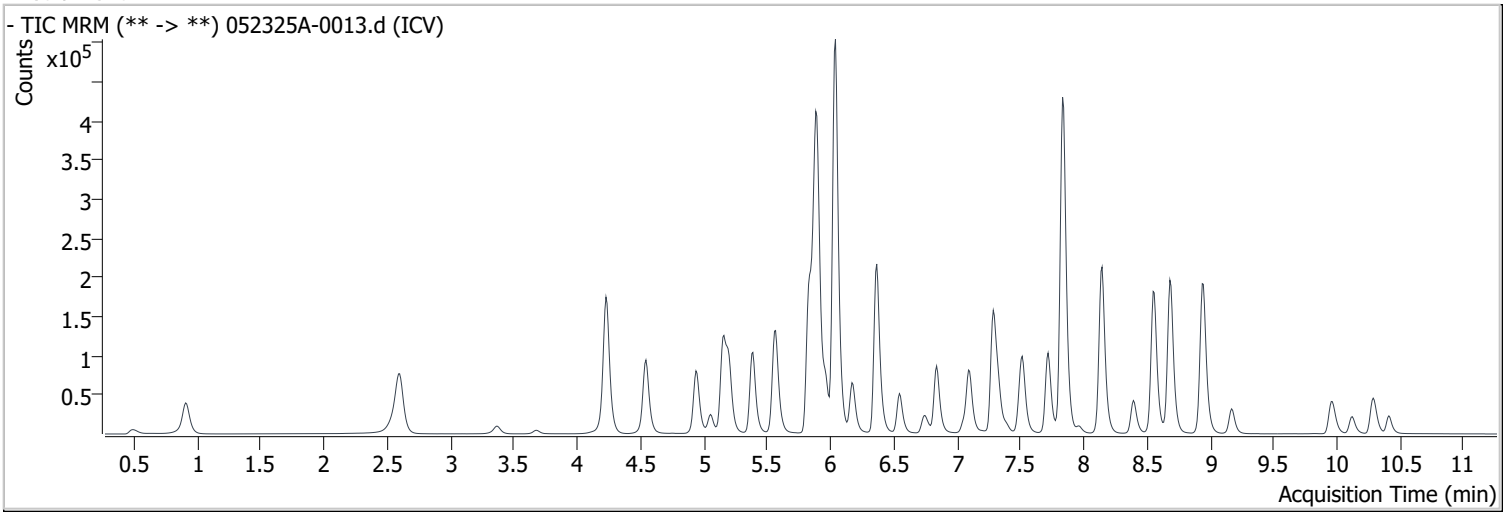






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/23/2025 12:47 PM	**Data File**	052325A-0013.d
Sample Type	QC	**Sample Name**	ICV
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510294	**Processing method**	
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	143301	6718.16		13C3-HFPODA_ISTD	5.394	79546	18.3520	ng/ml			
285.0 -> 184.9	5.394	79656	2724.64	55.6								
4:2FTS	4.938	124850	19535.91		13C2-4:2FTS_ISTD	4.938	31255	6.0690	ng/ml			
327.0 -> 80.9	4.939	45492	8856.46	36.4								
6:2FTS	6.172	87238	26324.56		13C2-6:2FTS_ISTD	6.172	23262	6.9627	ng/ml			
427.0 -> 80.9	6.172	35805	3935.64	41.0								
ADONA	6.044	1174657	355277.88		13C4-PFHpA_ISTD	5.831	138003	13.1275	ng/ml			
377.0 -> 85.1	6.044	480957	31126.11	40.9								
8:2FTS	7.092	126128	349703.09		13C2-8:2FTS_ISTD	7.092	21181	10.8635	ng/ml			
527.0 -> 81.0	7.101	53631	15520.17	42.5								
13C4-PFBA	2.597	185613	1876.22		13C3-PFBA_ISTD	2.592	82659	9.2261	ng/ml			
9Cl-PF3ONS	7.838	1137091	95635.23		13C8-PFOS_ISTD	7.519	27104	18.5540	ng/ml			
533.0 -> 353.0	7.838	314943	5857.89	27.7								
11Cl-PF3OUdS	8.685	538298	156737.40		13C8-PFOS_ISTD	7.519	27104	12.5454	ng/ml			
633.0 -> 453.0	8.684	131265	27557.28	24.4								
PFHpS	7.055	33104	9844.95		13C8-PFOS_ISTD	7.519	27104	2.2008	ng/ml			
449.0 -> 98.8	7.055	14523	12654.38	43.9								
13C2-4:2FTS	4.938	31255	9969.91		18O2-PFHxS_ISTD	6.550	29432	6.1672	ng/ml			
13C2-6:2FTS	6.172	23262	111634.45		18O2-PFHxS_ISTD	6.550	29432	6.0920	ng/ml			
13C2-8:2FTS	7.092	21181	6127.20		18O2-PFHxS_ISTD	6.550	29432	5.5263	ng/ml			
13C2-PFDoA	8.146	94005	6291.65		13C2-PFDA_ISTD	7.290	68857	1.0927	ng/ml			
13C2-PFDA	7.290	68857	14660.60					1.4163	ng/ml			
13C2-PFHxA	5.154	82223	24167.25					2.6676	ng/ml			
13C2-PFTeDA	8.936	109224	4319.59		13C2-PFDA_ISTD	7.290	68857	1.1299	ng/ml			
13C4-PFOS	7.520	30517	9078.79					2.7684	ng/ml			
13C3-HFPODA	5.394	79546	182167.97		13C2-PFHxA_ISTD	5.154	82223	9.0547	ng/ml			
13C3-PFBS	5.205	47134	31776.74		18O2-PFHxS_ISTD	6.550	29432	2.3456	ng/ml			
13C3-PFHxS	6.551	34044	47197.96		18O2-PFHxS_ISTD	6.550	29432	2.5020	ng/ml			
NEtFOSAA	7.434	49372	4574.84		D5-NEtFOSAA_ISTD	7.498	70036	3.6211	ng/ml			
584.0 -> 526.0	7.433	44167	1423.39	89.5								

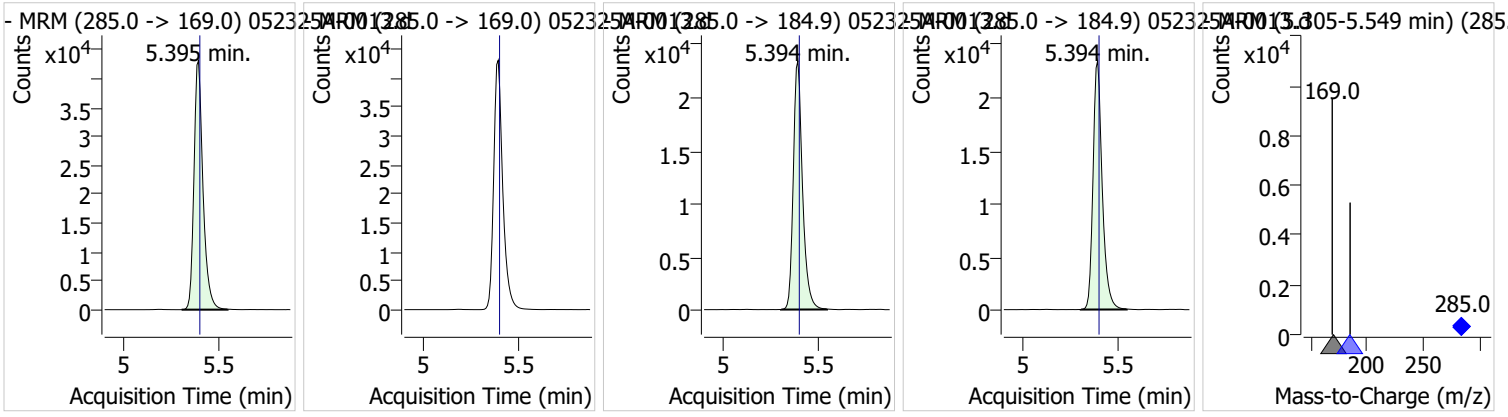
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	138003	10844.15		13C2-PFHxA_ISTD	5.154	82223	2.3635	ng/ml			
NMeFOSAA	7.247	22586	10095.57		D3-NMeFOSAA_ISTD	7.319	92812	3.2739	ng/ml			
570.0 -> 483.0	7.246	27219	1465.30	120.5								
PFBA	2.594	159699	4919.00		13C4-PFBA_ISTD	2.597	185613	8.6339	ng/ml			
13C5-PFHxA	5.153	89032	14768.46		13C2-PFHxA_ISTD	5.154	82223	2.4392	ng/ml			
PFBS	5.205	164425	36734.76		13C3-PFBS_ISTD	5.205	47134	6.6143	ng/ml			
298.9 -> 98.8	5.205	56130	10398.41	34.1								
NMeFOSA	10.073	30520	12268.71		D3-NMeFOSA_ISTD	10.118	12031	5.3292	ng/ml			
512.0 -> 169.0	10.074	34014	25898.51	111.4								
PFDA	7.290	298154	90233.64		13C6-PFDA_ISTD	7.289	72447	5.0295	ng/ml			
513.0 -> 219.0	7.290	54082	297562.11	18.1								
PFDoA	8.146	572049	16900.17		13C2-PFDoA_ISTD	8.146	94005	6.7562	ng/ml			
613.0 -> 319.0	8.147	66103	112187.93	11.6								
NEtFOSA	10.377	26975	22212.16		D5-NEtFOSA_ISTD	10.405	14971	3.6830	ng/ml			
526.0 -> 169.0	10.377	28828	7202.16	106.9								
PFHpA	5.831	320390	3400.55		13C4-PFHpA_ISTD	5.831	138003	5.1751	ng/ml			
362.9 -> 169.0	5.831	53143	4098.65	16.6								
PFHxA	5.155	203800	3022.93		13C5-PFHxA_ISTD	5.153	89032	4.9066	ng/ml			
313.0 -> 118.9	5.155	6181	1848.69	3.0								
NMeFOSE	9.899	42297	10892.25		D7-NMeFOSE_ISTD	9.957	119998	7.1606	ng/ml			
PFHxS	6.498	70465	4459.19		13C3-PFHxS_ISTD	6.551	34044	4.0966	ng/ml			
398.9 -> 99.0	6.498	31174	6481.00	44.2								
PFNA	6.789	118484	8553.63		13C9-PFNA_ISTD	6.842	64107	2.6411	ng/ml			
463.0 -> 219.0	6.789	27950	7608.56	23.6								
NEtFOSE	10.249	38728	10486.43		D9-NEtFOSE_ISTD	10.277	132872	5.3796	ng/ml			
PFOA	6.300	459174	17613.87		13C8-PFOA_ISTD	6.368	96982	10.0232	ng/ml			
413.0 -> 169.0	6.300	120948	494209.01	26.3								
PFOS	7.399	109530	6089.09		13C8-PFOS_ISTD	7.519	27104	6.8359	ng/ml			
499.0 -> 99.0	7.402	52829	5181.34	48.2								
PFPeA	4.231	526226	8152.82		13C5-PFPeA_ISTD	4.229	137575	16.9898	ng/ml			
PFMPA	3.368	45093	3190.32		13C4-PFBA_ISTD	2.597	185613	14.0440	ng/ml			
13C5-PFPeA	4.229	137575	6735.89		13C2-PFHxA_ISTD	5.154	82223	4.7244	ng/ml			
PFMBA	4.547	350302	94137.06		13C5-PFPeA_ISTD	4.229	137575	15.3308	ng/ml			
PFTrDA	8.550	582429	5053.60		13C2-PFDoA_ISTD	8.146	94005	5.8907	ng/ml			
663.0 -> 168.9	8.559	48130	13834.02	8.3								
PFEESA	5.562	359726	27223.89		13C5-PFHxA_ISTD	5.153	89032	5.0545	ng/ml			
315.0 -> 83.0	5.562	24920	5771.77	6.9								
13C6-PFDA	7.289	72447	22187.50		13C2-PFDA_ISTD	7.290	68857	1.1174	ng/ml			
NFDHA	5.058	59125	408282.46		13C5-PFHxA_ISTD	5.153	89032	12.2762	ng/ml			
295.0 -> 85.0	5.058	20078	7637.17	34.0								
PFOSA	8.899	63580	975986.09		13C8-PFOSA_ISTD	8.959	39624	3.6479	ng/ml			
497.9 -> 478.0	8.902	1616	4383.71	2.5								
13C7-PFUnA	7.721	82825	24553.70		13C2-PFDA_ISTD	7.290	68857	1.1438	ng/ml			
13C4-PFOA	6.369	20846	18951.71					2.5212	ng/ml			
PFDS	8.398	94568	16687.67		13C8-PFOS_ISTD	7.519	27104	8.2972	ng/ml			
599.0 -> 98.8	8.397	47571	23130.00	50.3								
PFNS	7.969	17224	5110.60		13C8-PFOS_ISTD	7.519	27104	1.2293	ng/ml			
549.0 -> 98.8	7.968	8018	2411.31	46.6								
PFPeS	5.971	119068	48482.71		13C3-PFHxS_ISTD	6.551	34044	5.5766	ng/ml			
349.0 -> 98.9	5.971	51947	33959.11	43.6								
PFTeDA	8.937	449388	10102.03		13C2-PFTeDA_ISTD	8.936	109224	4.4575	ng/ml			

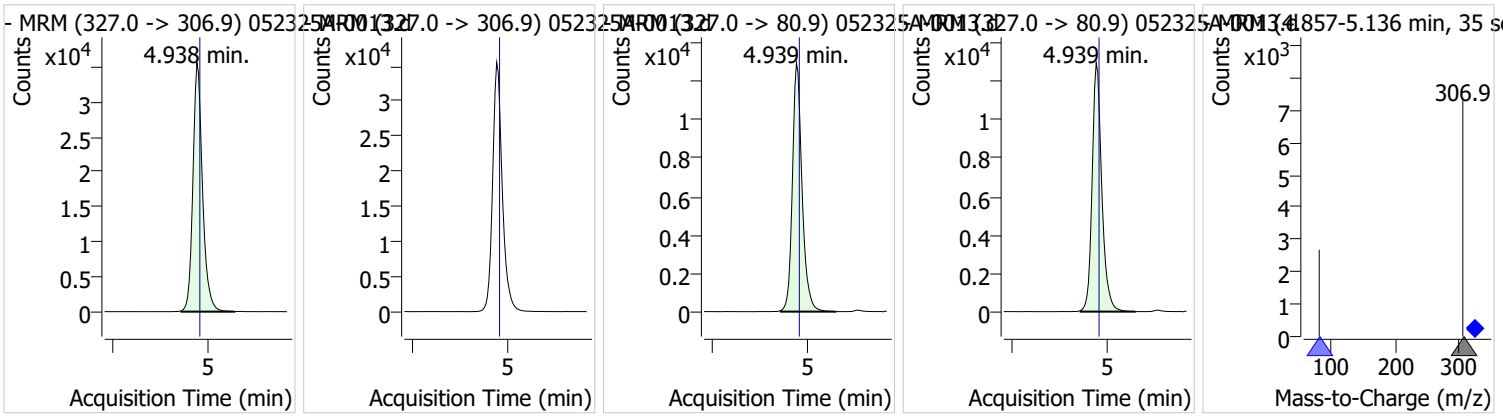
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	22304	6597.35	5.0								
PFUnA	7.722	222991	4900.18		13C7-PFUnA_ISTD	7.721	82825	3.2239	ng/ml			
563.0 -> 269.1	7.722	35885	10618.81	16.1								
13C3-PFBA	2.592	82659	1794.82					5.4430	ng/ml			
3:3FTCA	3.679	12754	5209.82		13C5-PFPeA_ISTD	4.229	137575	16.3718	ng/ml			
241.0 -> 117.0	3.673	6699	461.54	52.5								
5:3FTCA	5.577	43383	11528.13		13C5-PFHxA_ISTD	5.153	89032	13.0561	ng/ml			
341.0 -> 217.0	5.569	40817	1233.08	94.1								
7:3FTCA	6.746	43276	4081.70		13C9-PFNA_ISTD	6.842	64107	12.6186	ng/ml			
441.0 -> 337.0	6.754	46944	918.30	108.5								
13C5-PFNA	6.842	63555	4164.36					1.3439	ng/ml			
18O2-PFHxS	6.550	29432	45125.81					2.5910	ng/ml			
PFDoS	9.171	69220	588934.48		13C8-PFOS_ISTD	7.519	27104	9.0343	ng/ml			
698.9 -> 99.0	9.170	38145	78696.64	55.1								
TDCA					13C8-PFOS_ISTD	7.519	27104	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	93863	6603.91		13C3-PFPrA_ISTD	0.907	85819	12.4472	ng/ml			
13C3-PFPrA	0.907	85819	19637.40		13C3-PFBA_ISTD	2.592	82659	9.5973	ng/ml			
TFSI	5.900	945036	12216.49		13C3-HFPODA_ISTD	5.394	79546	14.8420	ng/ml			
279.9 -> 77.9	5.892	656466	161766.23	69.5								
13C8-PFOA	6.368	96982	3457.99		13C4-PFOA_ISTD	6.369	20846	2.4831	ng/ml			
13C8-PFOS	7.519	27104	6666.39		13C4-PFOS_ISTD	7.520	30517	2.2710	ng/ml			
13C8-PFOSA	8.959	39624	11129.44		13C4-PFOS_ISTD	7.520	30517	2.3089	ng/ml			
13C9-PFNA	6.842	64107	19629.27		13C5-PFNA_ISTD	6.842	63555	1.1416	ng/ml			
D3-NMeFOSA	10.118	12031	1708.43		13C4-PFOS_ISTD	7.520	30517	2.2005	ng/ml			
D3-NMeFOSAA	7.319	92812	9790.43		13C4-PFOS_ISTD	7.520	30517	4.8897	ng/ml			
D5-NEtFOSA	10.405	14971	4700.10		13C4-PFOS_ISTD	7.520	30517	2.2778	ng/ml			
D5-NEtFOSAA	7.498	70036	19967.70		13C4-PFOS_ISTD	7.520	30517	4.8585	ng/ml			
D7-NMeFOSE	9.957	119998	7627.87		13C4-PFOS_ISTD	7.520	30517	22.8605	ng/ml			
D9-NEtFOSE	10.277	132872	10803.37		13C4-PFOS_ISTD	7.520	30517	22.7956	ng/ml			

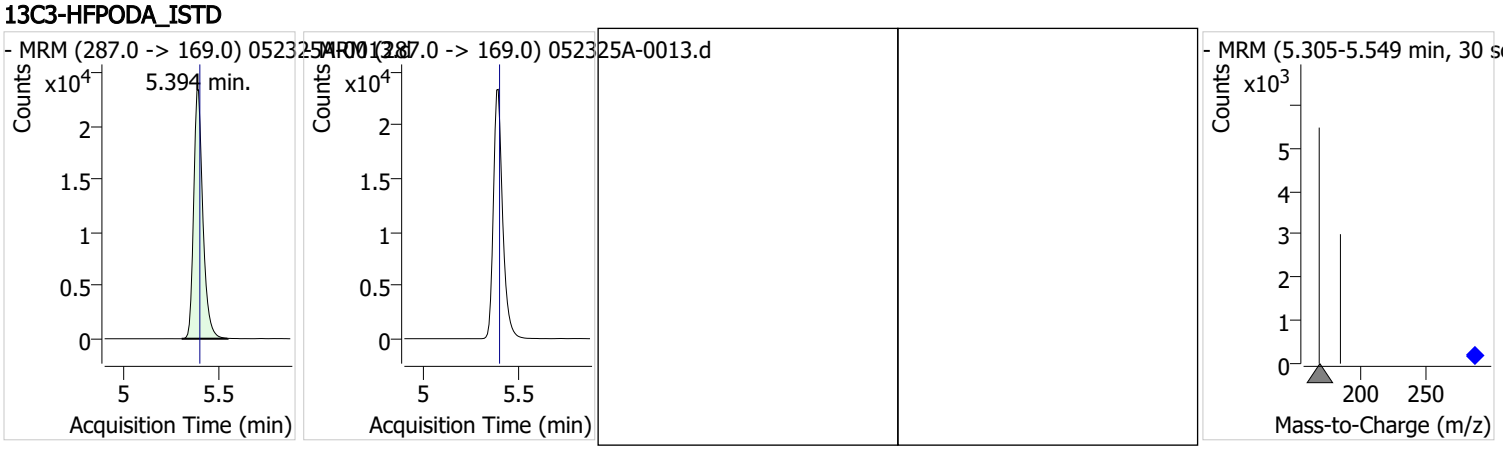
HFPO-DA



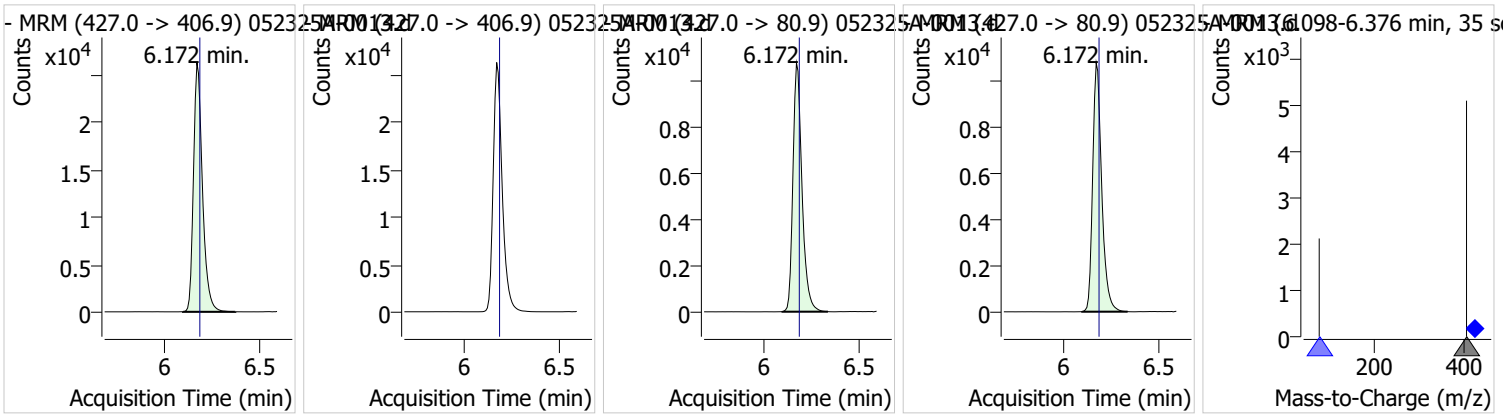
4:2FTS



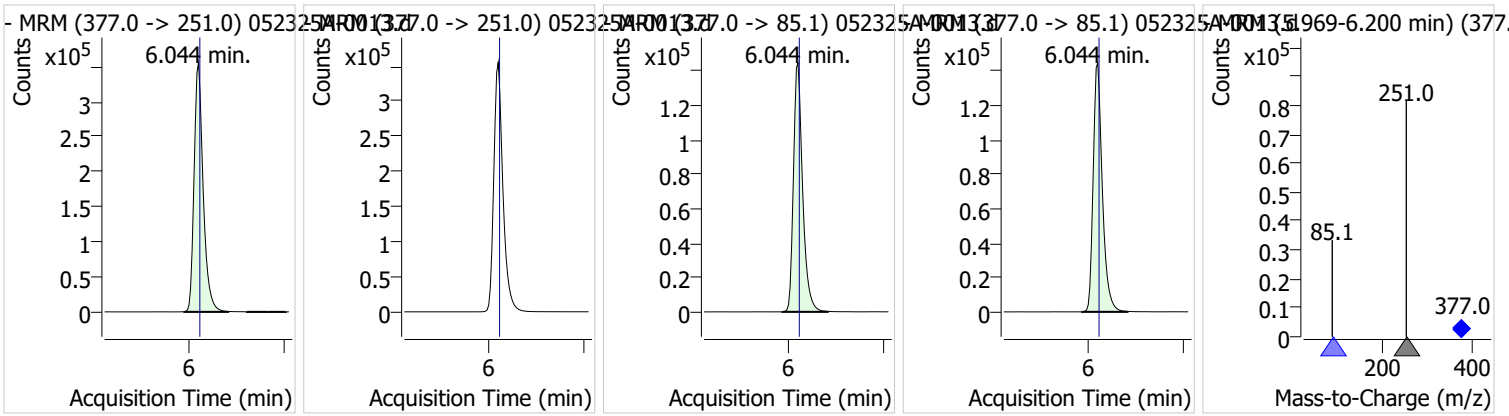
13C3-HFPODA_ISTD



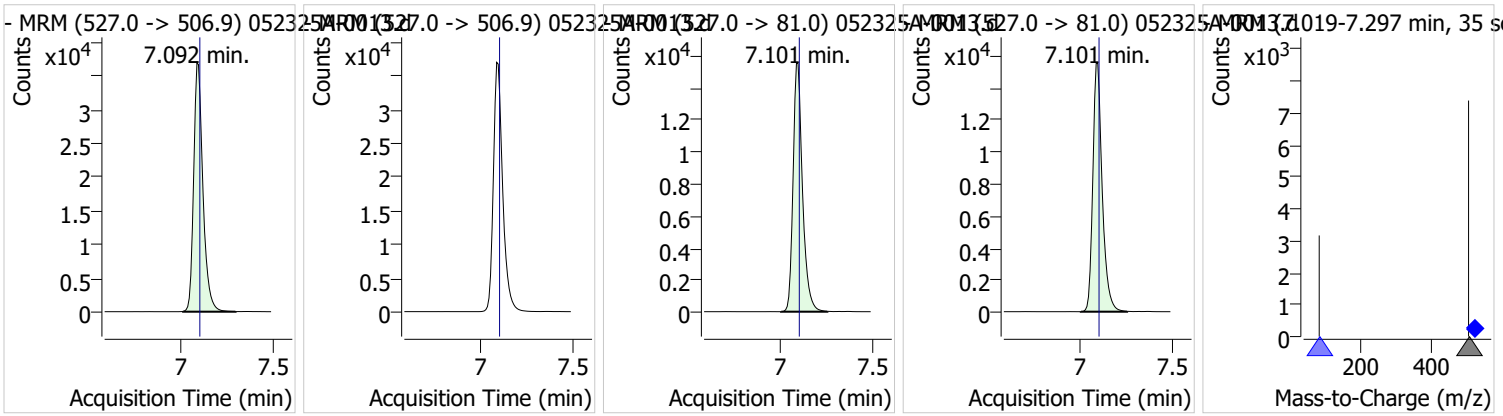
6:2FTS



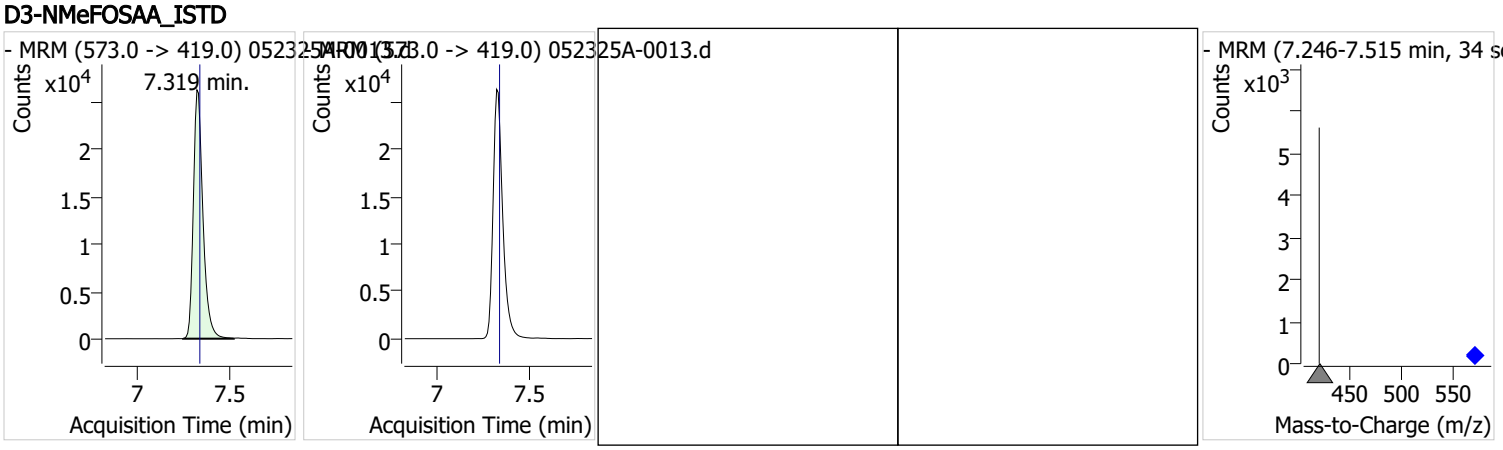
ADONA



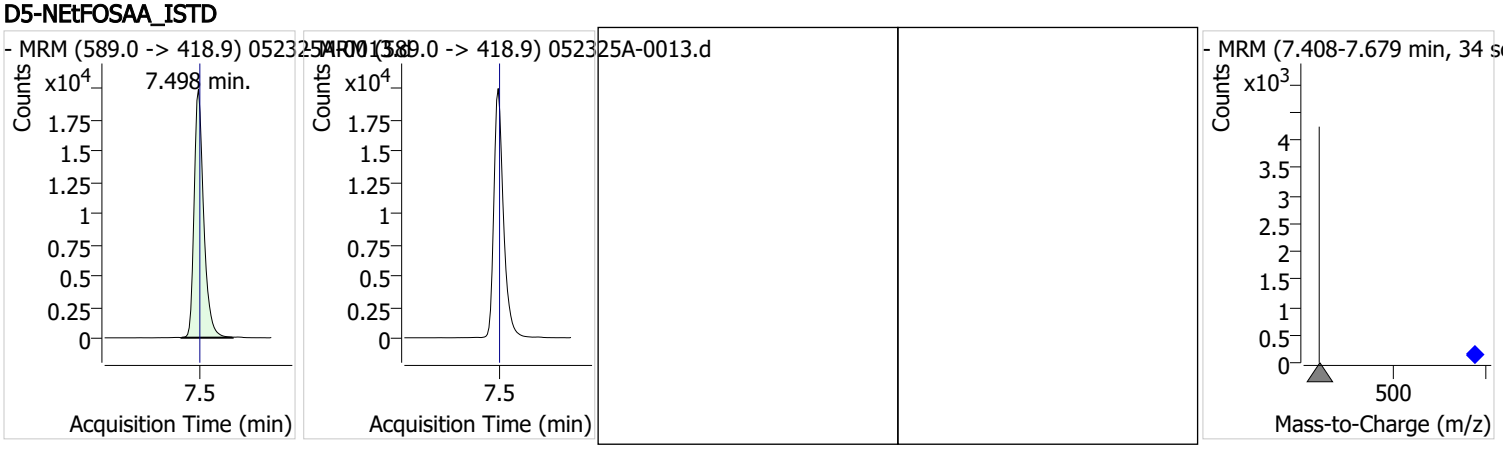
8:2FTS



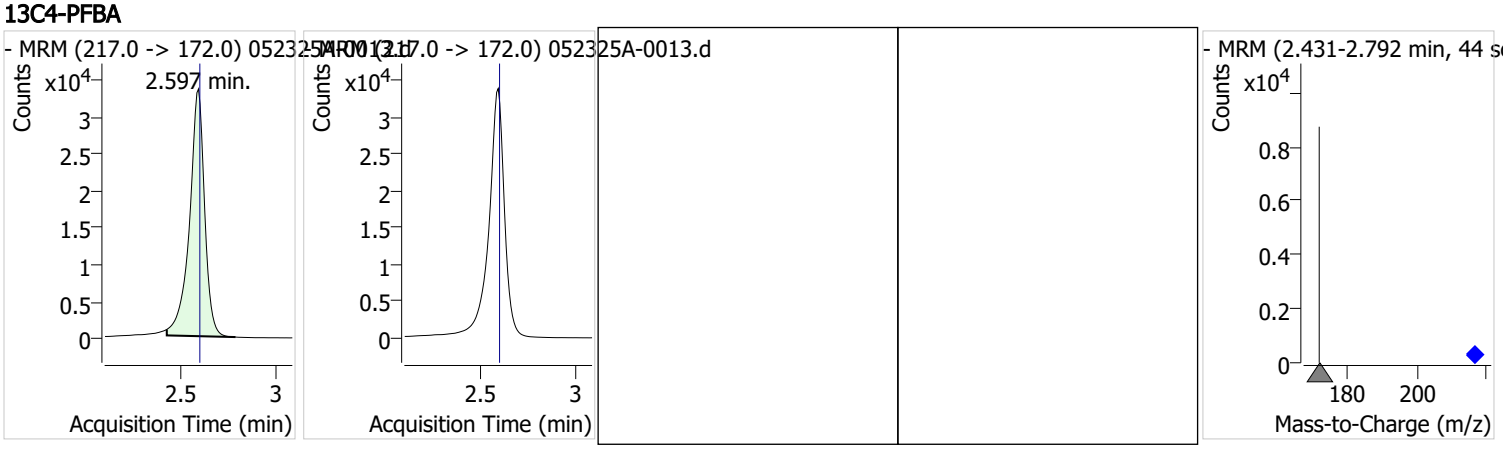
D3-NMeFOSAA_ISTD



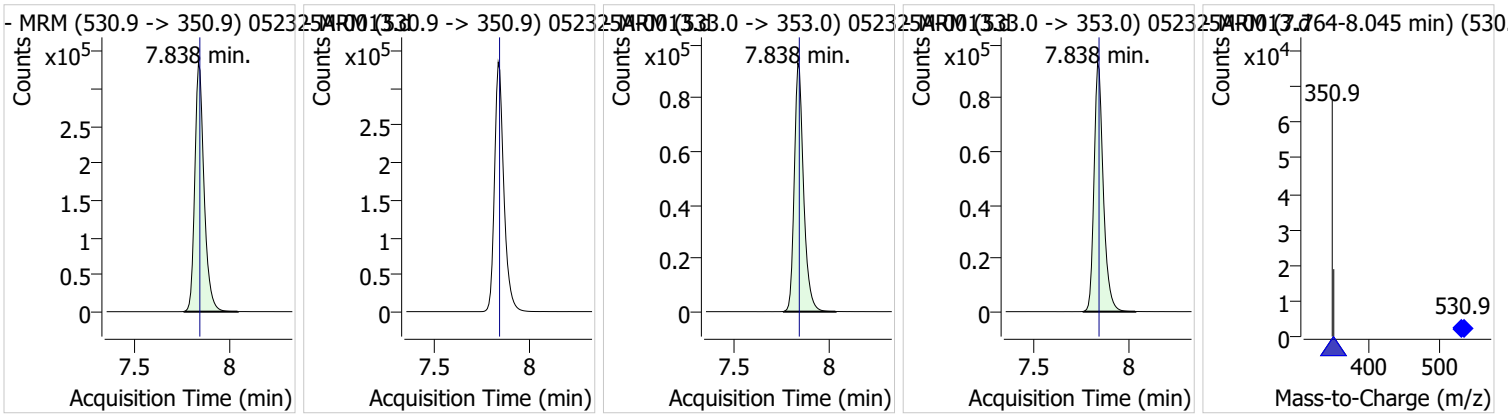
D5-NEtFOSAA_ISTD



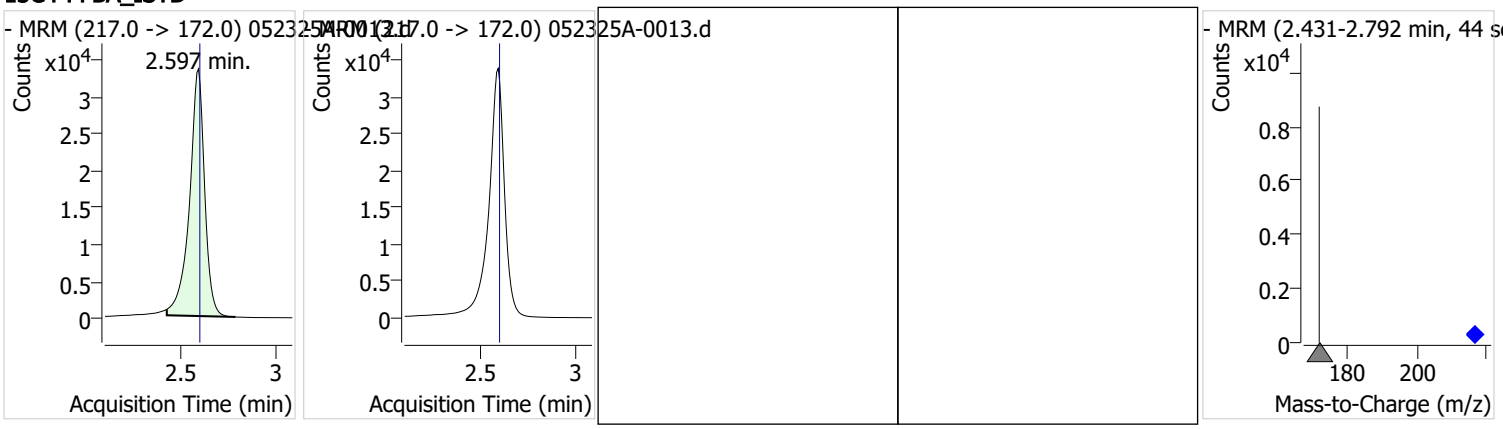
13C4-PFBA



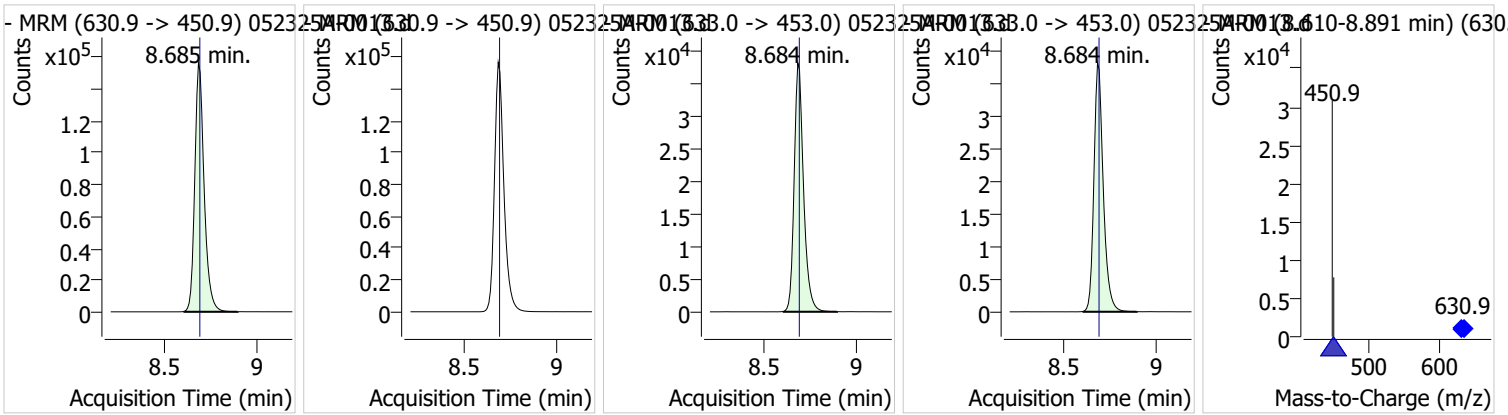
9Cl-PF3ONS



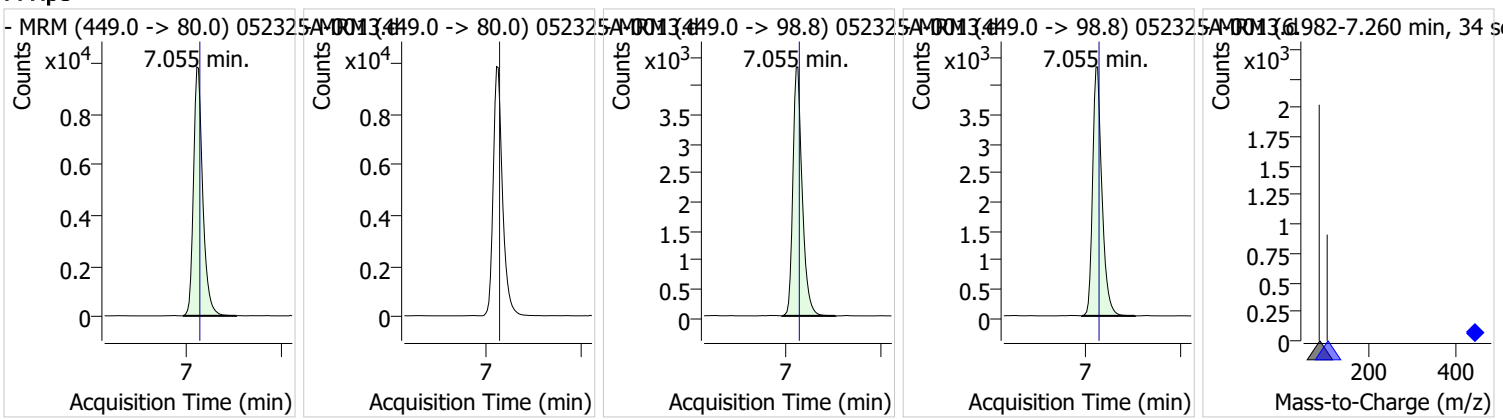
13C4-PFBA_ISTD



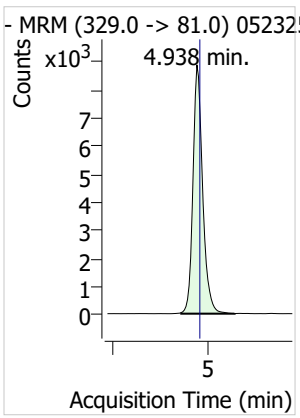
11Cl-PF3OUdS

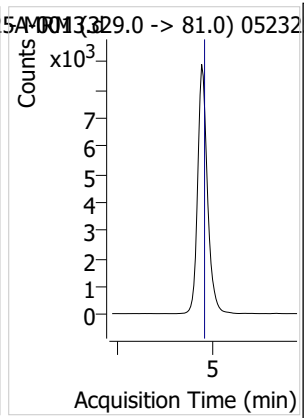


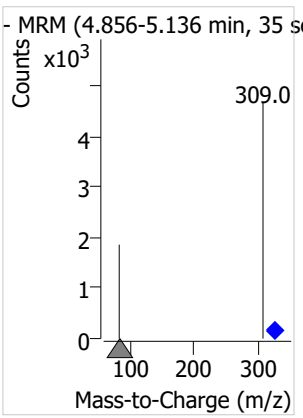
PFHpS



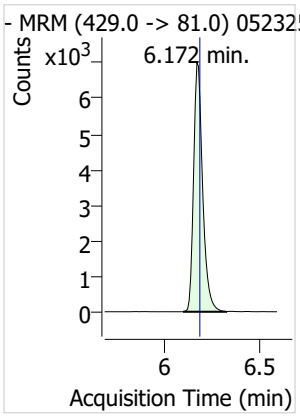
13C2-4:2FTS

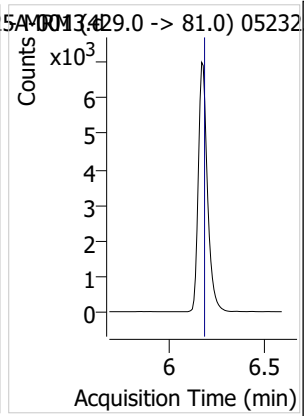


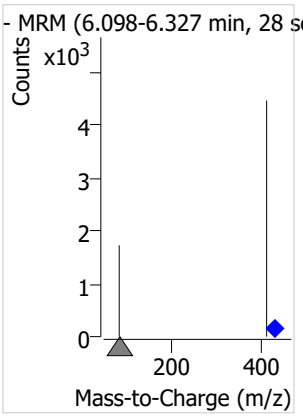




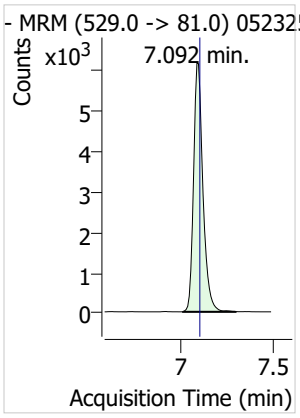
13C2-6:2FTS

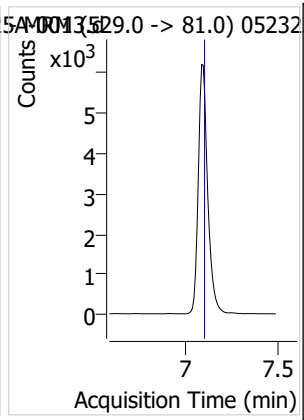


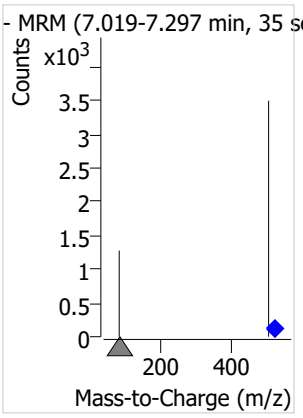




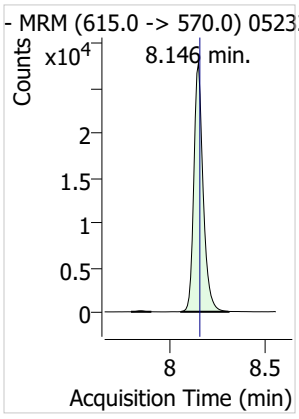
13C2-8:2FTS

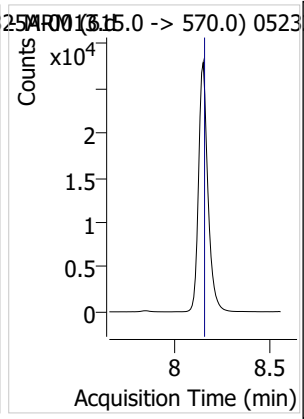


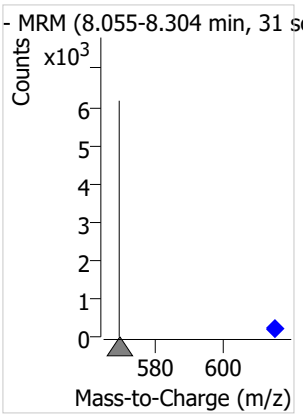




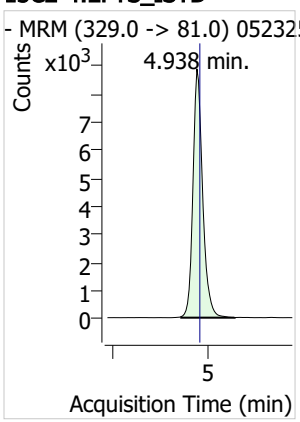
13C2-PFDoA

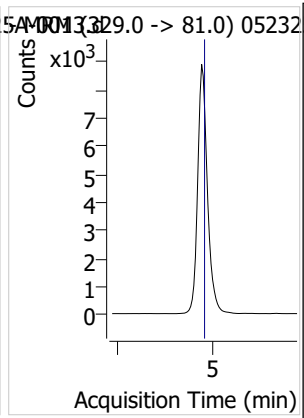


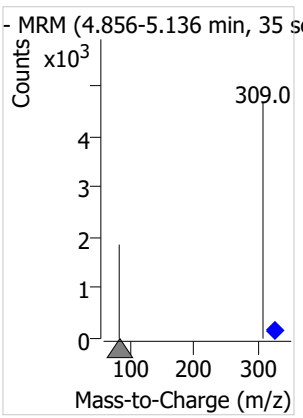




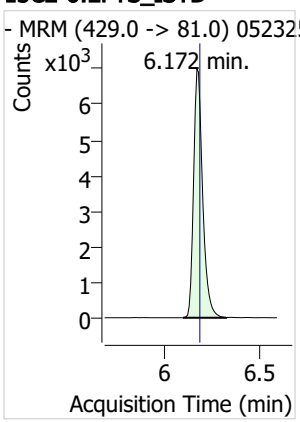
13C2-4:2FTS_ISTD

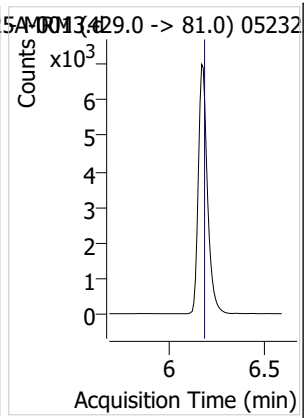


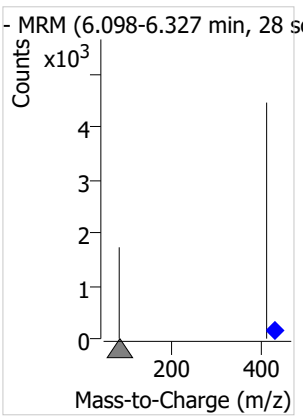




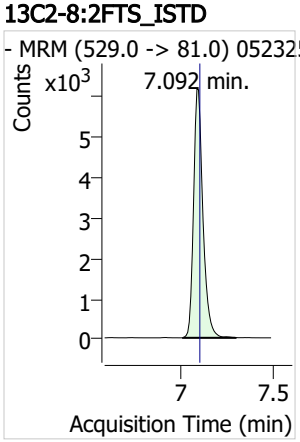
13C2-6:2FTS_ISTD

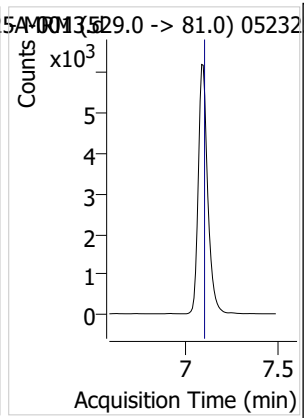


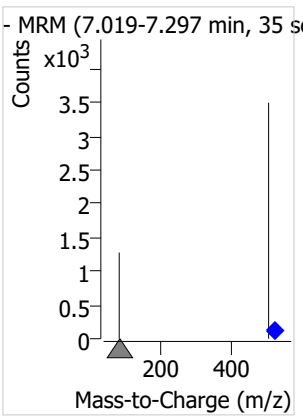




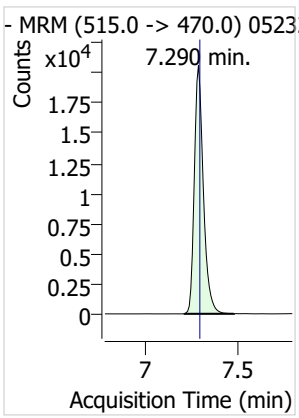
13C2-8:2FTS_ISTD

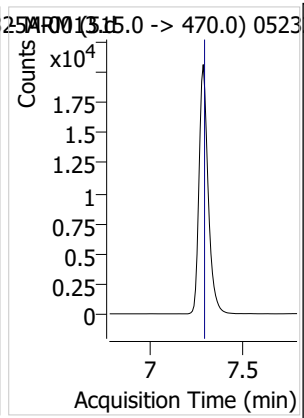


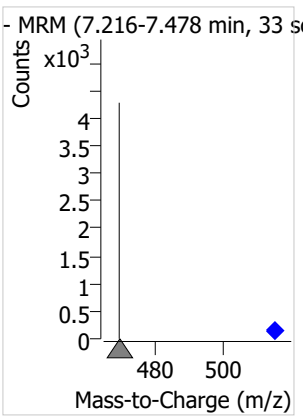




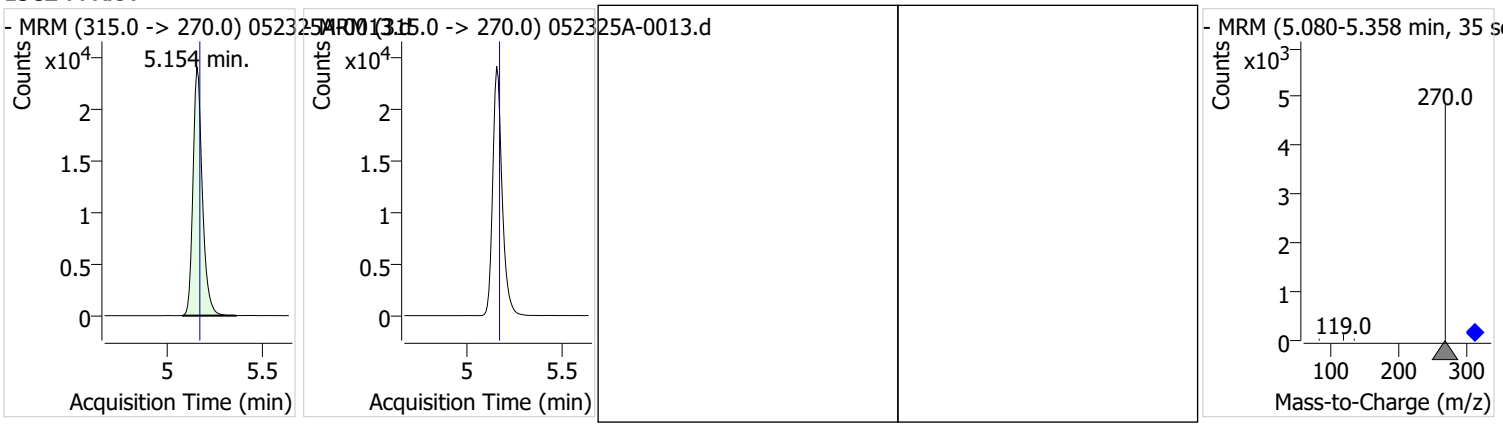
13C2-PFDA



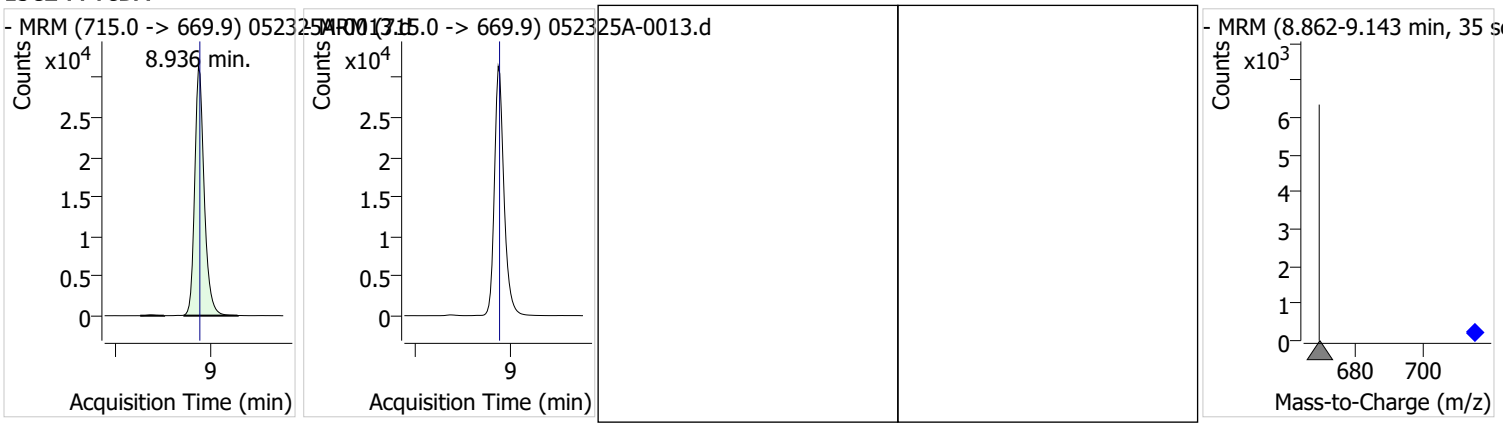




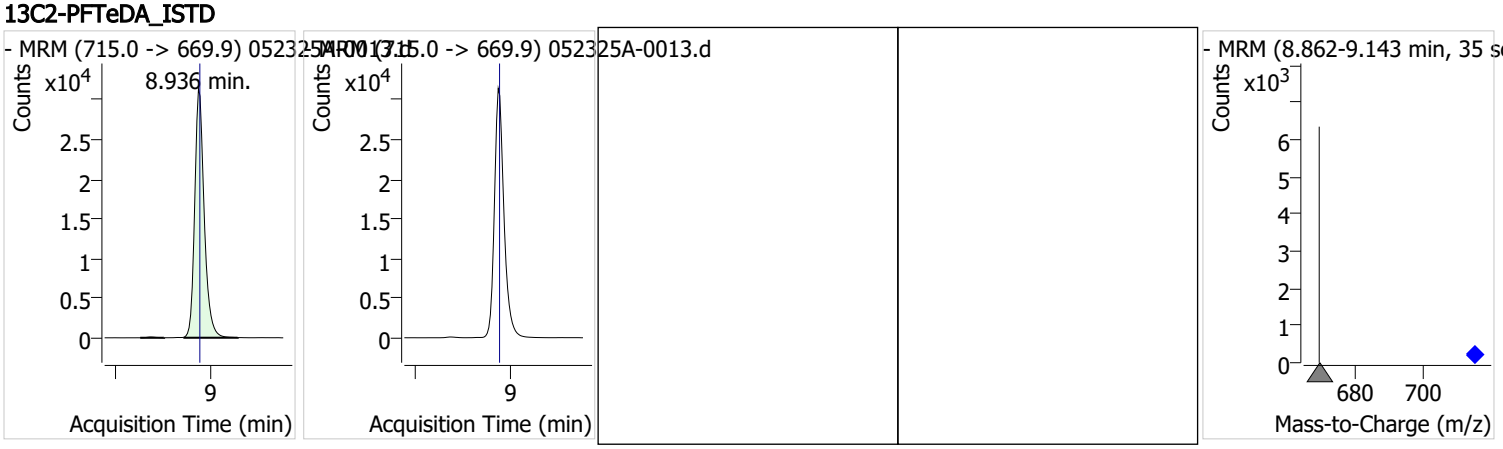
13C2-PFHxA



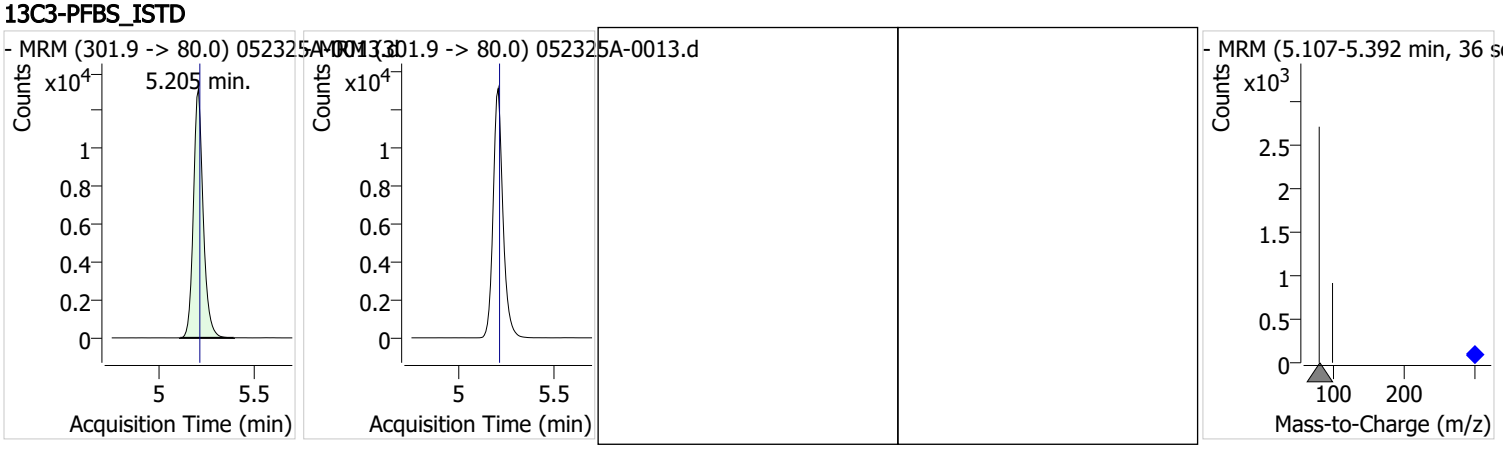
13C2-PFTeDA



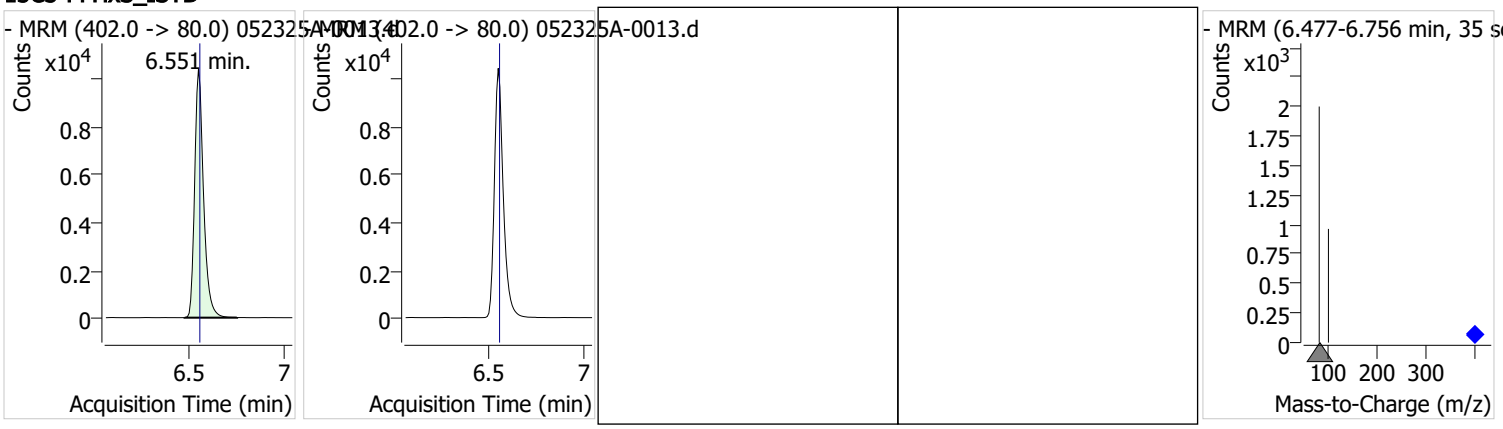
13C2-PFTeDA_ISTD



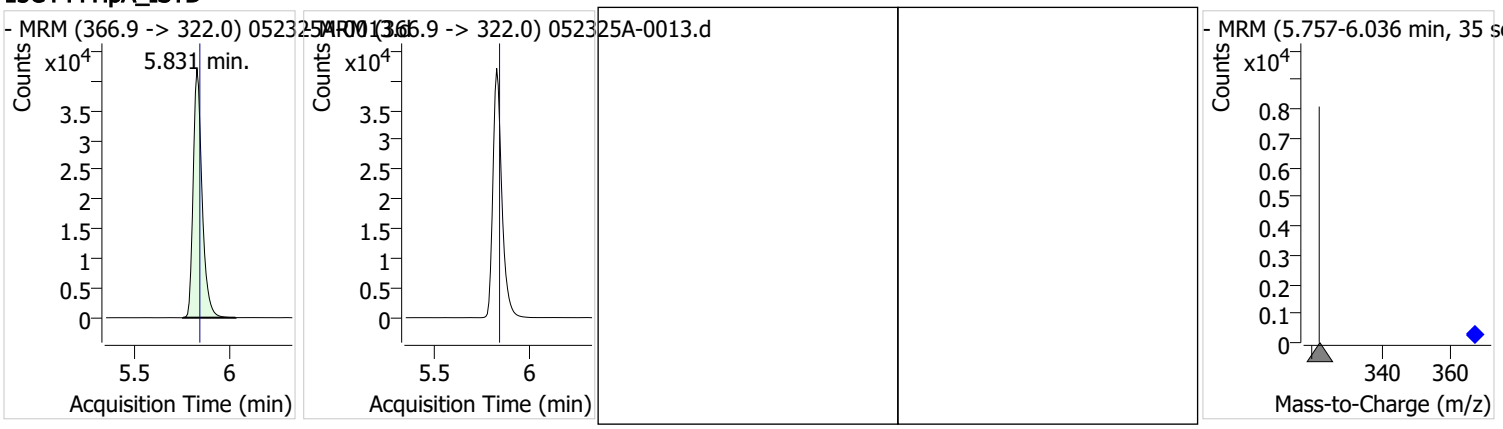
13C3-PFBS_ISTD



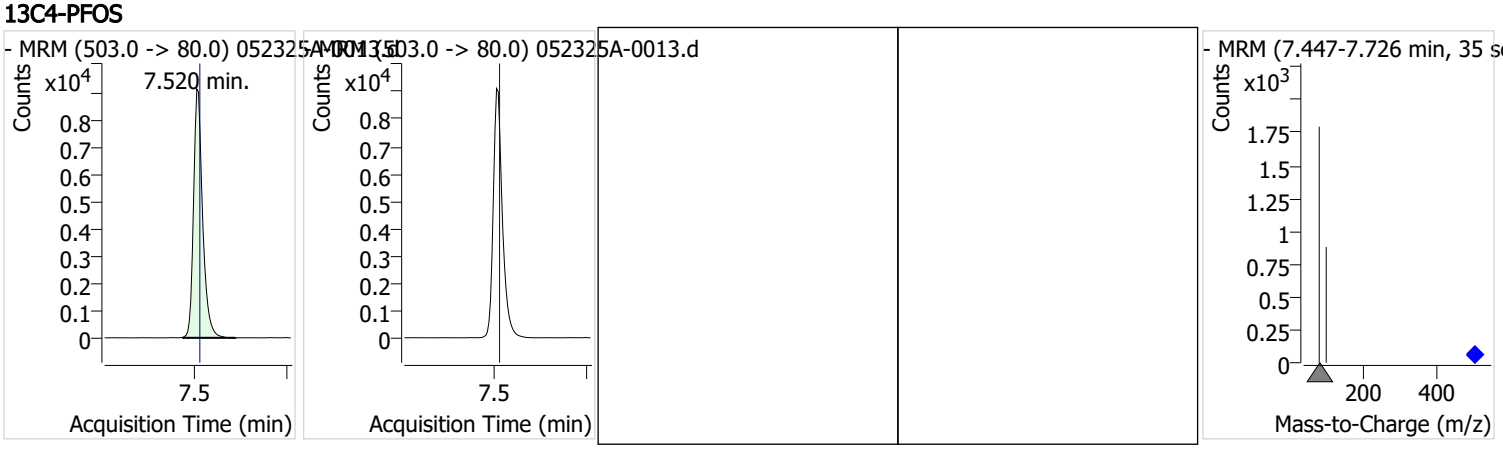
13C3-PFHxS_ISTD



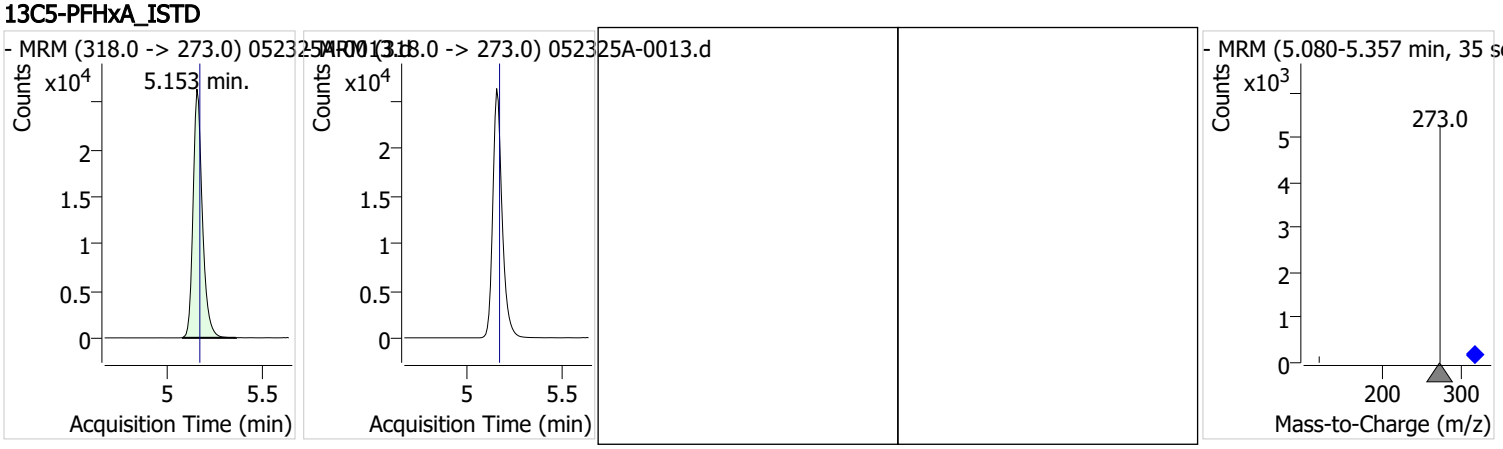
13C4-PFHpA_ISTD



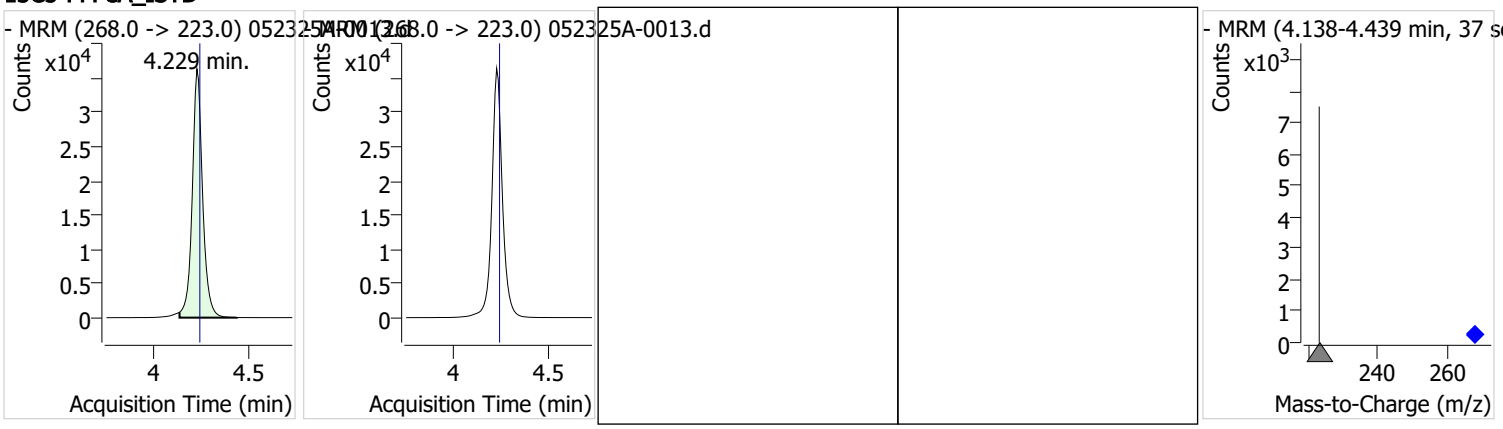
13C4-PFOS



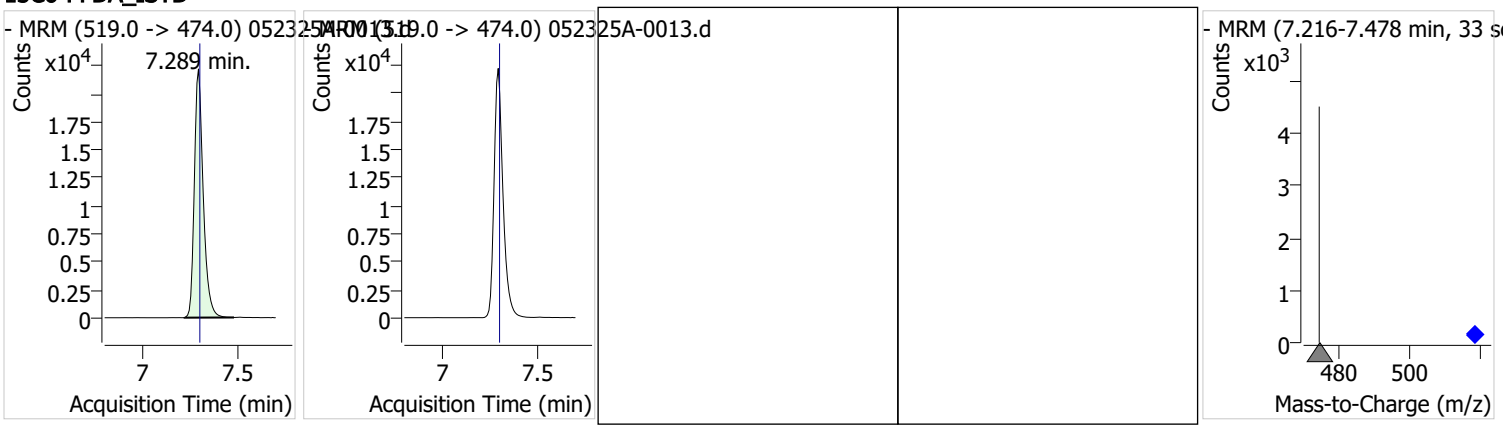
13C5-PFHxA_ISTD



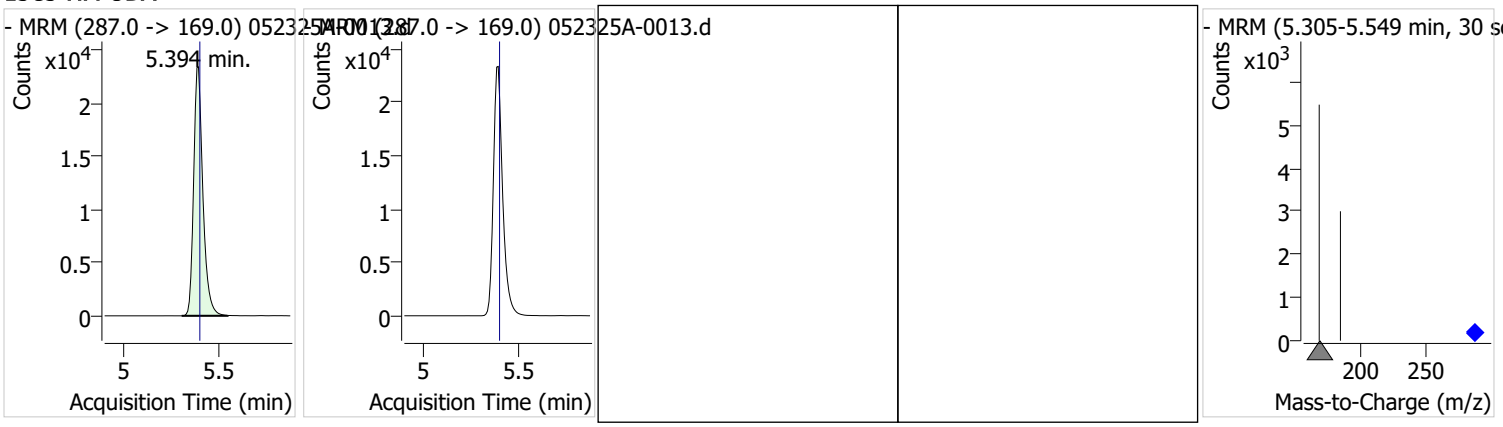
13C5-PFPeA_ISTD



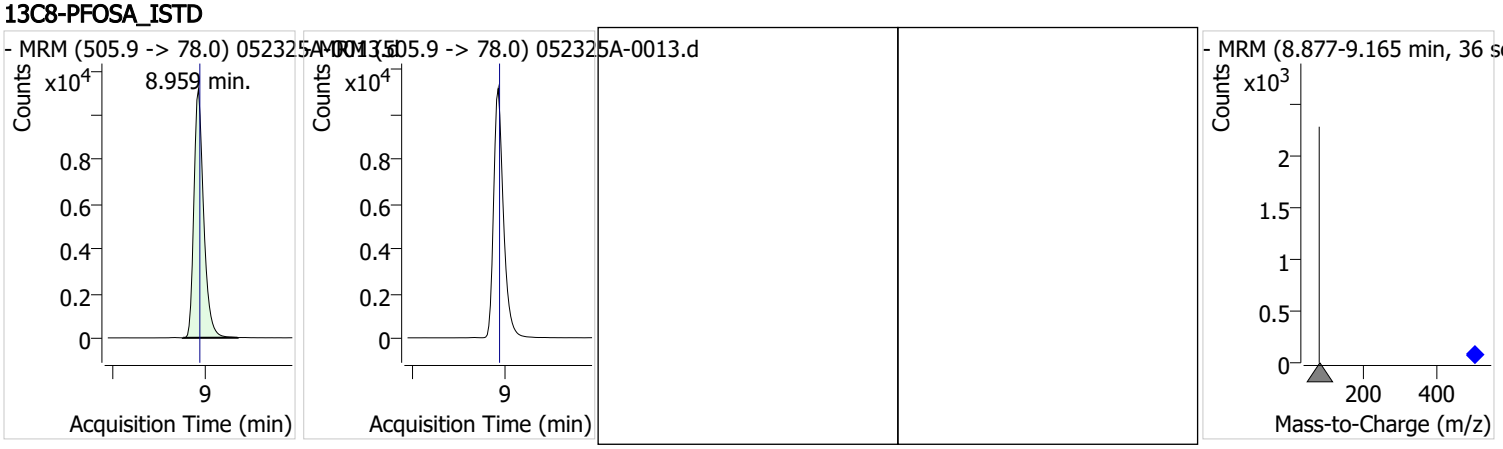
13C6-PFDA_ISTD



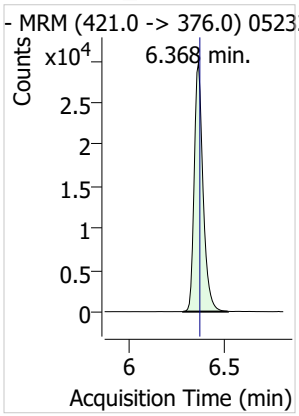
13C3-HFPODA

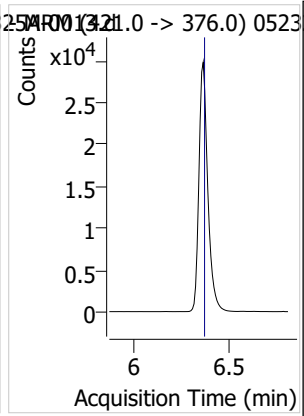


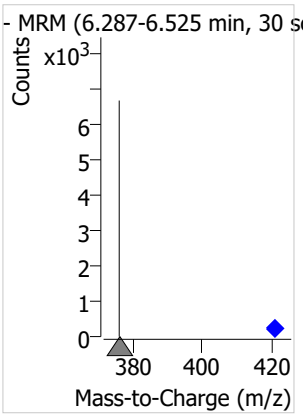
13C8-PFOSA_ISTD



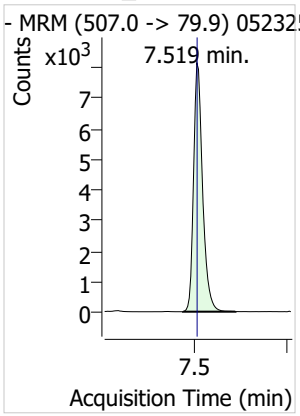
13C8-PFOA_ISTD

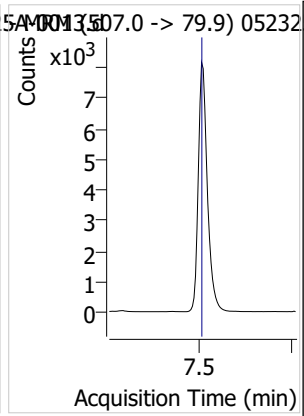


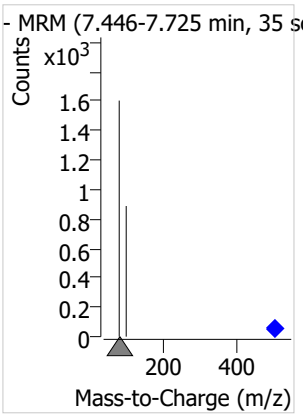




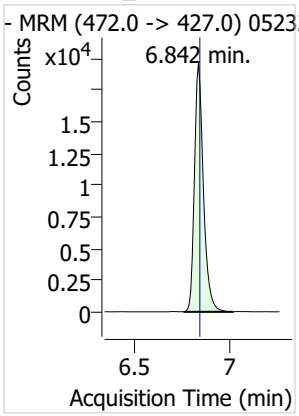
13C8-PFOS_ISTD

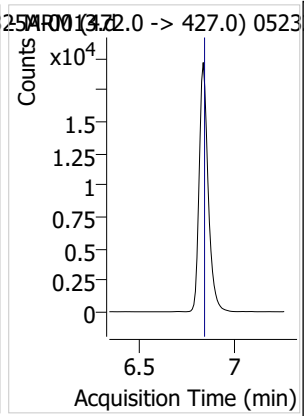


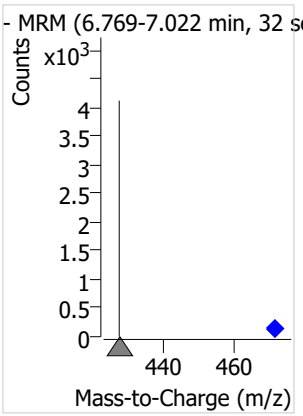




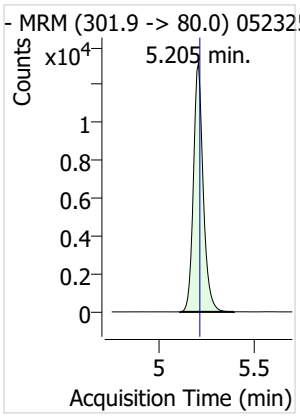
13C9-PFNA_ISTD

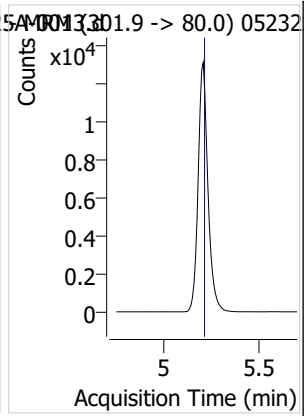


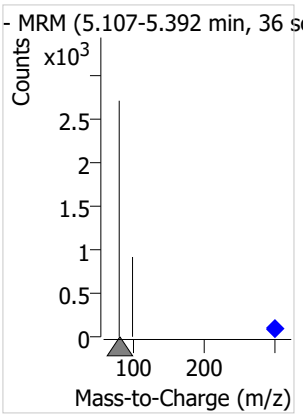




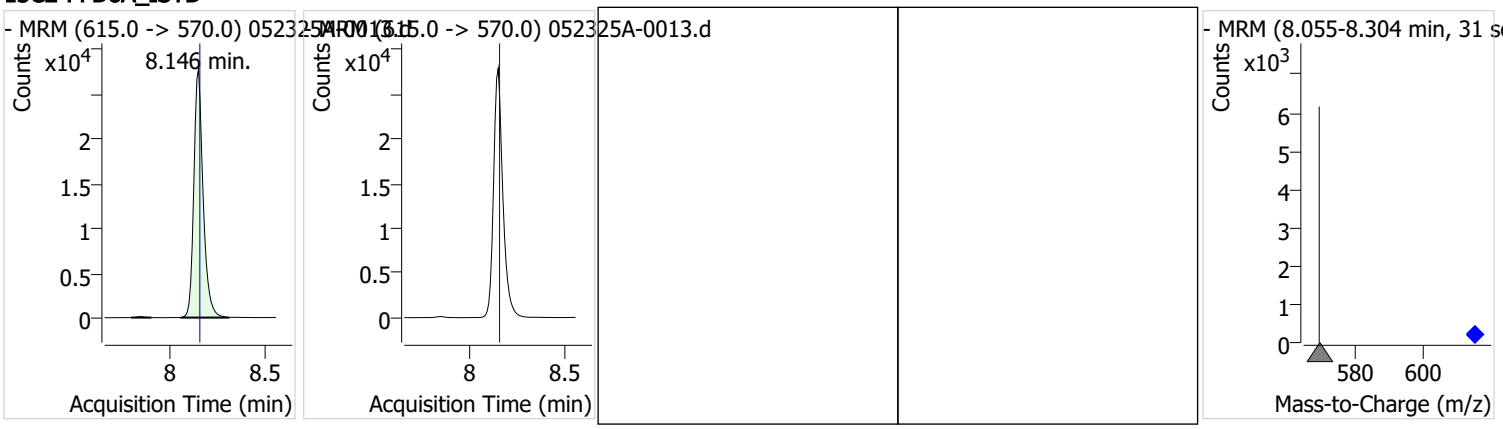
13C3-PFBS



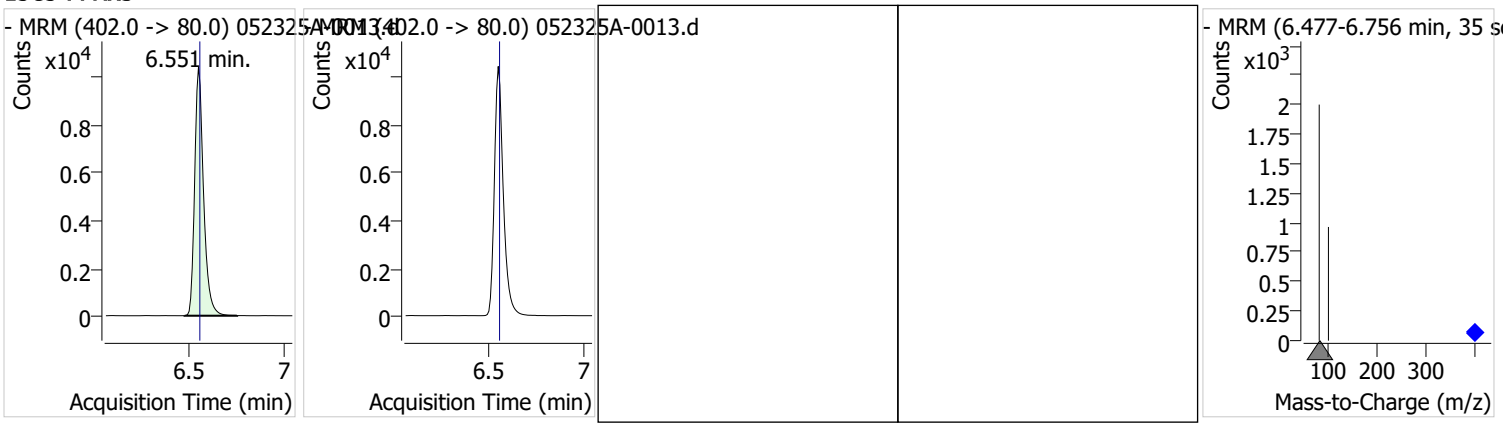




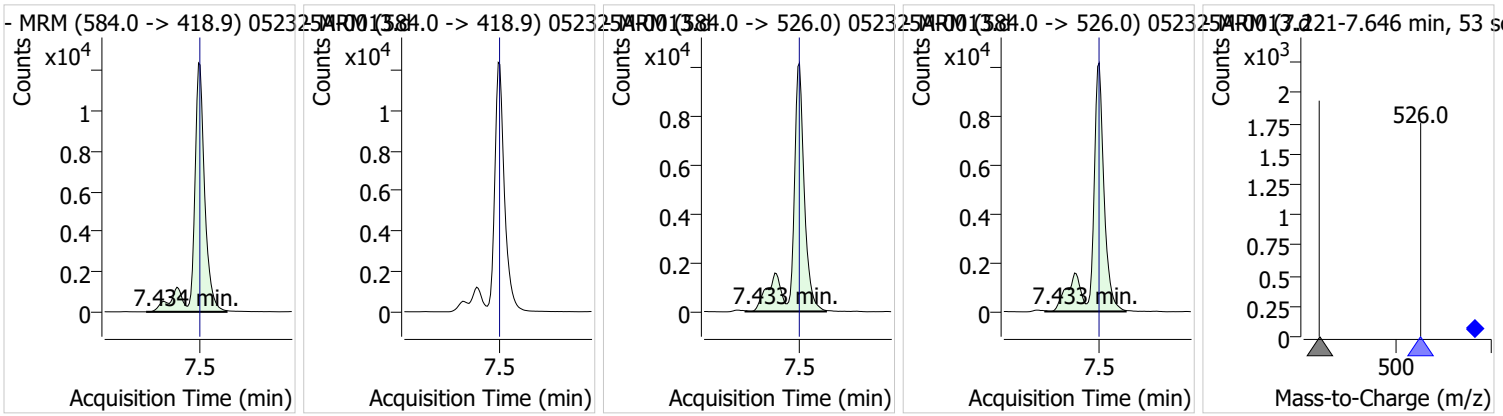
13C2-PFDoA_ISTD



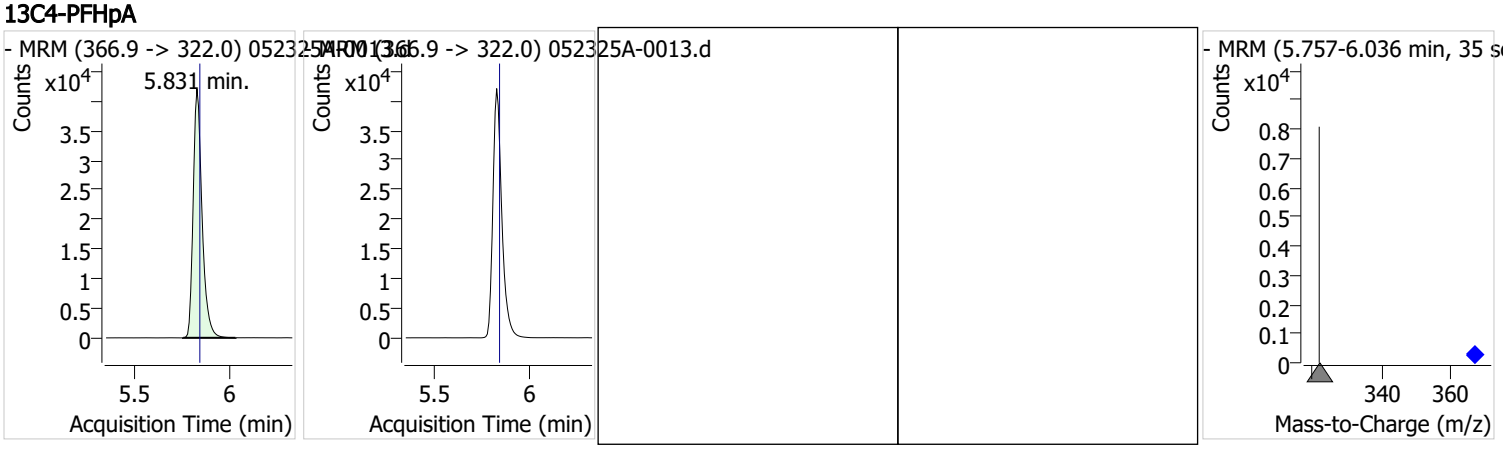
13C3-PFHxS



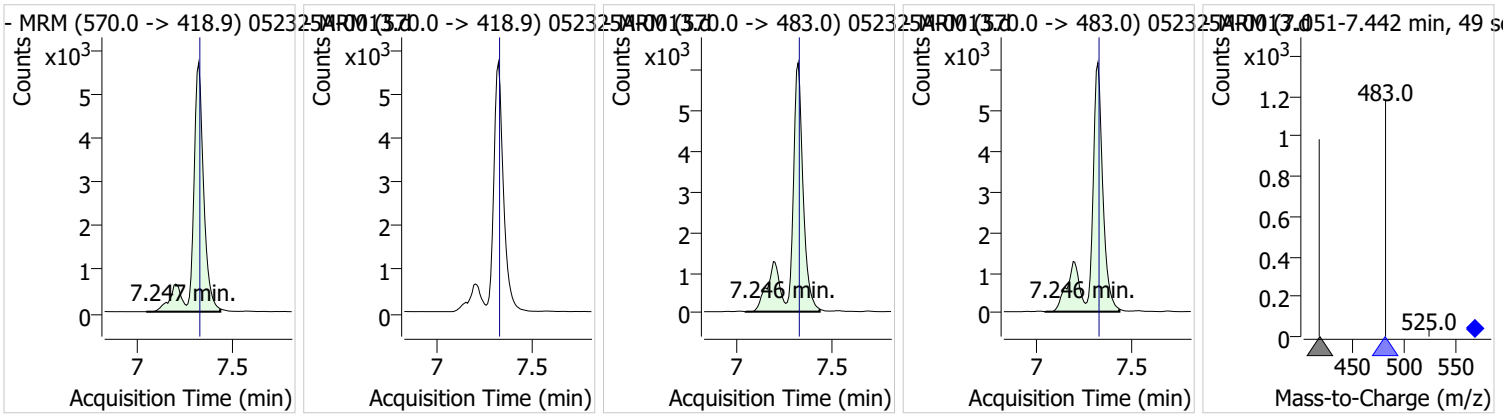
NEtFOSAA



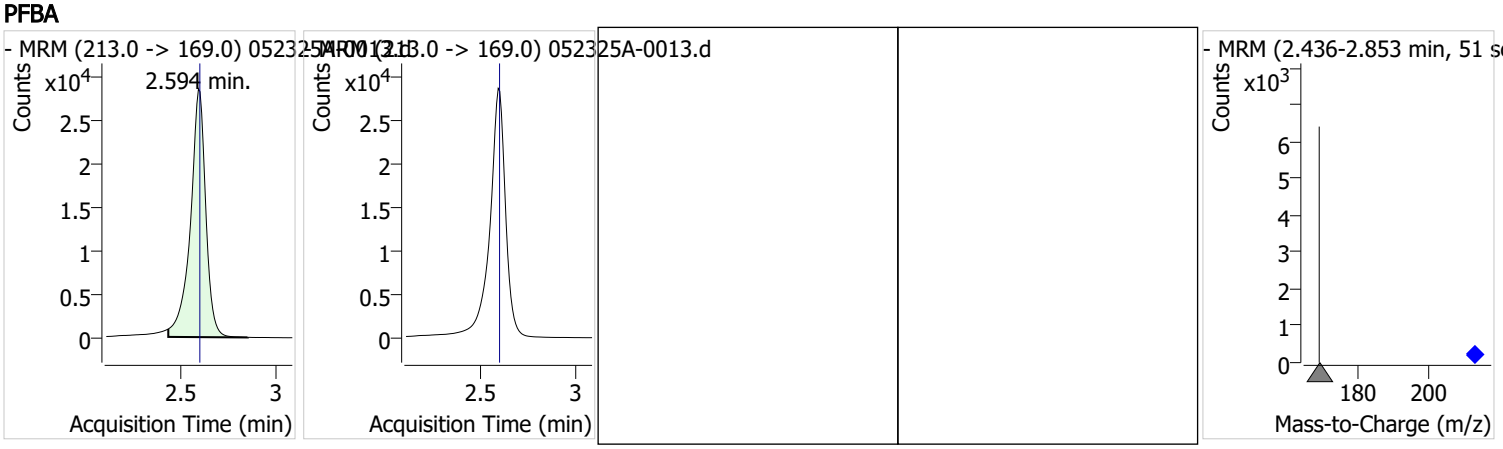
13C4-PFHpA



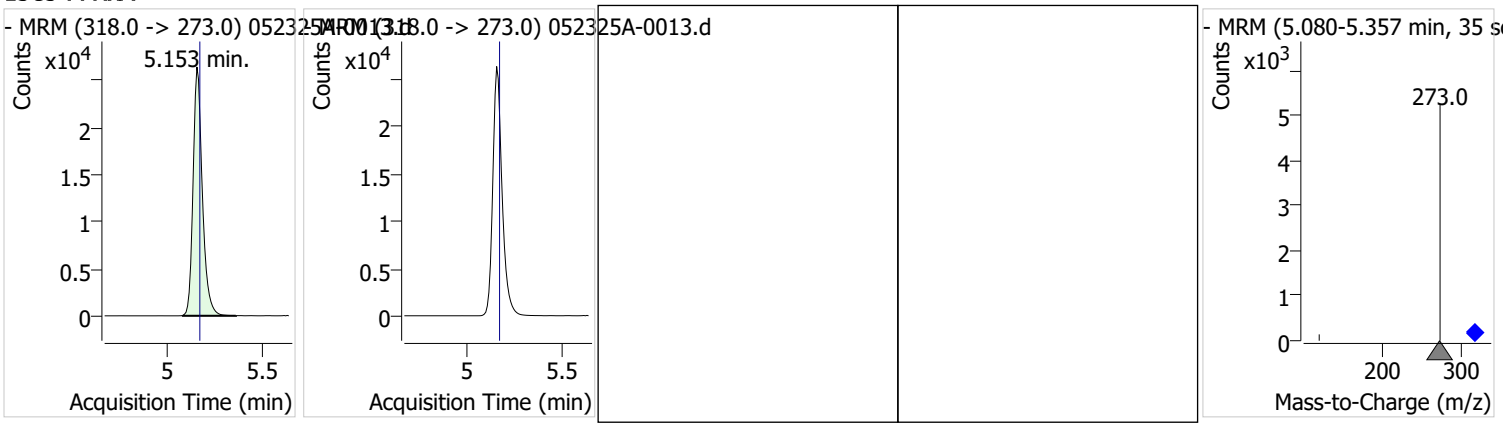
NMeFOSAA



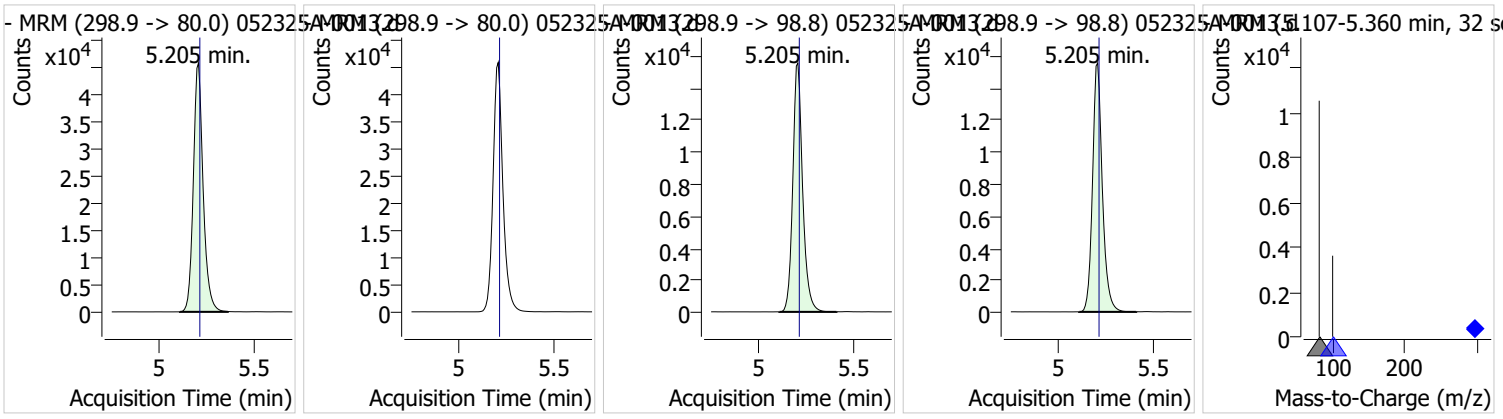
PFBA



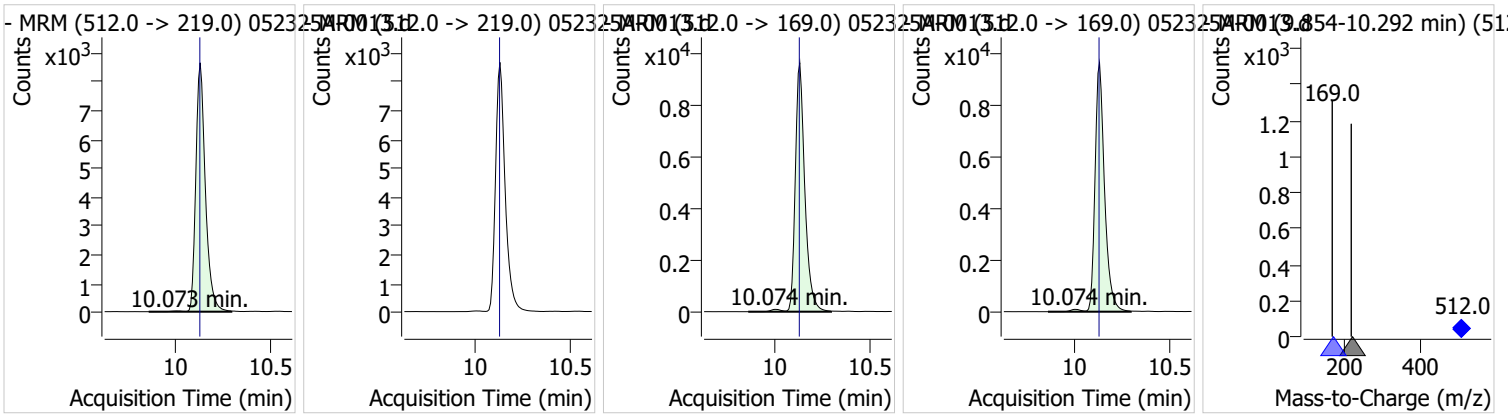
13C5-PFHxA



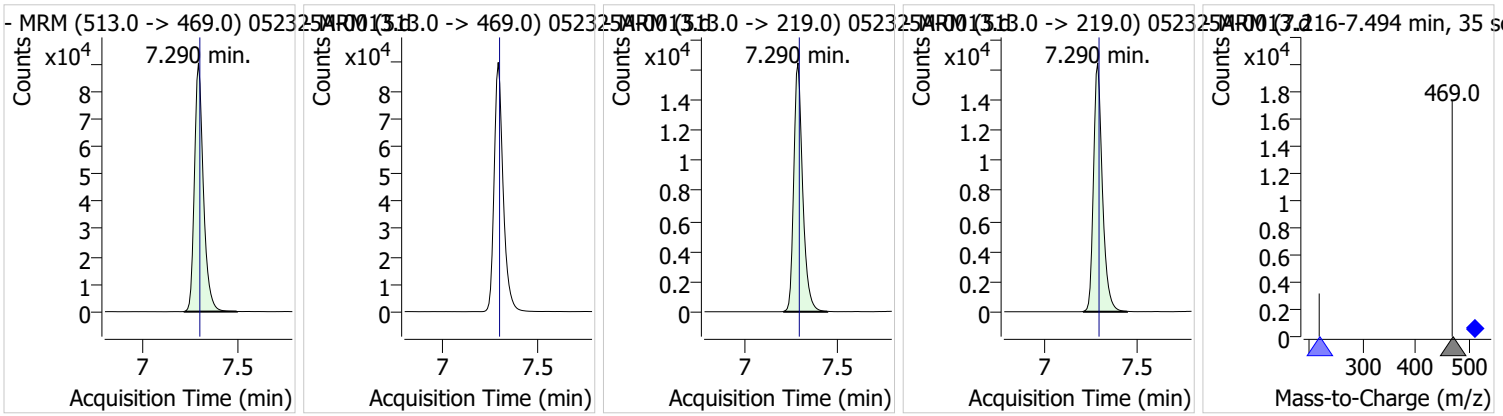
PFBS



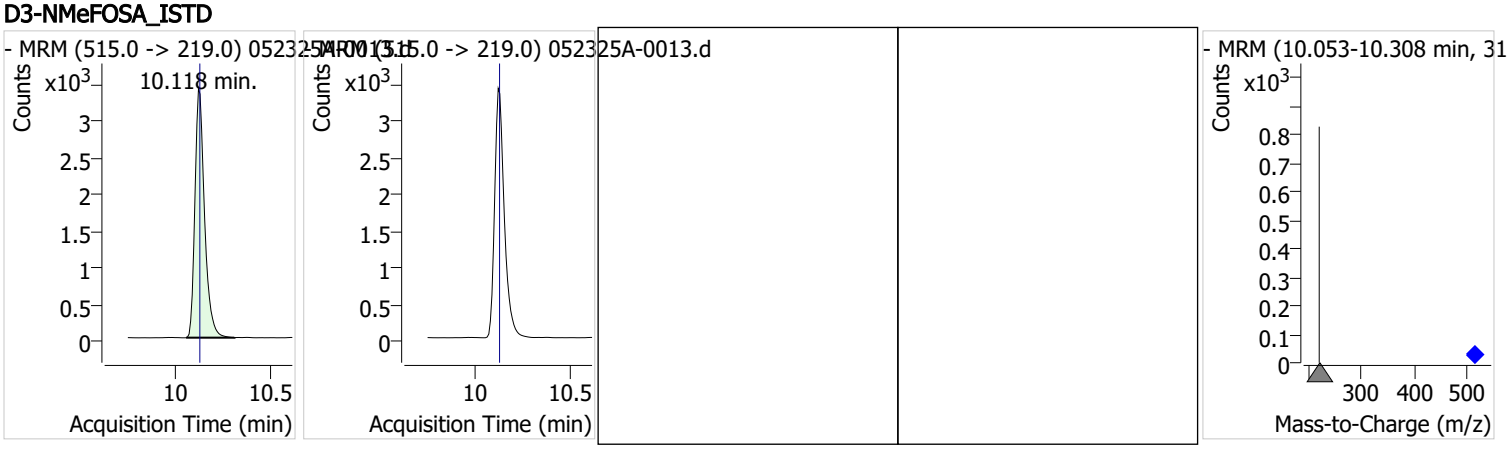
NMeFOSA



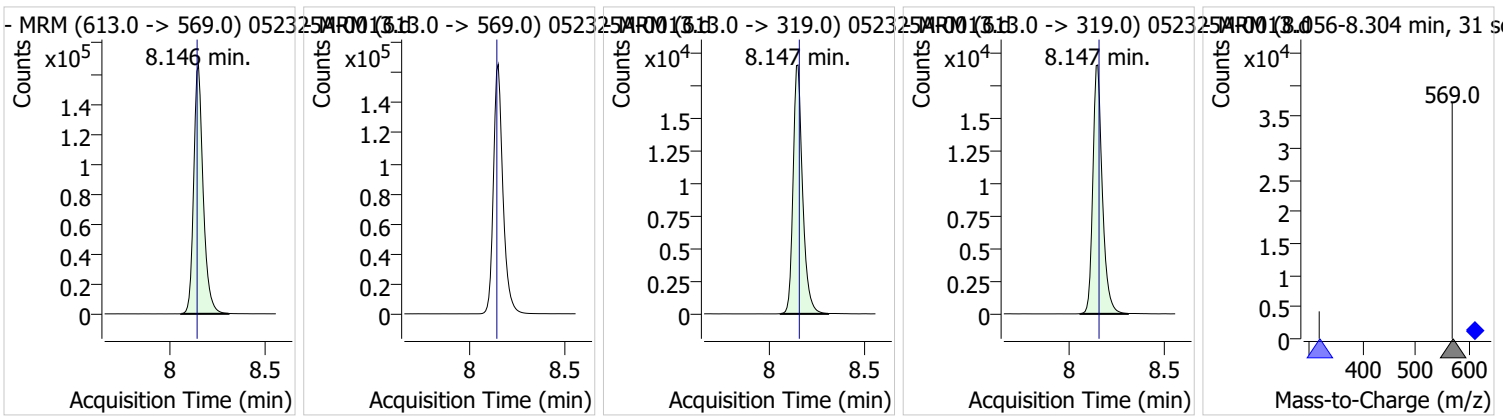
PFDA



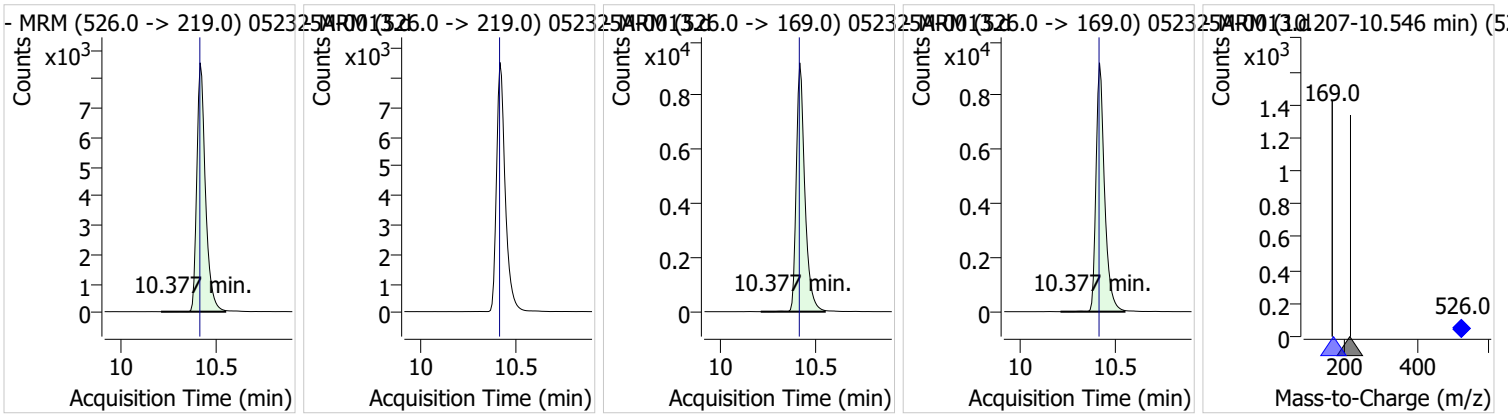
D3-NMeFOSA_ISTD



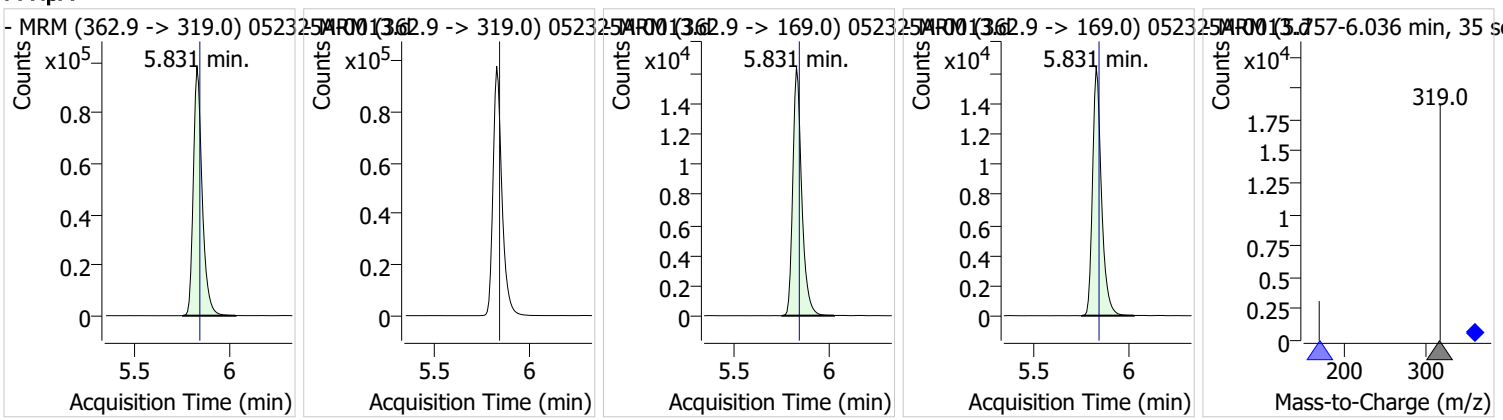
PFDoA



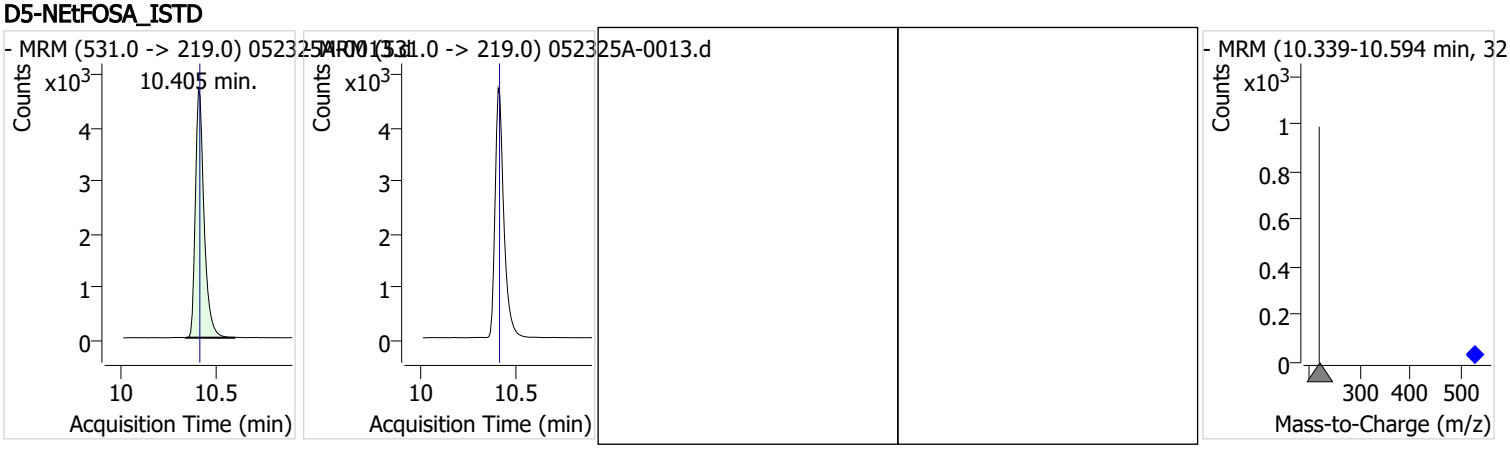
NEtFOSA



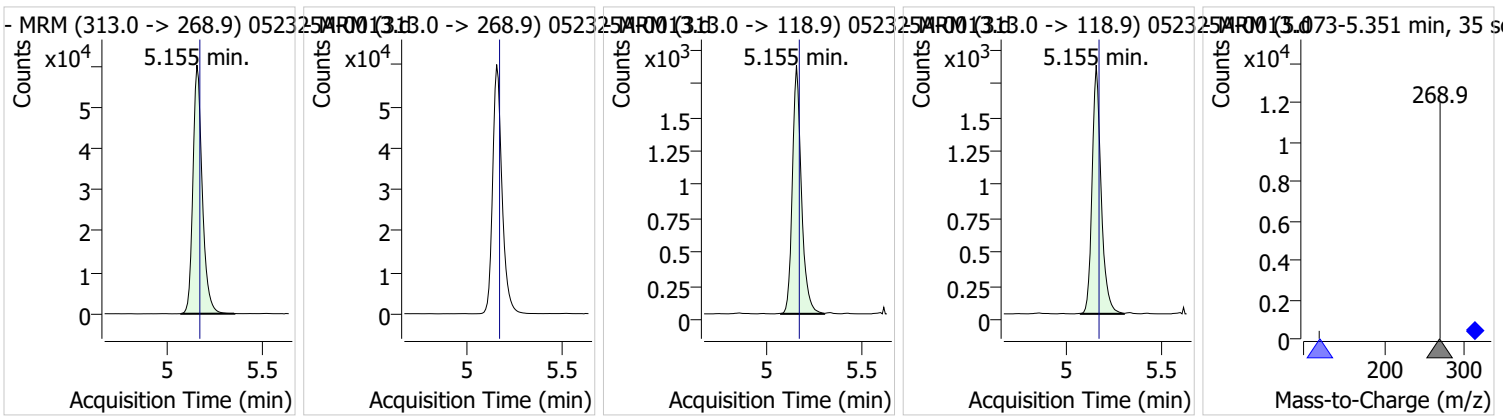
PFHpA



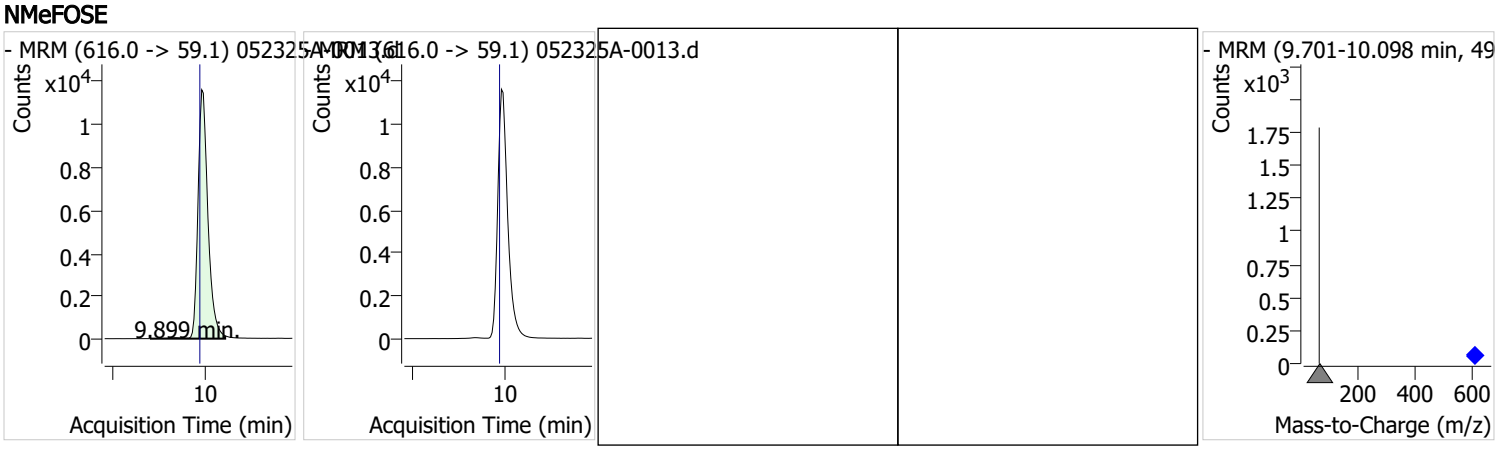
D5-NEtFOSA_ISTD



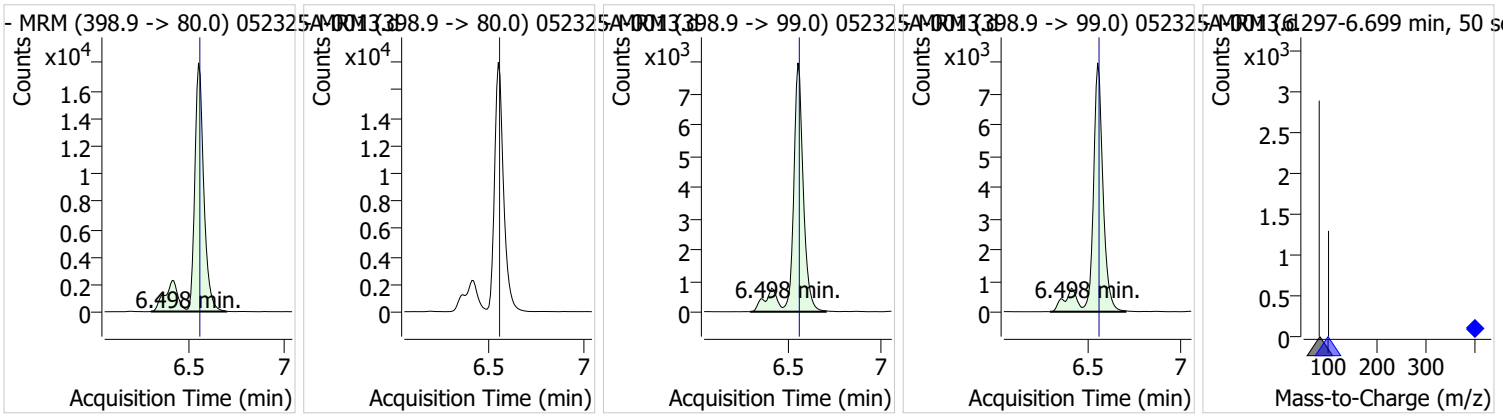
PFHxA



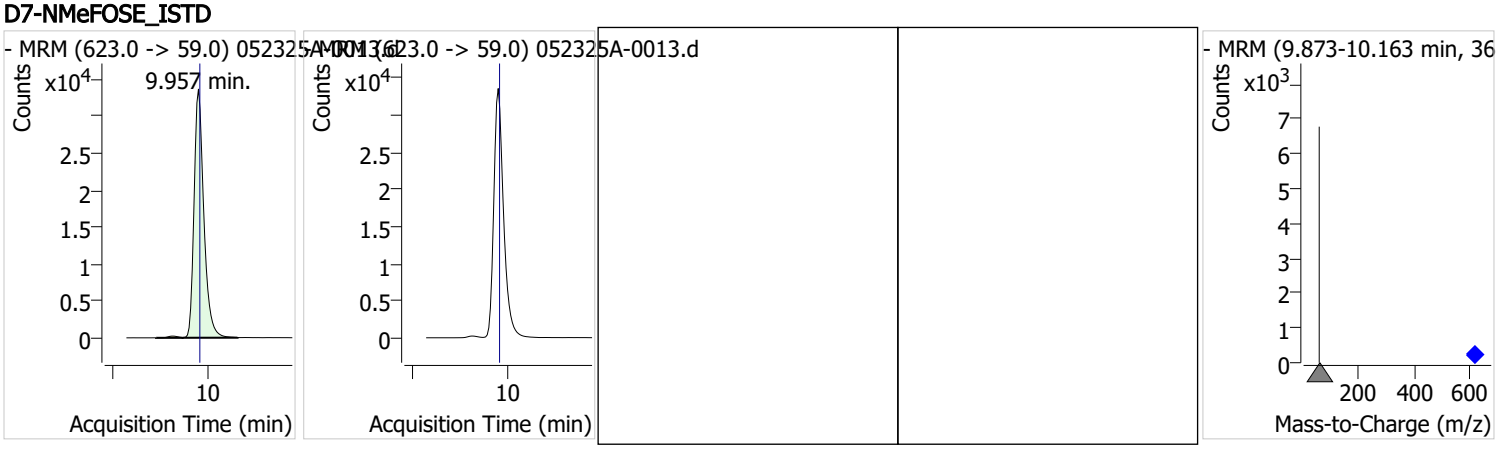
NMeFOSE



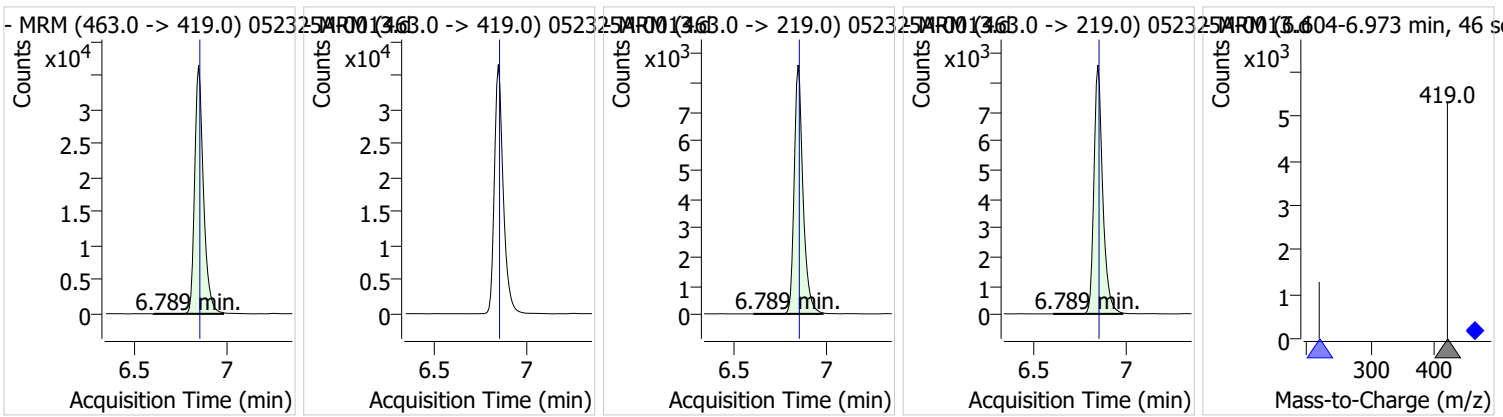
PFHxS



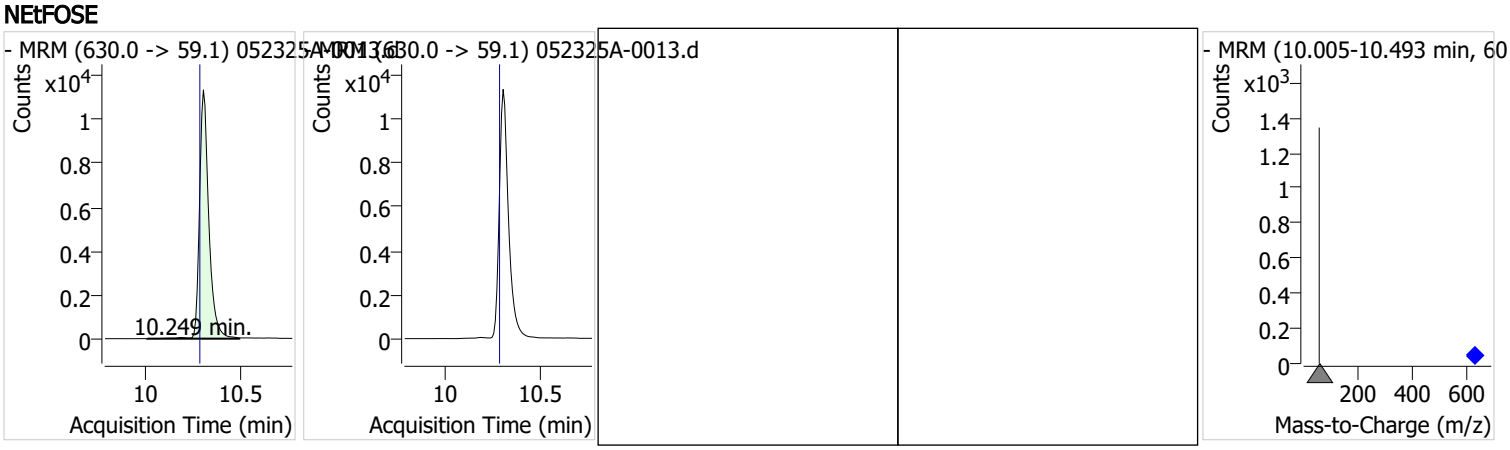
D7-NMeFOSE_ISTD



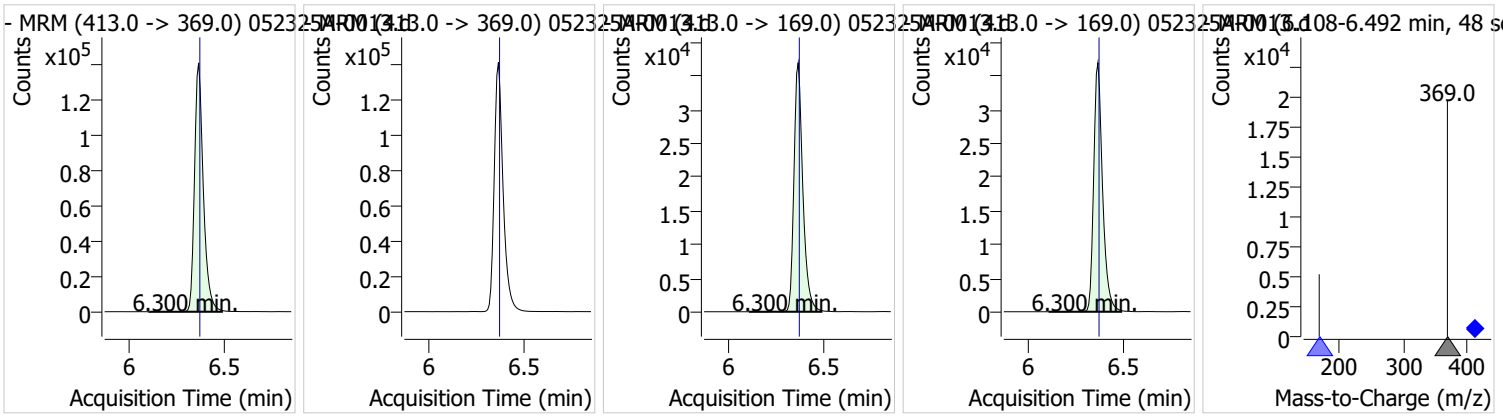
PFNA



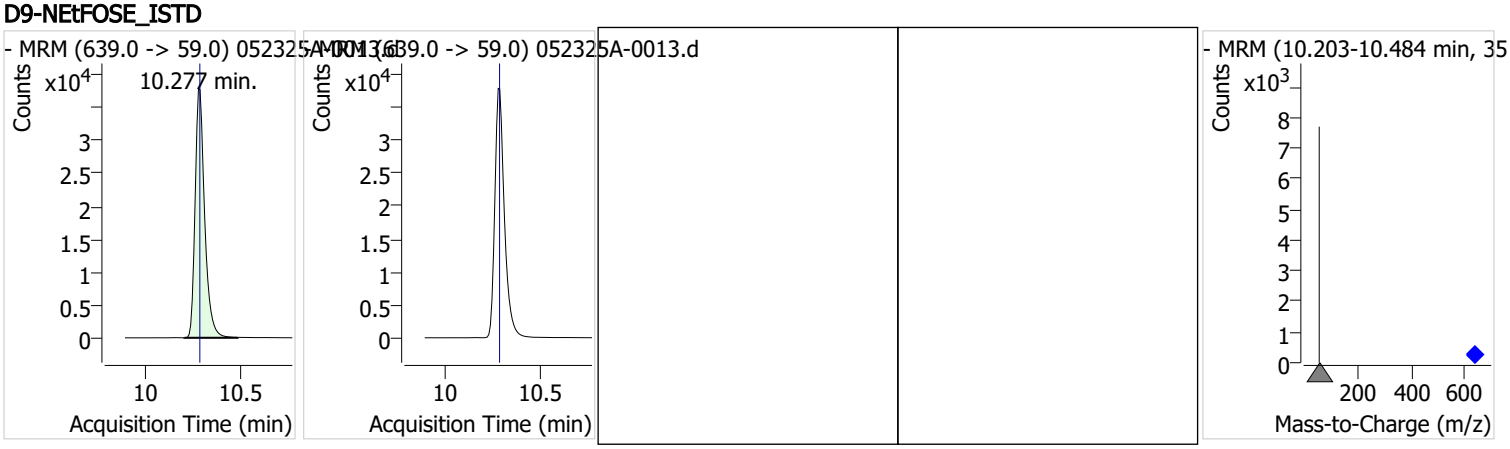
NEtFOSE



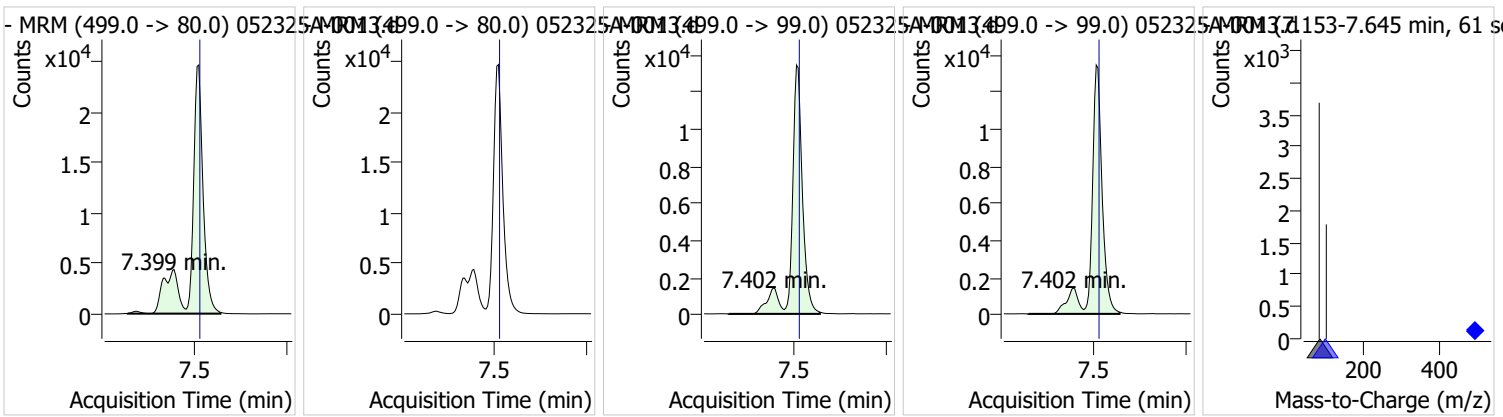
PFOA



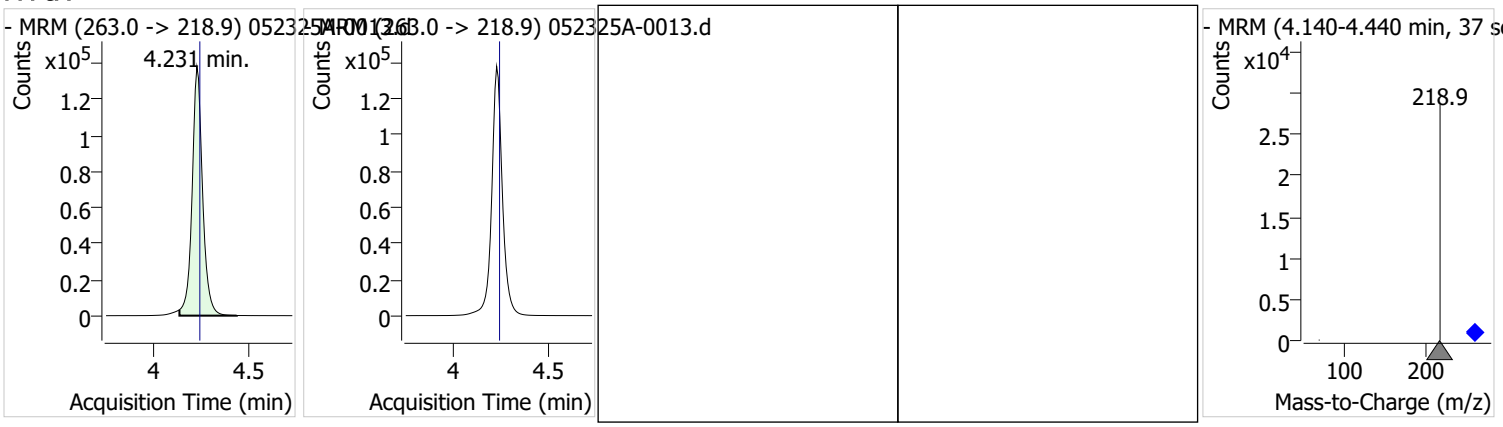
D9-NEtFOSE_ISTD



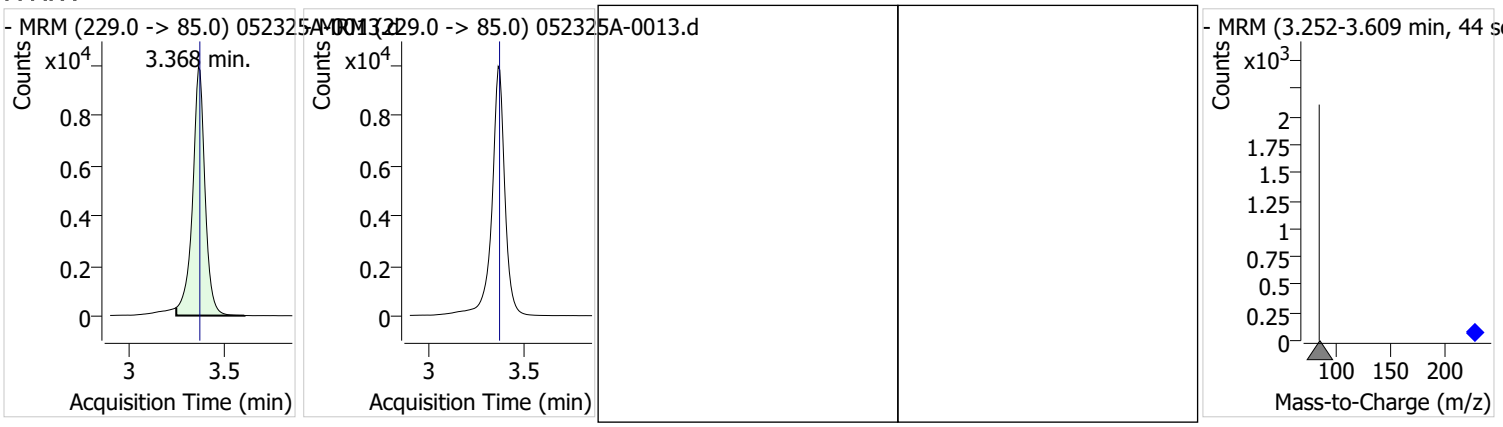
PFOS



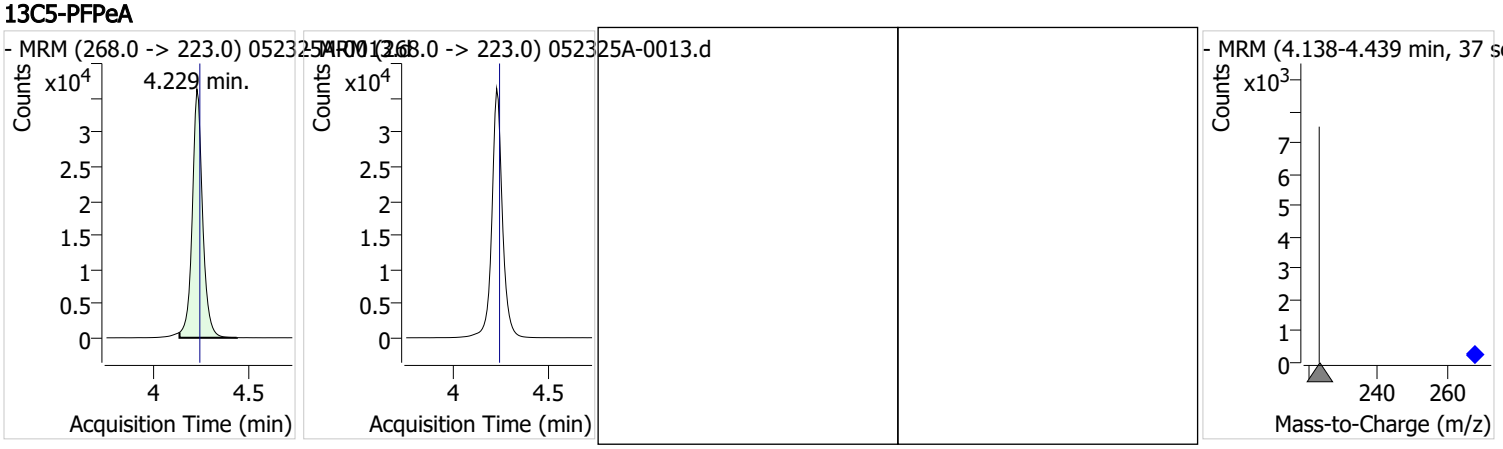
PFPeA



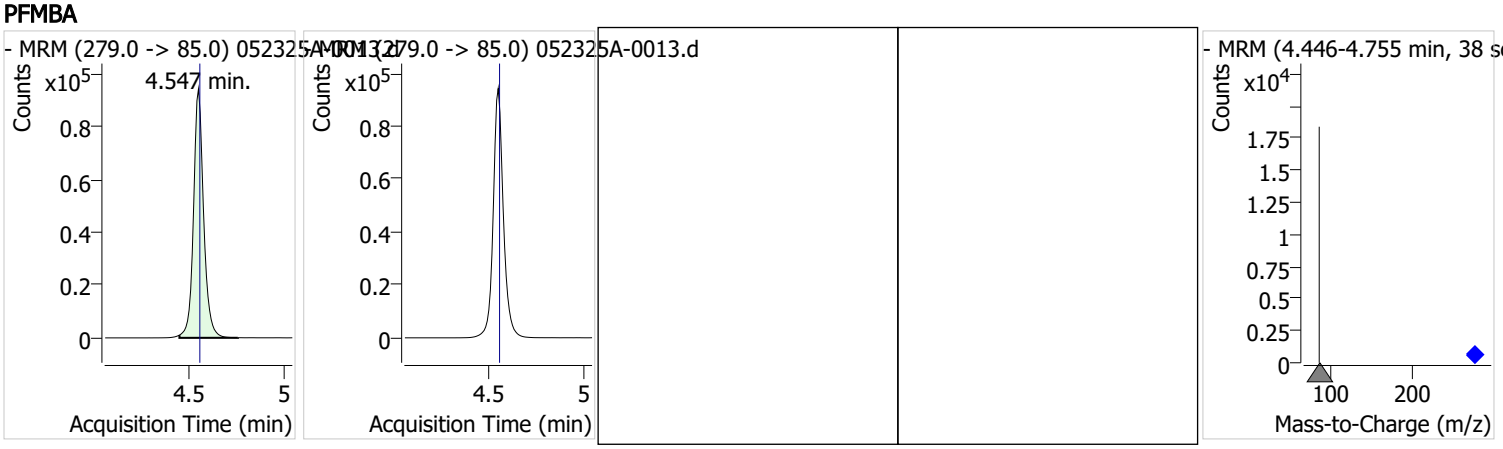
PFMPA



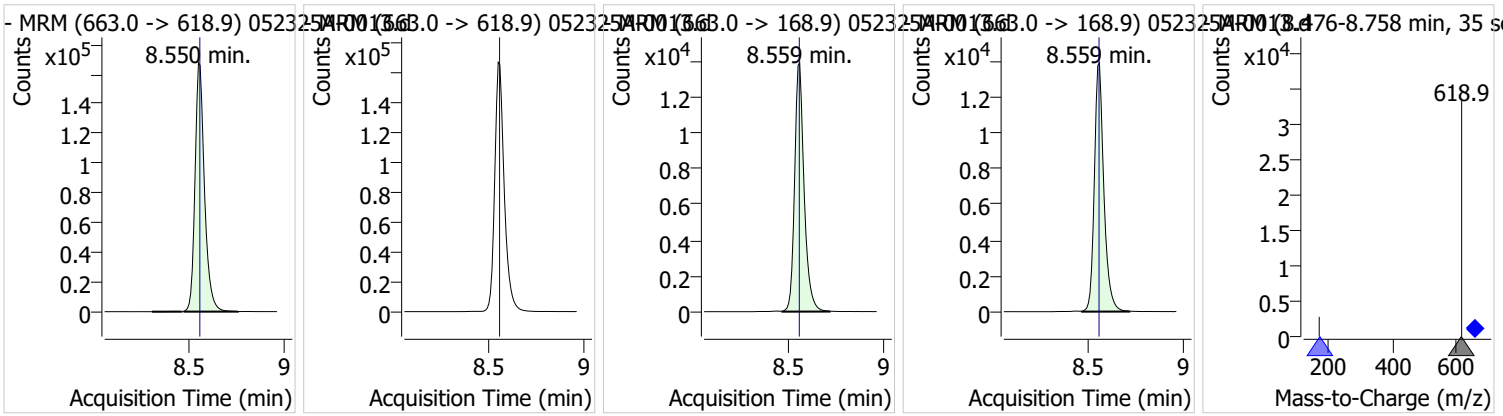
13C5-PFPeA



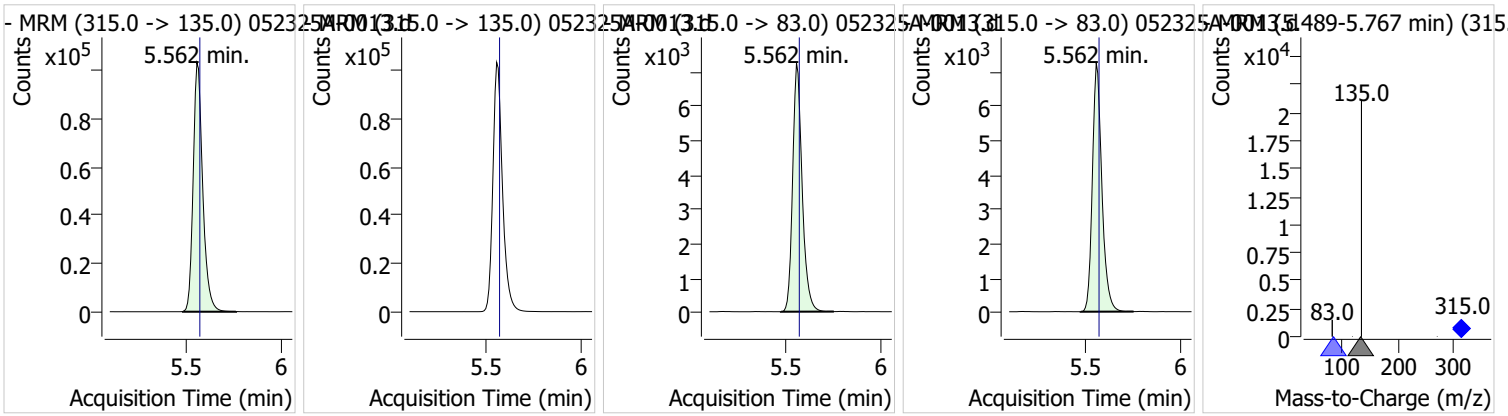
PFMBA



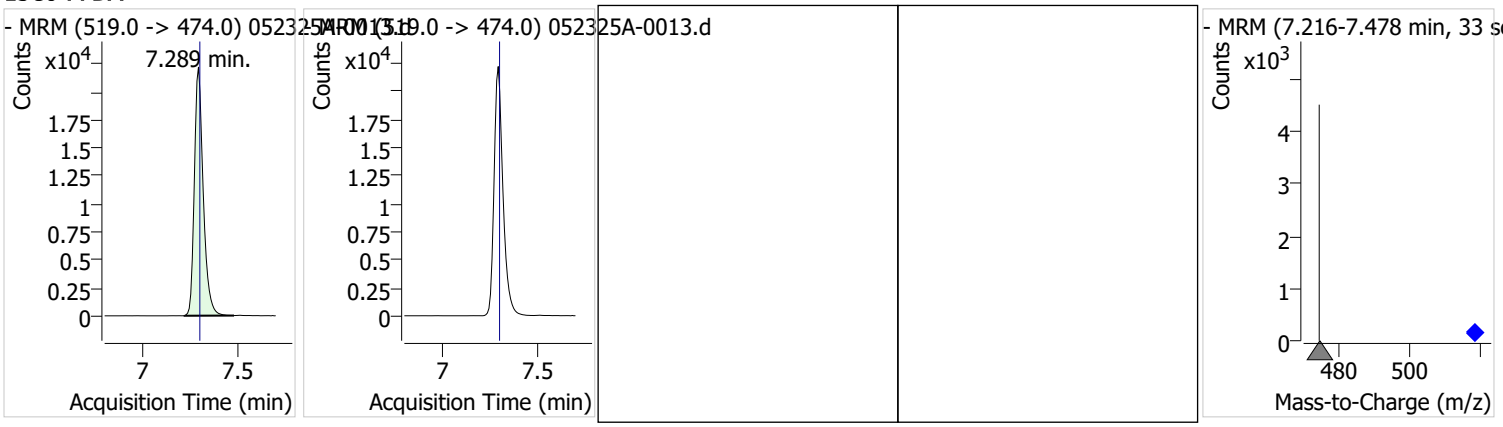
PFTrDA



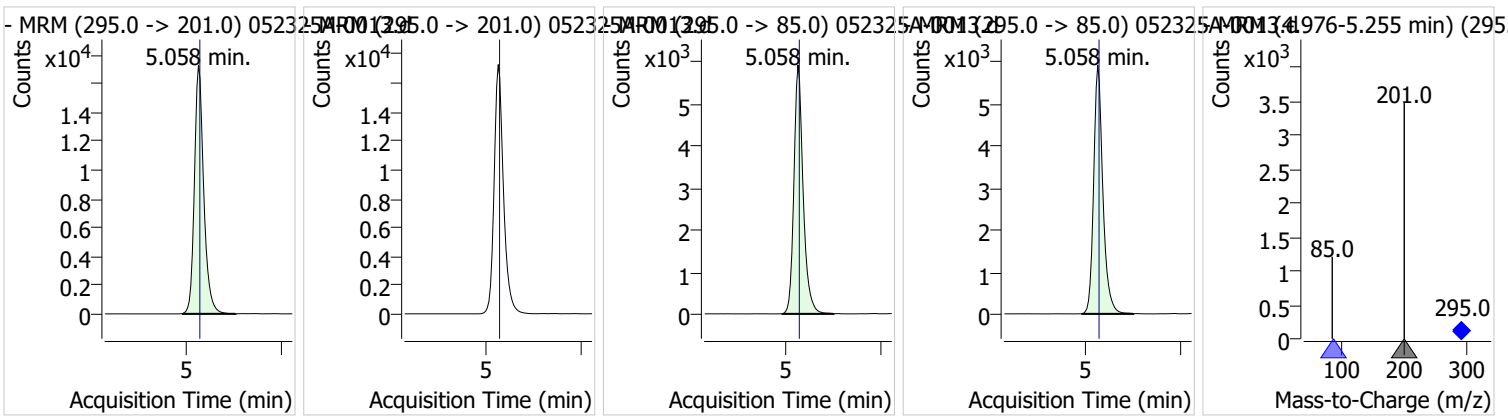
PFEESA



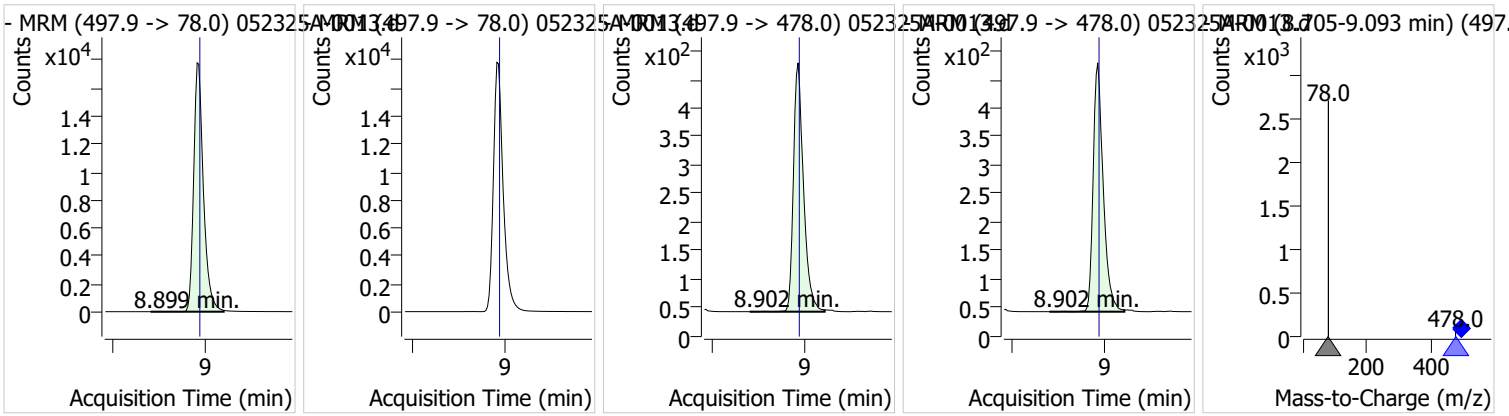
13C6-PFDA



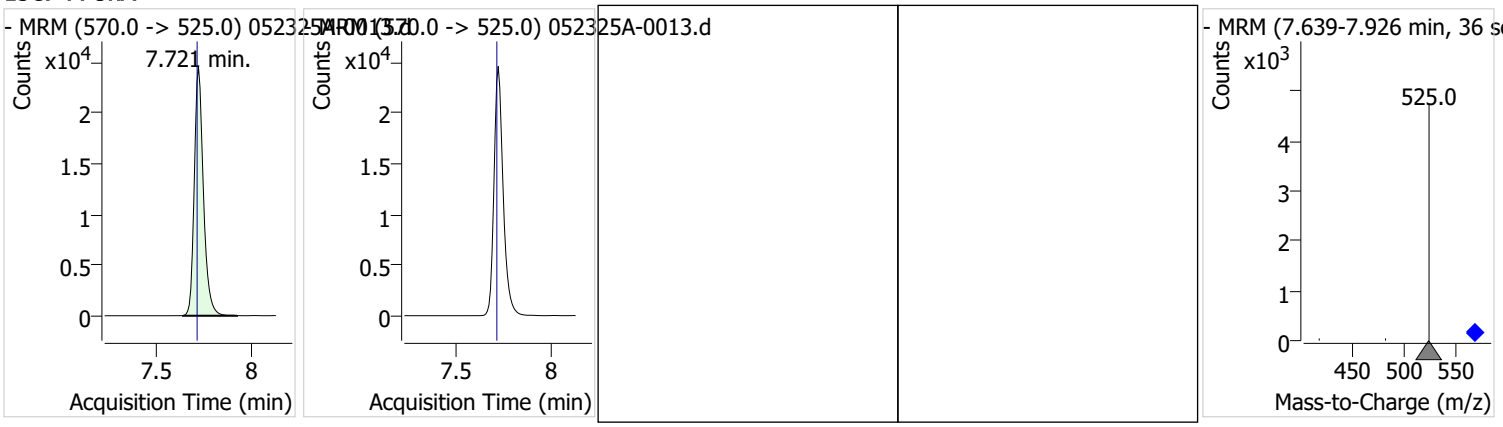
NFDHA



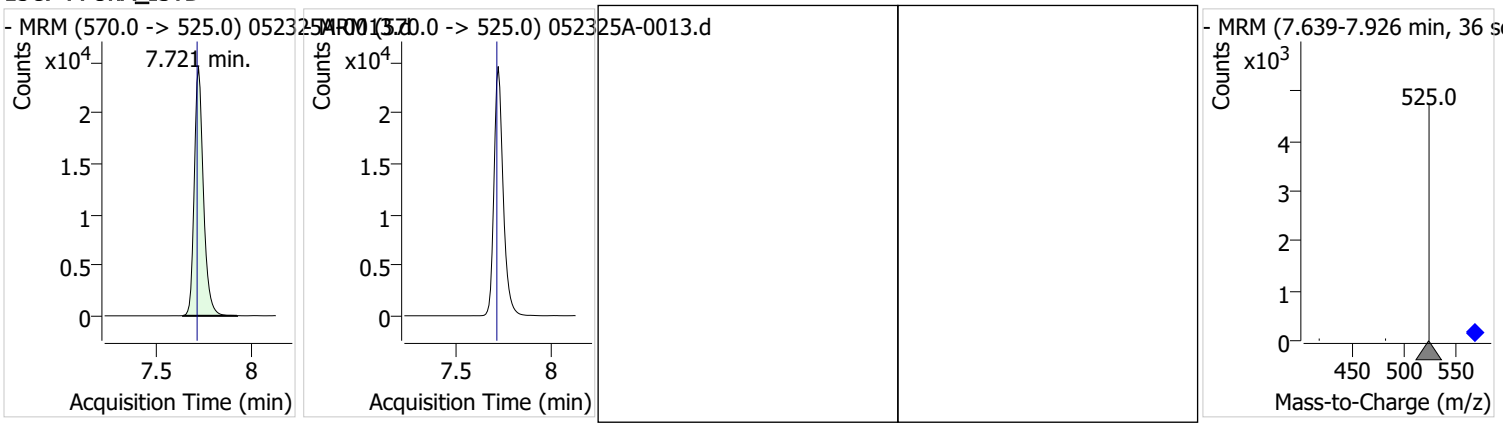
PFOSA



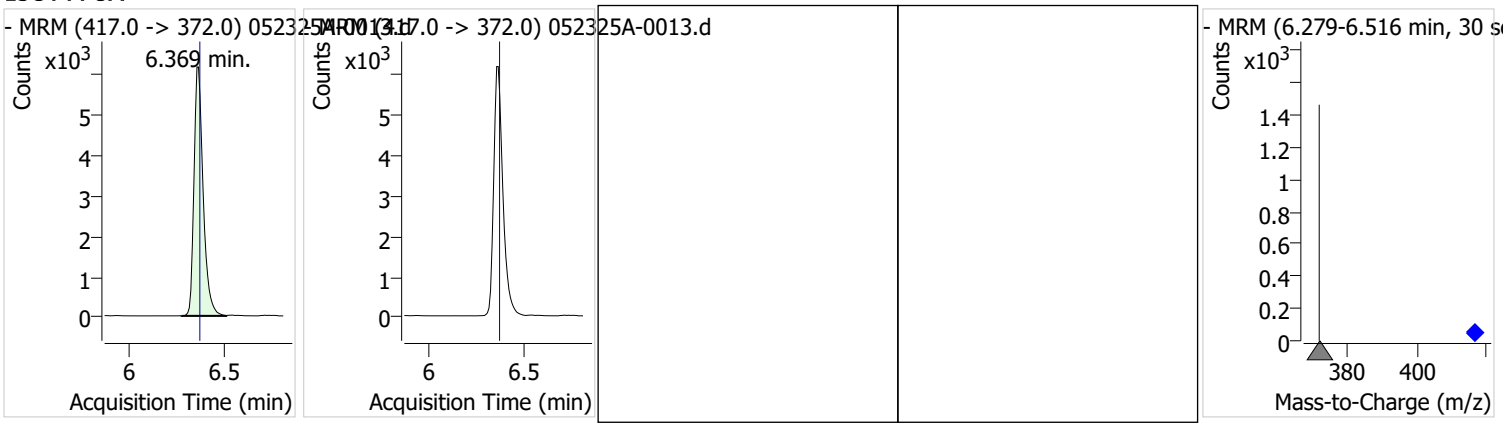
13C7-PFUnA



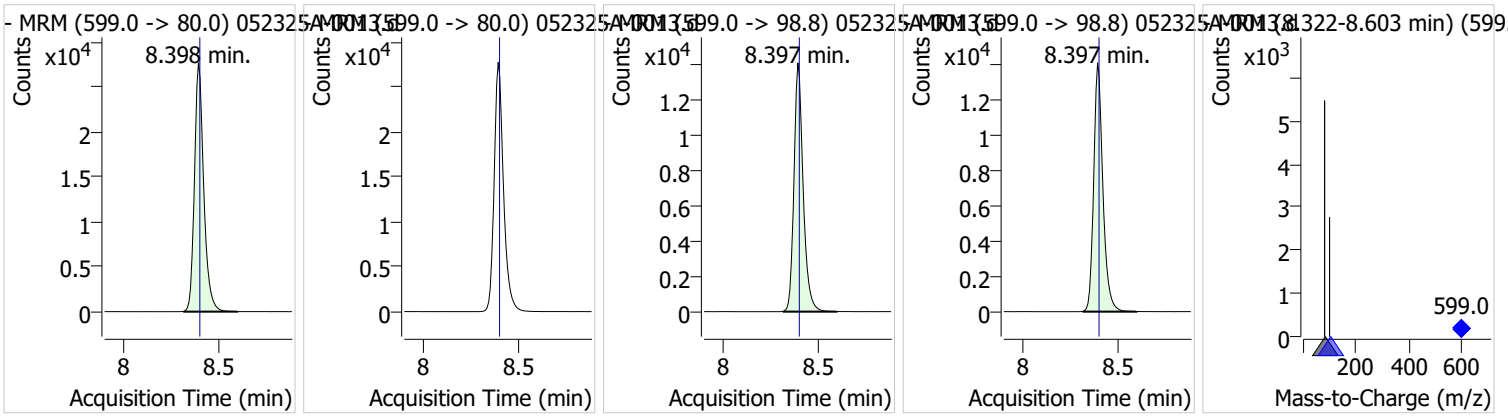
13C7-PFUnA_ISTD



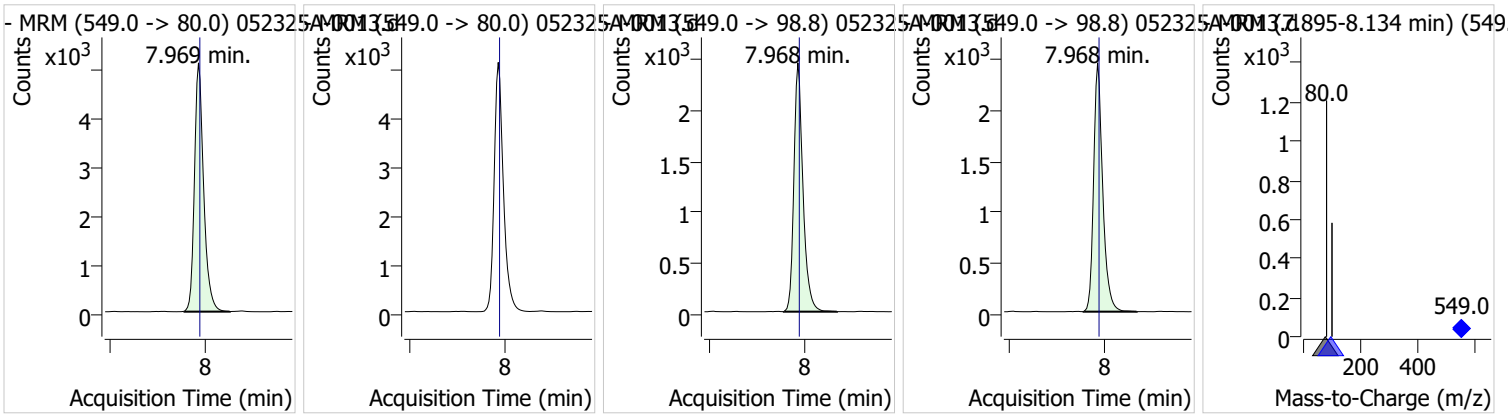
13C4-PFOA



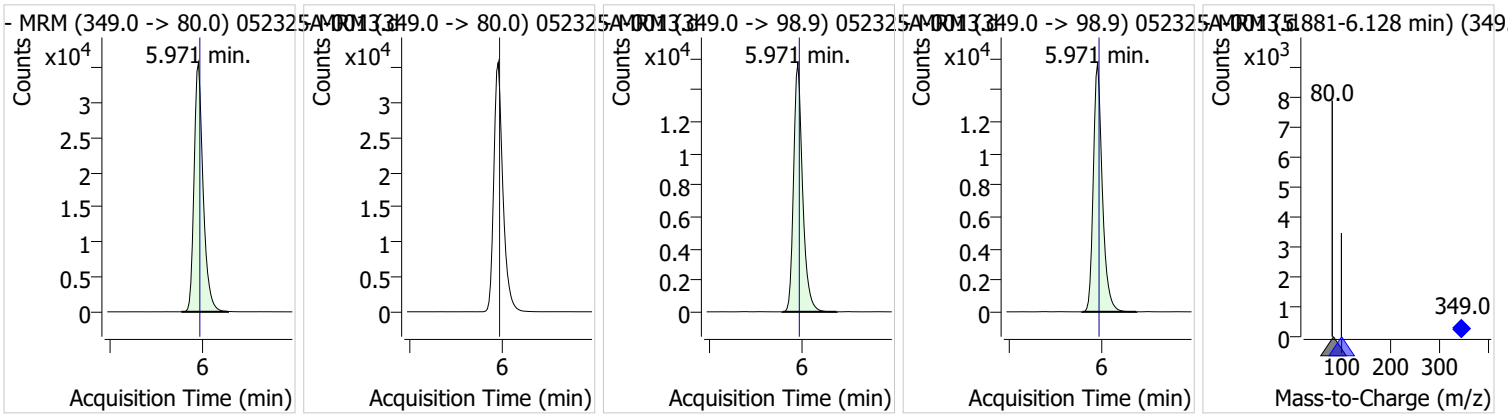
PFDS



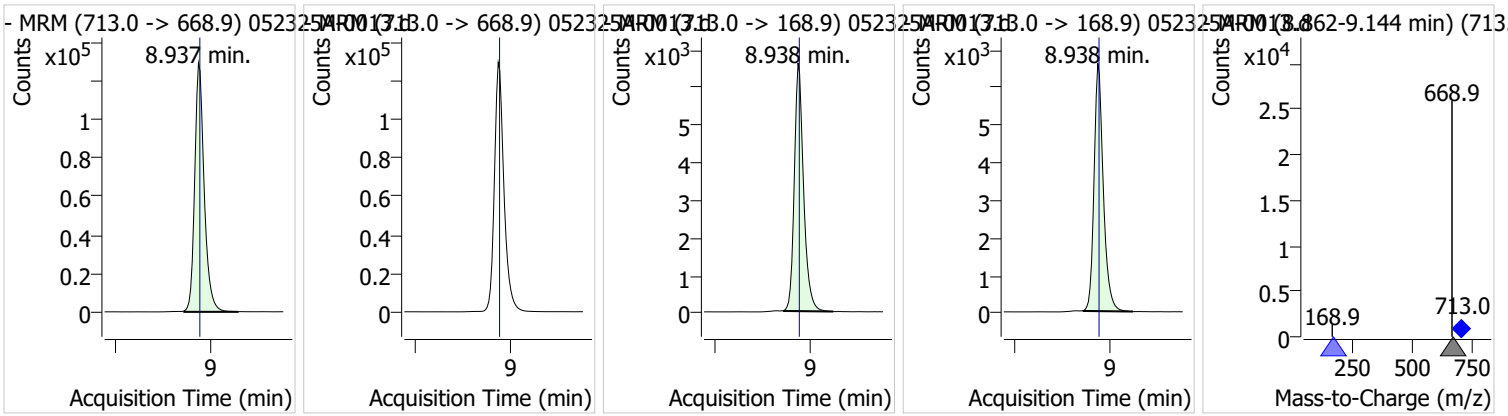
PFNS



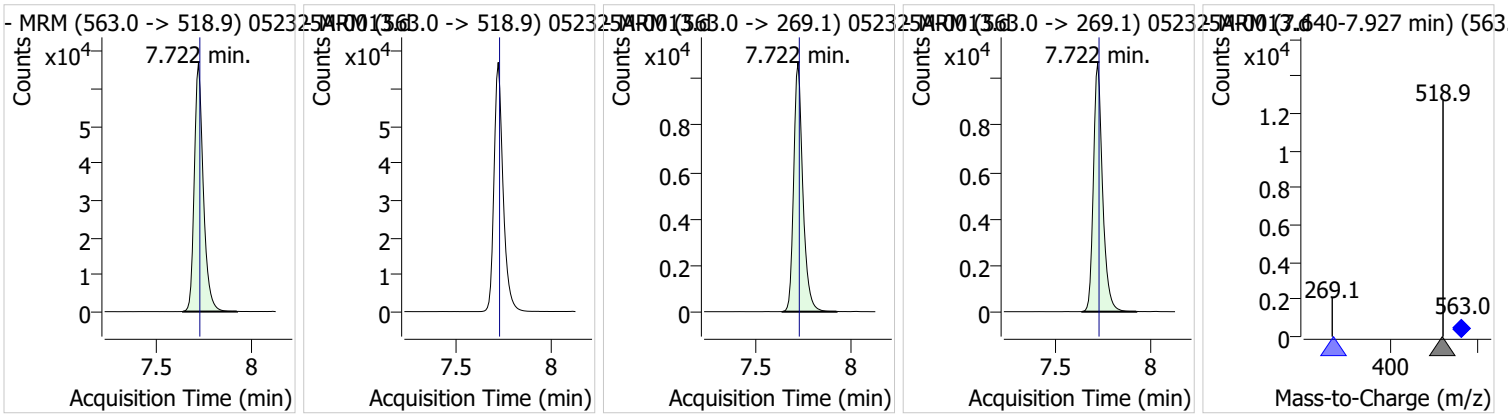
PFPeS



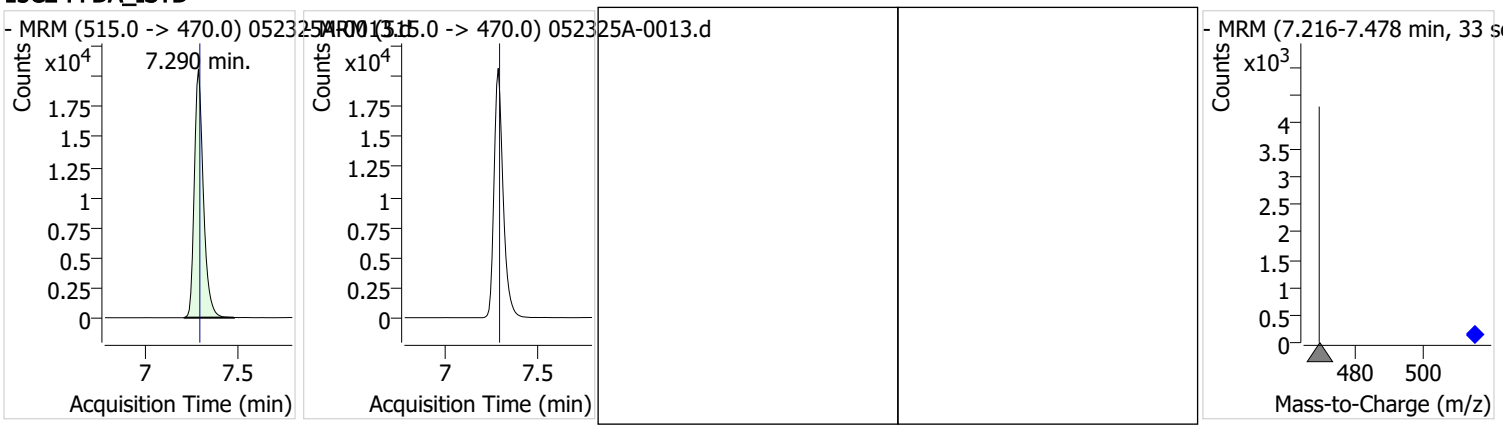
PFTeDA



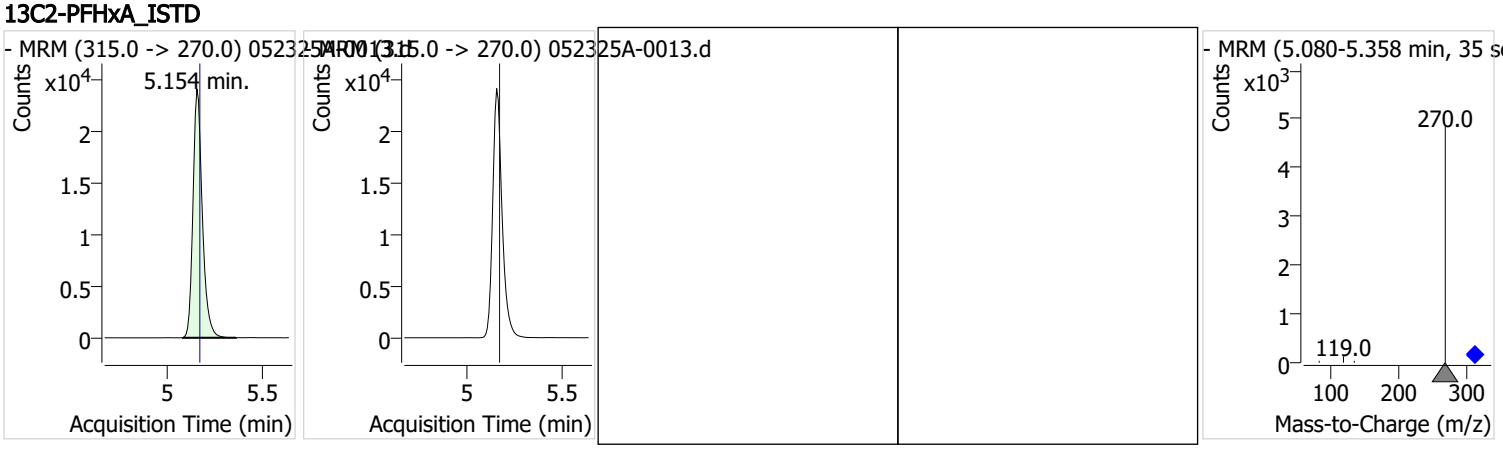
PFUnA



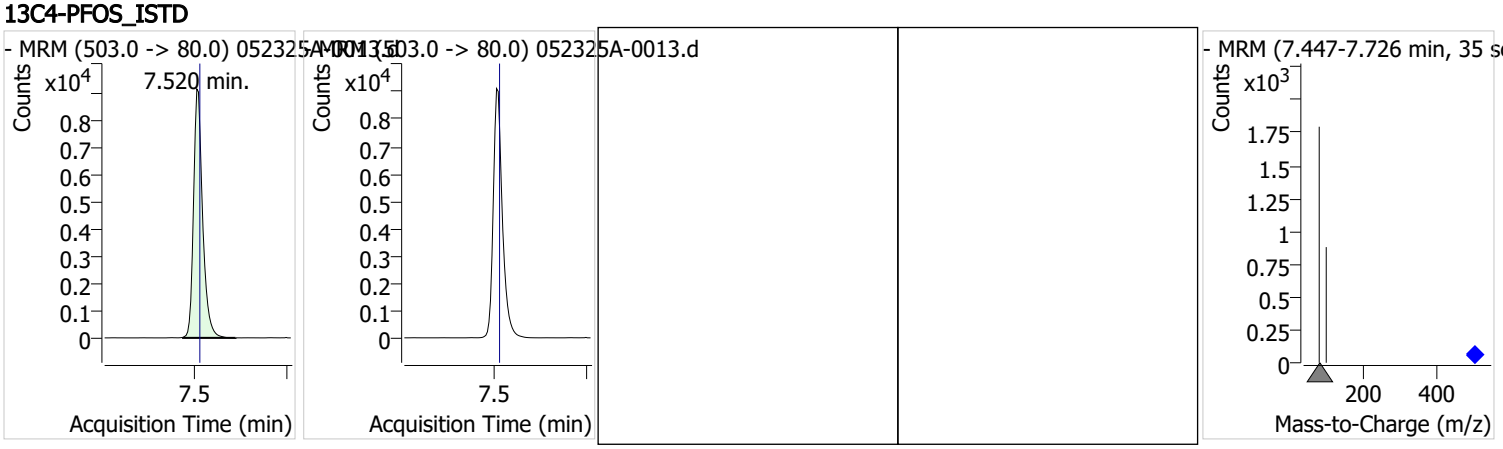
13C2-PFDA_ISTD



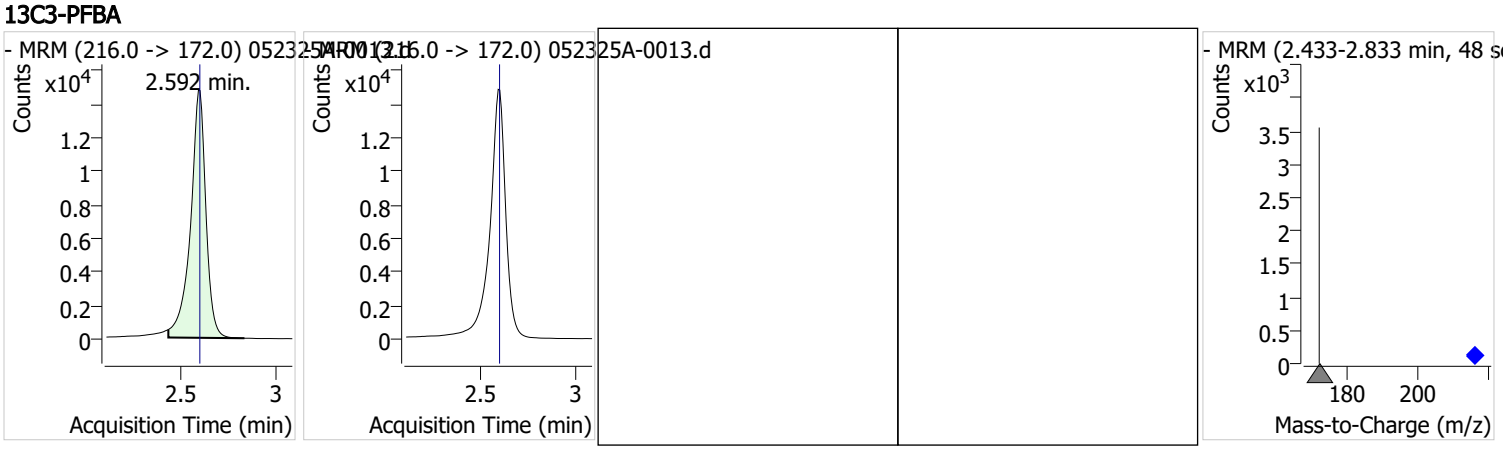
13C2-PFHxA_ISTD



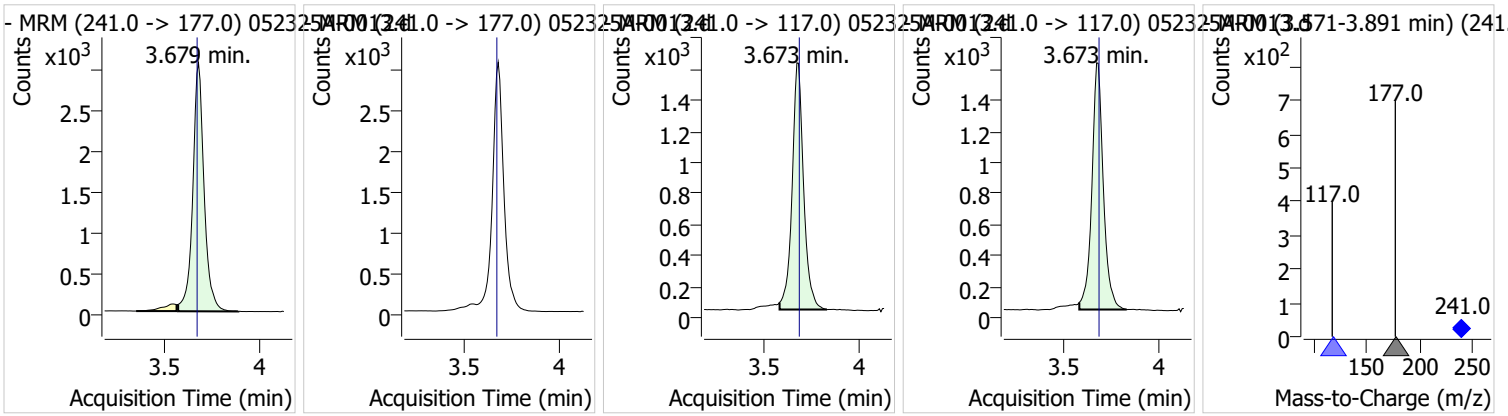
13C4-PFOS_ISTD



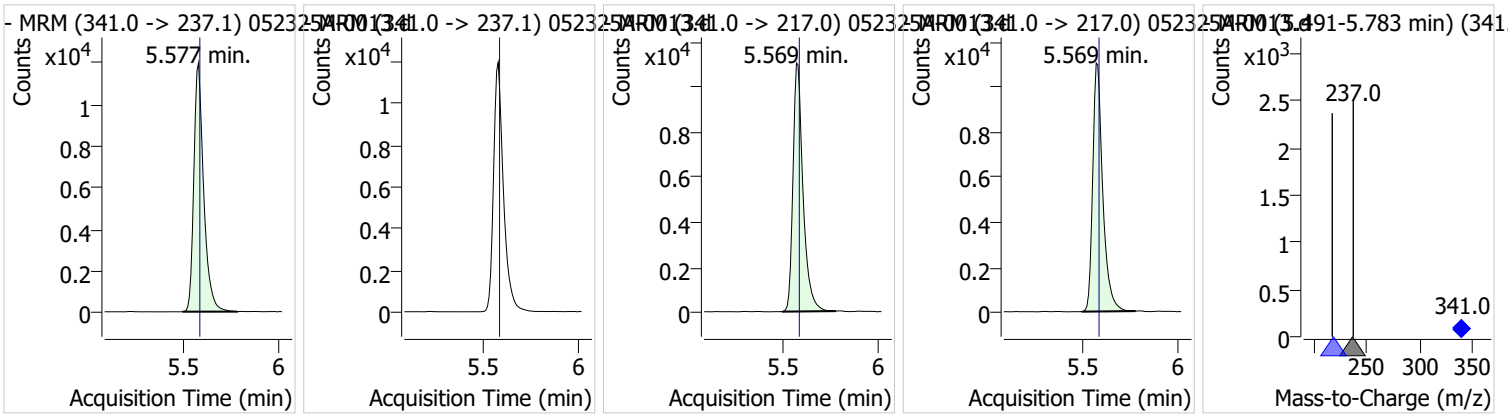
13C3-PFBA



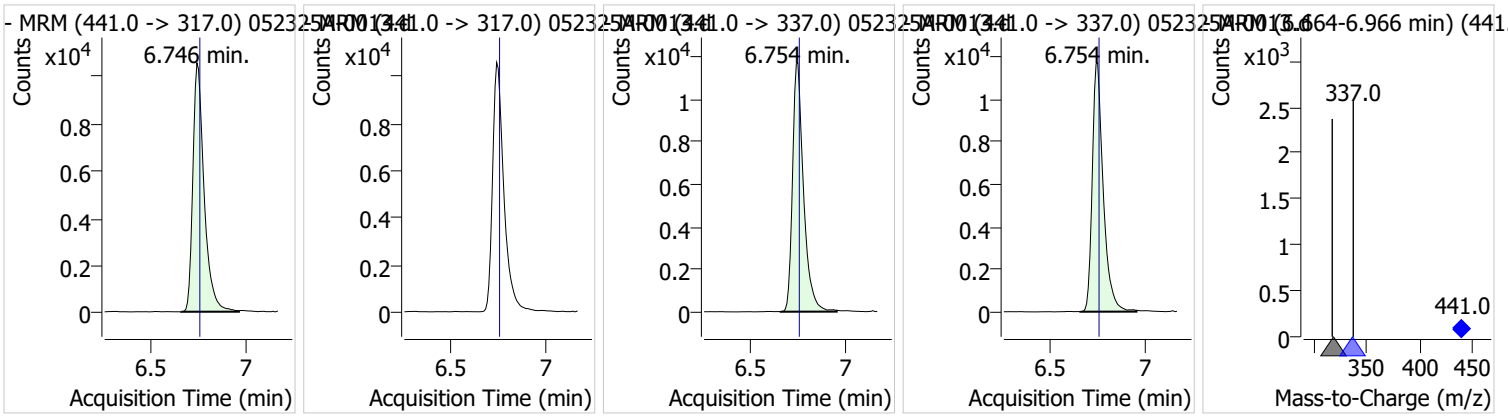
3:3FTCA



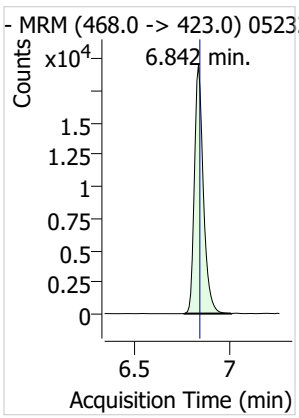
5:3FTCA

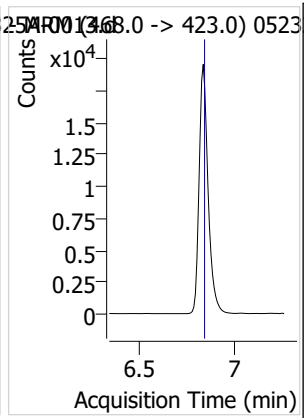


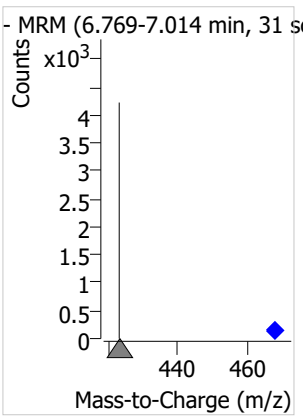
7:3FTCA



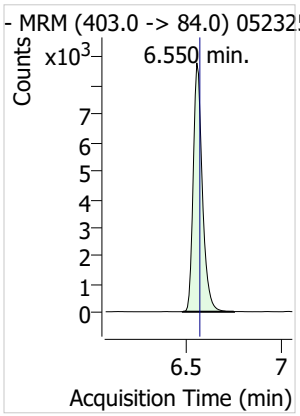
13C5-PFNA

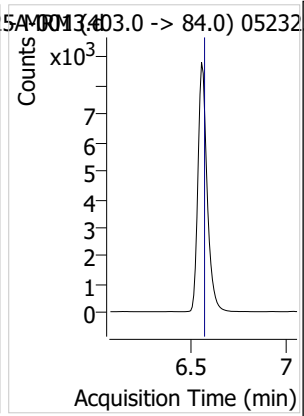


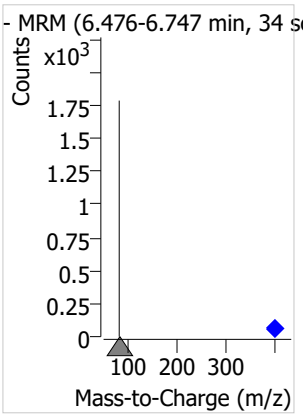




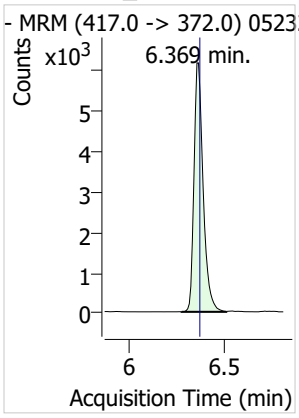
18O2-PFHxS

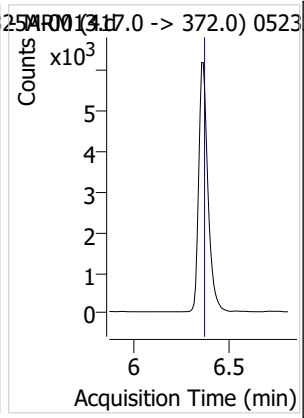


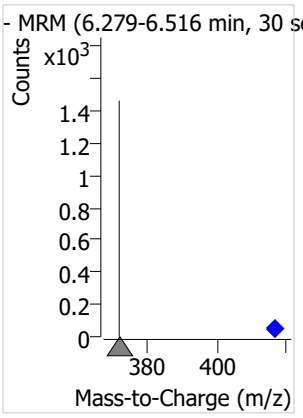




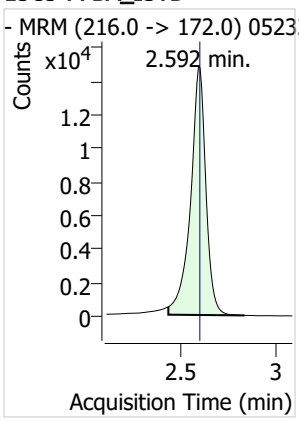
13C4-PFOA_ISTD

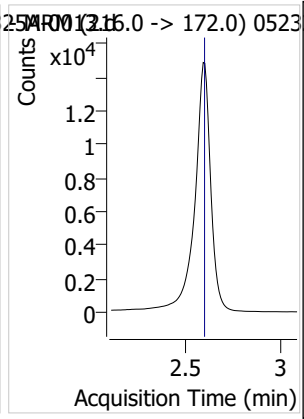


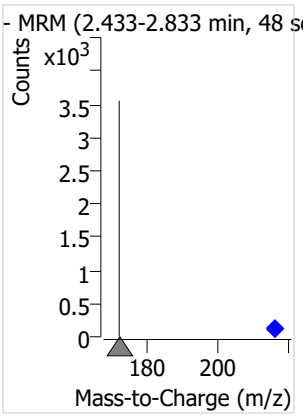




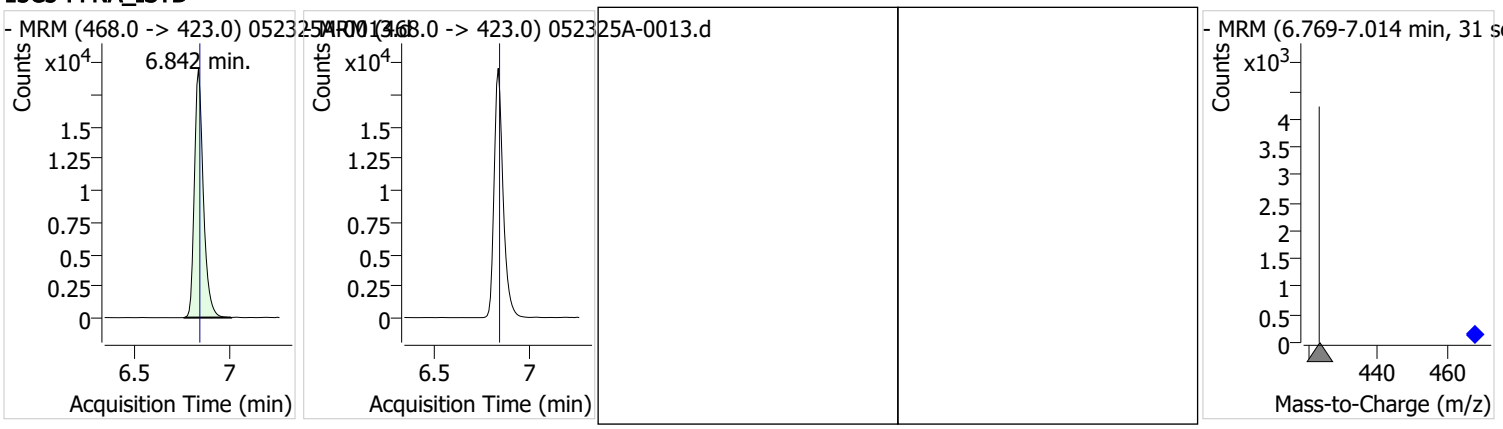
13C3-PFBA_ISTD



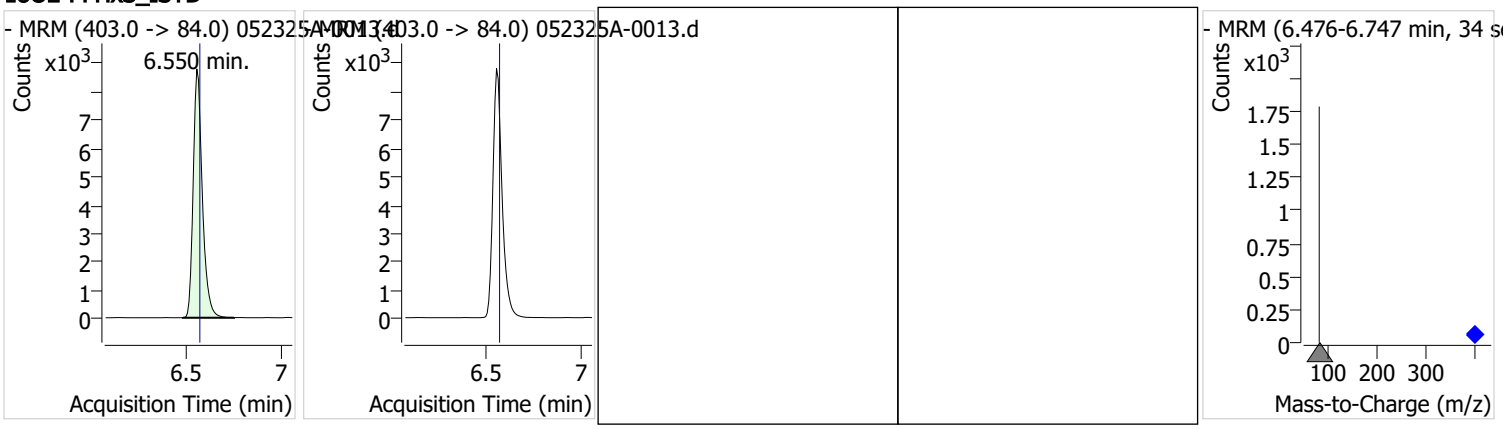




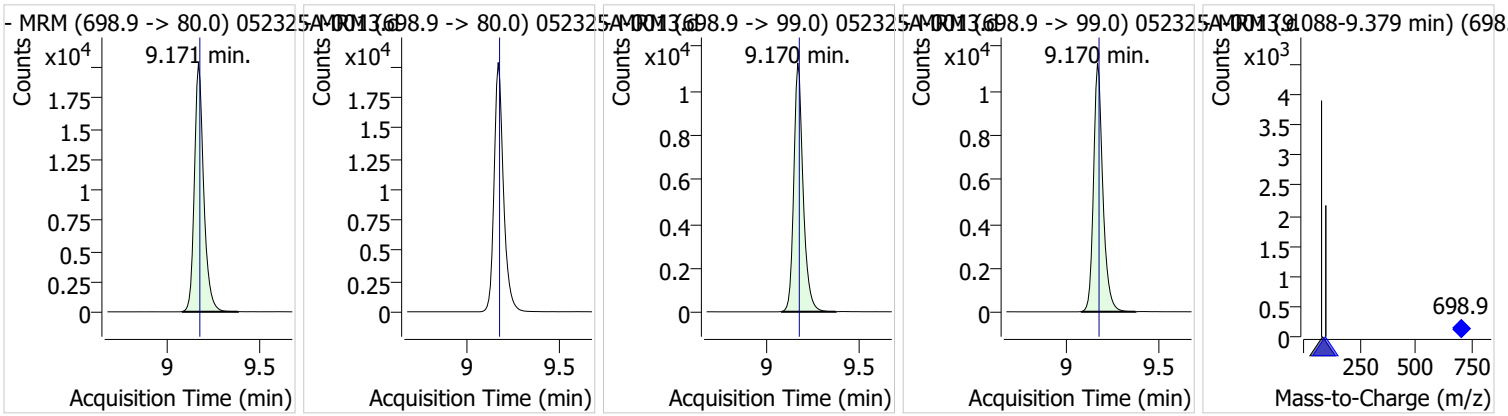
13C5-PFNA_ISTD



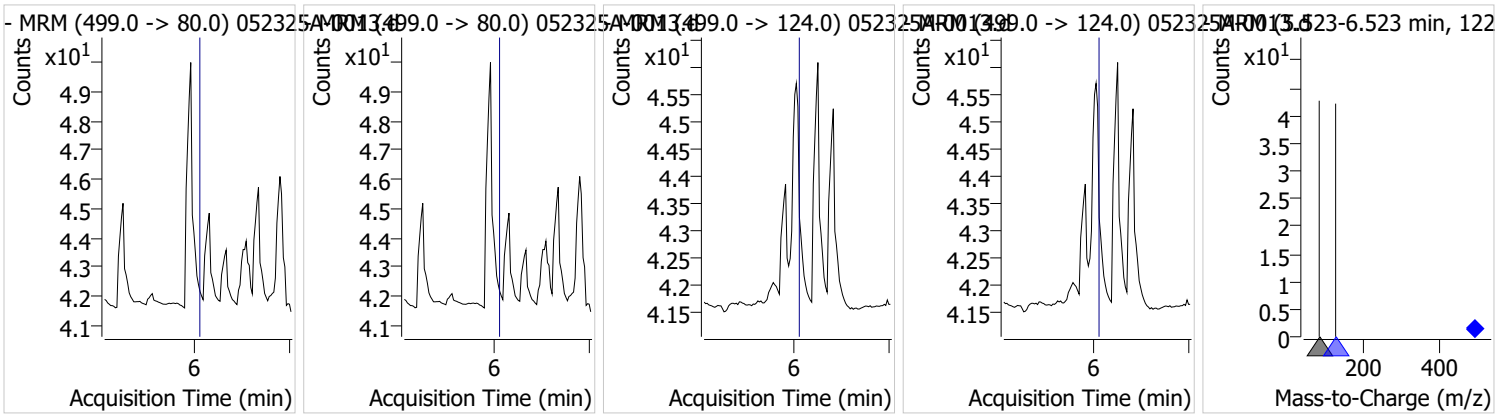
18O2-PFHxS_ISTD



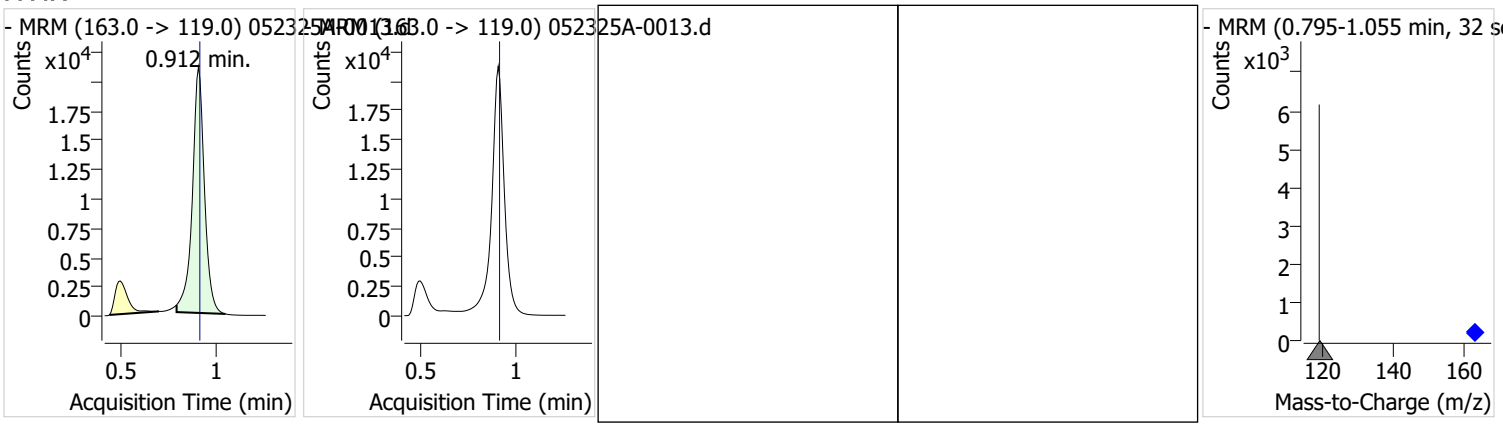
PFDoS



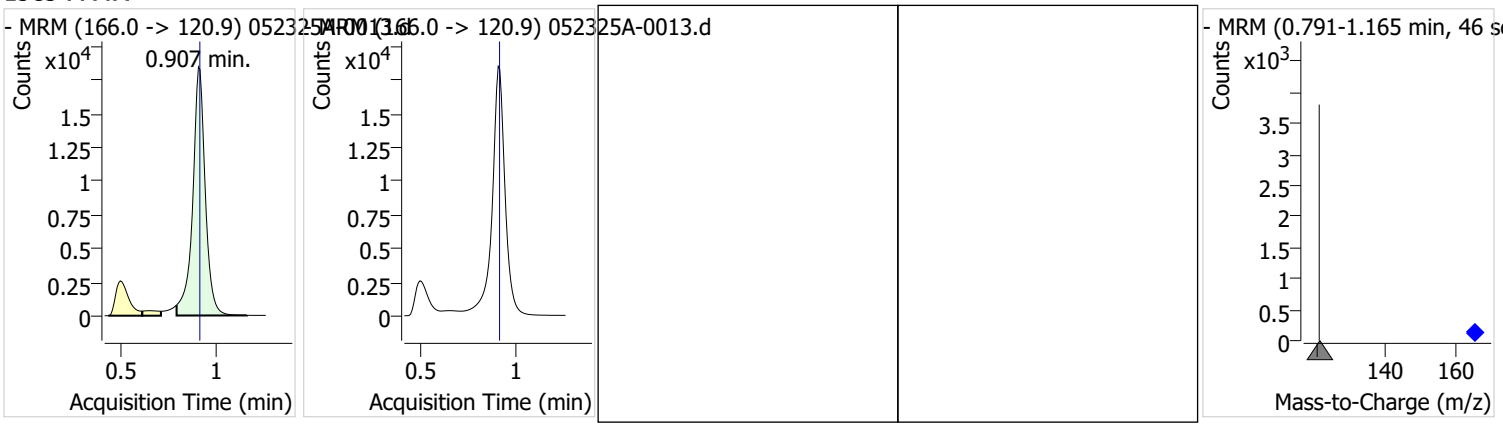
TDCA



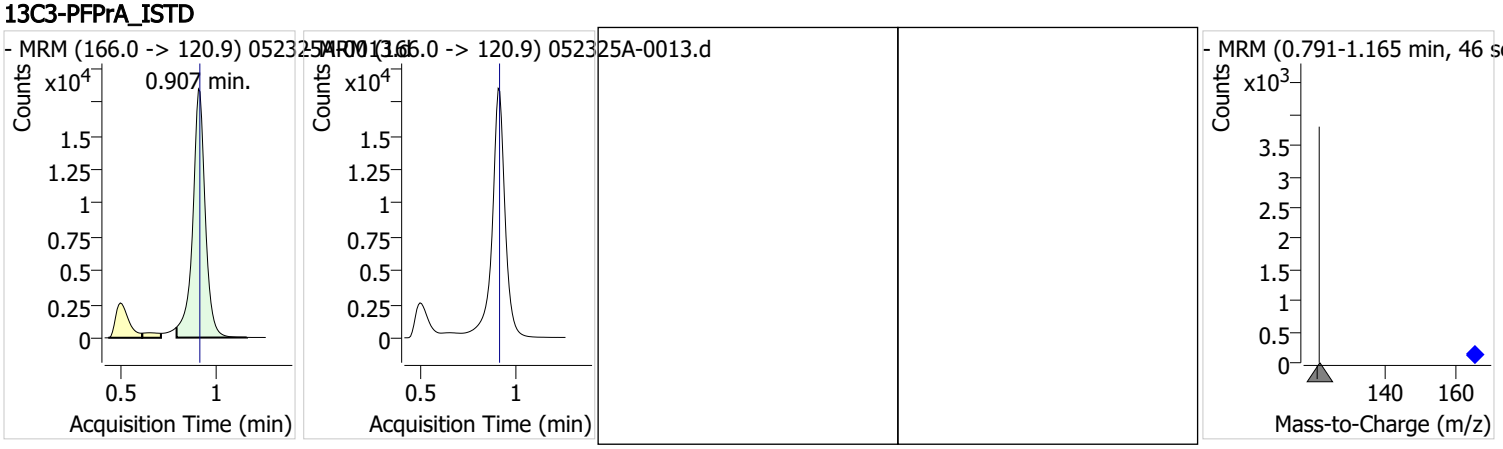
PFPrA



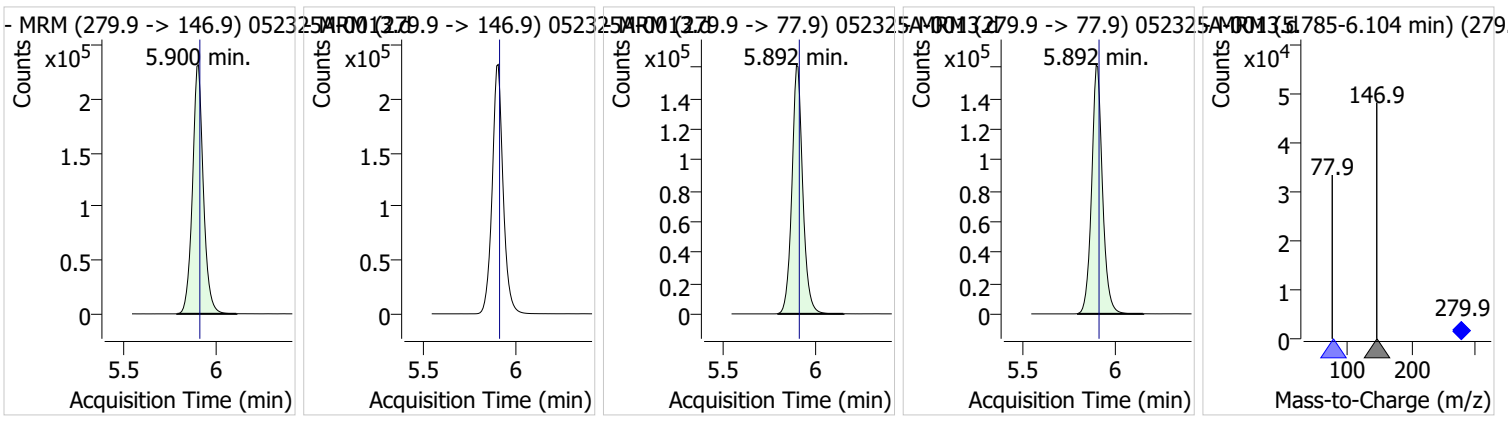
13C3-PFPrA



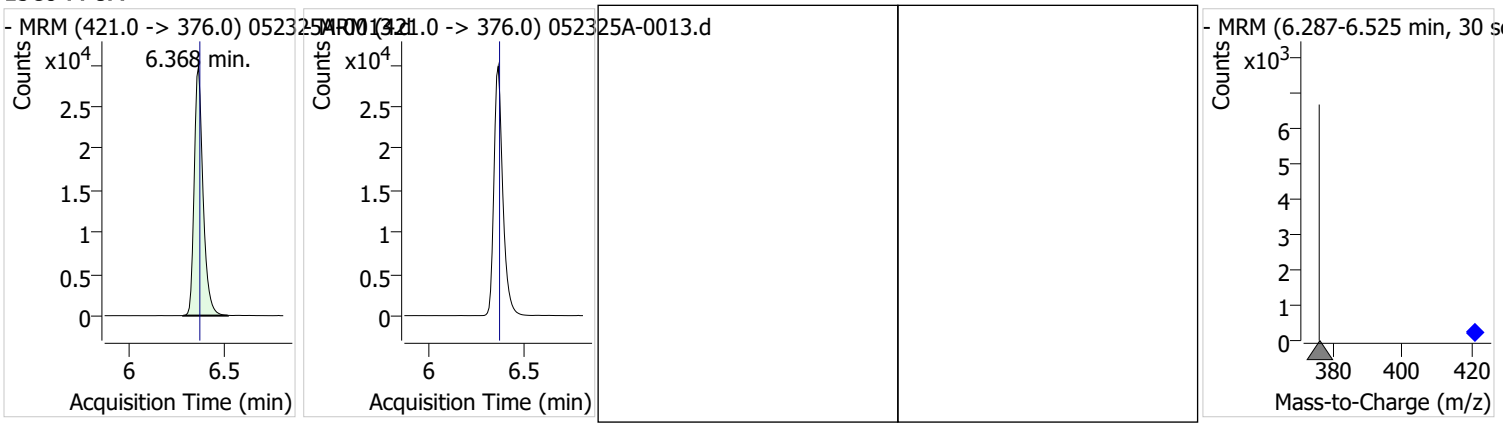
13C3-PFPrA_ISTD



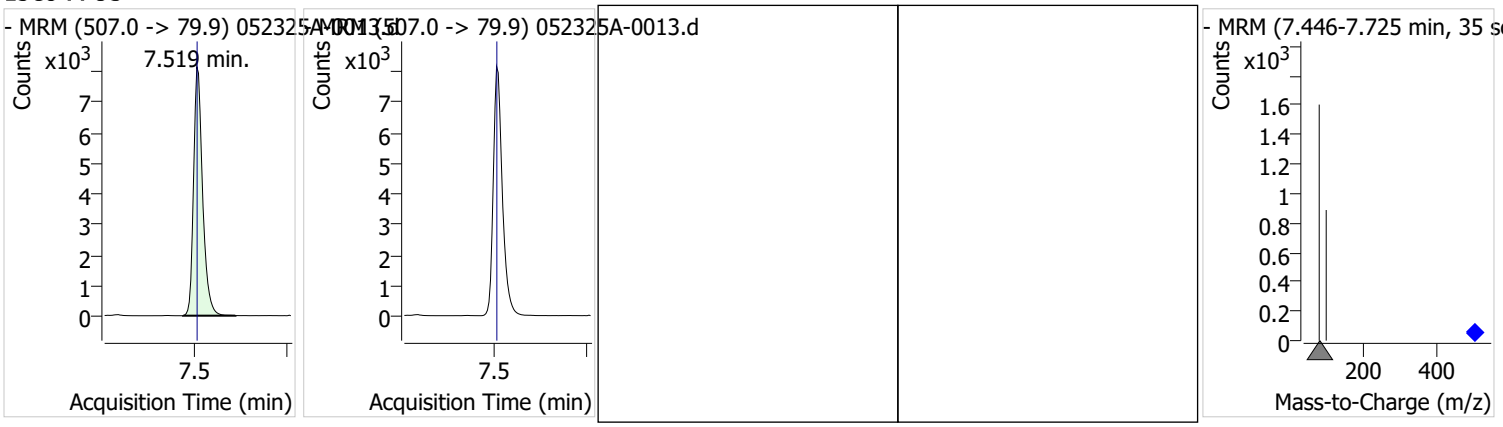
TFSI



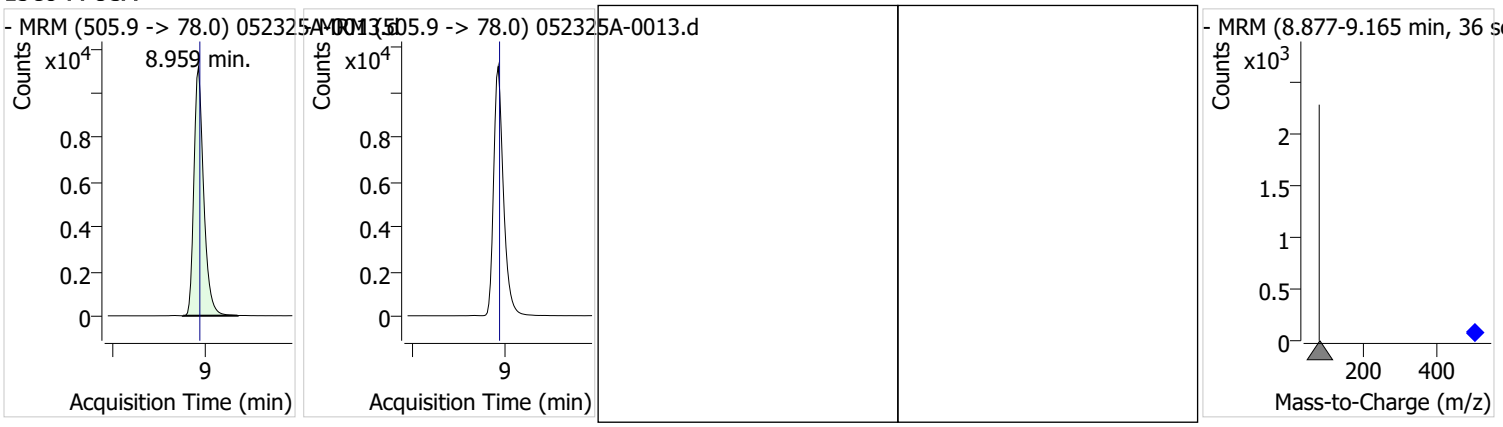
13C8-PFOA



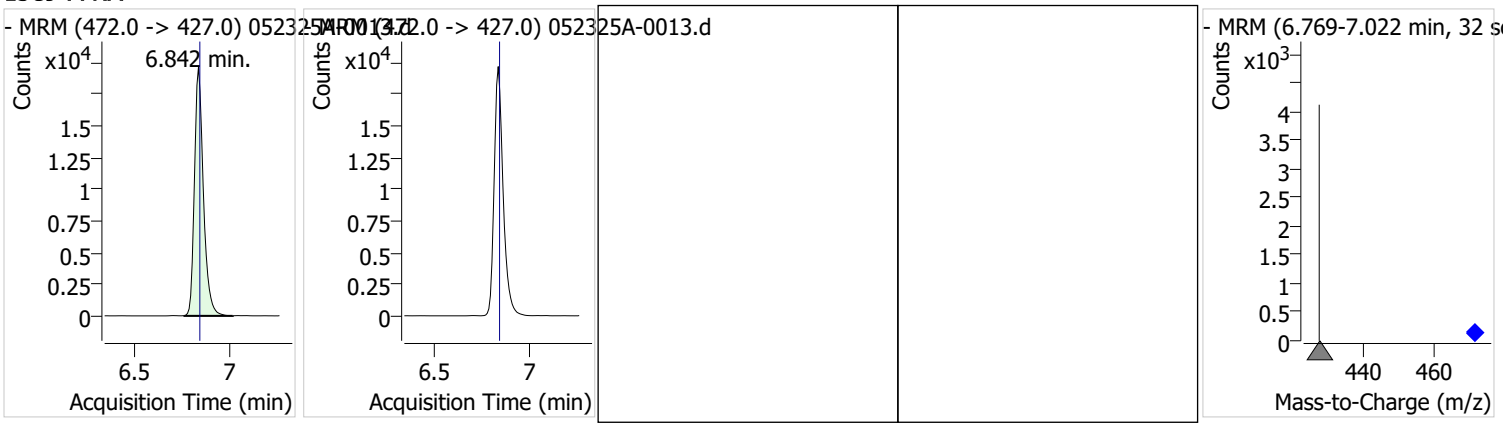
13C8-PFOS



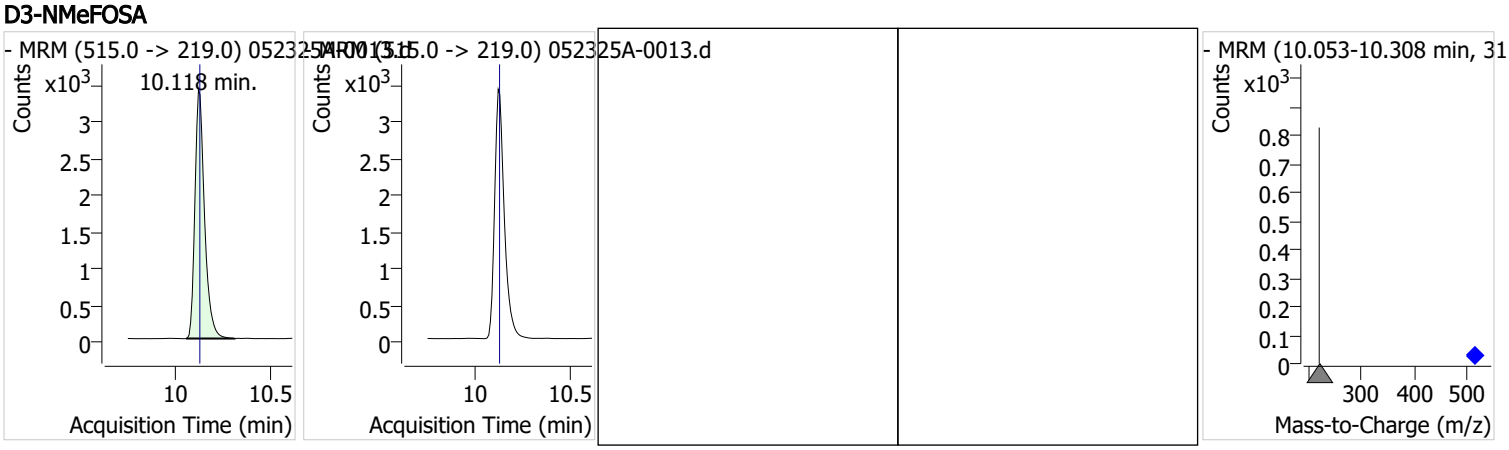
13C8-PFOSA



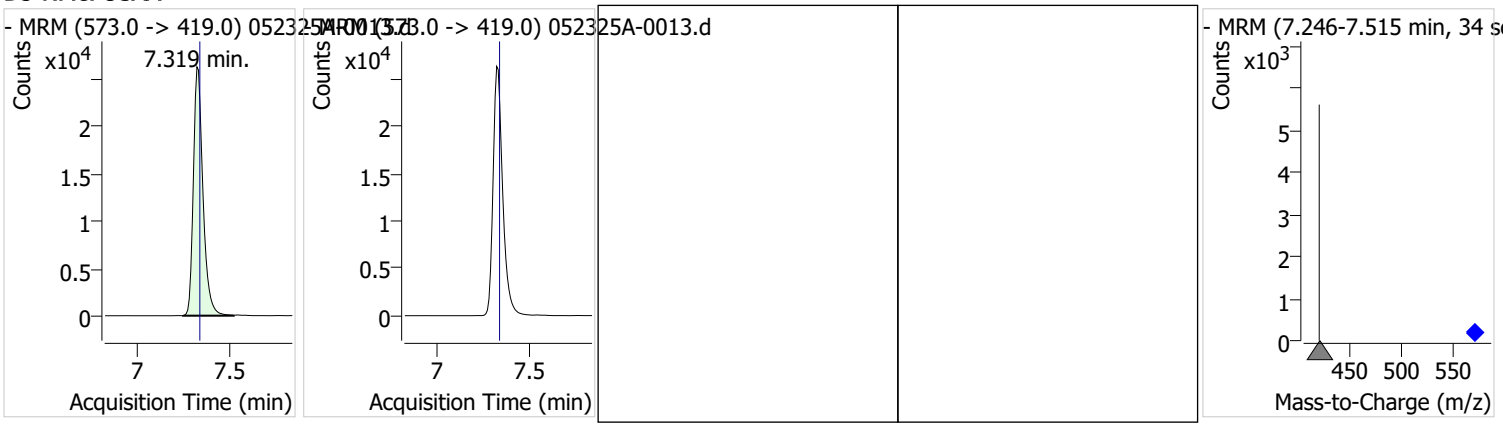
13C9-PFNA



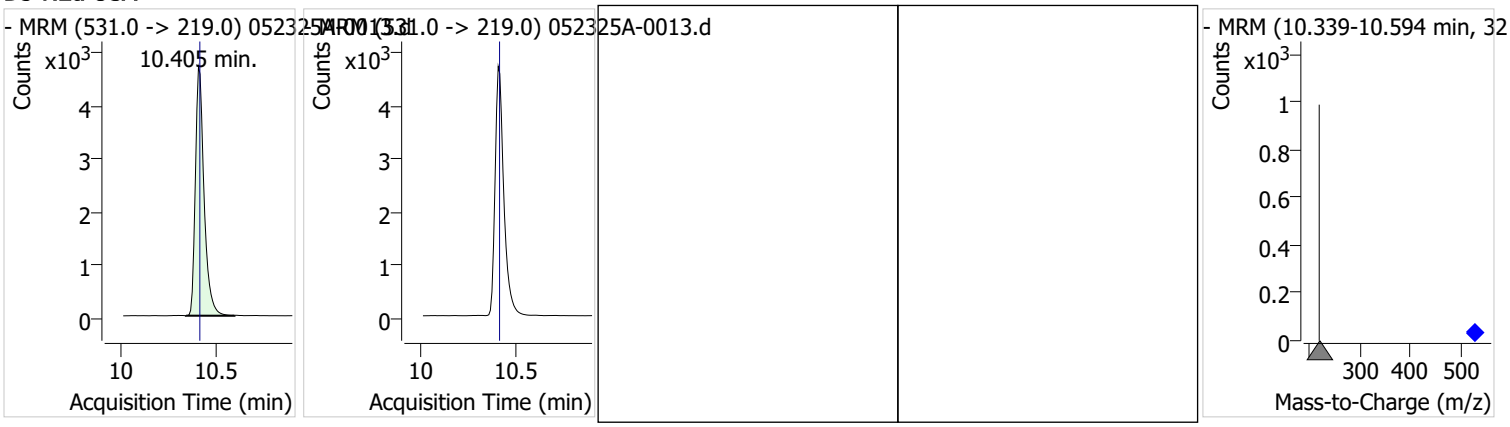
D3-NMeFOSA



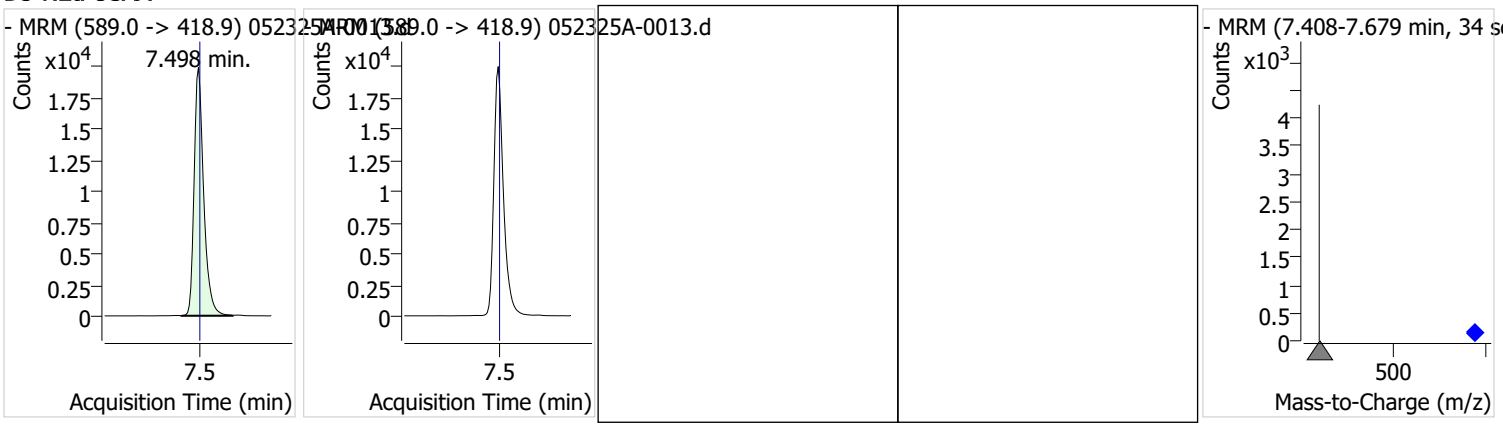
D3-NMeFOSAA



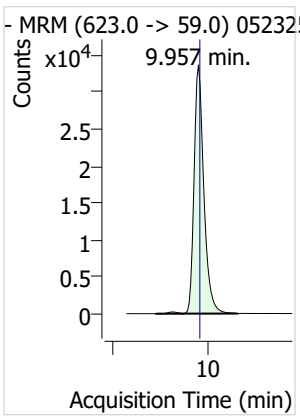
D5-NEtFOSA

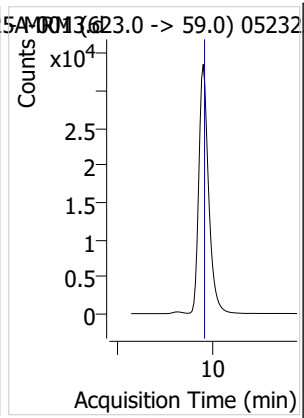


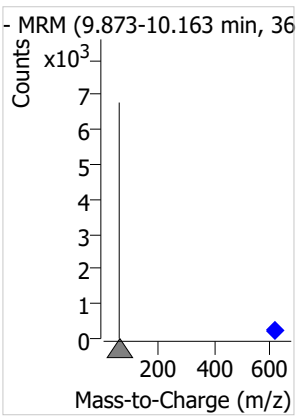
D5-NEtFOSAA



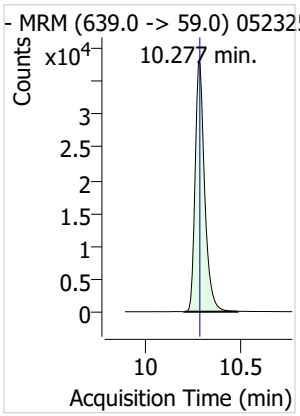
D7-NMeFOSE

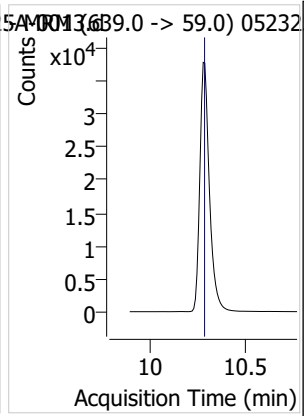


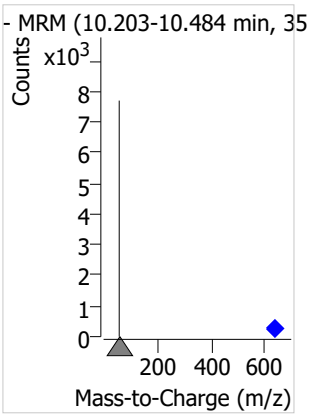




D9-NEtFOSE

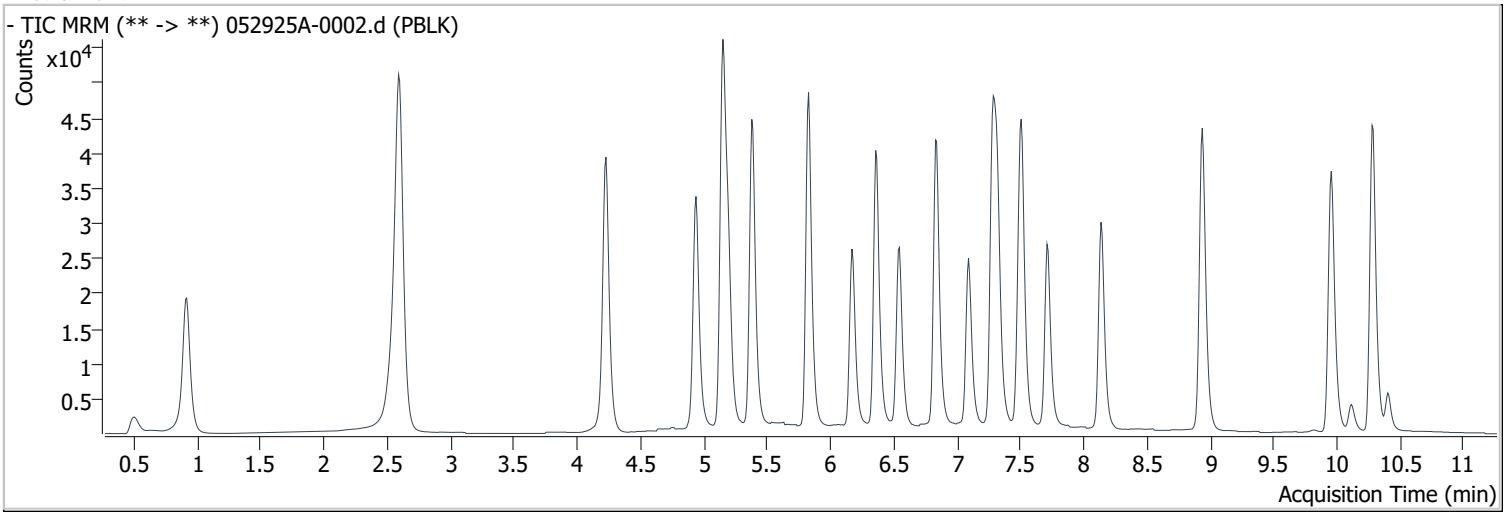






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A.batch.bin		
Analysis Time	5/29/2025 4:52 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 10:24 AM	**Data File**	052925A-0002.d
Sample Type	Sample	**Sample Name**	PBLK
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	2mM:25-056-017 ACE:242511	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.386	94733	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.938	34258	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.172	23680	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.831	153060	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.092	23152	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.589	201883	4056.88		13C3-PFBA_ISTD	2.592	80170	10.3464	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.519	28092	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.519	28092	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.519	28092	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.938	34258	3052.10		18O2-PFHxS_ISTD	6.550	29861	6.6626	ng/ml			
13C2-6:2FTS	6.172	23680	105214.09		18O2-PFHxS_ISTD	6.550	29861	6.1124	ng/ml			
13C2-8:2FTS	7.092	23152	7010.95		18O2-PFHxS_ISTD	6.550	29861	5.9539	ng/ml			
13C2-PFDoA	8.138	99327	6081.46		13C2-PFDA_ISTD	7.281	60716	1.3094	ng/ml			
13C2-PFDA	7.281	60716	3634.01					1.2488	ng/ml			
13C2-PFHxA	5.154	79398	4901.77					2.5760	ng/ml			
13C2-PFTeDA	8.936	108253	8791.79		13C2-PFDA_ISTD	7.281	60716	1.2700	ng/ml			
13C4-PFOS	7.520	29833	85630.33					2.7064	ng/ml			
13C3-HFPODA	5.386	94733	110298.18		13C2-PFHxA_ISTD	5.154	79398	11.1671	ng/ml			
13C3-PFBS	5.196	52845	188183.13		18O2-PFHxS_ISTD	6.550	29861	2.5920	ng/ml			
13C3-PFHxS	6.551	36418	10723.89		18O2-PFHxS_ISTD	6.550	29861	2.6381	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.490	74632	-	ng/ml			
584.0 -> 526.0				*								

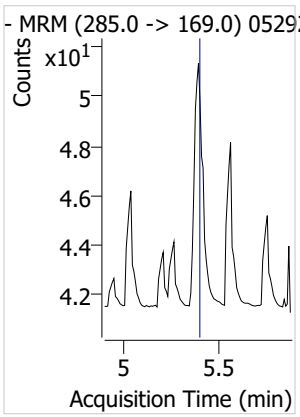
Quantitative Analysis Sample Report

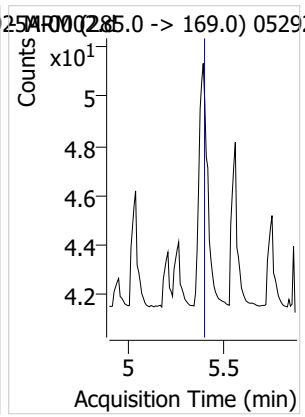
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	153060	21251.74		13C2-PFHxA_ISTD	5.154	79398	2.7146	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.319	95011	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.589	201883	-	ng/ml			
13C5-PFHxA	5.153	93227	27580.10		13C2-PFHxA_ISTD	5.154	79398	2.6450	ng/ml			
PFBS					13C3-PFBS_ISTD	5.196	52845	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	13063	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.281	75073	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.138	99327	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	15835	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.831	153060	-	ng/ml			
362.9 -> 169.0				*								
PFHxA	5.155	0	0.00		13C5-PFHxA_ISTD	5.153	93227	-	ng/ml	✔	INT	AJG 5/29/25
313.0 -> 118.9	5.163	0		*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	134965	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.551	36418	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	69845	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	152666	-	ng/ml			
PFOA	6.369	995	22.30		13C8-PFOA_ISTD	6.360	103213	0.0204	ng/ml	✔	GT	AJG 5/29/25
413.0 -> 169.0	6.361	140	45.90	*14.1								
PFOS	7.399	328	74.97		13C8-PFOS_ISTD	7.519	28092	0.0198	ng/ml			
499.0 -> 99.0	7.402	183	22.99	55.8								
PFPeA	4.231	0	0.00		13C5-PFPeA_ISTD	4.229	147623	-	ng/ml	✔	INT/SN	AJG 5/29/25
PFMPA					13C4-PFBA_ISTD	2.589	201883	-	ng/ml			
13C5-PFPeA	4.229	147623	19967.69		13C2-PFHxA_ISTD	5.154	79398	5.2498	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.229	147623	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.138	99327	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.153	93227	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.281	75073	22680.63		13C2-PFDA_ISTD	7.281	60716	1.3131	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.153	93227	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.951	44958	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.713	84999	25718.67		13C2-PFDA_ISTD	7.281	60716	1.3312	ng/ml			
13C4-PFOA	6.361	21809	1870.15					2.6376	ng/ml			
PFDS					13C8-PFOS_ISTD	7.519	28092	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.519	28092	-	ng/ml			
549.0 -> 98.8				*								

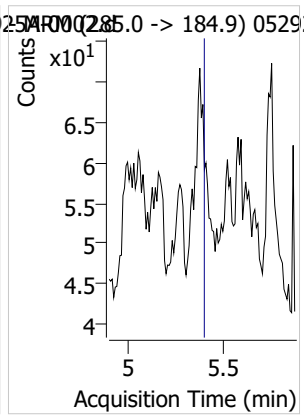
Quantitative Analysis Sample Report

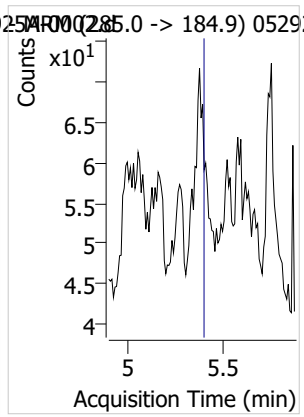
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFPeS					13C3-PFHxS_ISTD	6.551	36418	-	ng/ml			
349.0 -> 98.9				*								
PFTeDA					13C2-PFTeDA_ISTD	8.936	108253	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.713	84999	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.592	80170	1542.54					5.2790	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.229	147623	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.153	93227	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	69845	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.834	63804	2775.69					1.3492	ng/ml			
18O2-PFHxS	6.550	29861	8884.16					2.6288	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.519	28092	-	ng/ml			
698.9 -> 99.0				*								
TDCA	6.031	90	1342.87		13C8-PFOS_ISTD	7.519	28092	0.0201	ng/ml	✔	NI	CS4 5/29/25
499.0 -> 124.0	6.031	89	107.73	**99.2								
PFPrA					13C3-PFPrA_ISTD	0.916	89203	-	ng/ml			
13C3-PFPrA	0.916	89203	36355.53		13C3-PFBA_ISTD	2.592	80170	10.2854	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.386	94733	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.360	103213	3093.85		13C4-PFOA_ISTD	6.361	21809	2.5259	ng/ml			
13C8-PFOS	7.519	28092	8482.18		13C4-PFOS_ISTD	7.520	29833	2.4076	ng/ml			
13C8-PFOSA	8.951	44958	12506.69		13C4-PFOS_ISTD	7.520	29833	2.6797	ng/ml			
13C9-PFNA	6.842	69845	18725.75		13C5-PFNA_ISTD	6.834	63804	1.2390	ng/ml			
D3-NMeFOSA	10.118	13063	14141.58		13C4-PFOS_ISTD	7.520	29833	2.4439	ng/ml			
D3-NMeFOSAA	7.319	95011	23032.18		13C4-PFOS_ISTD	7.520	29833	5.1202	ng/ml			
D5-NEtFOSA	10.405	15835	4282.99		13C4-PFOS_ISTD	7.520	29833	2.4644	ng/ml			
D5-NEtFOSAA	7.490	74632	21054.30		13C4-PFOS_ISTD	7.520	29833	5.2959	ng/ml			
D7-NMeFOSE	9.957	134965	14684.51		13C4-PFOS_ISTD	7.520	29833	26.3005	ng/ml			
D9-NEtFOSE	10.277	152666	6513.05		13C4-PFOS_ISTD	7.520	29833	26.7914	ng/ml			

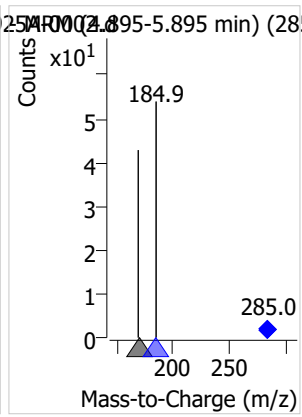
HFPO-DA



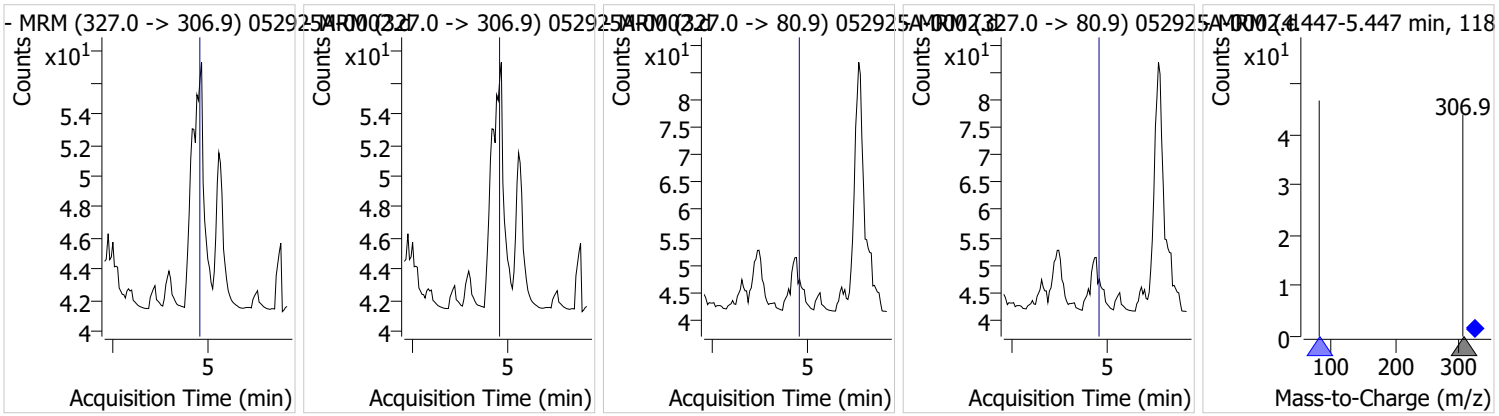




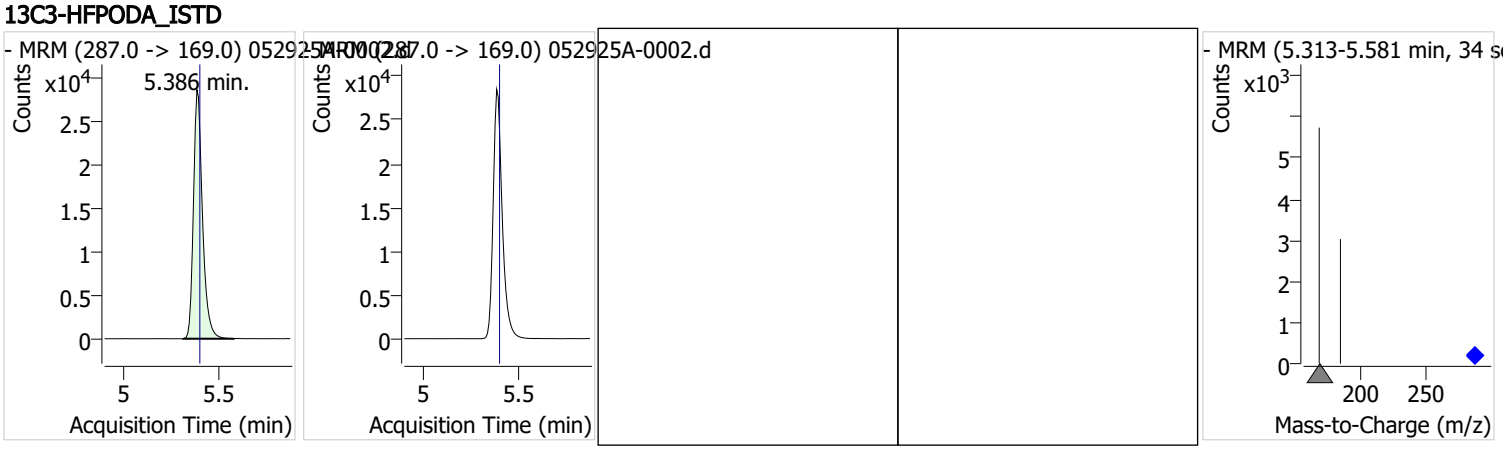




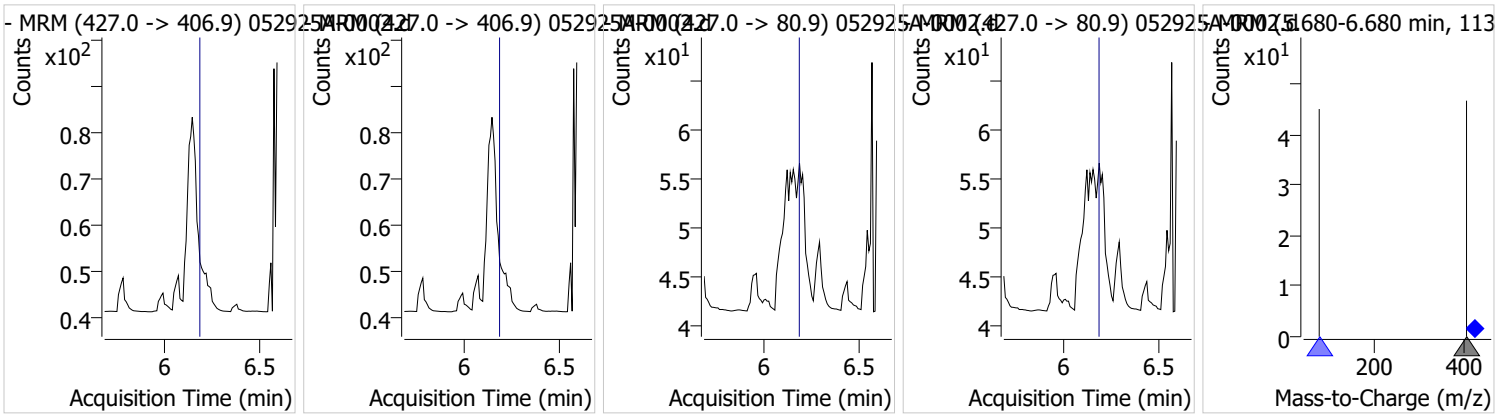
4:2FTS



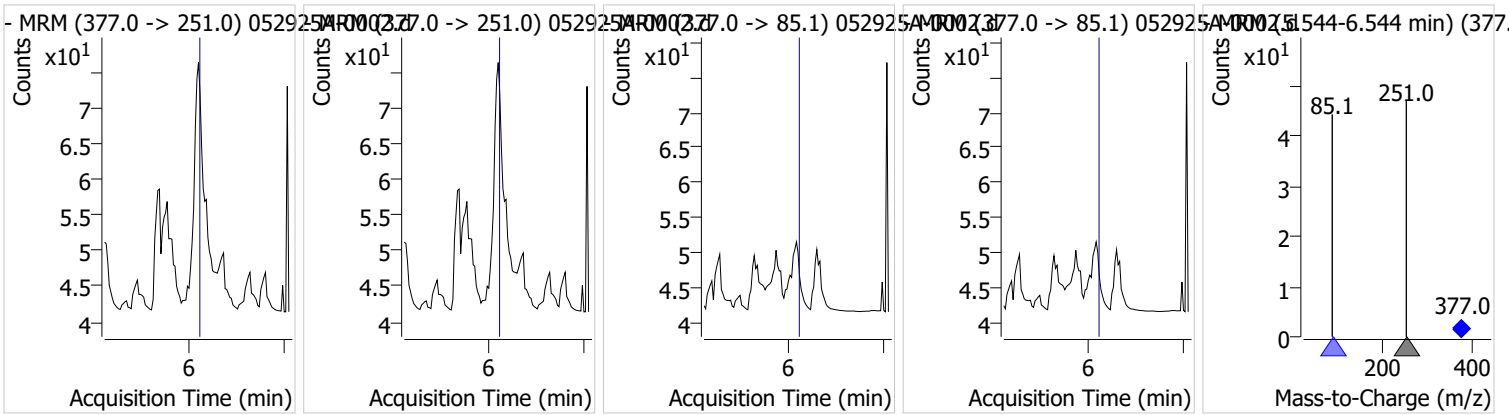
13C3-HFPODA_ISTD



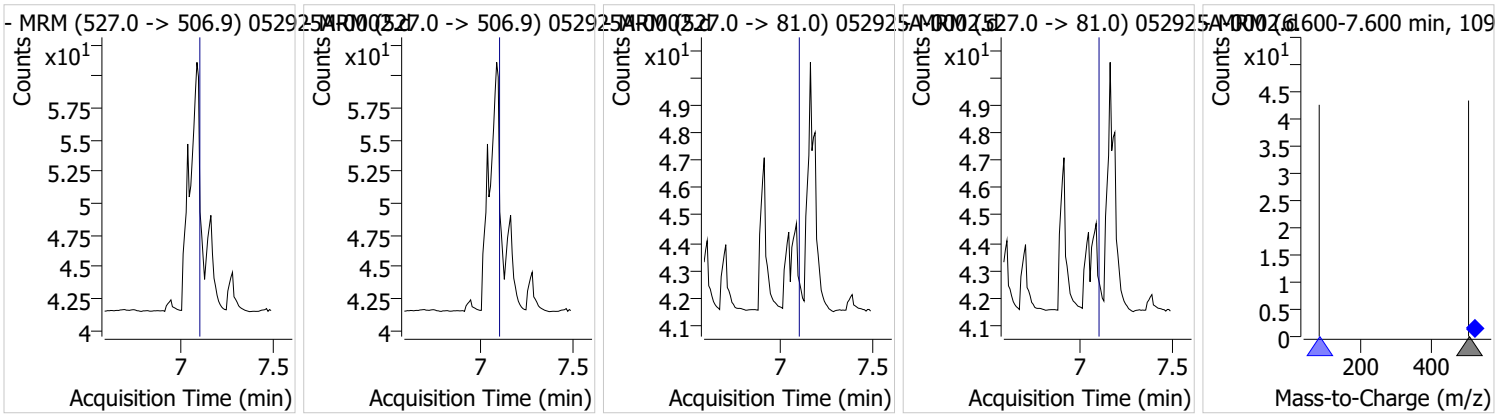
6:2FTS



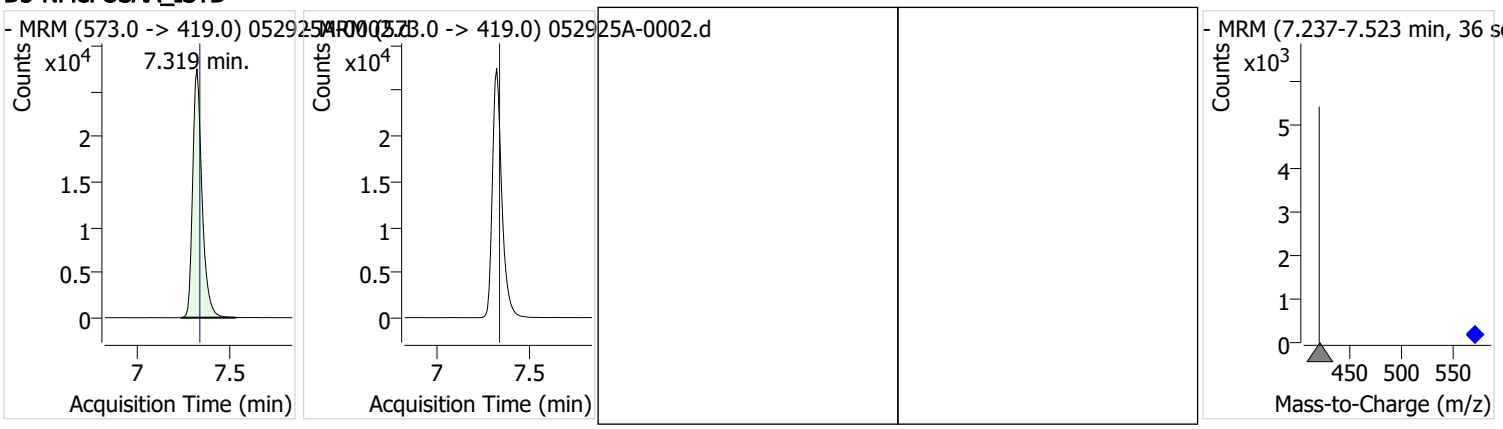
ADONA



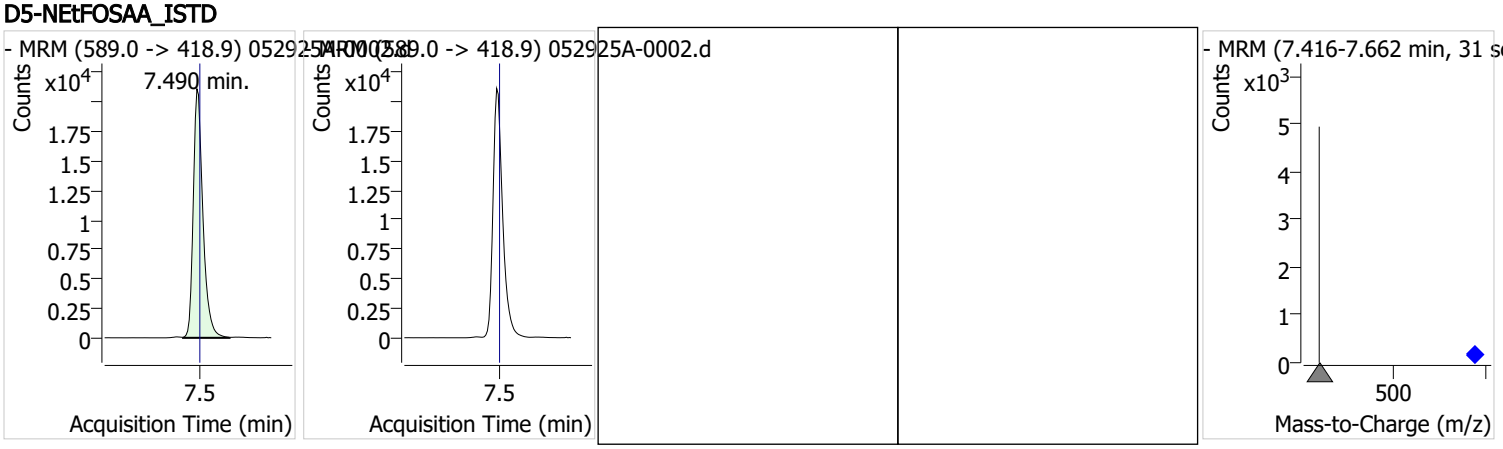
8:2FTS



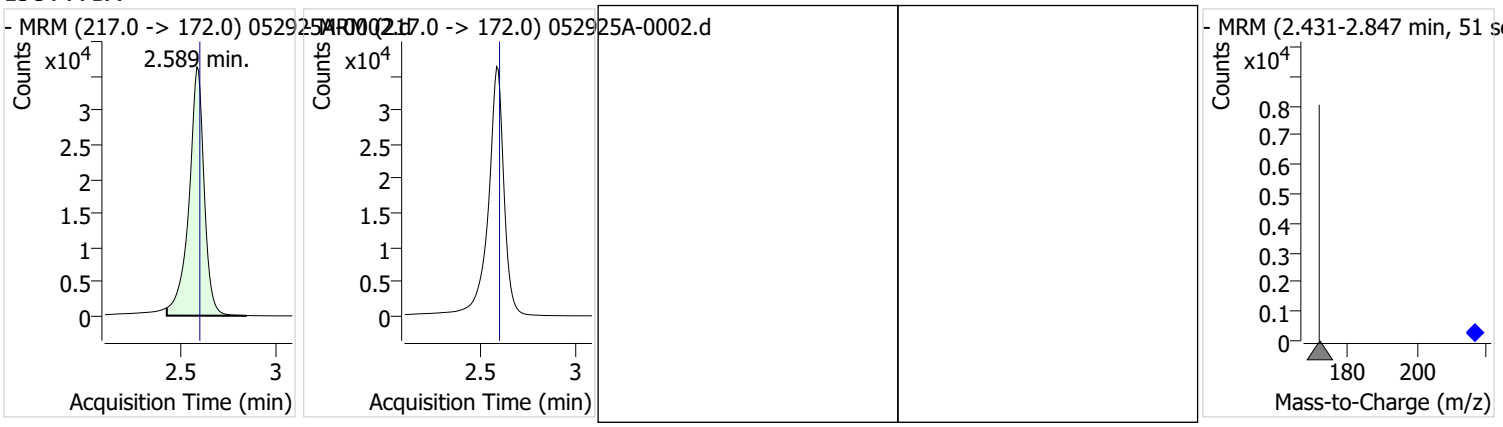
D3-NMeFOSAA_ISTD



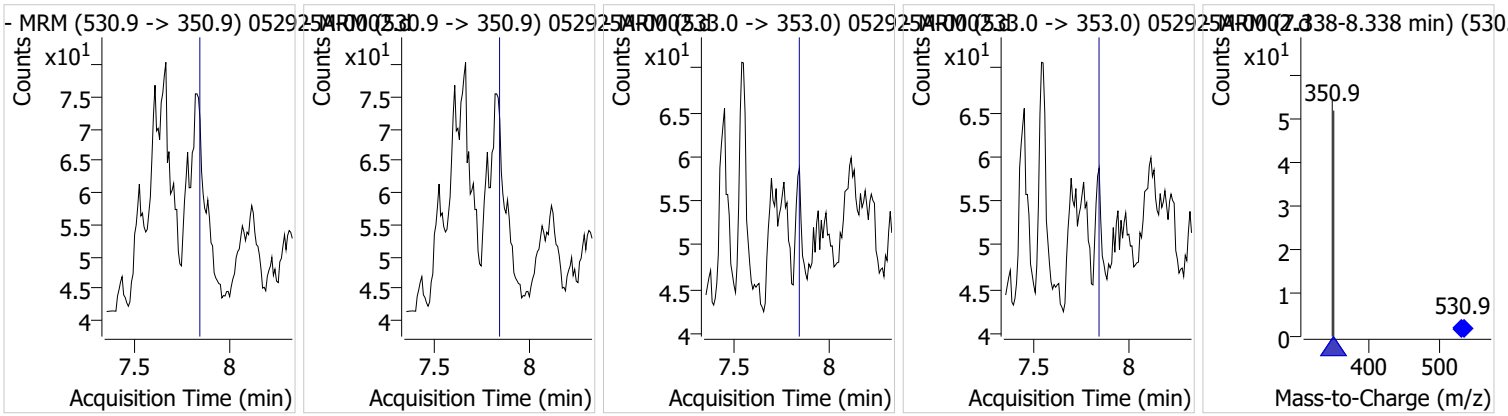
D5-NEtFOSAA_ISTD



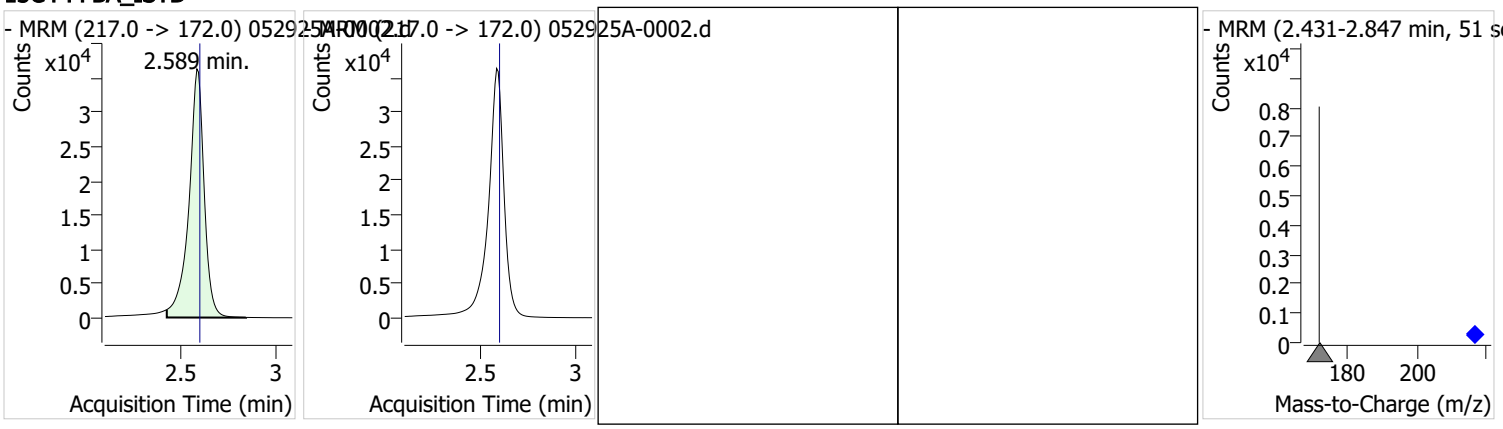
13C4-PFBA



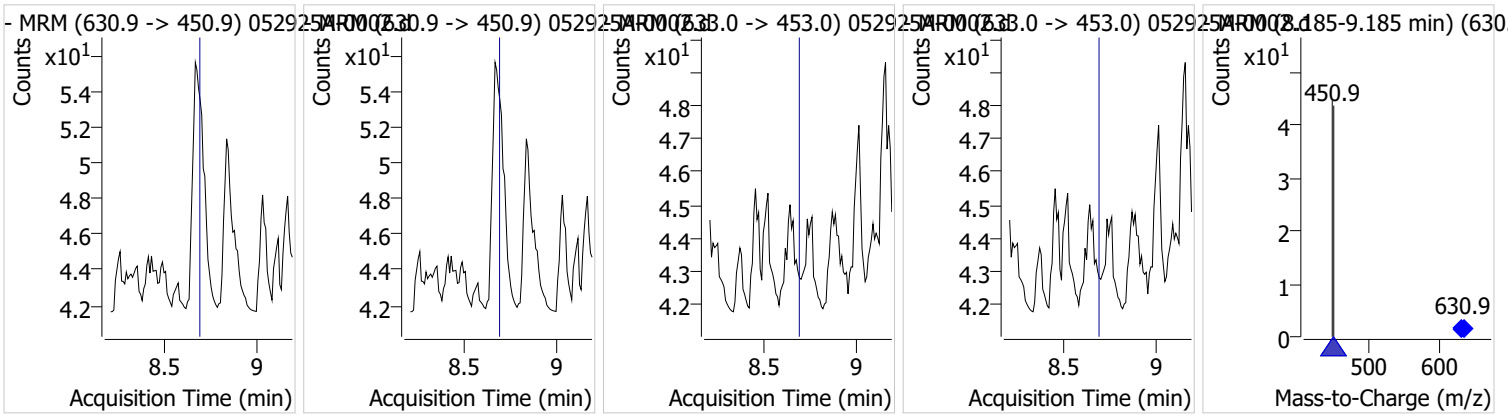
9Cl-PF3ONS



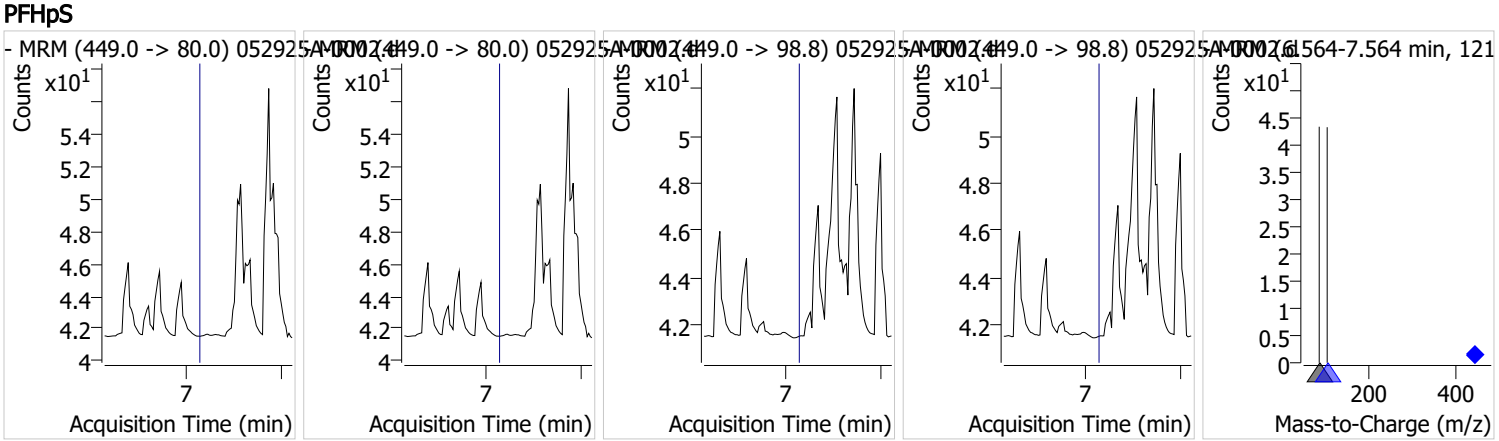
13C4-PFBA_ISTD



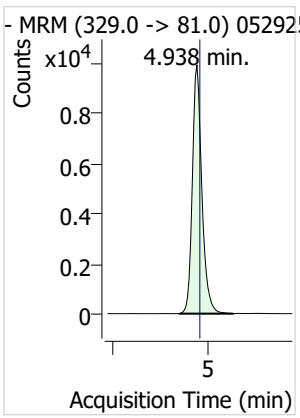
11Cl-PF3OUdS

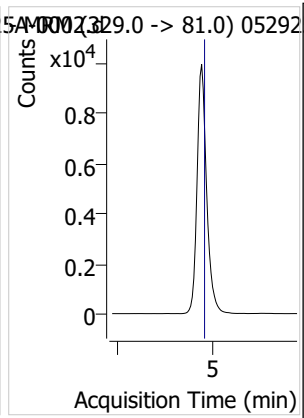


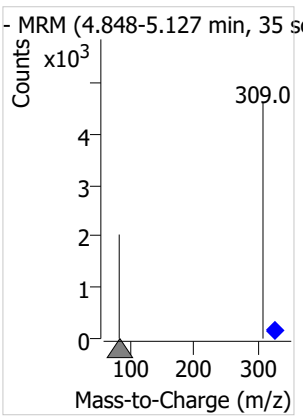
PFHpS



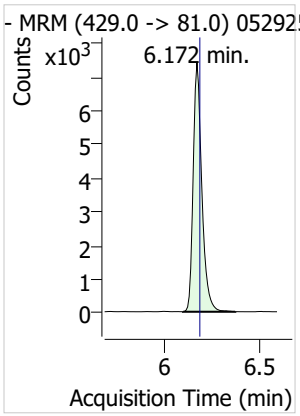
13C2-4:2FTS

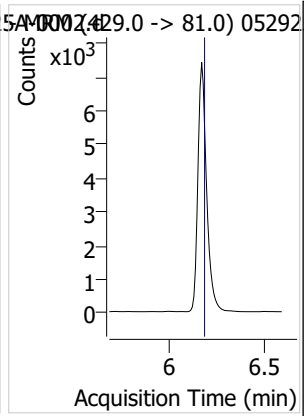


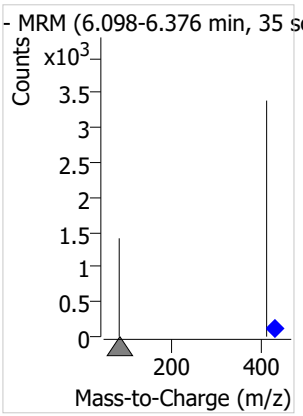




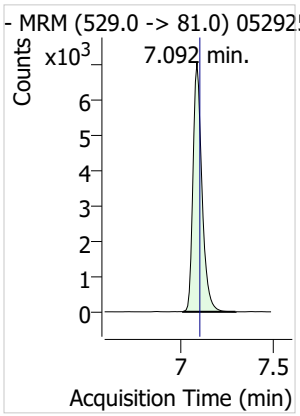
13C2-6:2FTS

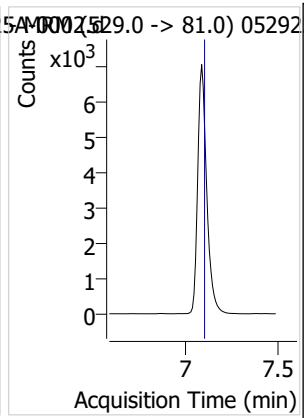


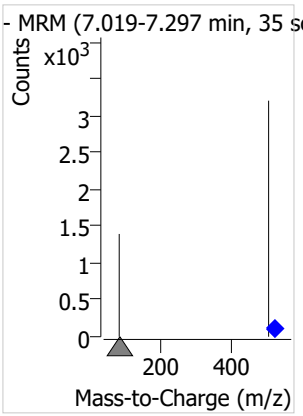




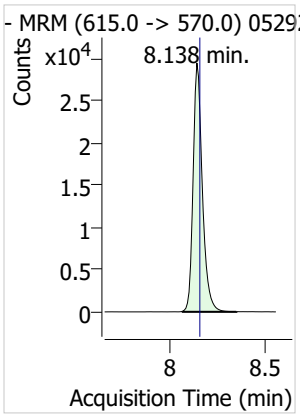
13C2-8:2FTS

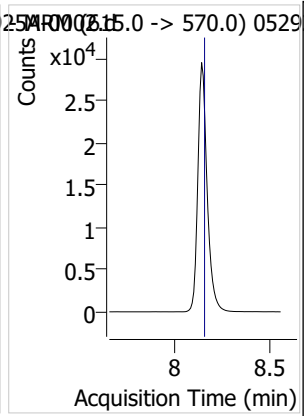


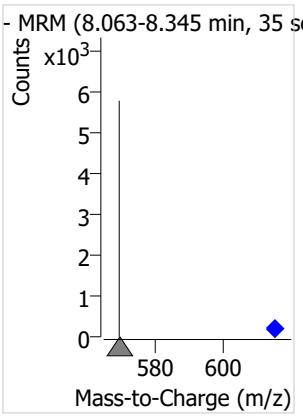




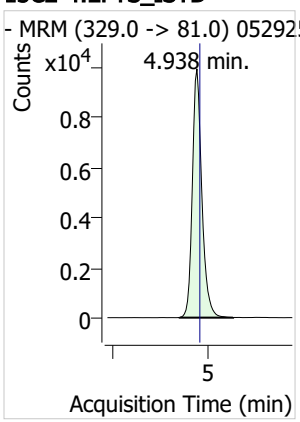
13C2-PFDoA

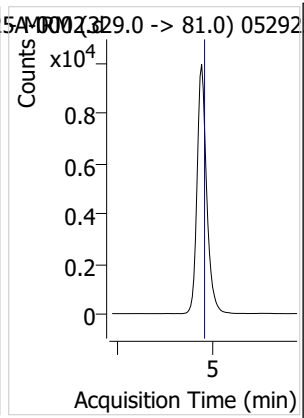


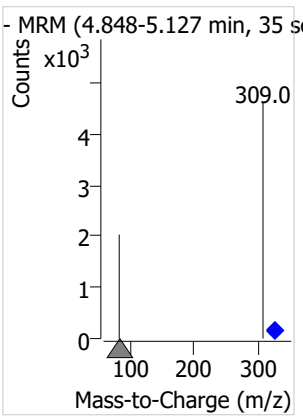




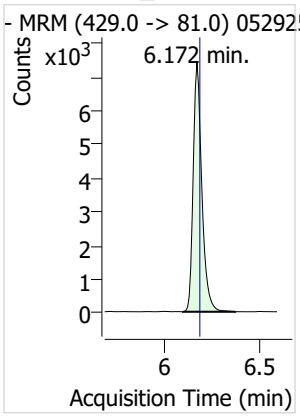
13C2-4:2FTS_ISTD

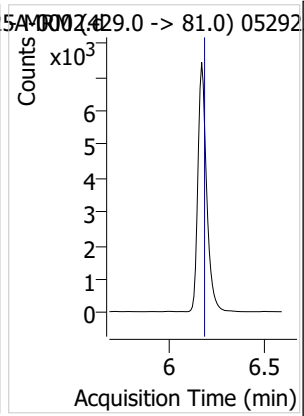


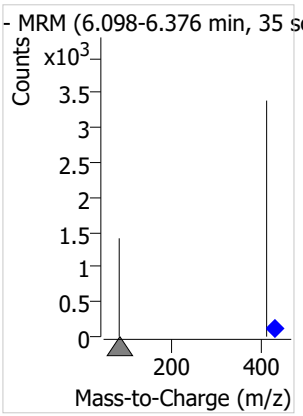




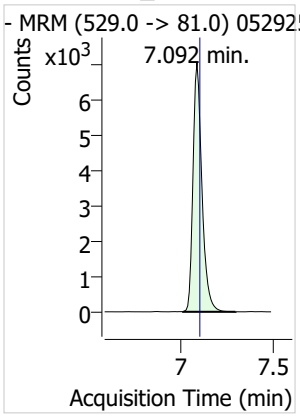
13C2-6:2FTS_ISTD

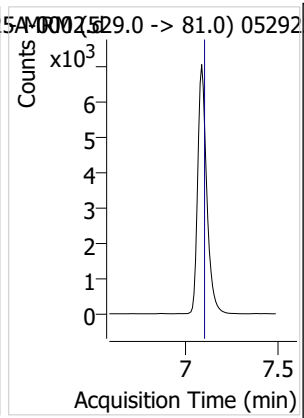


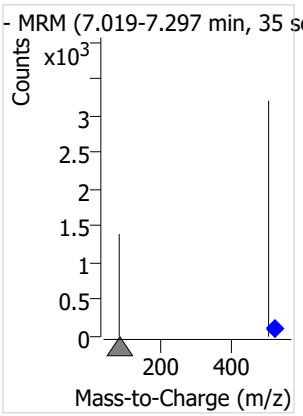




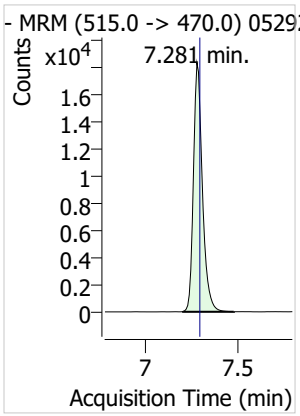
13C2-8:2FTS_ISTD

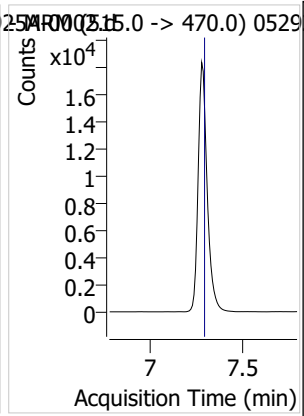


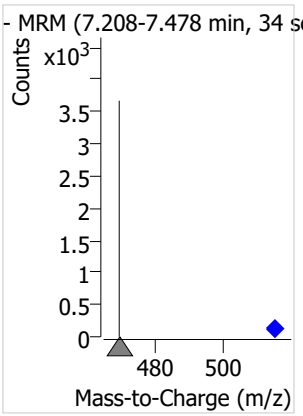




13C2-PFDA



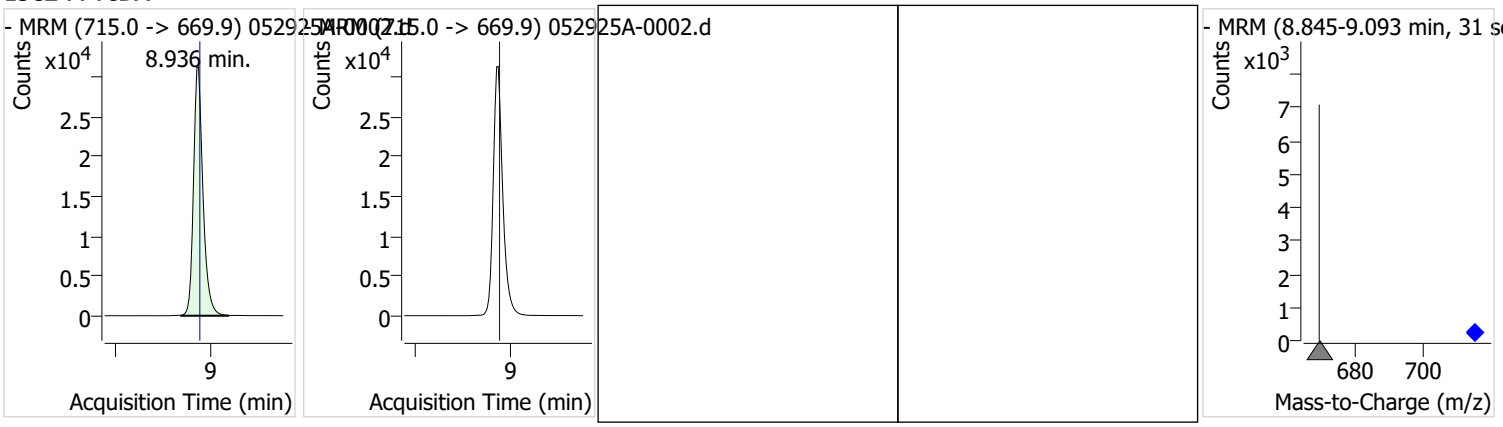




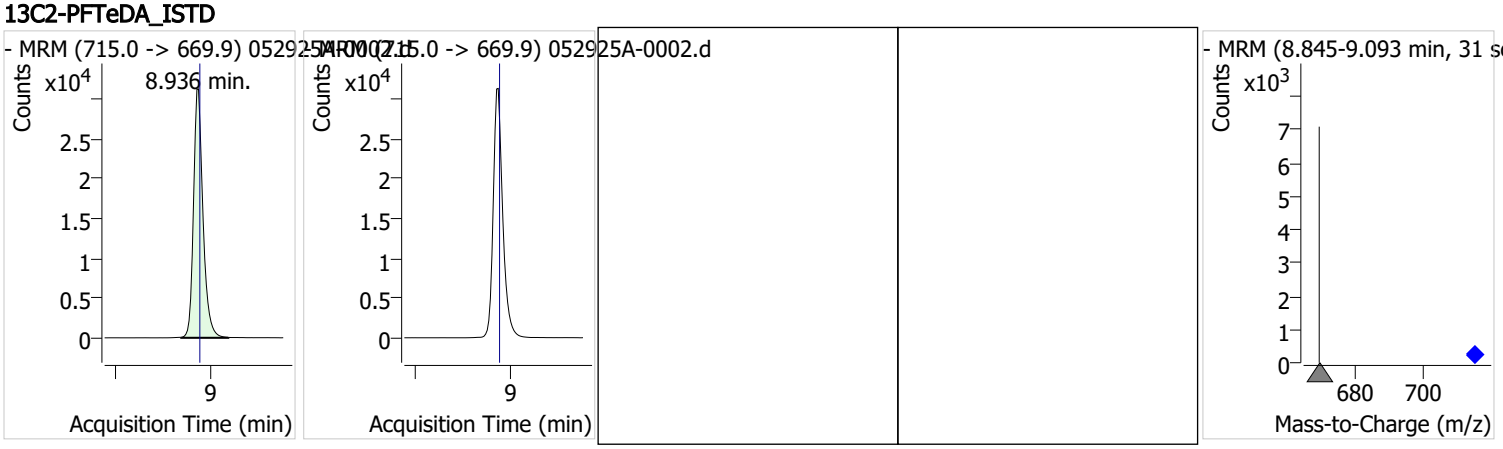
13C2-PFHxA



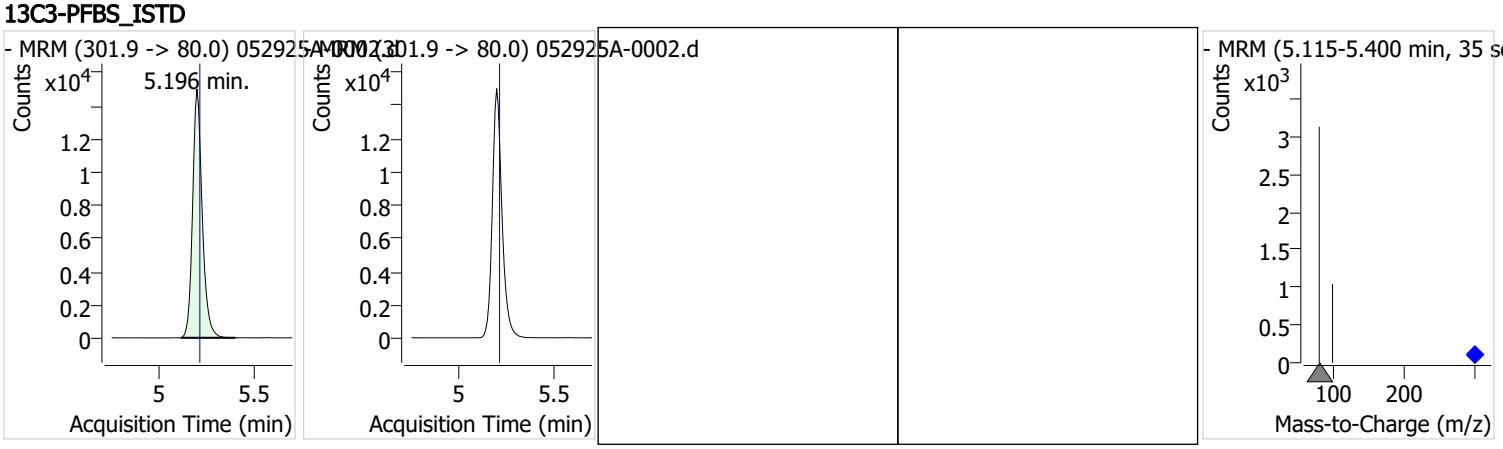
13C2-PFTeDA



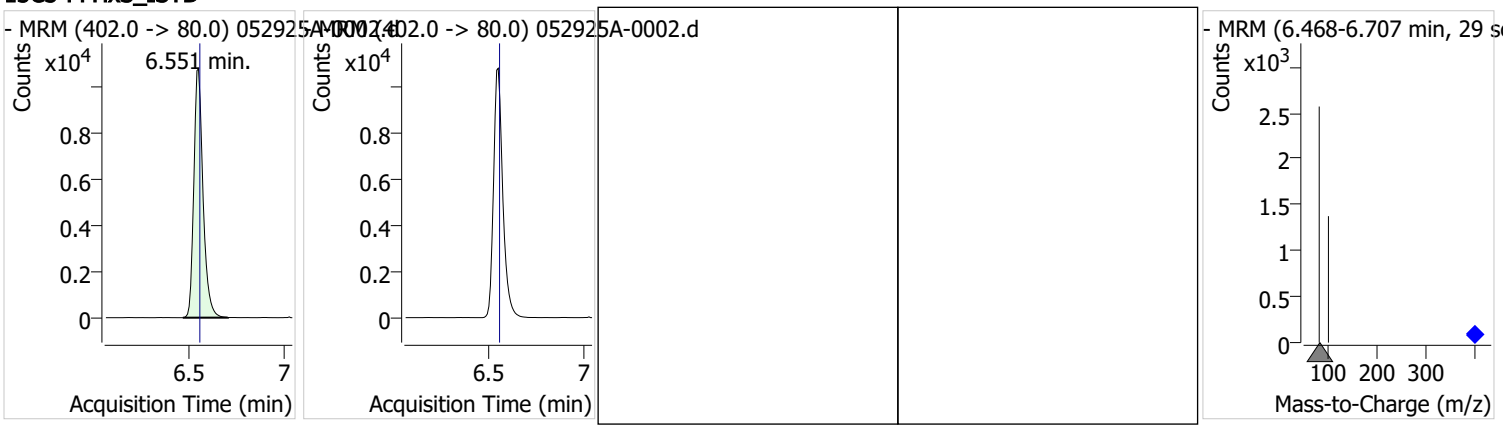
13C2-PFTeDA_ISTD



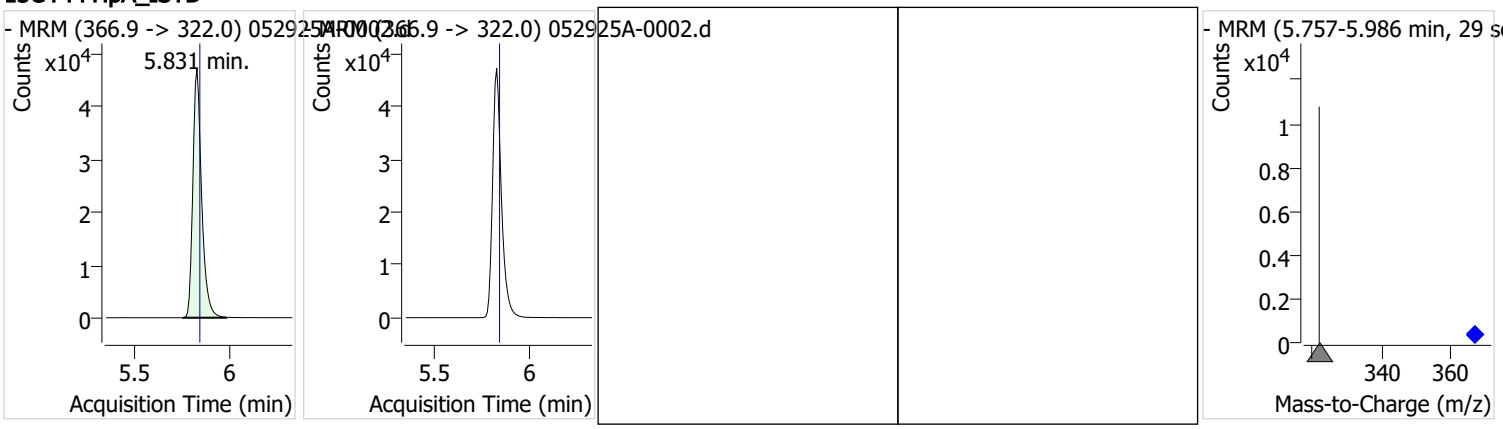
13C3-PFBS_ISTD



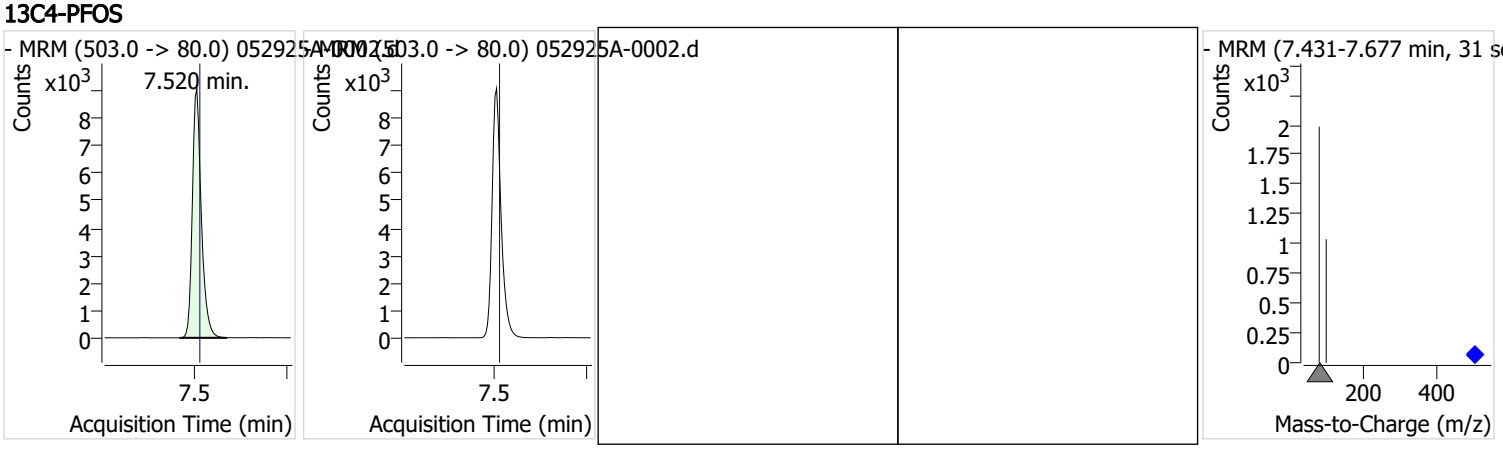
13C3-PFHxS_ISTD



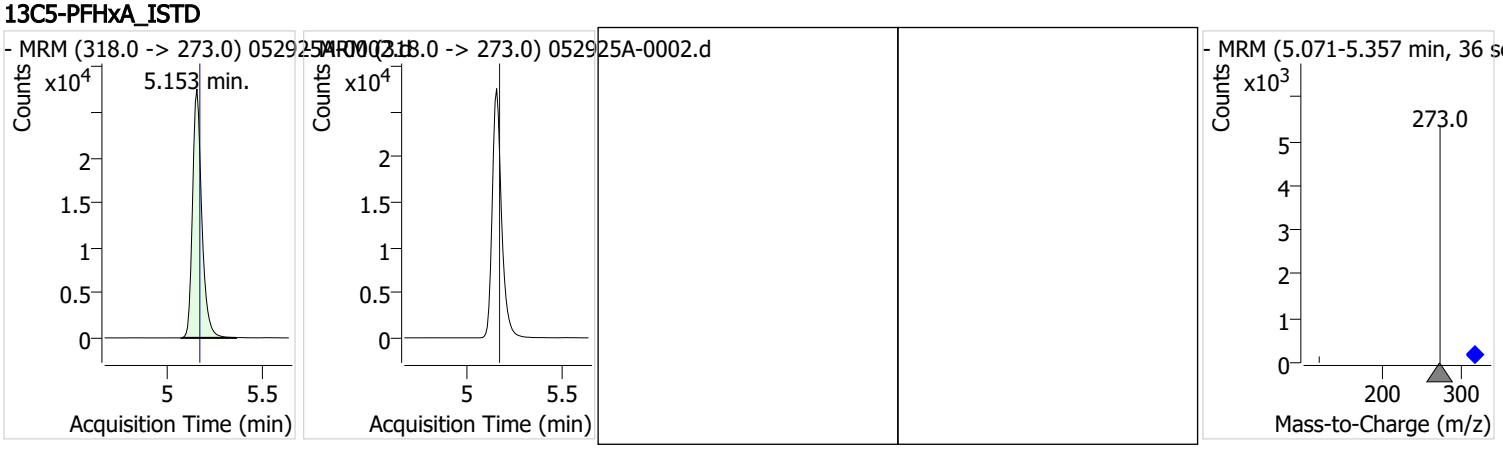
13C4-PFHpA_ISTD



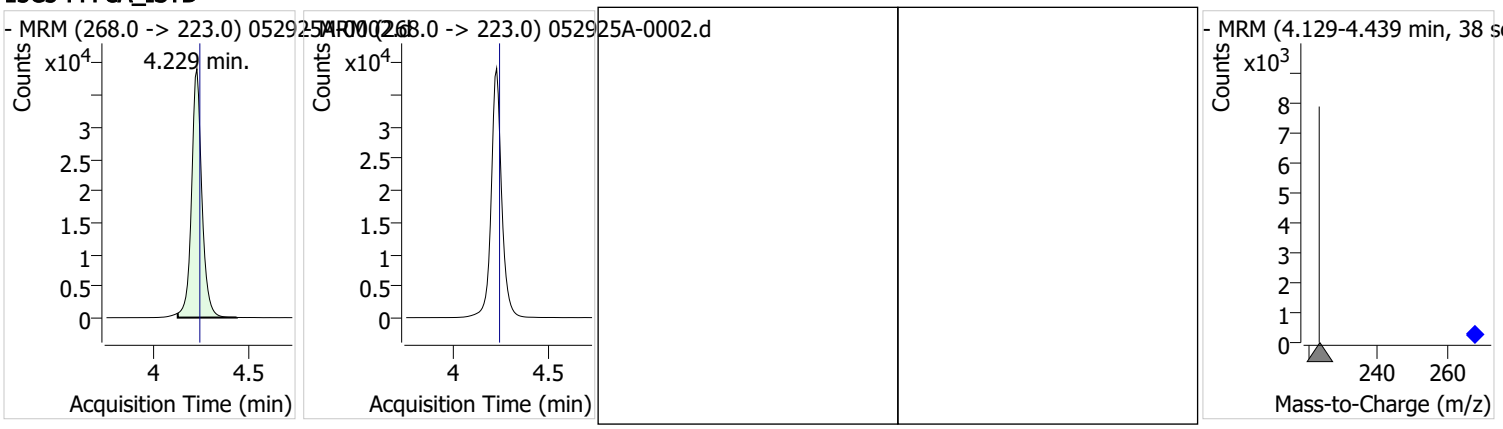
13C4-PFOS



13C5-PFHxA_ISTD



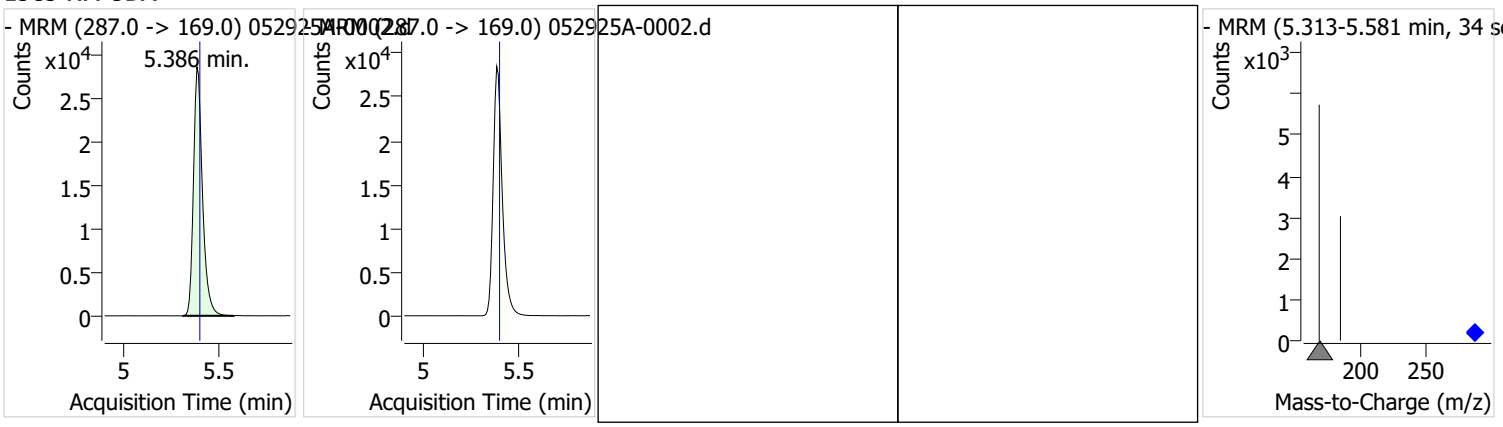
13C5-PFPeA_ISTD



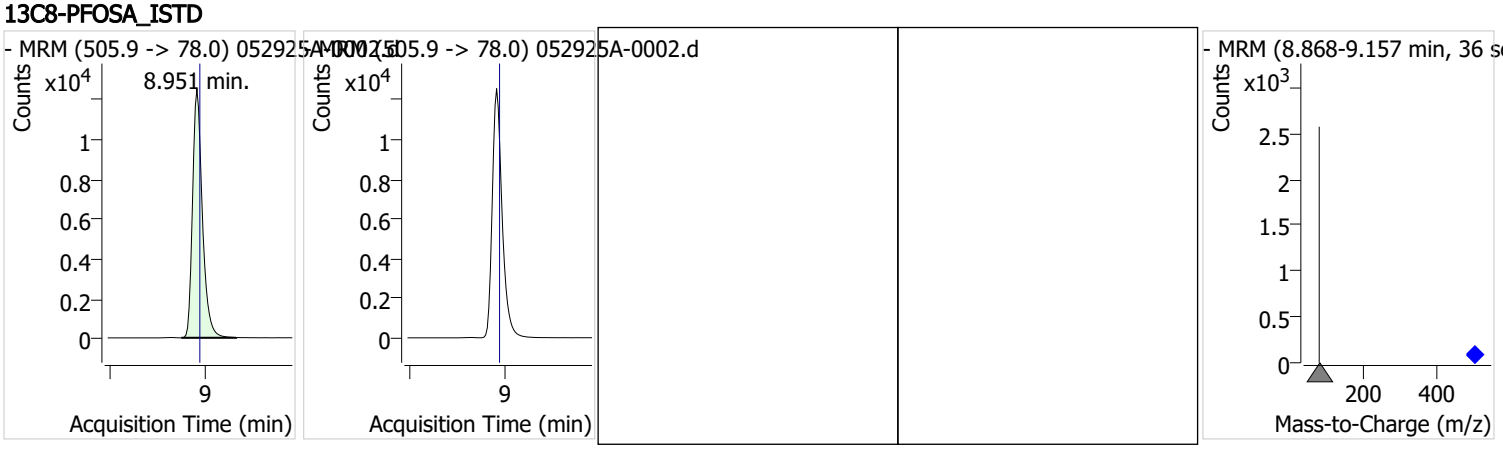
13C6-PFDA_ISTD



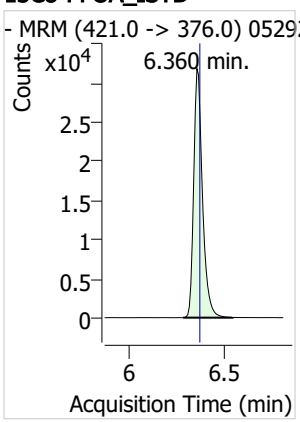
13C3-HFPODA

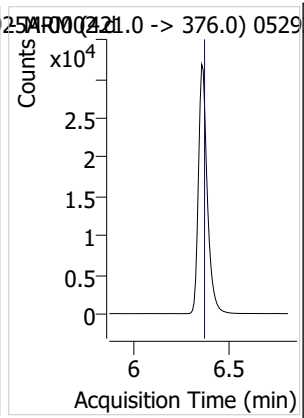


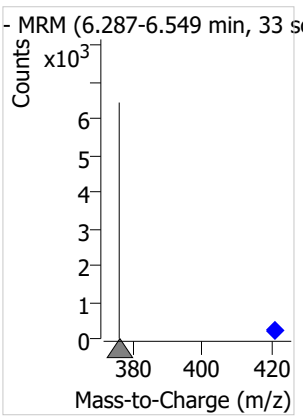
13C8-PFOSA_ISTD



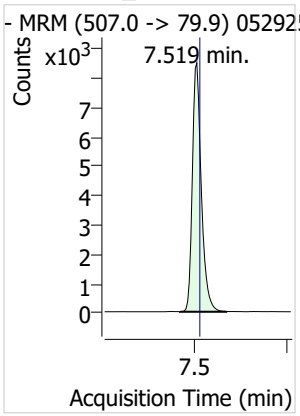
13C8-PFOA_ISTD

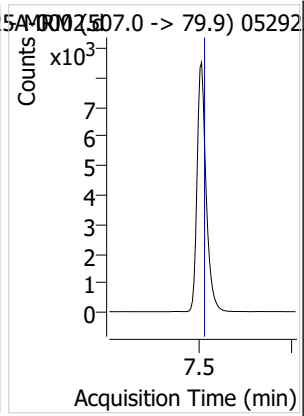


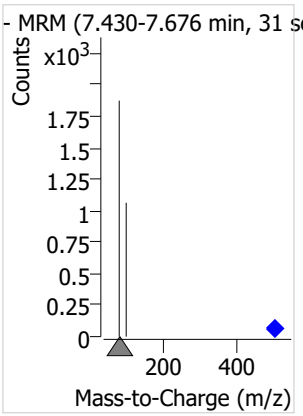




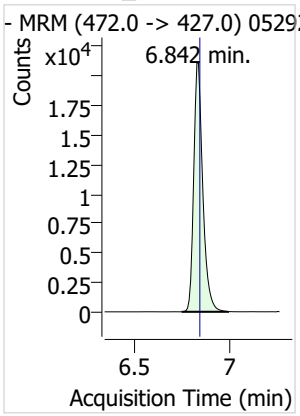
13C8-PFOS_ISTD

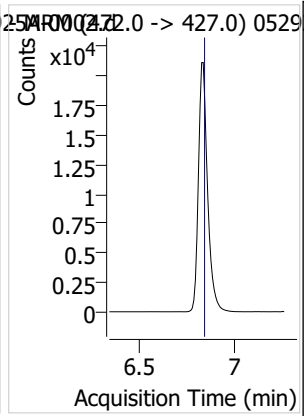


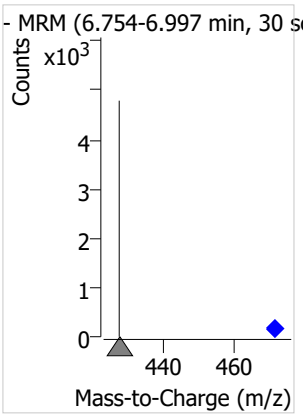




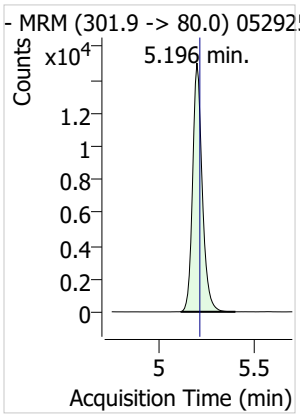
13C9-PFNA_ISTD

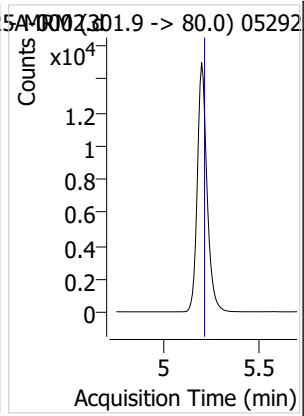


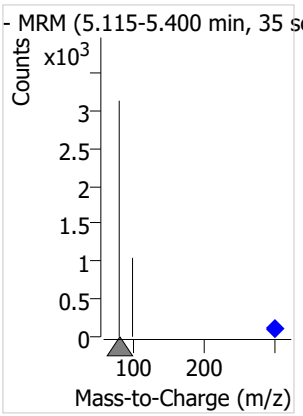




13C3-PFBS



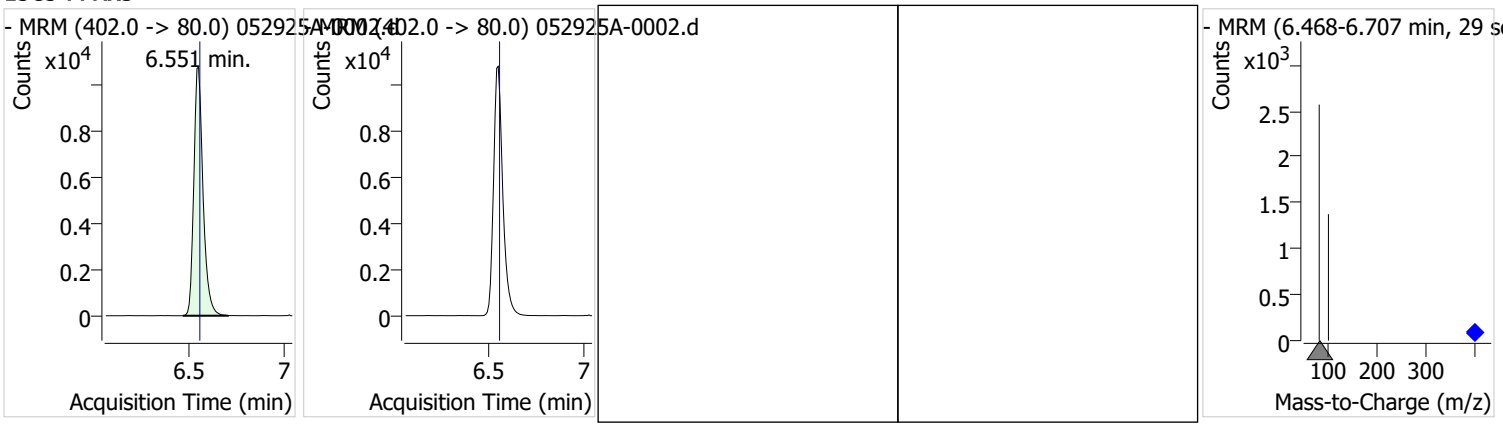




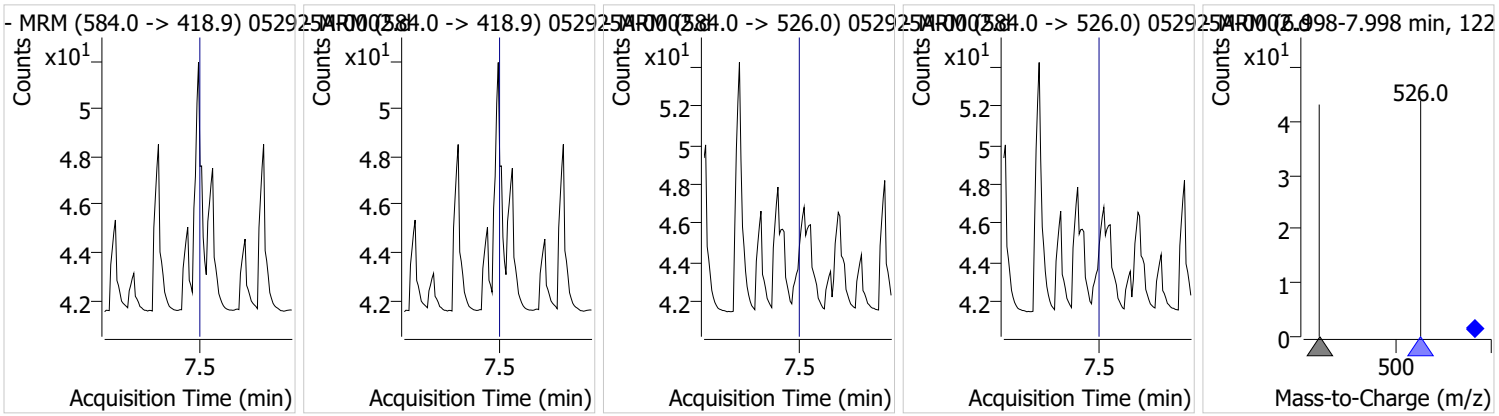
13C2-PFDoA_ISTD



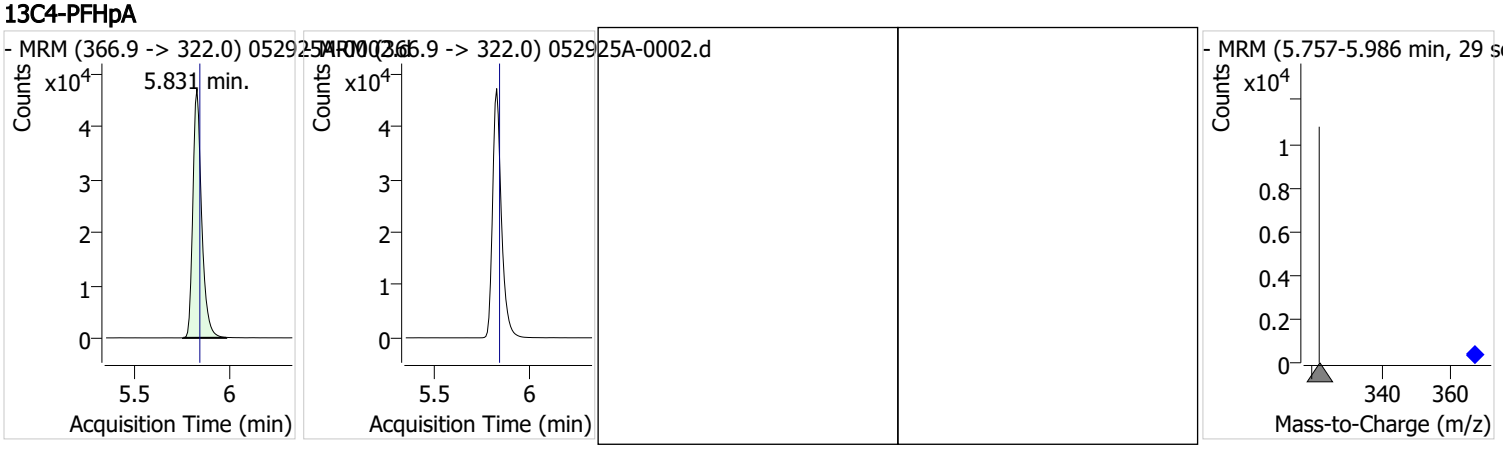
13C3-PFHxS



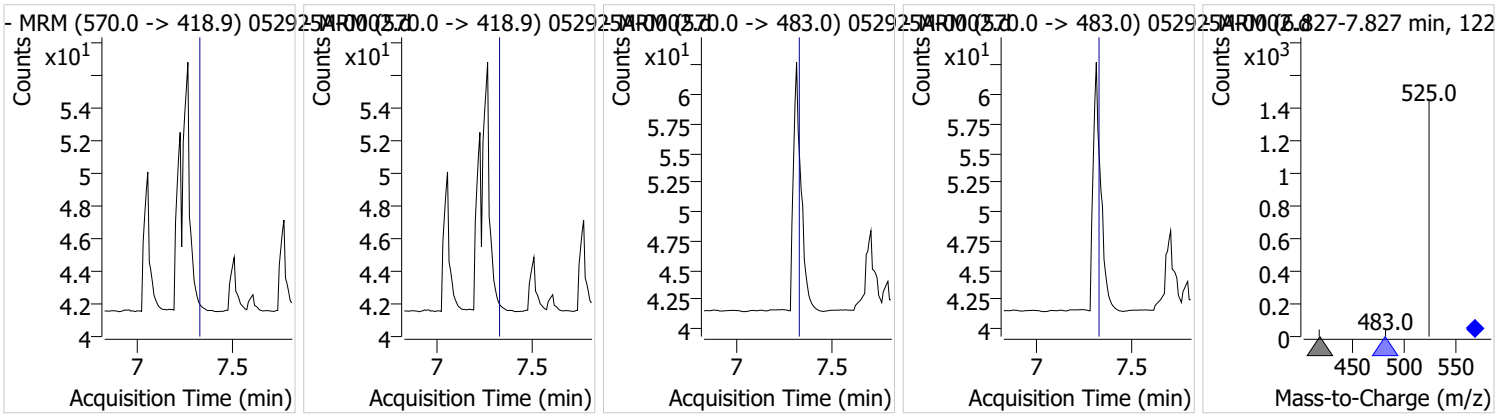
NEtFOSAA



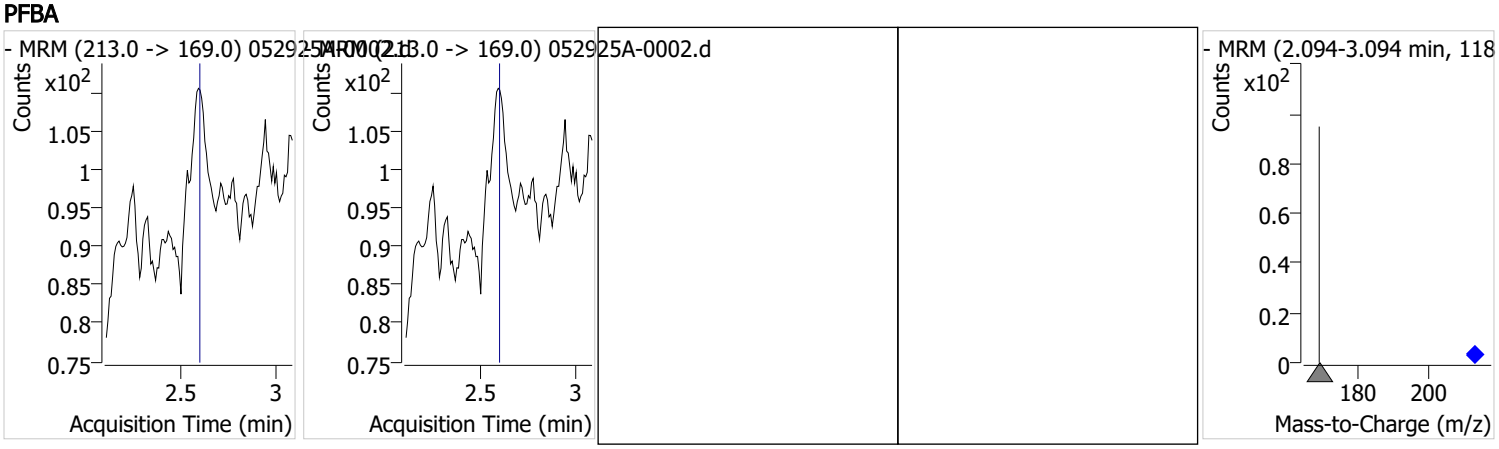
13C4-PFHpA



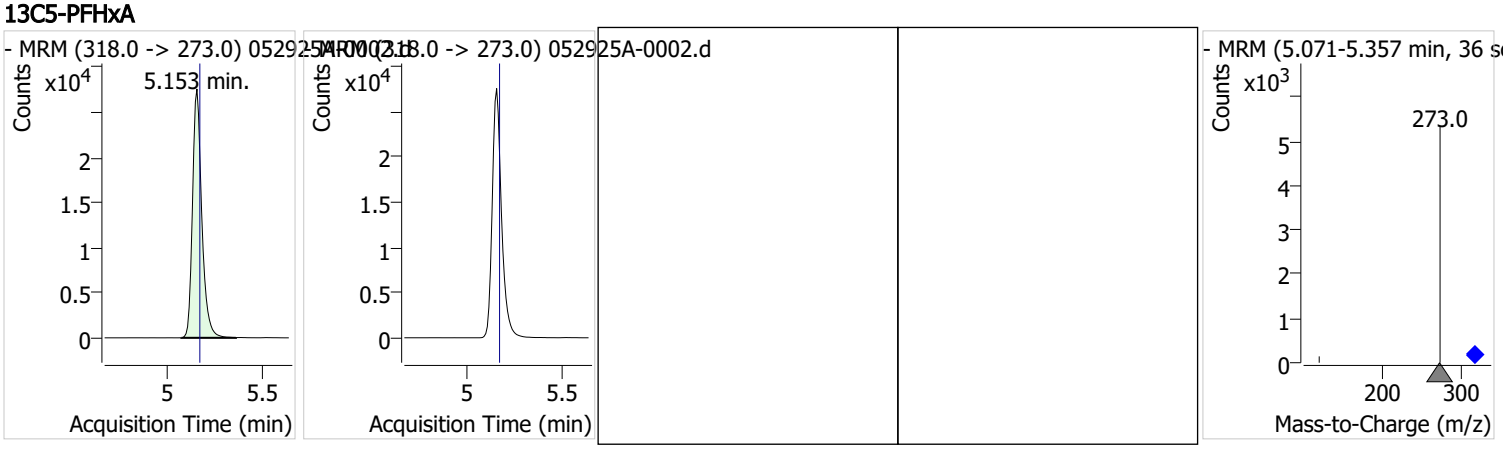
NMeFOSAA



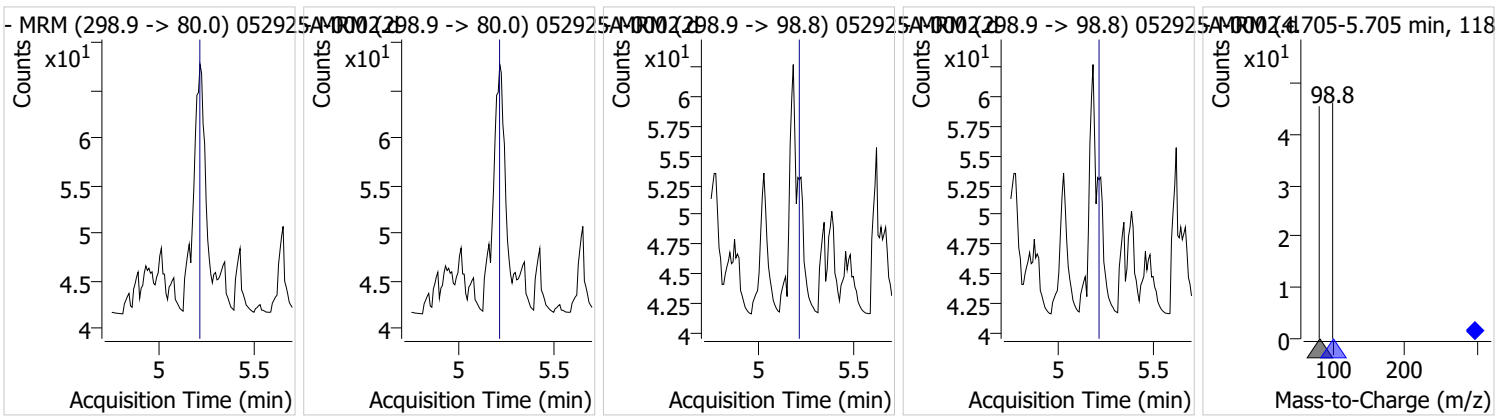
PFBA



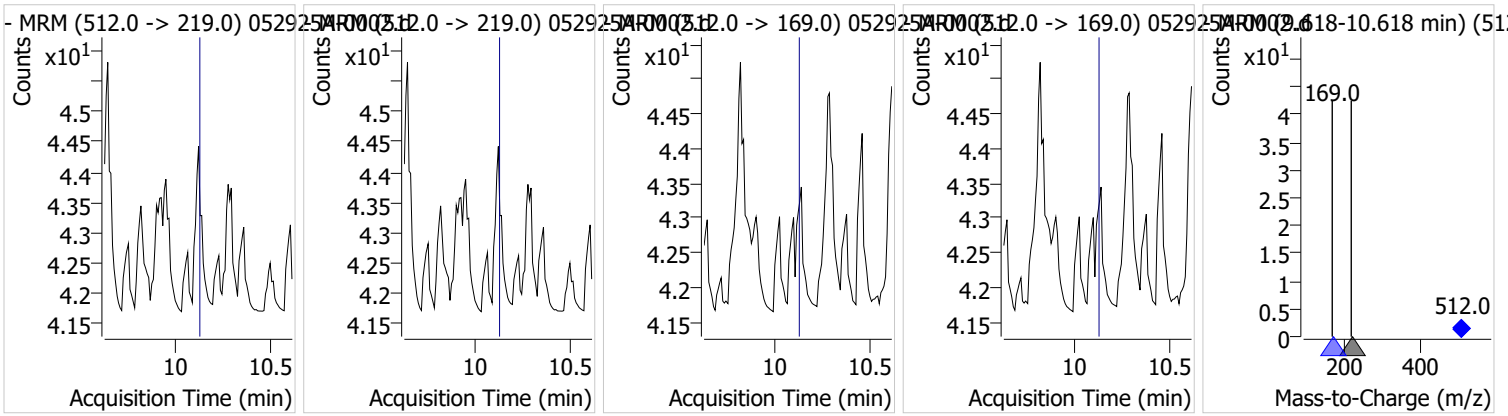
13C5-PFHxA



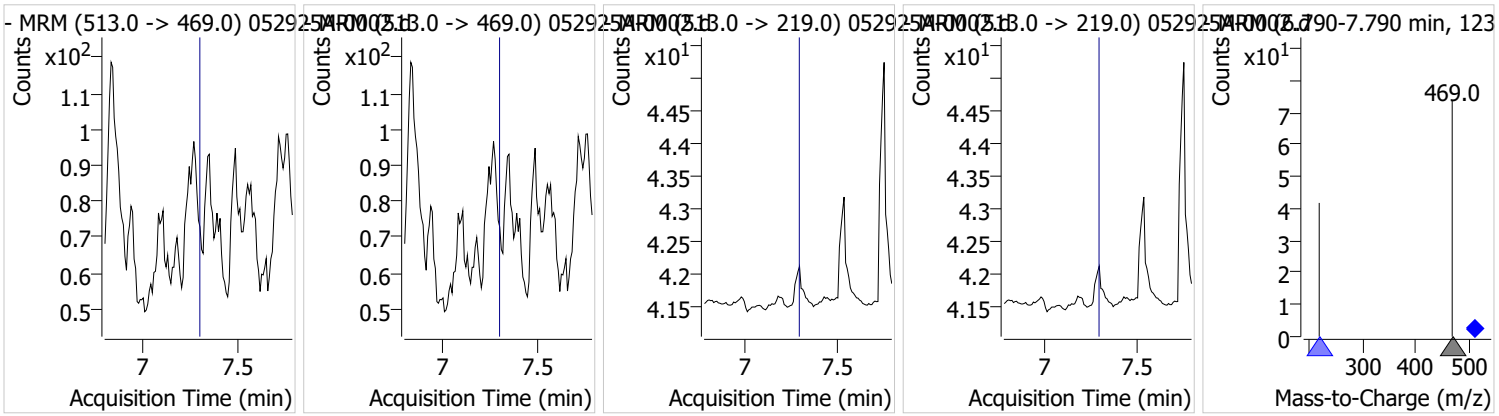
PFBS



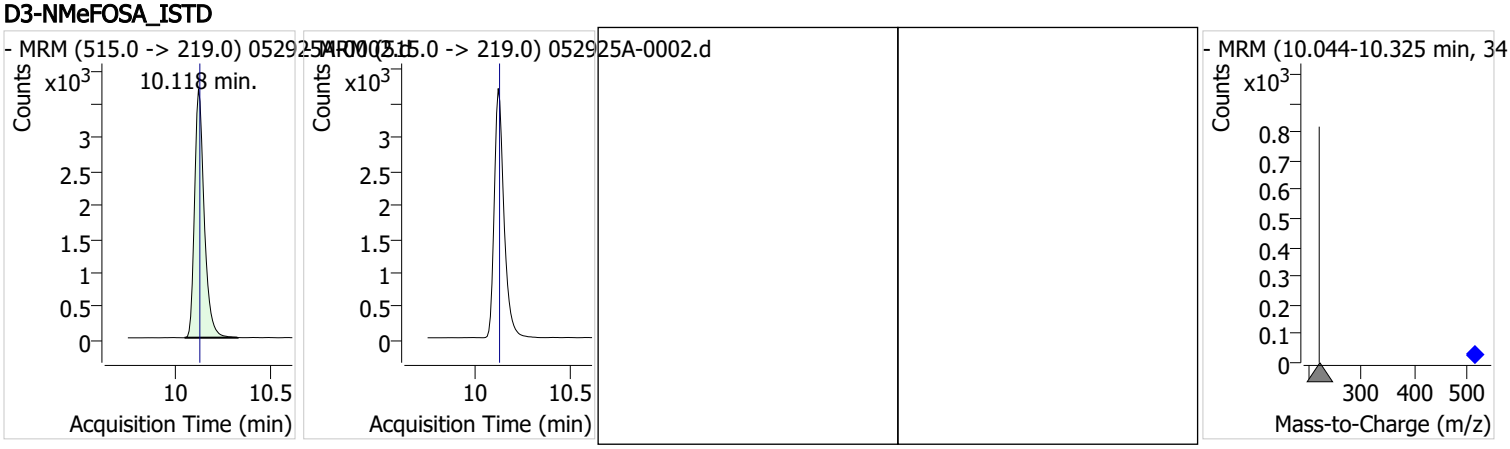
NMeFOSA



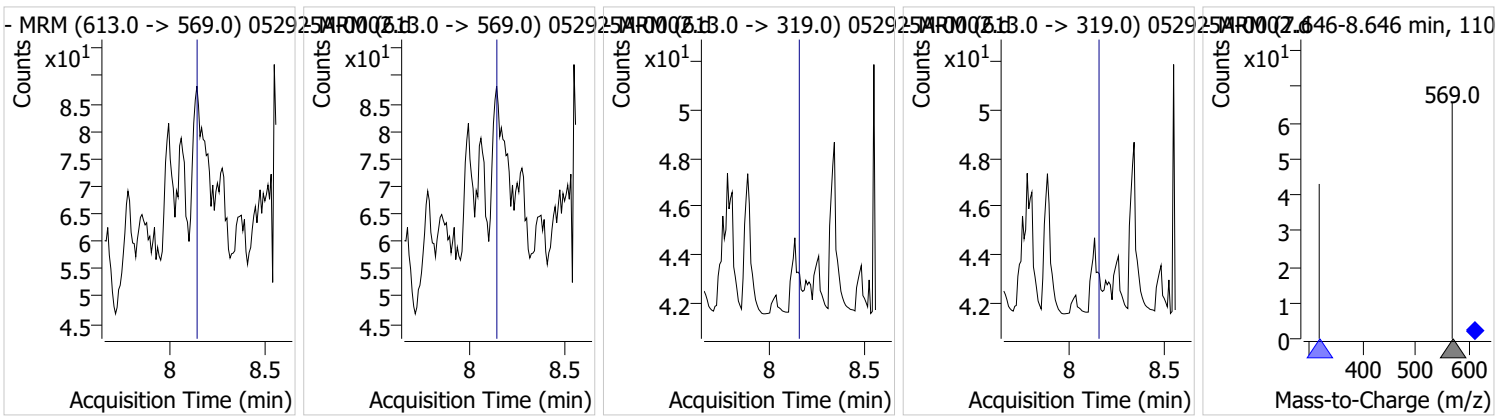
PFDA



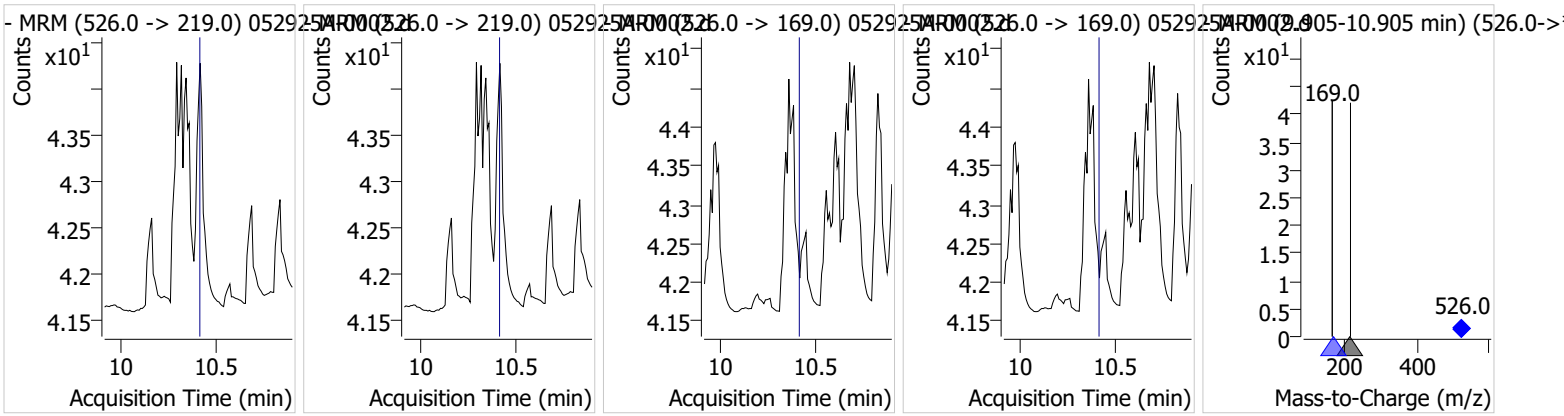
D3-NMeFOSA_ISTD



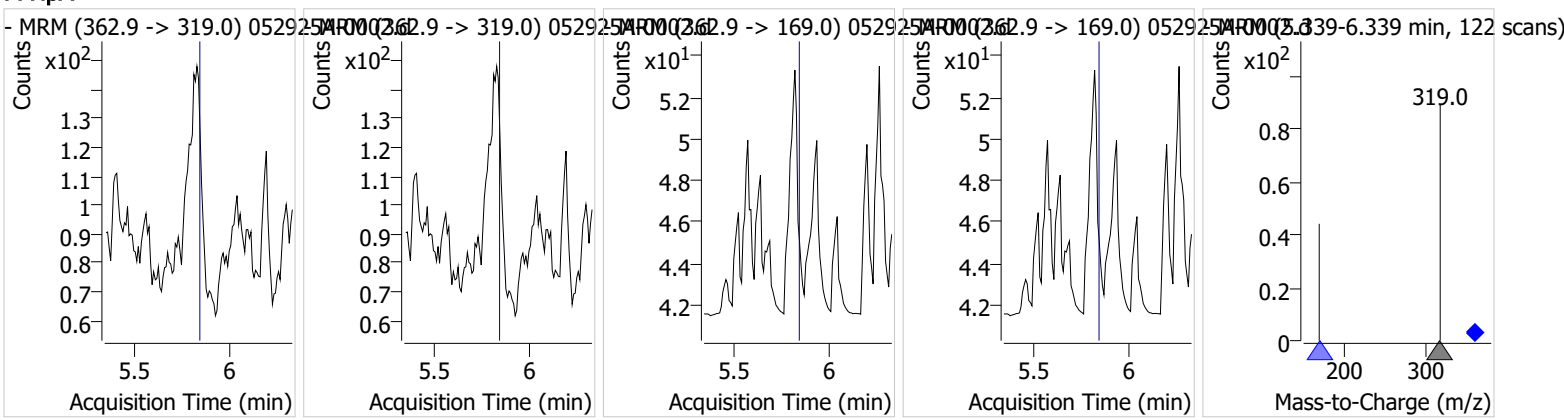
PFDoA



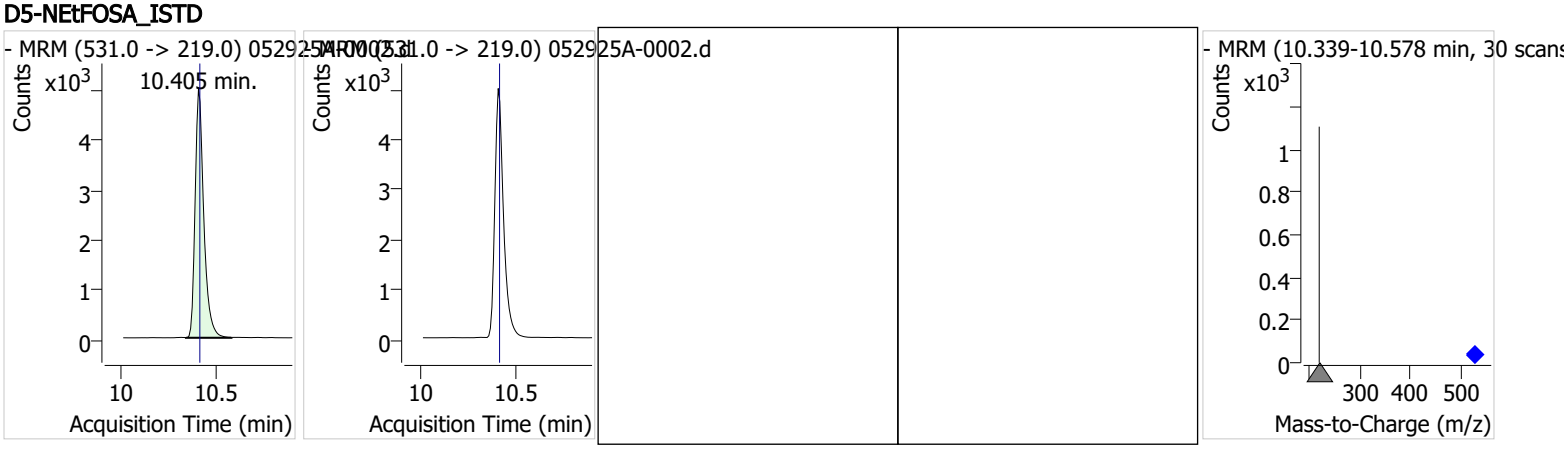
NEtFOSA



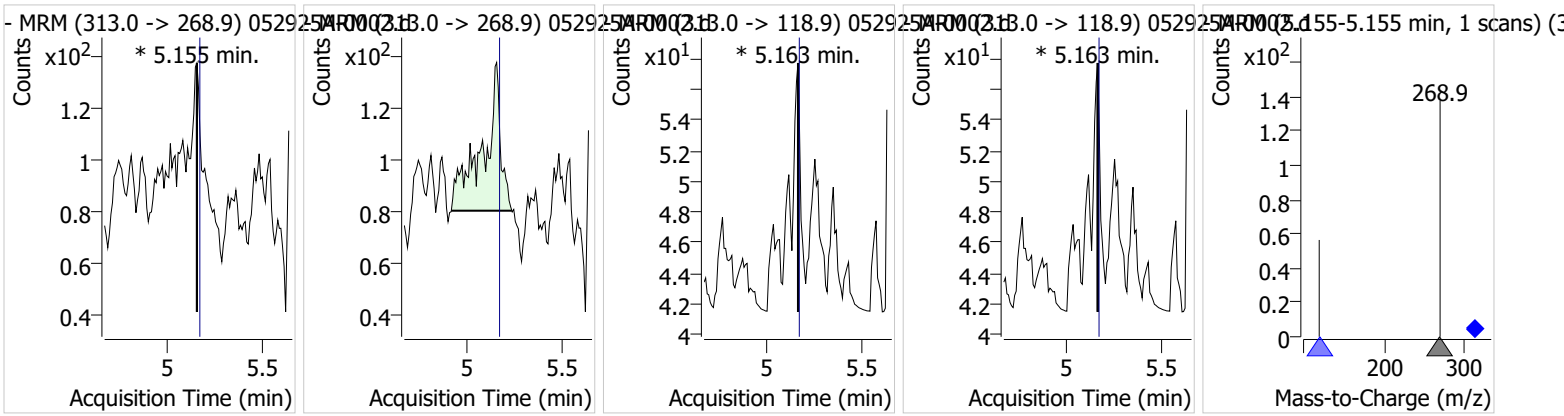
PFHpA



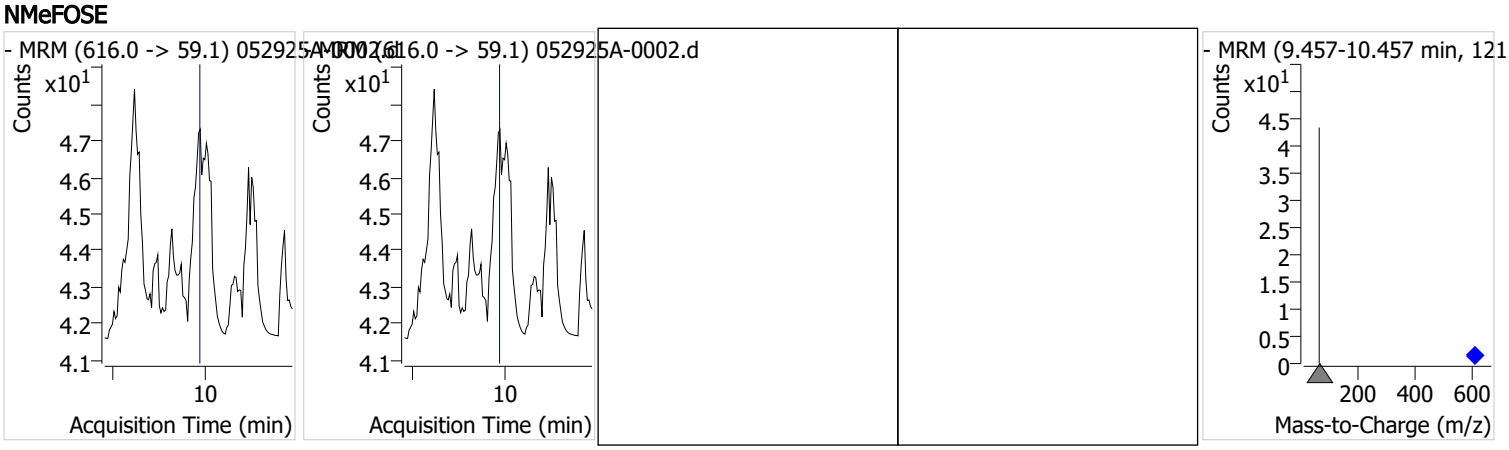
D5-NEtFOSA_ISTD



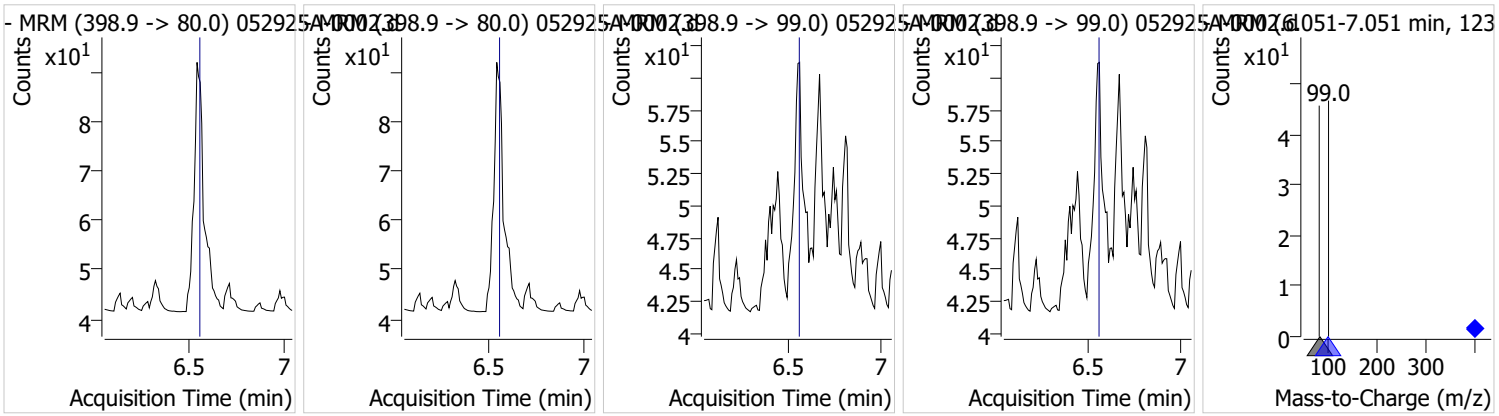
PFHxA



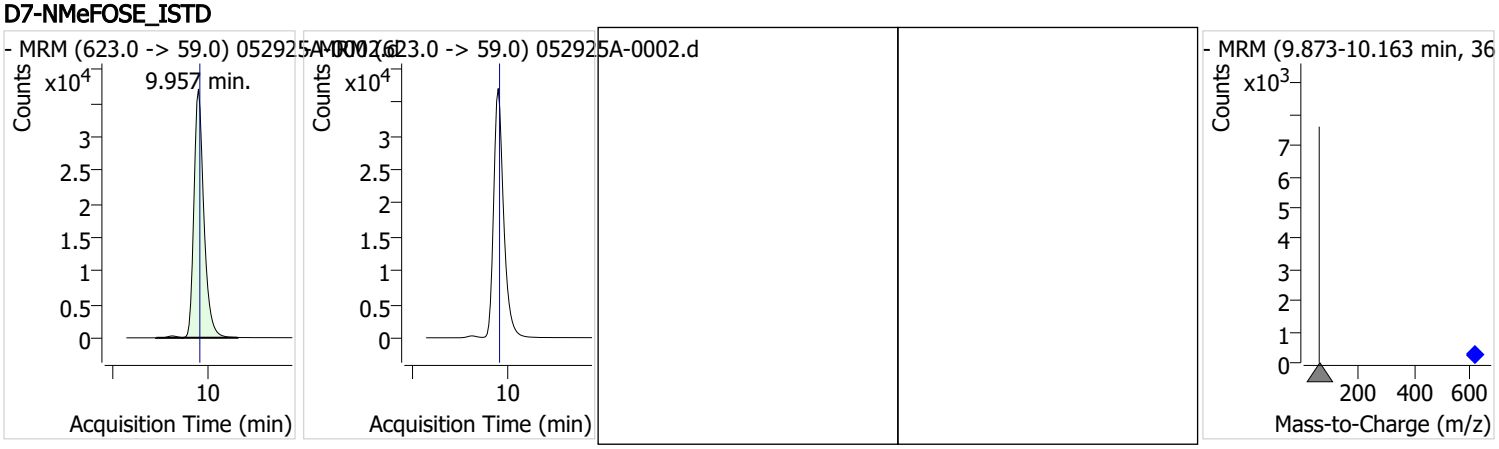
NMeFOSE



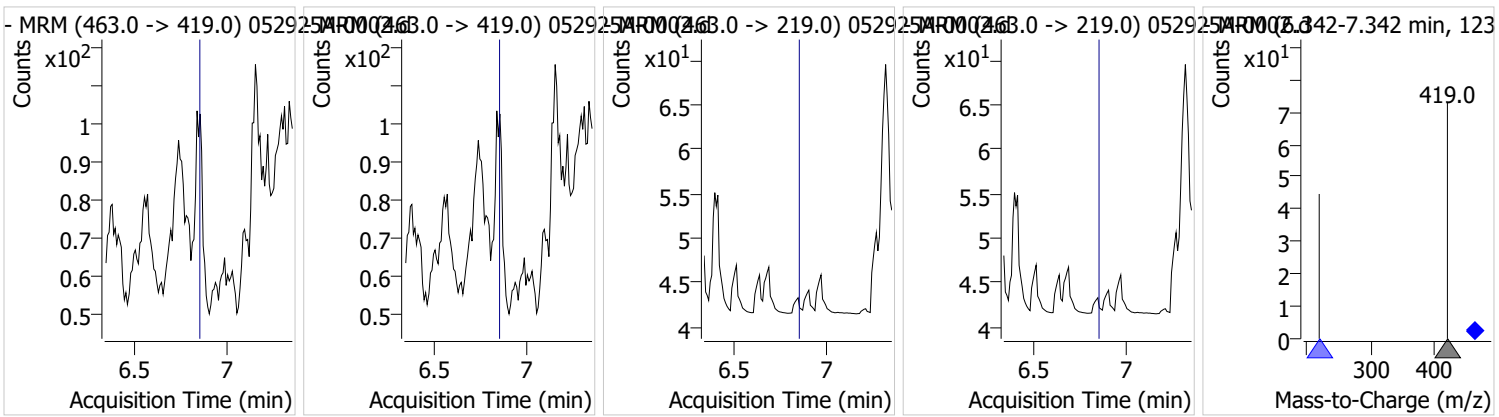
PFHxS



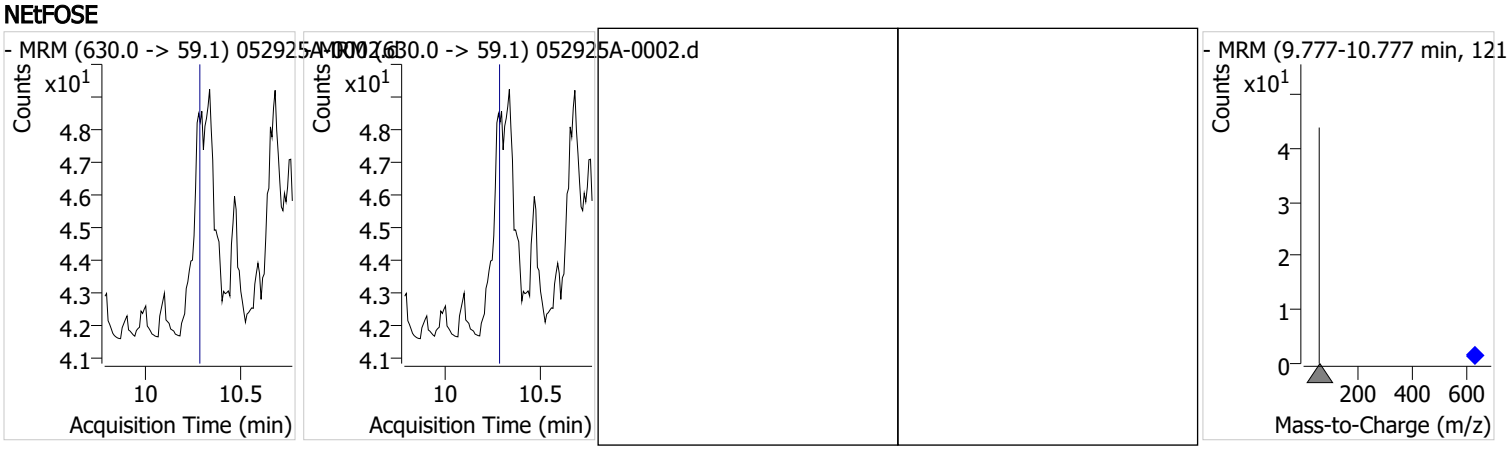
D7-NMeFOSE_ISTD



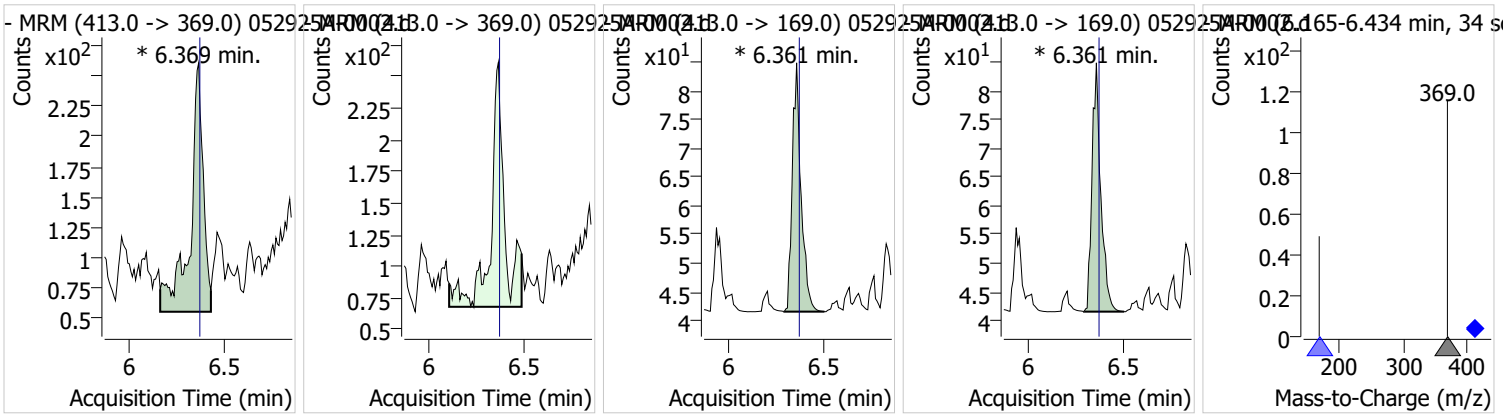
PFNA



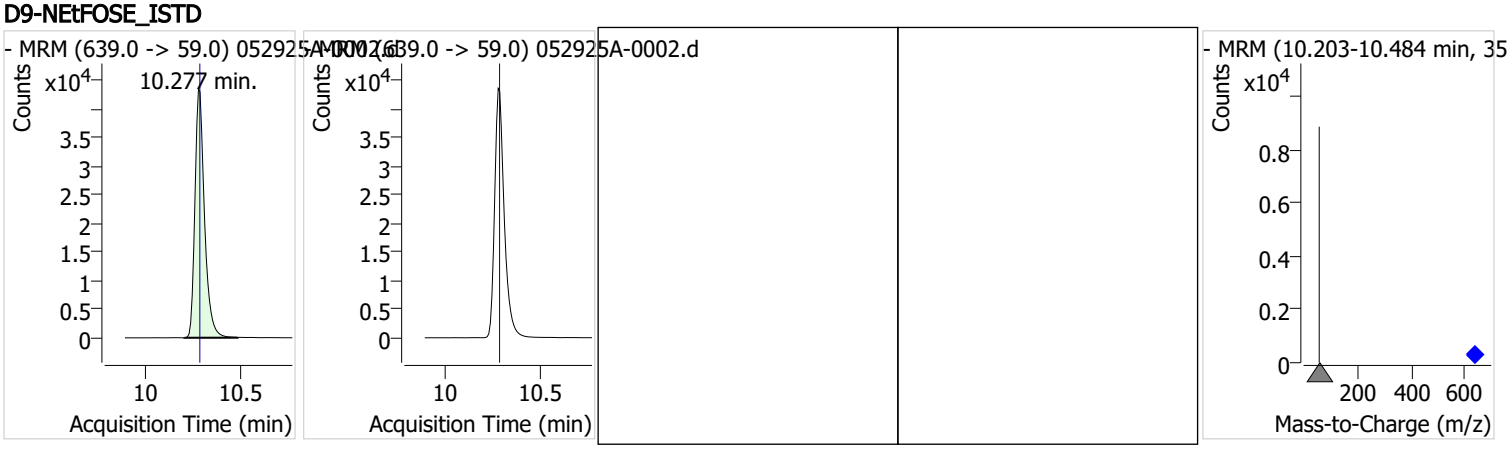
NEtFOSE



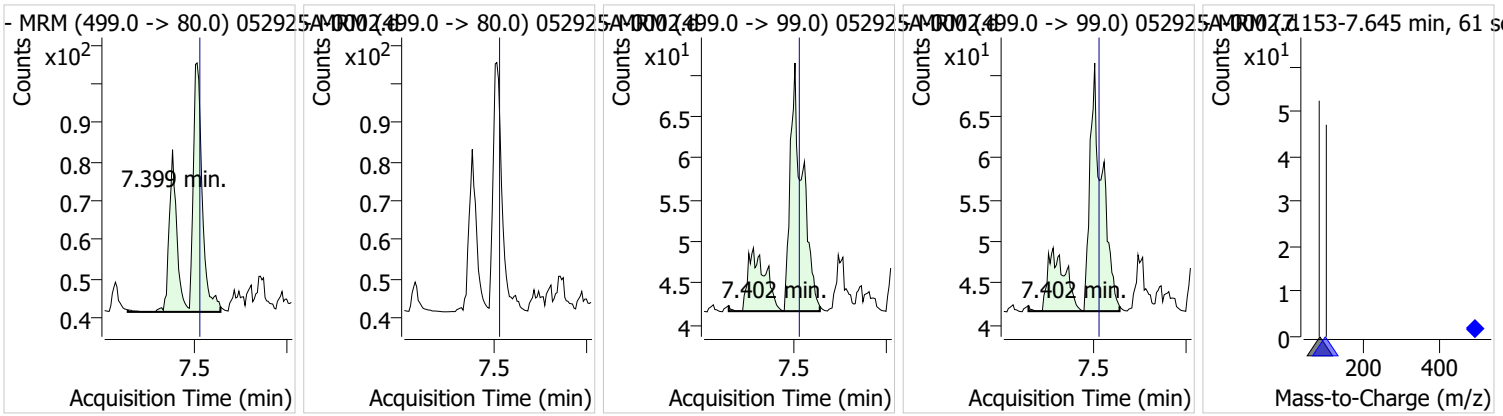
PFOA



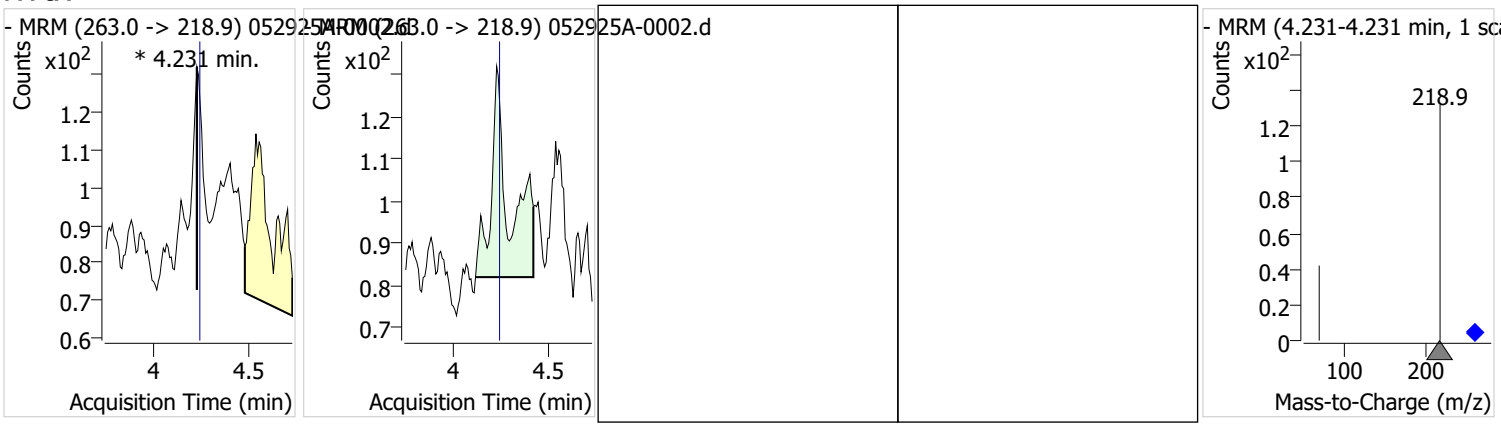
D9-NEtFOSE_ISTD



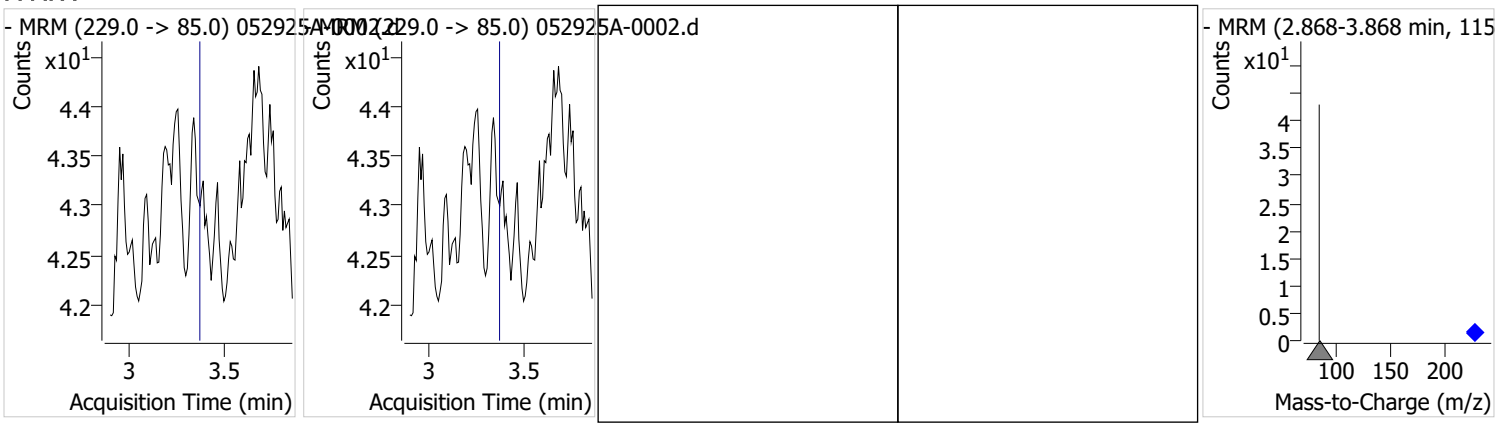
PFOS



PFPeA



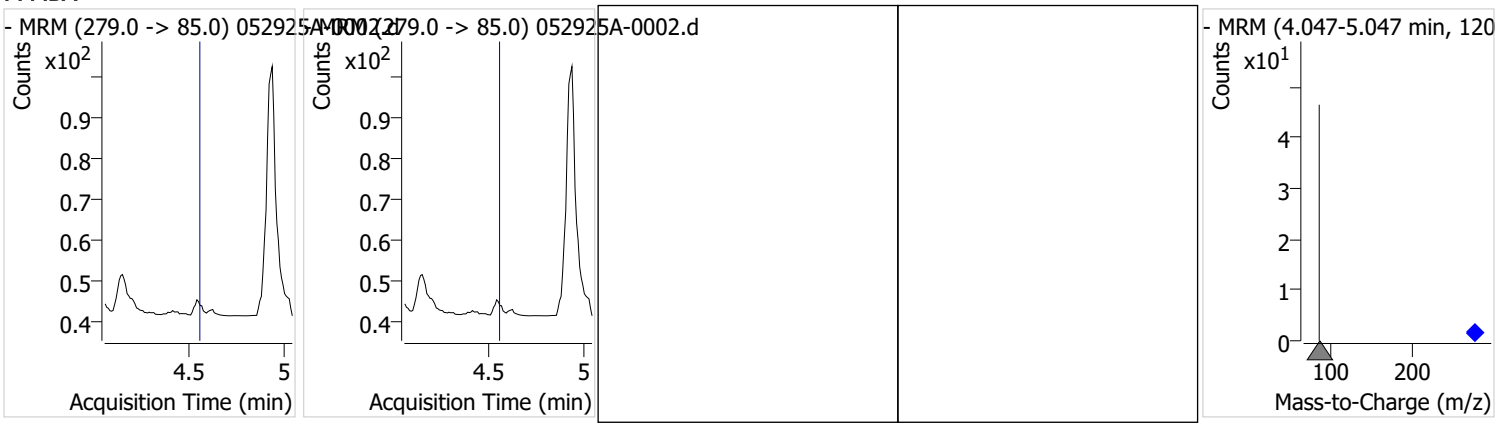
PFMPA



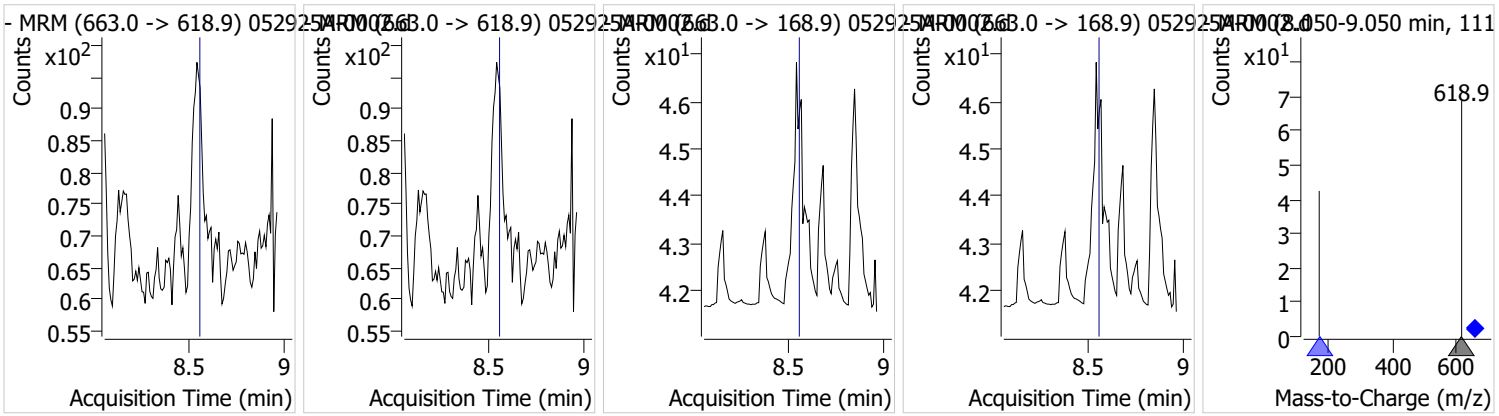
13C5-PFPeA



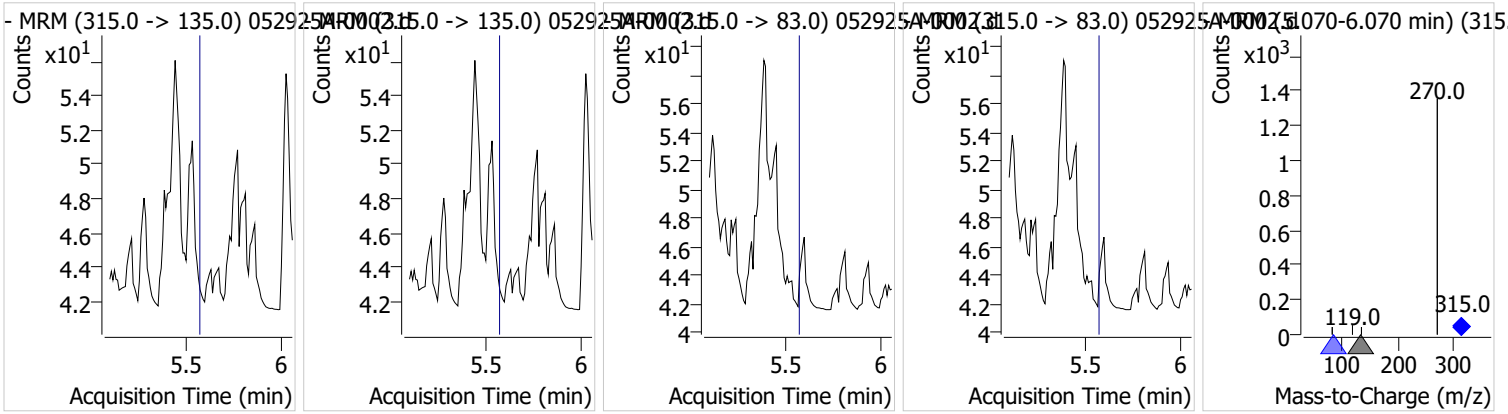
PFMBA



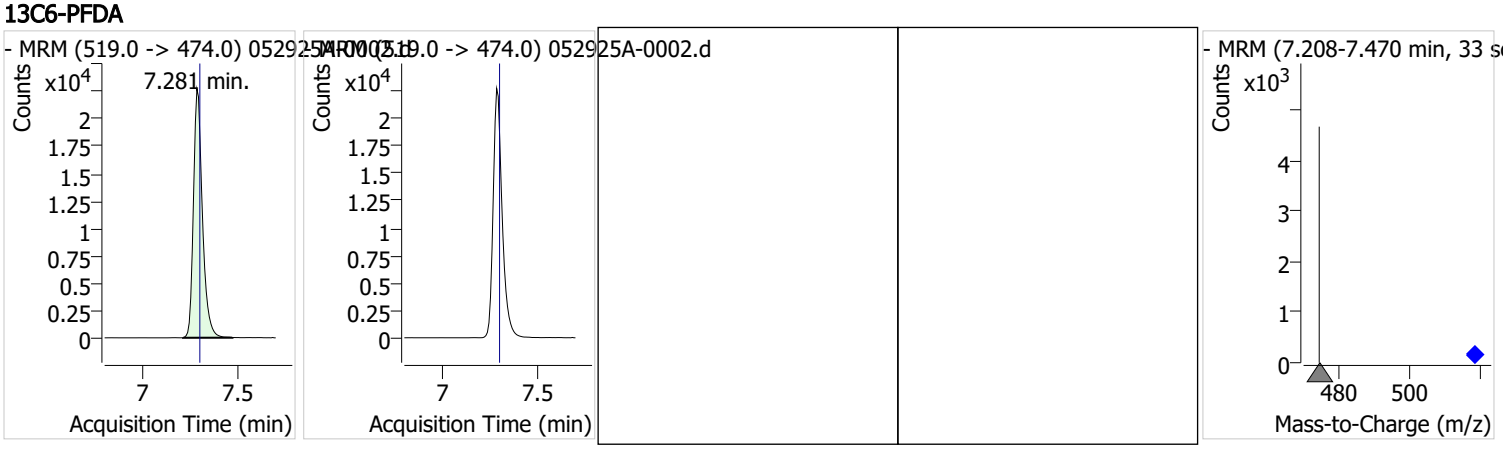
PFTrDA



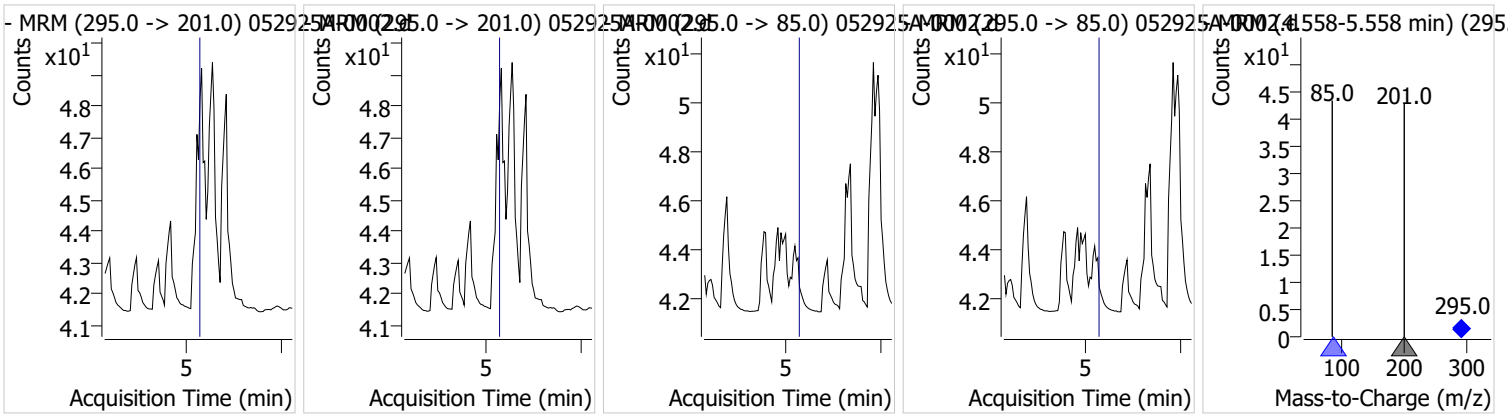
PFEESA



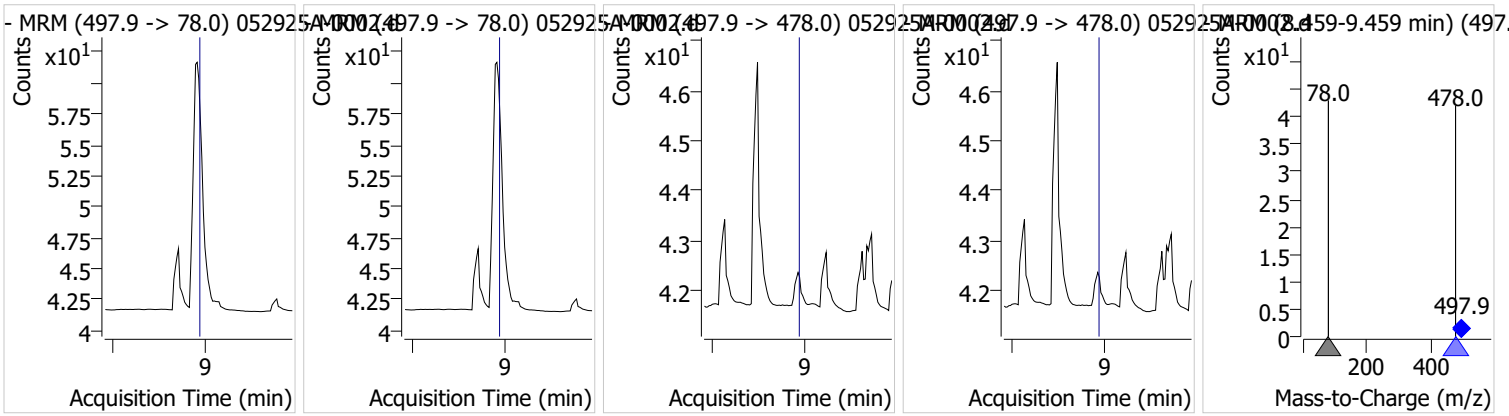
13C6-PFDA



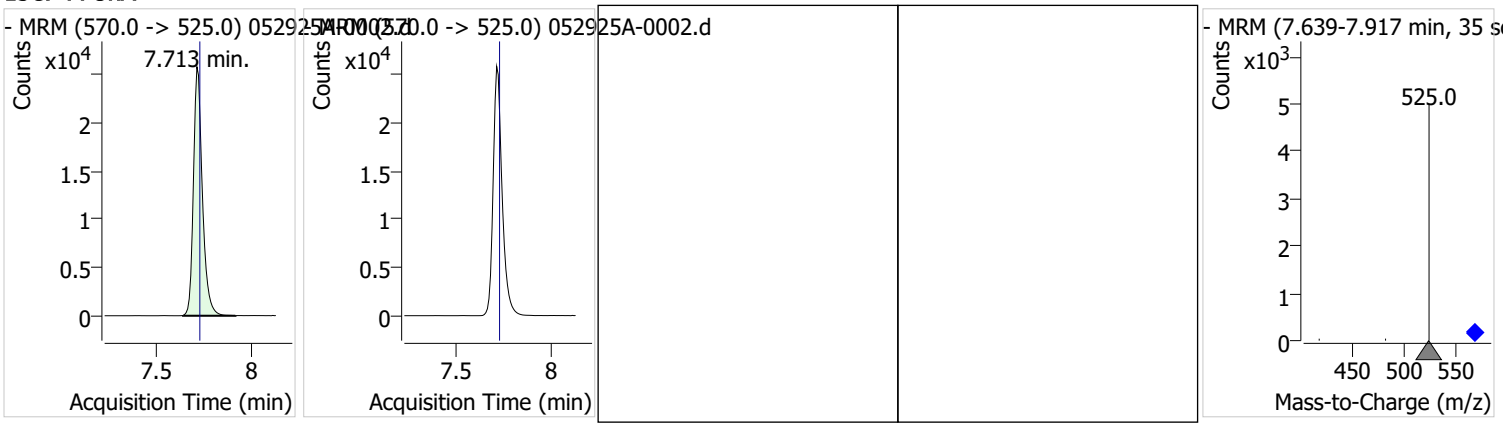
NFDHA



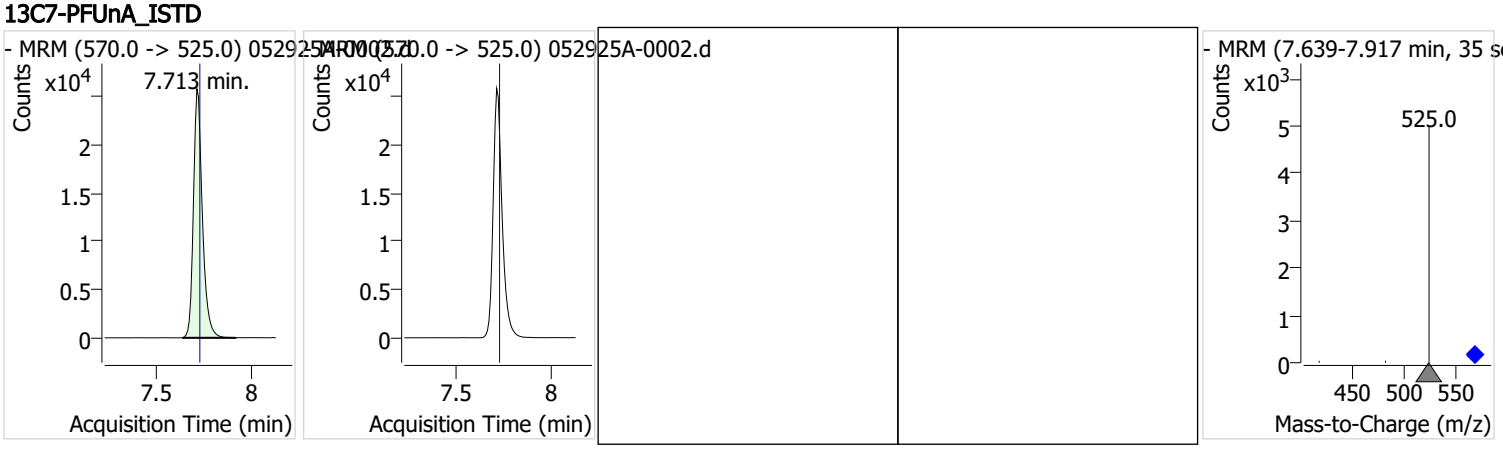
PFOSA



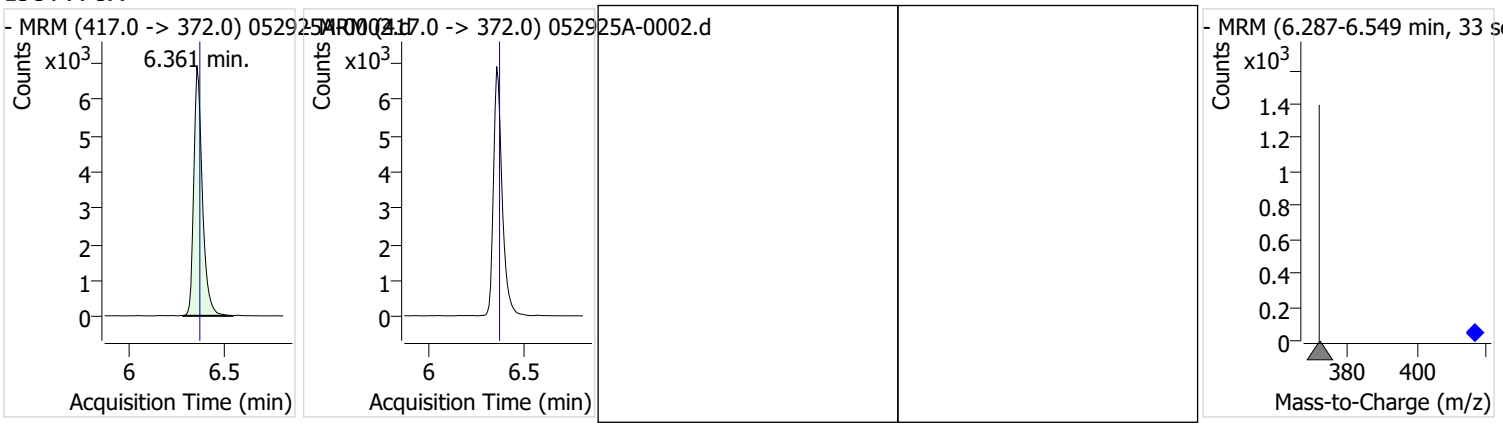
13C7-PFUnA



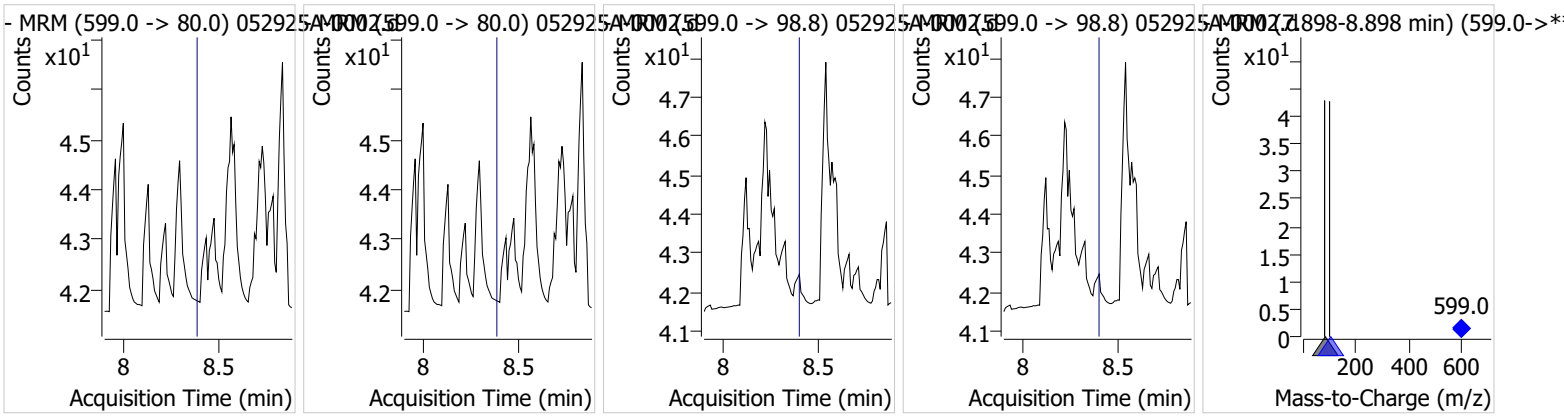
13C7-PFUnA_ISTD



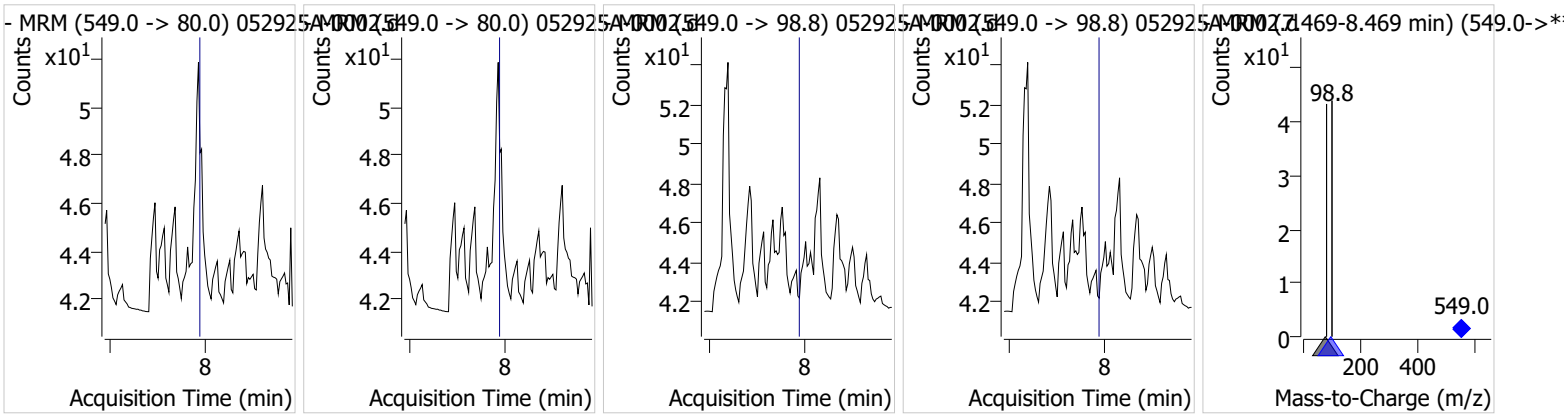
13C4-PFOA



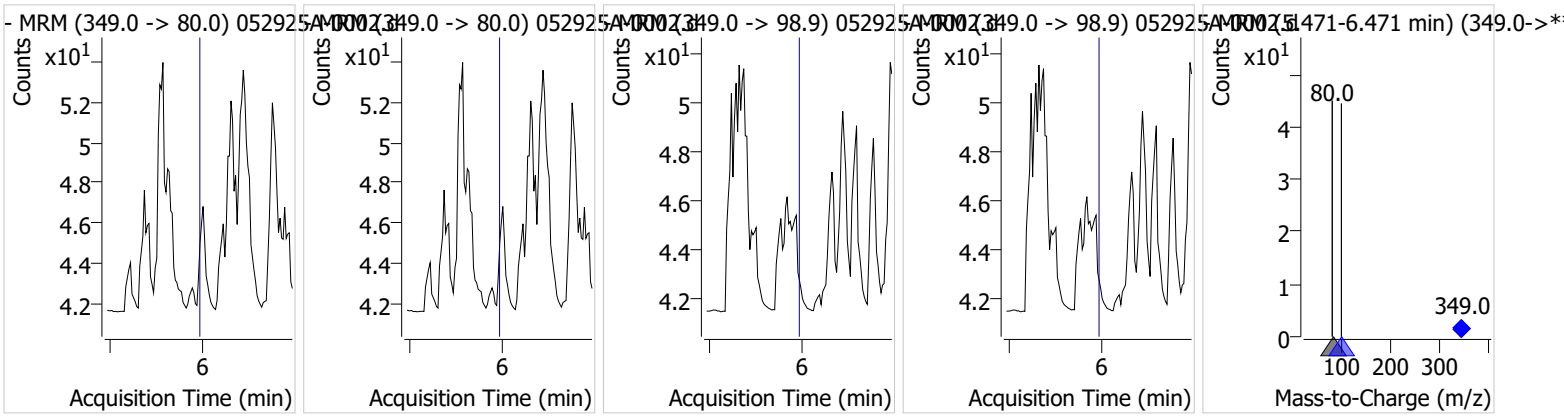
PFDS



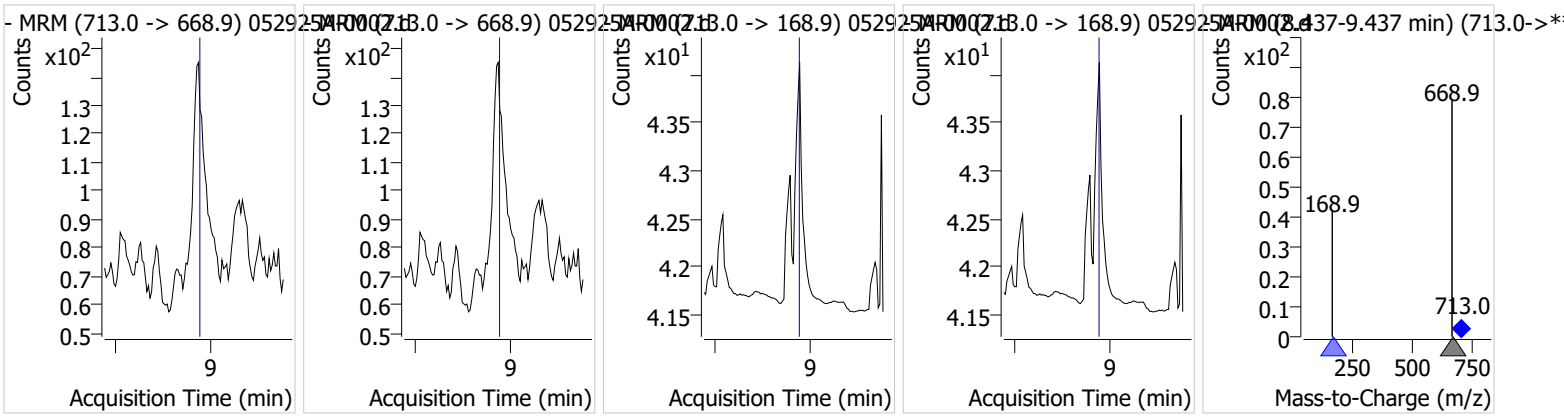
PFNS



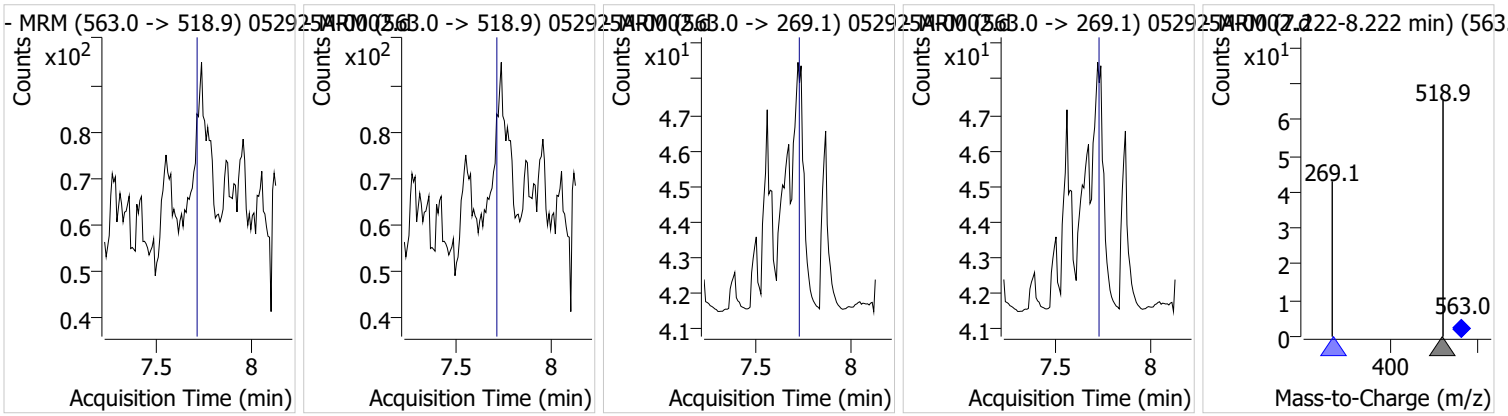
PFPeS



PFTeDA



PFUnA



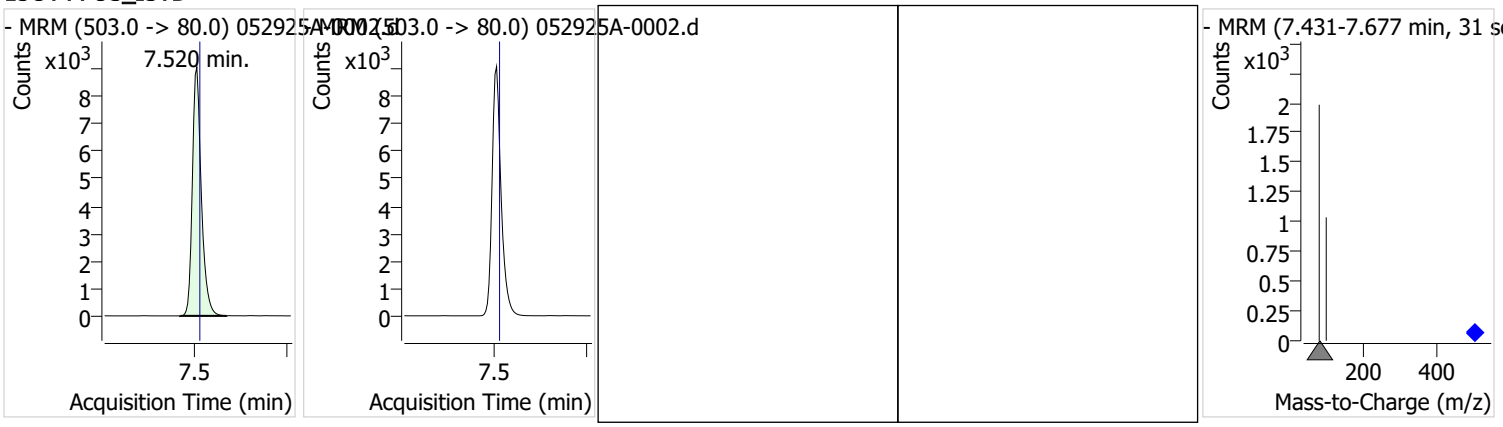
13C2-PFDA_ISTD



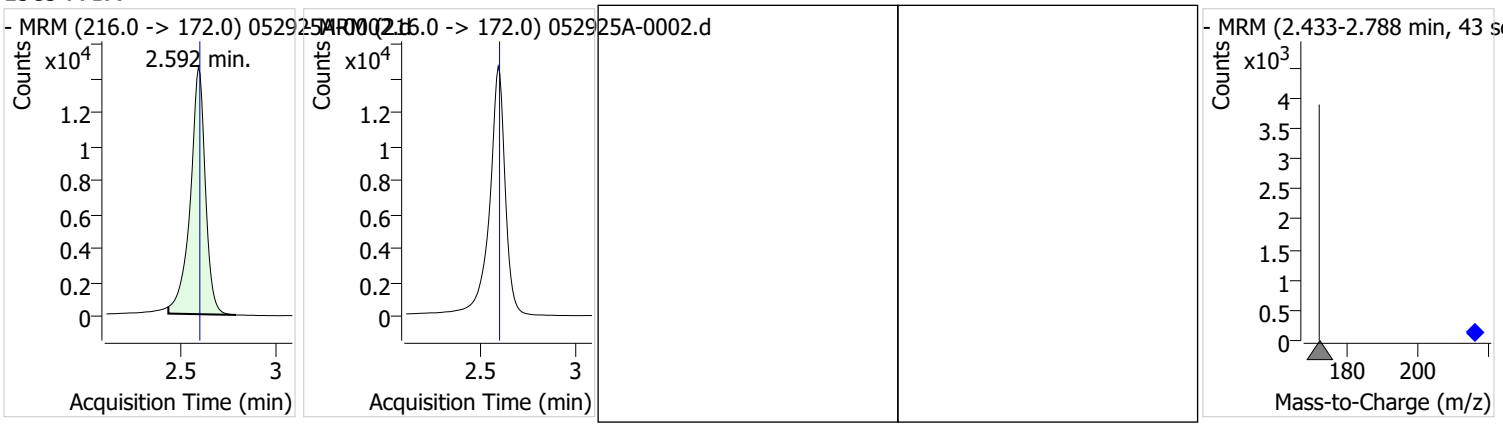
13C2-PFHxA_ISTD



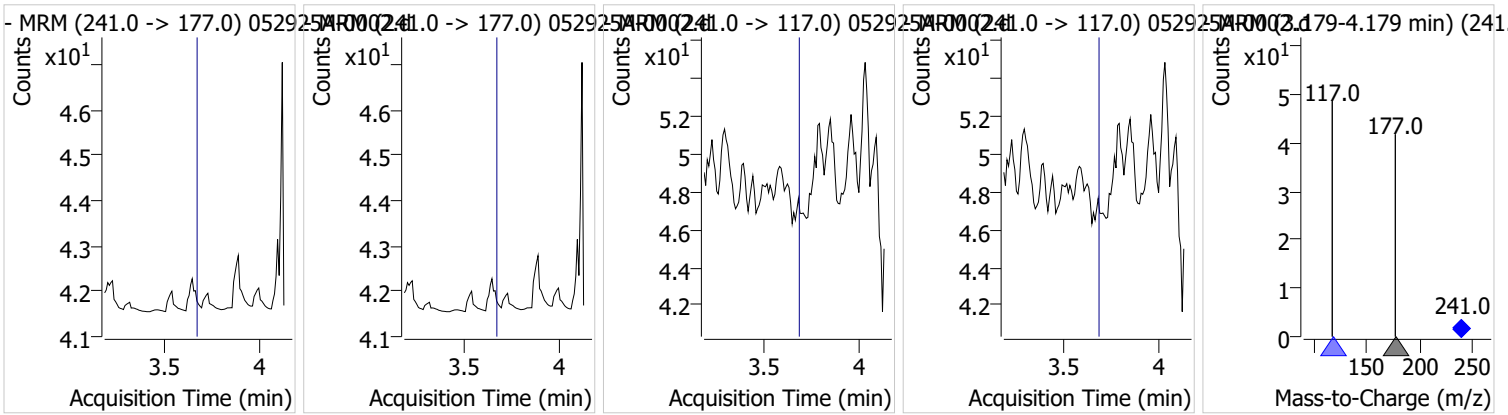
13C4-PFOS_ISTD



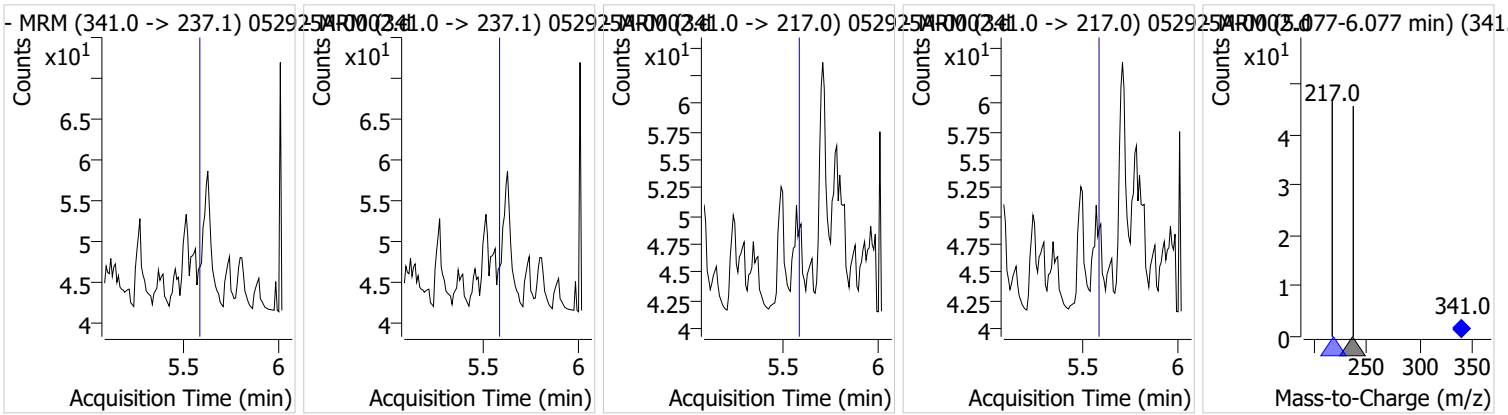
13C3-PFBA



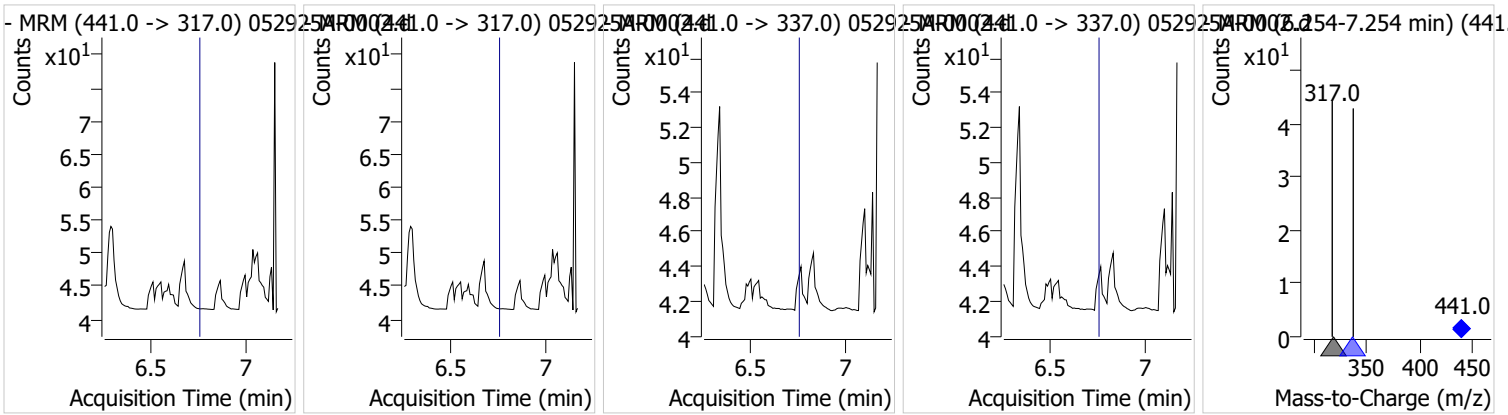
3:3FTCA



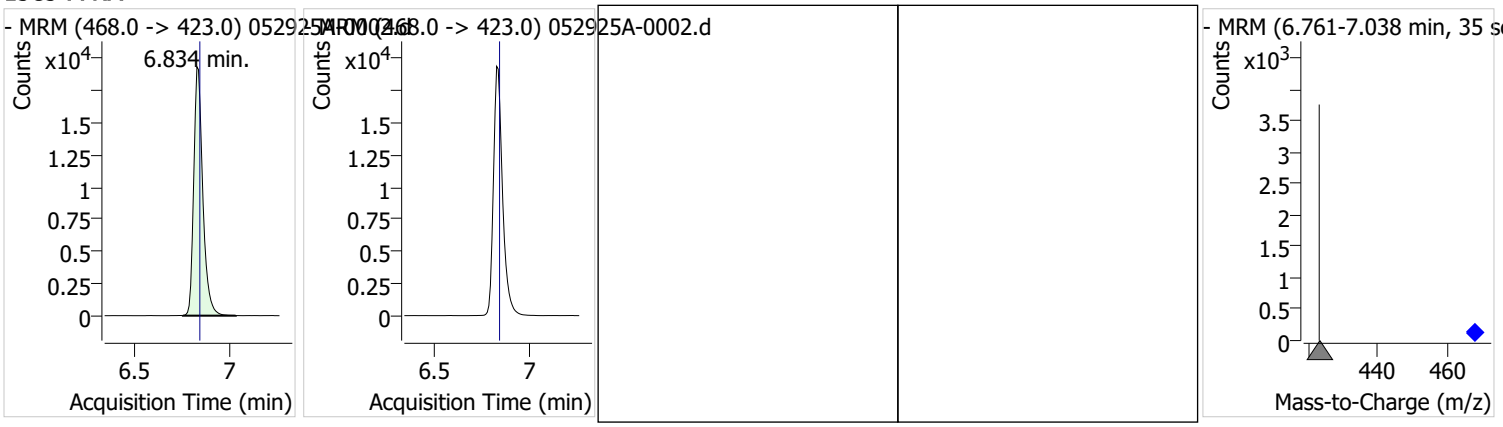
5:3FTCA



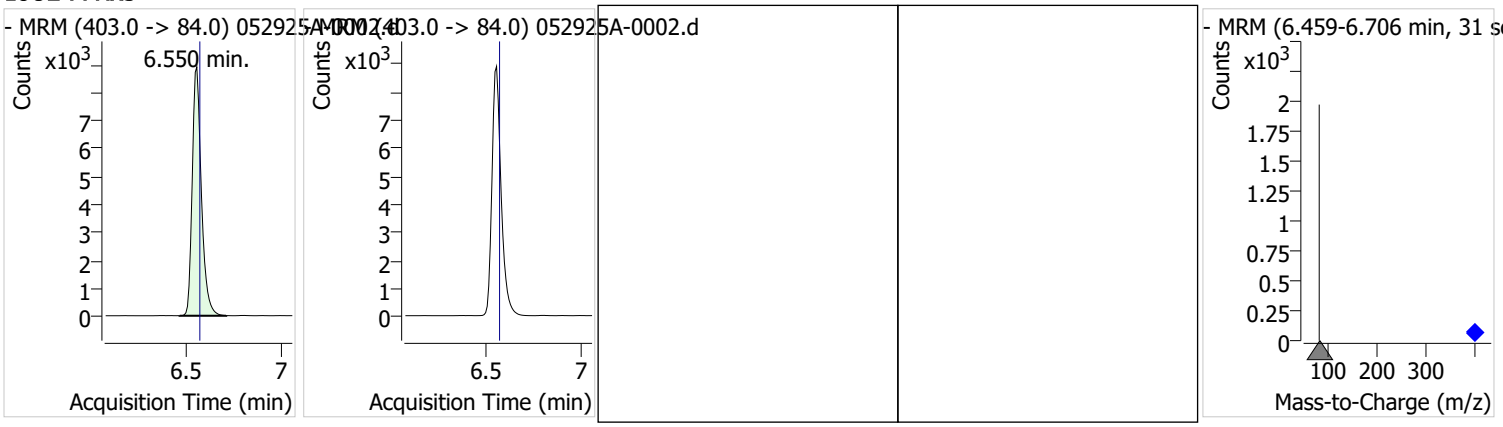
7:3FTCA



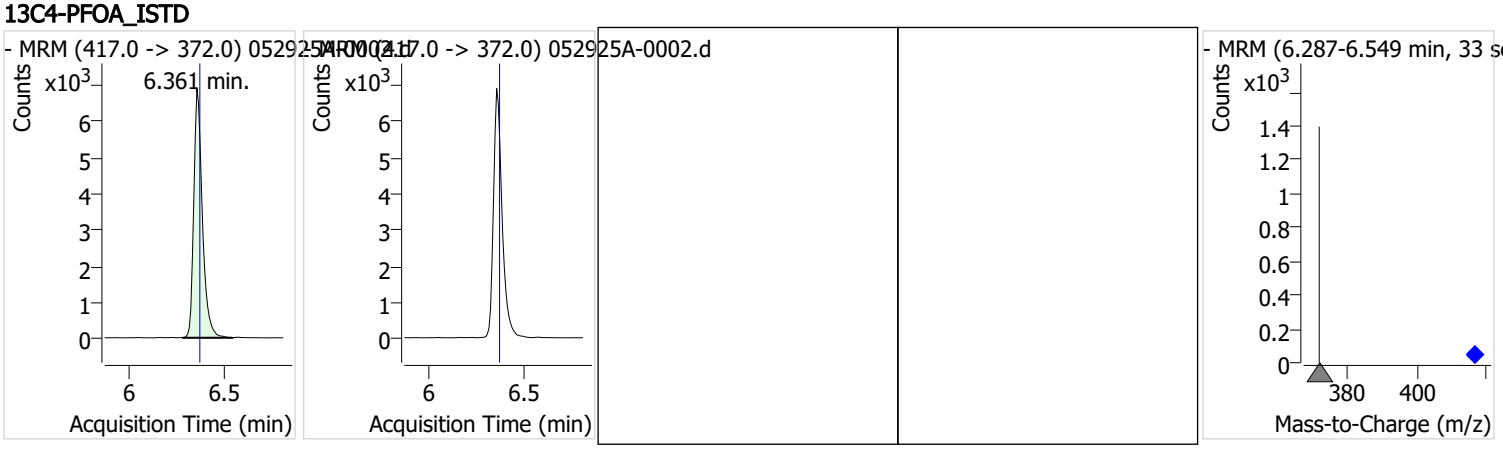
13C5-PFNA



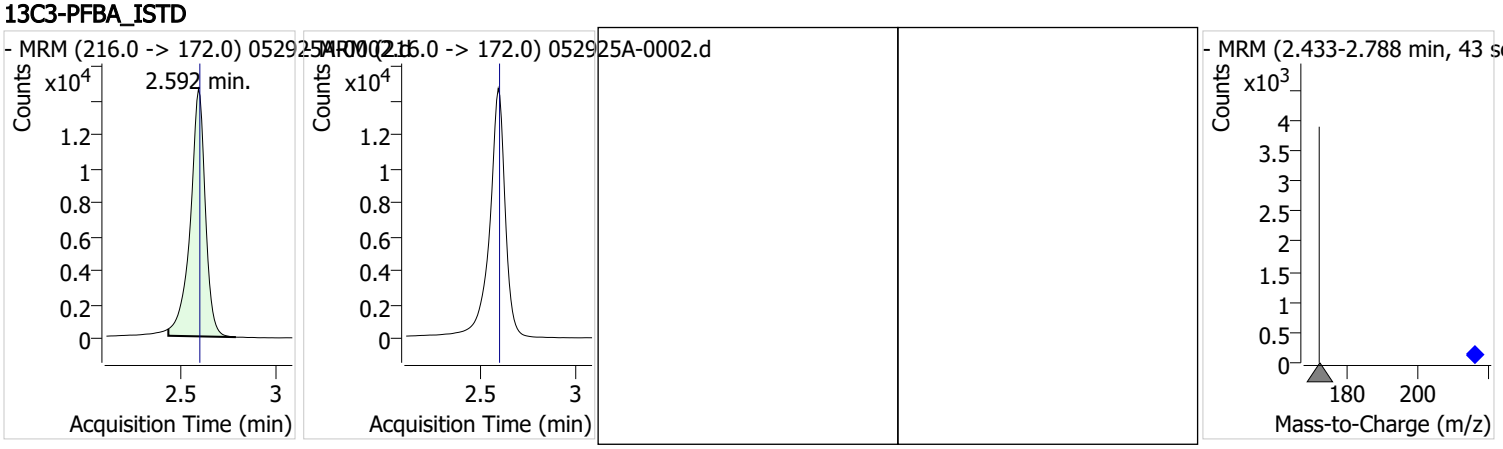
18O2-PFHxS



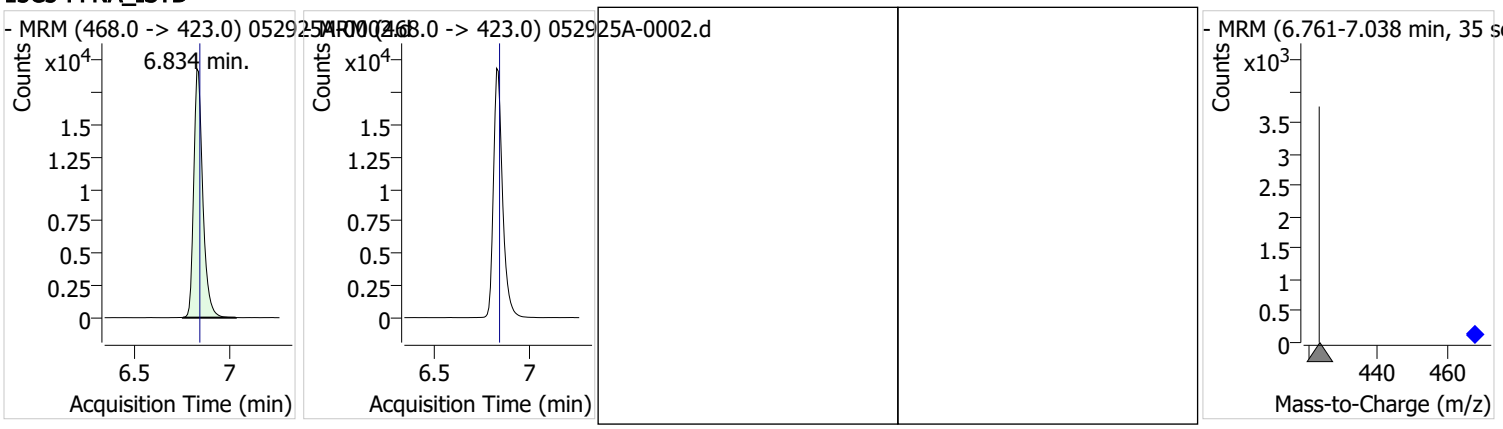
13C4-PFOA_ISTD



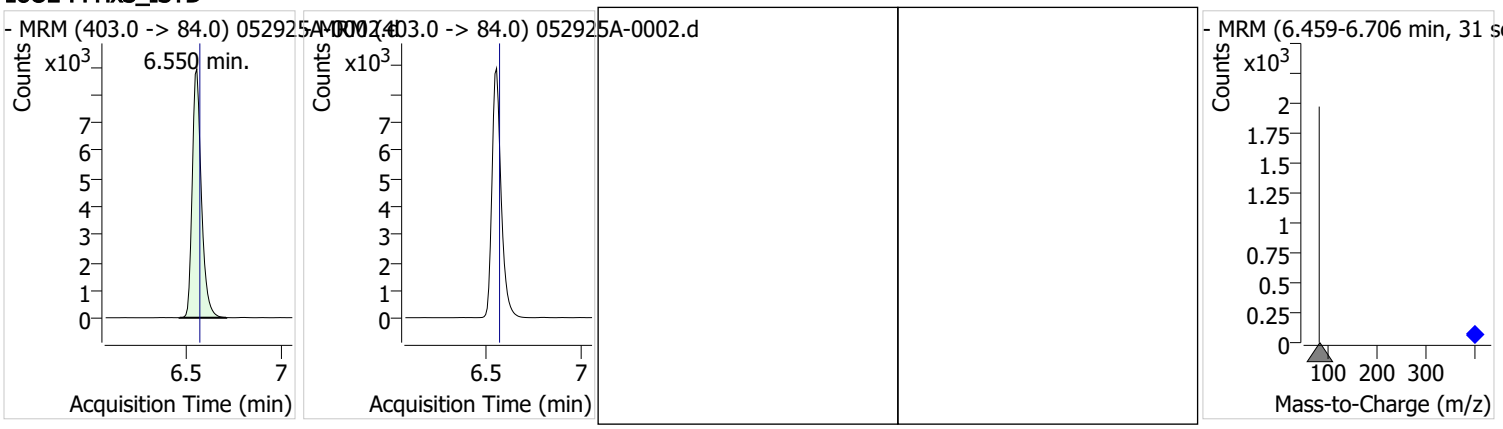
13C3-PFBA_ISTD



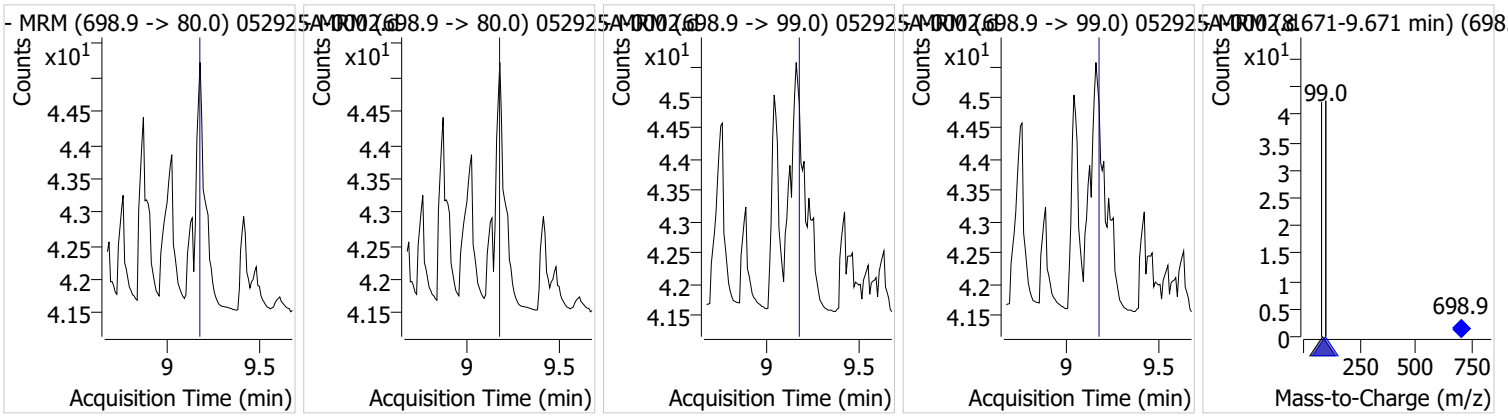
13C5-PFNA_ISTD



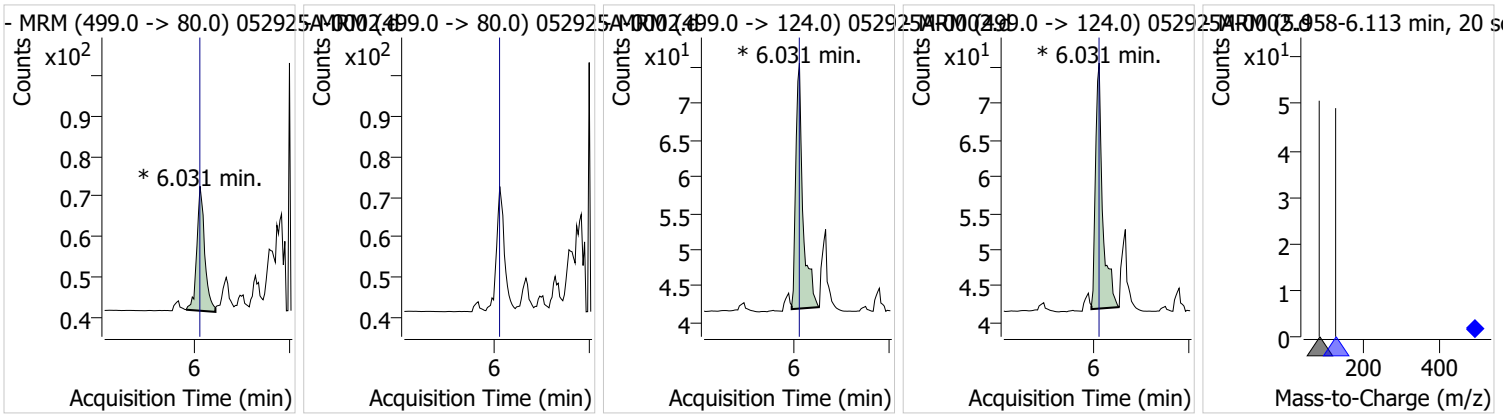
18O2-PFHxS_ISTD



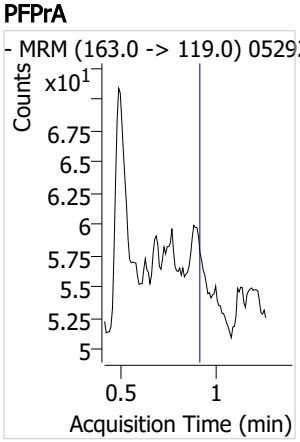
PFDoS

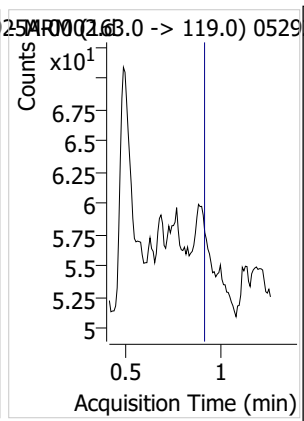


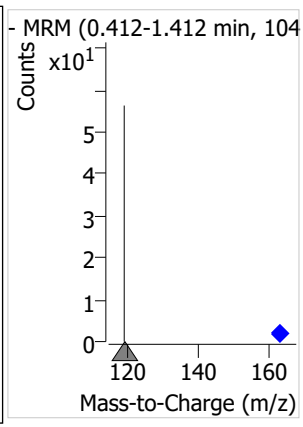
TDCA



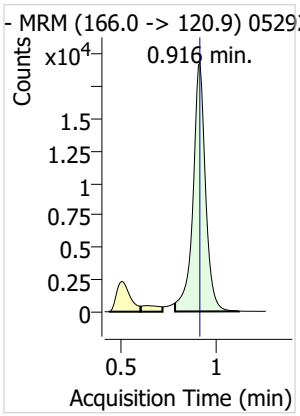
PFPrA

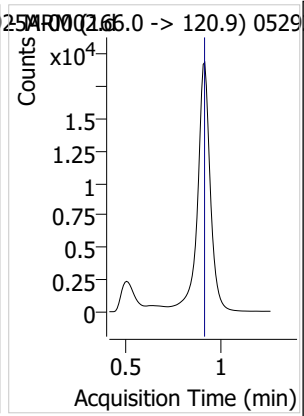


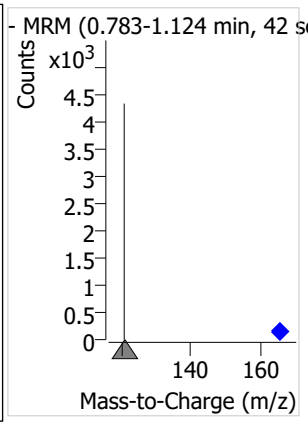




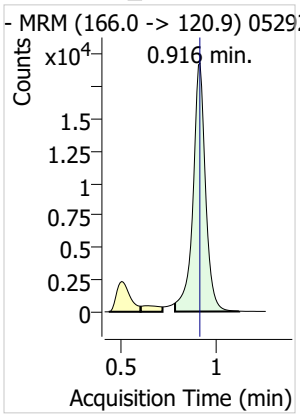
13C3-PFPrA

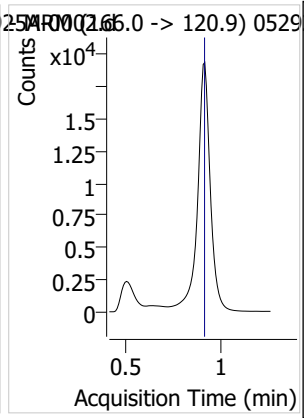


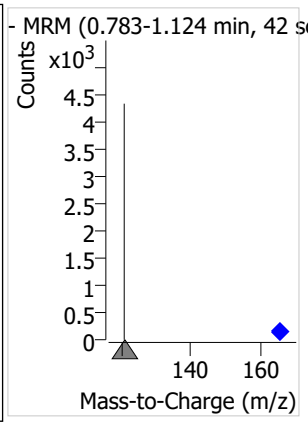




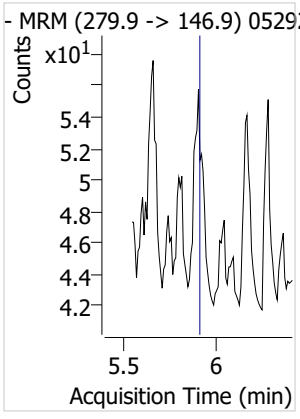
13C3-PFPrA_ISTD

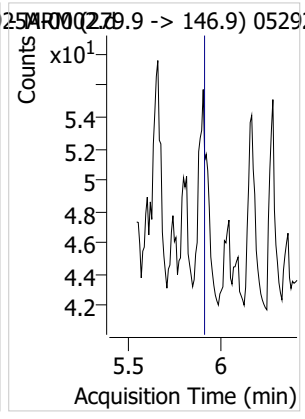


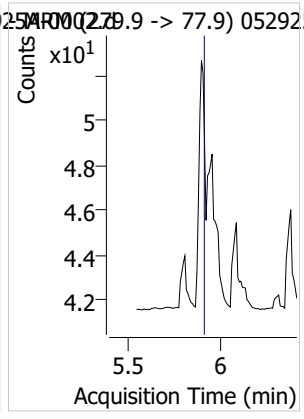


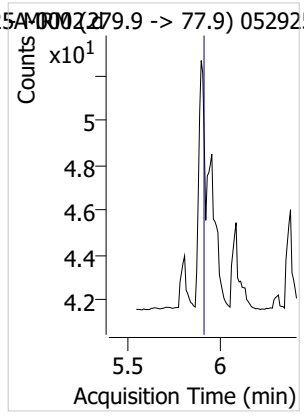


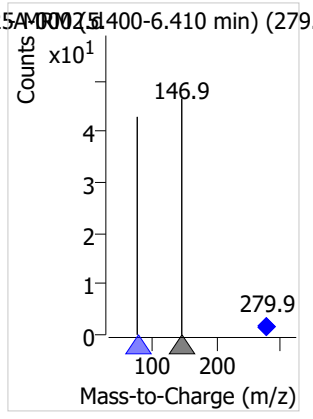
TFSI



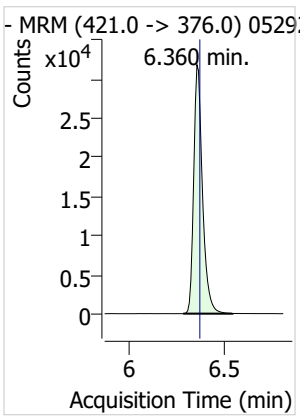


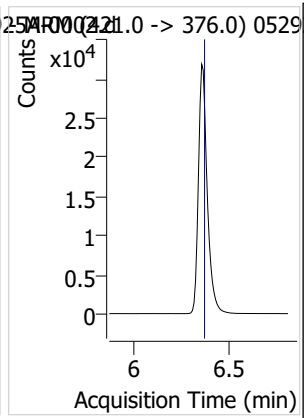


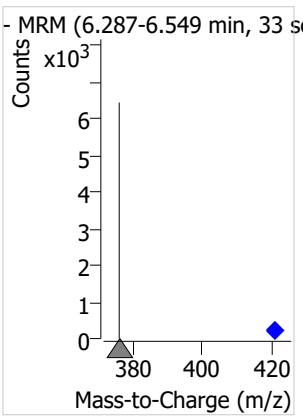




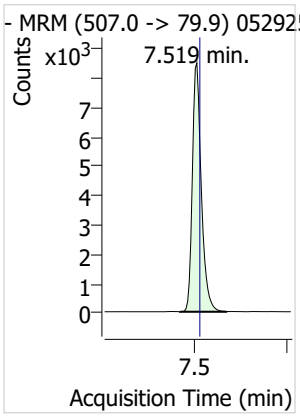
13C8-PFOA

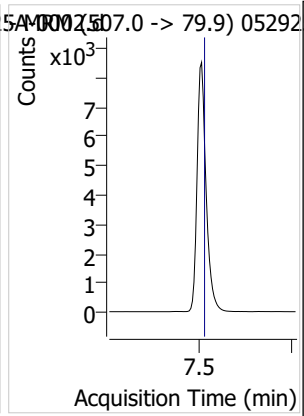


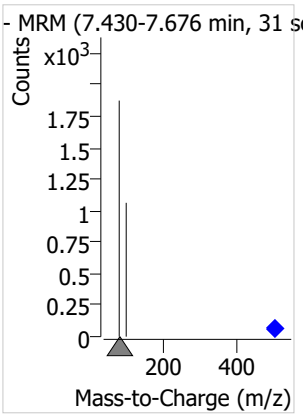




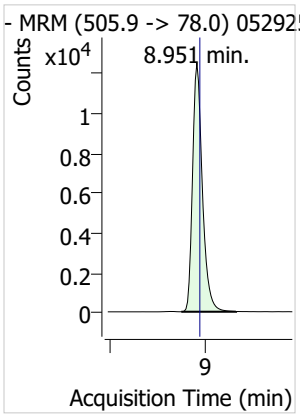
13C8-PFOS

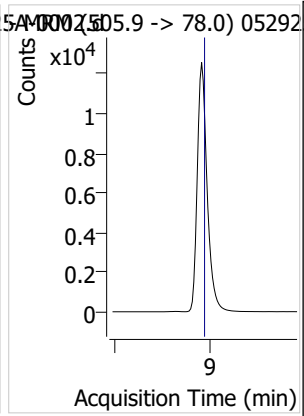


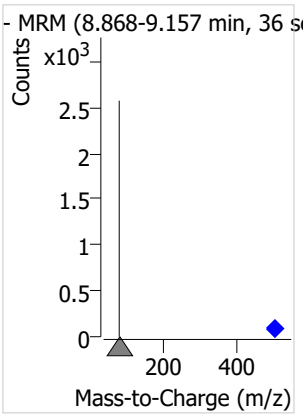




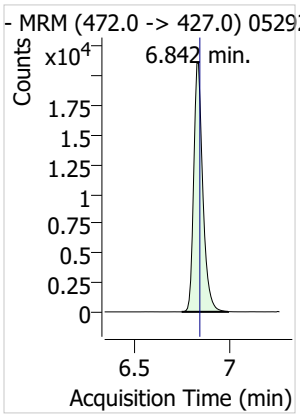
13C8-PFOSA

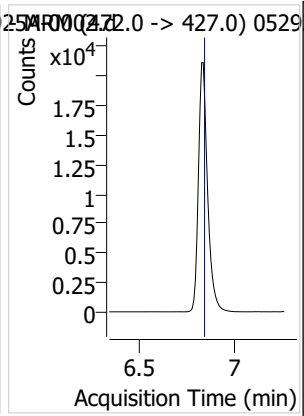


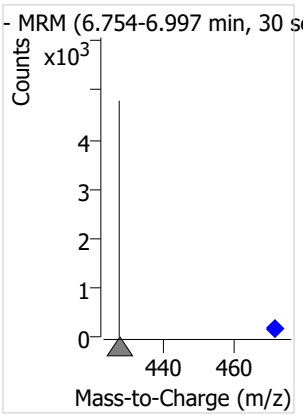




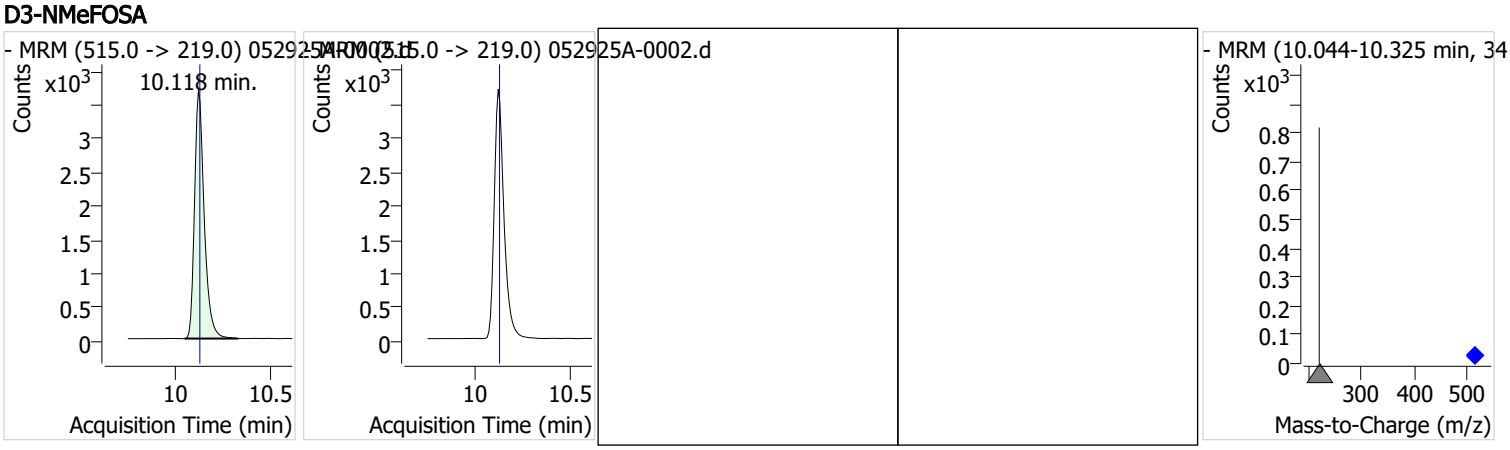
13C9-PFNA



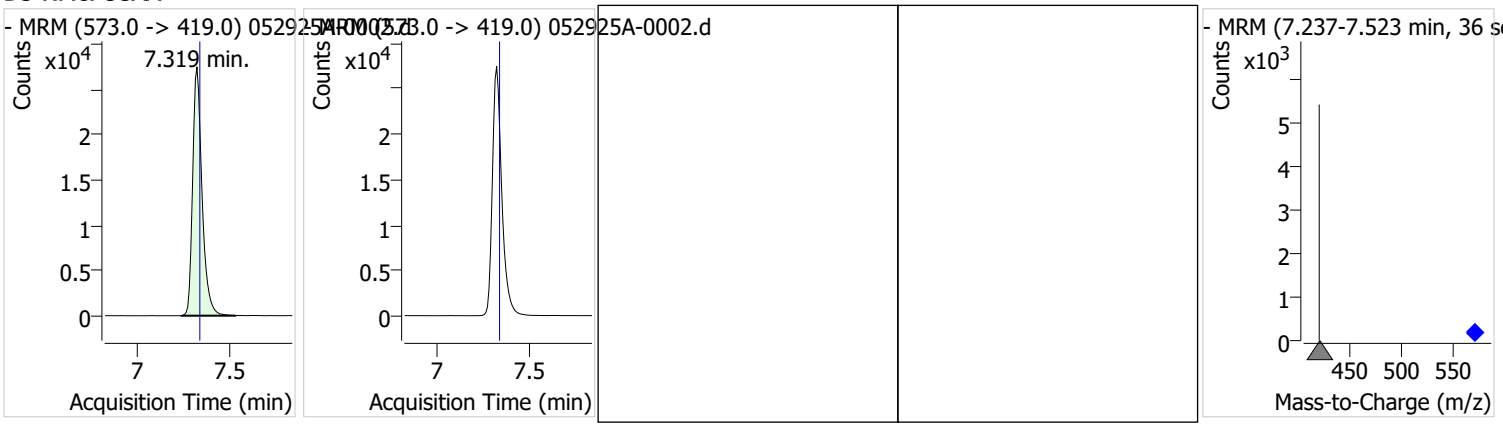




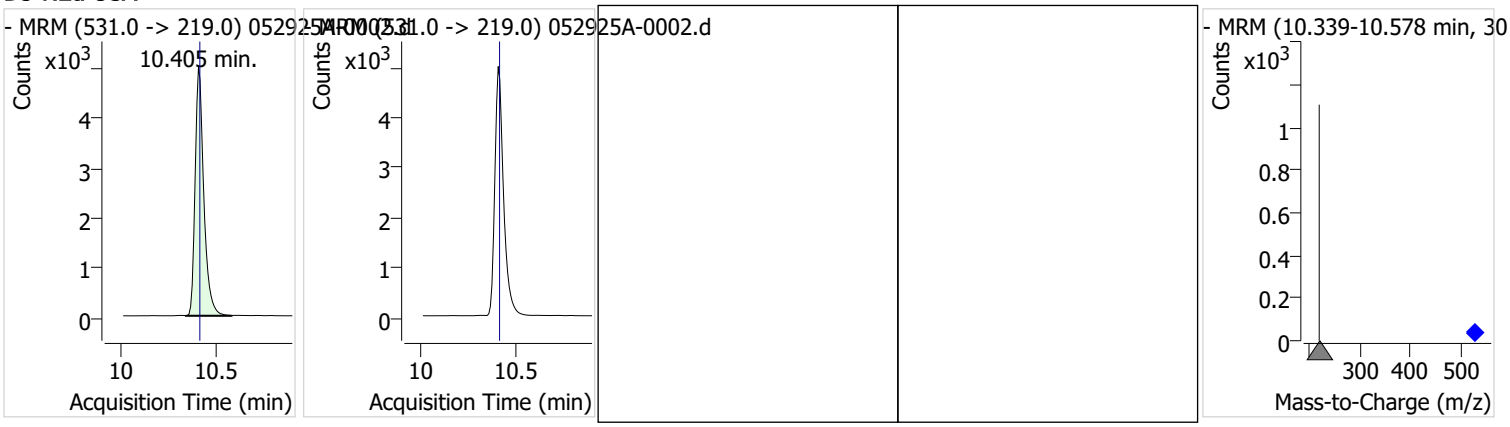
D3-NMeFOSA



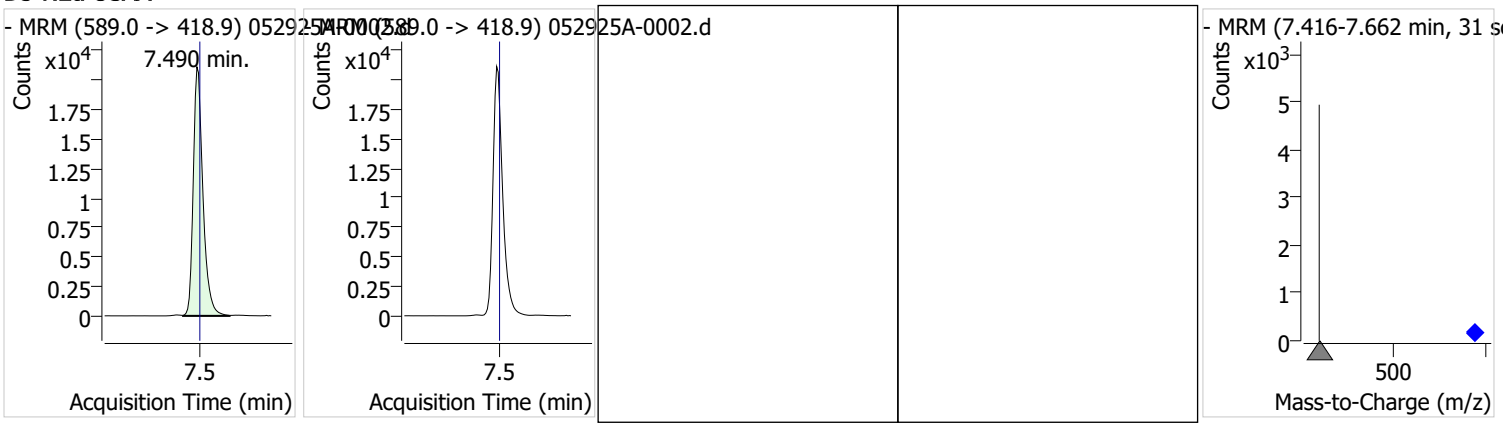
D3-NMeFOSAA



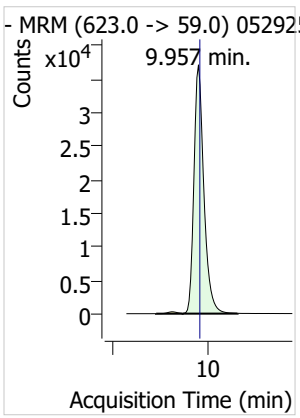
D5-NEtFOSA

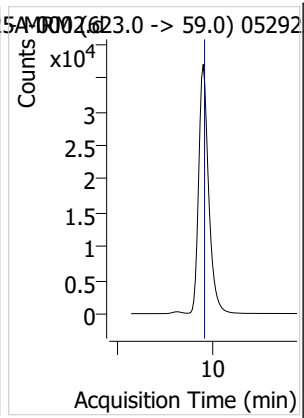


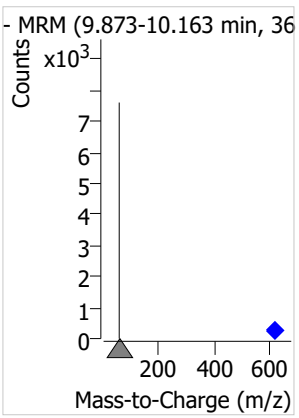
D5-NEtFOSAA



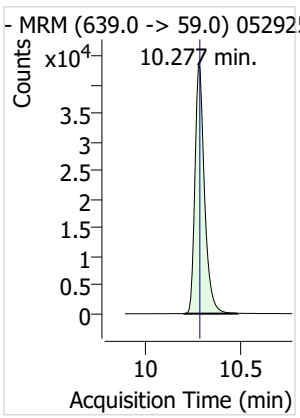
D7-NMeFOSE

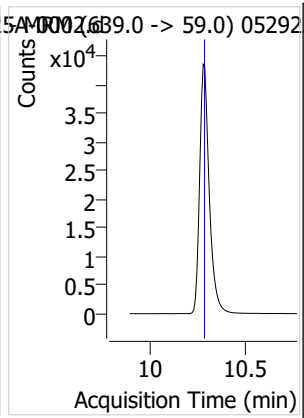


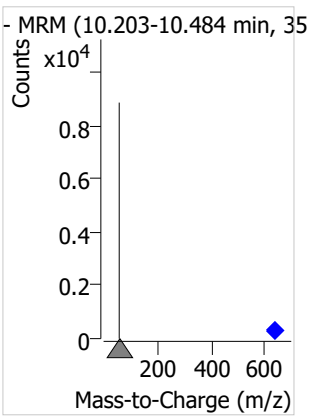




D9-NEtFOSE

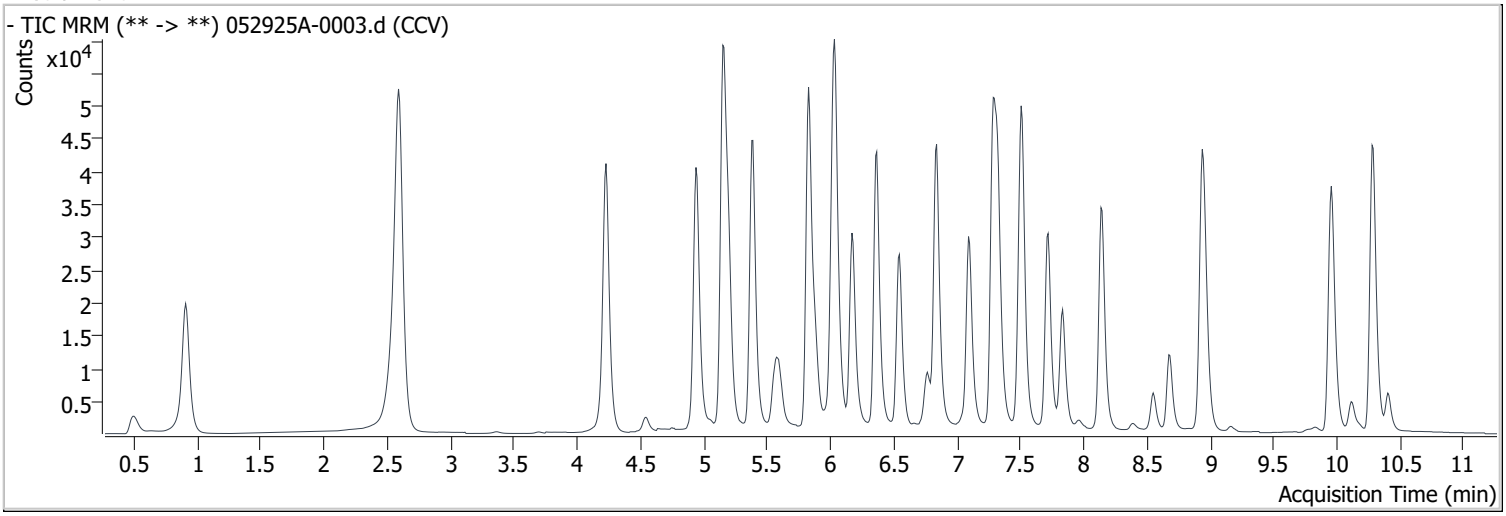






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A.batch.bin		
Analysis Time	5/29/2025 4:52 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 10:38 AM	**Data File**	052925A-0003.d
Sample Type	CC	**Sample Name**	CCV
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510286	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	5948	23330.79		13C3-HFPODA_ISTD	5.386	89211	0.6792	ng/ml			
285.0 -> 184.9	5.386	4213	150.53	70.8								
4:2FTS	4.938	15409	19771.50		13C2-4:2FTS_ISTD	4.938	34649	0.6757	ng/ml			
327.0 -> 80.9	4.939	5578	1169.82	36.2								
6:2FTS	6.172	8659	11058.95		13C2-6:2FTS_ISTD	6.172	24139	0.6660	ng/ml			
427.0 -> 80.9	6.172	4170	2907.18	48.2								
ADONA	6.044	56005	3328.40		13C4-PFHpA_ISTD	5.831	151894	0.5686	ng/ml			
377.0 -> 85.1	6.044	22930	6995.61	40.9								
8:2FTS	7.092	9175	2718.07		13C2-8:2FTS_ISTD	7.092	24681	0.6781	ng/ml			
527.0 -> 81.0	7.101	4117	1238.54	44.9								
13C4-PFBA	2.589	193852	11426.07		13C3-PFBA_ISTD	2.592	84714	9.4019	ng/ml			
9Cl-PF3ONS	7.838	46516	2444.86		13C8-PFOS_ISTD	7.519	28505	0.7217	ng/ml			
533.0 -> 353.0	7.838	12113	820.34	26.0								
11Cl-PF3OUdS	8.676	31488	2497.13		13C8-PFOS_ISTD	7.519	28505	0.6978	ng/ml			
633.0 -> 453.0	8.684	7965	5968.81	25.3								
PFHpS	7.055	2887	2190.52		13C8-PFOS_ISTD	7.519	28505	0.1825	ng/ml			
449.0 -> 98.8	7.055	1238	394.04	42.9								
13C2-4:2FTS	4.938	34649	11633.33		18O2-PFHxS_ISTD	6.550	30812	6.5306	ng/ml			
13C2-6:2FTS	6.172	24139	123010.94		18O2-PFHxS_ISTD	6.550	30812	6.0385	ng/ml			
13C2-8:2FTS	7.092	24681	190531.51		18O2-PFHxS_ISTD	6.550	30812	6.1511	ng/ml			
13C2-PFDoA	8.138	99779	28963.11		13C2-PFDA_ISTD	7.290	63230	1.2630	ng/ml			
13C2-PFDA	7.290	63230	9981.07					1.3005	ng/ml			
13C2-PFHxA	5.154	82735	4921.81					2.6842	ng/ml			
13C2-PFTeDA	8.936	109352	3201.47		13C2-PFDA_ISTD	7.290	63230	1.2319	ng/ml			
13C4-PFOS	7.520	31570	9453.98					2.8640	ng/ml			
13C3-HFPODA	5.386	89211	457029.43		13C2-PFHxA_ISTD	5.154	82735	10.0920	ng/ml			
13C3-PFBS	5.196	53830	7844.92		18O2-PFHxS_ISTD	6.550	30812	2.5588	ng/ml			
13C3-PFHxS	6.551	34959	1627.30		18O2-PFHxS_ISTD	6.550	30812	2.4542	ng/ml			
NEtFOSAA	7.434	2501	602.49		D5-NEtFOSAA_ISTD	7.498	79473	0.1616	ng/ml			
584.0 -> 526.0	7.433	2576	257.27	103.0								

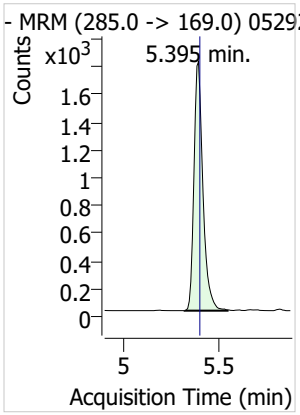
Quantitative Analysis Sample Report

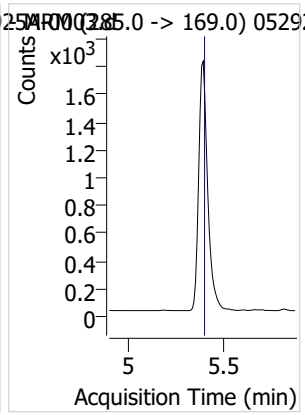
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	151894	15644.35		13C2-PFHxA_ISTD	5.154	82735	2.5853	ng/ml			
NMeFOSAA	7.247	1285	7231.85		D3-NMeFOSAA_ISTD	7.319	101035	0.1711	ng/ml			
570.0 -> 483.0	7.246	1628	305.20	126.8								
PFBA	2.594	13513	172.25		13C4-PFBA_ISTD	2.589	193852	0.6995	ng/ml			
13C5-PFHxA	5.153	92442	1002139.31		13C2-PFHxA_ISTD	5.154	82735	2.5169	ng/ml			
PFBS	5.197	4139	1502.63		13C3-PFBS_ISTD	5.196	53830	0.1458	ng/ml			
298.9 -> 98.8	5.197	1720	460.46	41.5								
NMeFOSA	10.073	1100	351.67		D3-NMeFOSA_ISTD	10.118	12482	0.1851	ng/ml			
512.0 -> 169.0	10.074	1500	425.82	136.4								
PFDA	7.290	9882	311.47		13C6-PFDA_ISTD	7.289	74336	0.1625	ng/ml			
513.0 -> 219.0	7.290	1844	6617.30	18.7								
PFDoA	8.138	14842	460.01		13C2-PFDoA_ISTD	8.138	99779	0.1651	ng/ml			
613.0 -> 319.0	8.147	1766	107.49	11.9								
NEtFOSA	10.377	1277	906.63		D5-NEtFOSA_ISTD	10.405	15689	0.1663	ng/ml			
526.0 -> 169.0	10.377	1679	800.55	131.5								
PFHpA	5.831	11110	1265.32		13C4-PFHpA_ISTD	5.831	151894	0.1631	ng/ml			
362.9 -> 169.0	5.831	2042	8484.03	18.4								
PFHxA	5.155	7271	110.26		13C5-PFHxA_ISTD	5.153	92442	0.1686	ng/ml			
313.0 -> 118.9	5.155	242	19.08	3.3								
NMeFOSE	9.899	10639	1142.99		D7-NMeFOSE_ISTD	9.957	130858	1.6516	ng/ml			
PFHxS	6.498	2929	1629.00		13C3-PFHxS_ISTD	6.551	34959	0.1658	ng/ml			
398.9 -> 99.0	6.498	1437	185.61	49.1								
PFNA	6.789	7735	400.49		13C9-PFNA_ISTD	6.842	66715	0.1657	ng/ml			
463.0 -> 219.0	6.789	2558	159.22	33.1								
NEtFOSE	10.249	13603	1227.26		D9-NEtFOSE_ISTD	10.277	147999	1.6965	ng/ml			
PFOA	6.300	8727	187.40		13C8-PFOA_ISTD	6.368	104388	0.1770	ng/ml			
413.0 -> 169.0	6.300	2251	342.27	25.8								
PFOS	7.399	2901	344.29		13C8-PFOS_ISTD	7.519	28505	0.1721	ng/ml			
499.0 -> 99.0	7.402	1494	501.42	51.5								
PFPeA	4.231	11420	192.51		13C5-PFPeA_ISTD	4.229	144687	0.3506	ng/ml			
PFMPA	3.368	1161	208.67		13C4-PFBA_ISTD	2.589	193852	0.3462	ng/ml			
13C5-PFPeA	4.229	144687	9088.86		13C2-PFHxA_ISTD	5.154	82735	4.9379	ng/ml			
PFMBA	4.547	8258	6451.51		13C5-PFPeA_ISTD	4.229	144687	0.3436	ng/ml			
PFTrDA	8.550	17790	1491.51		13C2-PFDoA_ISTD	8.138	99779	0.1695	ng/ml			
663.0 -> 168.9	8.551	1688	478.72	9.5								
PFEESA	5.562	23483	6722.41		13C5-PFHxA_ISTD	5.153	92442	0.3178	ng/ml			
315.0 -> 83.0	5.562	1770	242.58	7.5								
13C6-PFDA	7.289	74336	22422.78		13C2-PFDA_ISTD	7.290	63230	1.2486	ng/ml			
NFDHA	5.058	1855	10375.15		13C5-PFHxA_ISTD	5.153	92442	0.3709	ng/ml			
295.0 -> 85.0	5.058	831	246.38	44.8								
PFOSA	8.899	3118	2352.66		13C8-PFOSA_ISTD	8.967	42696	0.1660	ng/ml			
497.9 -> 478.0	8.902	102	705.56	3.3								
13C7-PFUnA	7.721	85765	676272.21		13C2-PFDA_ISTD	7.290	63230	1.2898	ng/ml			
13C4-PFOA	6.369	22842	7088.49					2.7625	ng/ml			
PFDS	8.398	2140	2381.76		13C8-PFOS_ISTD	7.519	28505	0.1785	ng/ml			
599.0 -> 98.8	8.389	1004	290.69	46.9								
PFNS	7.969	2525	723.17		13C8-PFOS_ISTD	7.519	28505	0.1713	ng/ml			
549.0 -> 98.8	7.960	1302	444.04	51.6								
PFPeS	5.971	3892	1154.66		13C3-PFHxS_ISTD	6.551	34959	0.1775	ng/ml			
349.0 -> 98.9	5.971	1518	1700.37	39.0								
PFTeDA	8.937	16946	277.08		13C2-PFTeDA_ISTD	8.936	109352	0.1679	ng/ml			

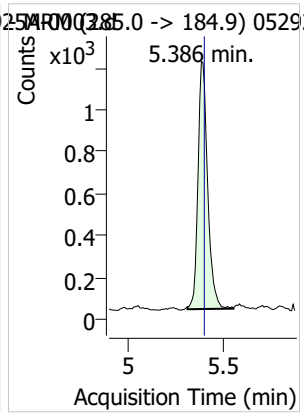
Quantitative Analysis Sample Report

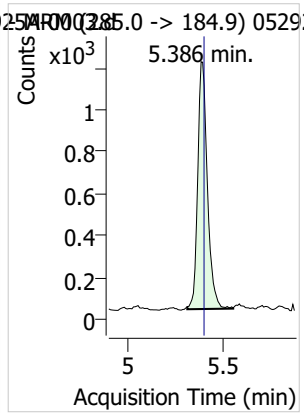
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	998	278.38	5.9								
PFUnA	7.722	11619	466.10		13C7-PFUnA_ISTD	7.721	85765	0.1622	ng/ml			
563.0 -> 269.1	7.722	2052	592.43	17.7								
13C3-PFBA	2.592	84714	449.06					5.5783	ng/ml			
3:3FTCA	3.695	641	98.25		13C5-PFPeA_ISTD	4.229	144687	0.7820	ng/ml			
241.0 -> 117.0	3.698	316	26.80	49.3								
5:3FTCA	5.593	13365	663.64		13C5-PFHxA_ISTD	5.153	92442	3.8738	ng/ml			
341.0 -> 217.0	5.593	12387	2686.73	92.7								
7:3FTCA	6.770	15925	464.03		13C9-PFNA_ISTD	6.842	66715	4.4619	ng/ml			
441.0 -> 337.0	6.770	14935	8719.43	93.8								
13C5-PFNA	6.842	63801	145959.84					1.3491	ng/ml			
18O2-PFHxS	6.550	30812	9243.87					2.7125	ng/ml			
PFDoS	9.163	1600	5917.81		13C8-PFOS_ISTD	7.519	28505	0.1985	ng/ml			
698.9 -> 99.0	9.162	844	2697.68	52.8								
TDCA	6.023	57509	27513.27		13C8-PFOS_ISTD	7.519	28505	12.6584	ng/ml			
499.0 -> 124.0	6.023	99420	128780.92	172.9								
PFPrA	0.912	4914	503.42		13C3-PFPrA_ISTD	0.907	86059	0.6498	ng/ml			
13C3-PFPrA	0.907	86059	6476.55		13C3-PFBA_ISTD	2.592	84714	9.3905	ng/ml			
TFSI	5.891	23226	5858.74		13C3-HFPODA_ISTD	5.386	89211	0.3734	ng/ml			
279.9 -> 77.9	5.884	16180	27939.09	69.7								
13C8-PFOA	6.368	104388	31902.93		13C4-PFOA_ISTD	6.369	22842	2.4392	ng/ml			
13C8-PFOS	7.519	28505	8729.29		13C4-PFOS_ISTD	7.520	31570	2.3087	ng/ml			
13C8-PFOSA	8.967	42696	12036.06		13C4-PFOS_ISTD	7.520	31570	2.4049	ng/ml			
13C9-PFNA	6.842	66715	16790.93		13C5-PFNA_ISTD	6.842	63801	1.1835	ng/ml			
D3-NMeFOSA	10.118	12482	2823.01		13C4-PFOS_ISTD	7.520	31570	2.2067	ng/ml			
D3-NMeFOSAA	7.319	101035	1552983.98		13C4-PFOS_ISTD	7.520	31570	5.1453	ng/ml			
D5-NEtFOSA	10.405	15689	2047.51		13C4-PFOS_ISTD	7.520	31570	2.3073	ng/ml			
D5-NEtFOSAA	7.498	79473	22565.29		13C4-PFOS_ISTD	7.520	31570	5.3292	ng/ml			
D7-NMeFOSE	9.957	130858	17372.58		13C4-PFOS_ISTD	7.520	31570	24.0974	ng/ml			
D9-NEtFOSE	10.277	147999	42183.70		13C4-PFOS_ISTD	7.520	31570	24.5436	ng/ml			

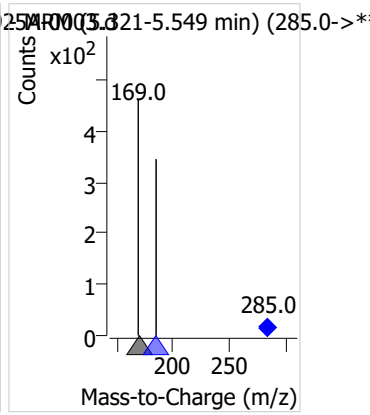
HFPO-DA



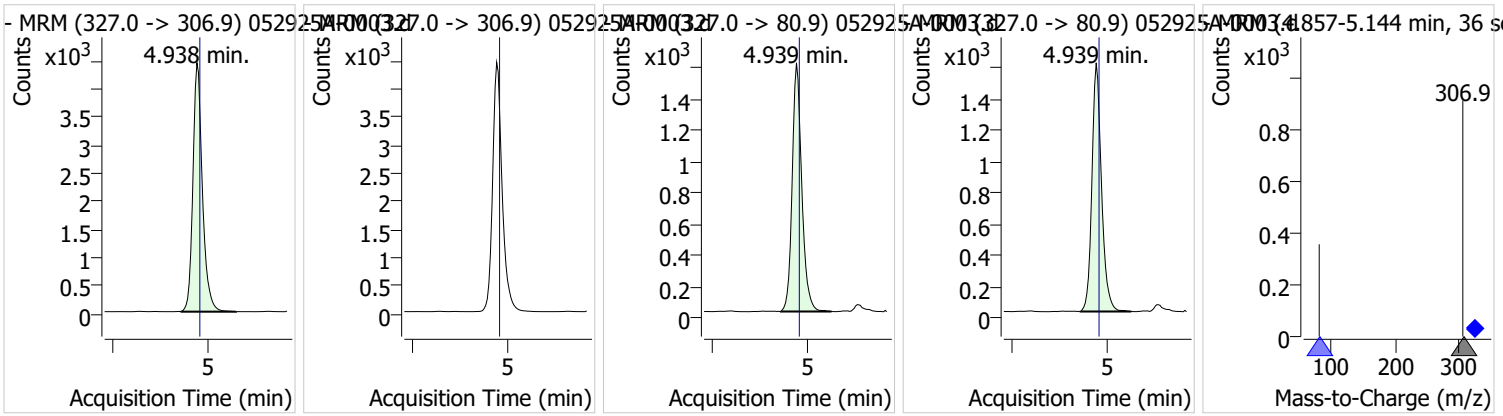




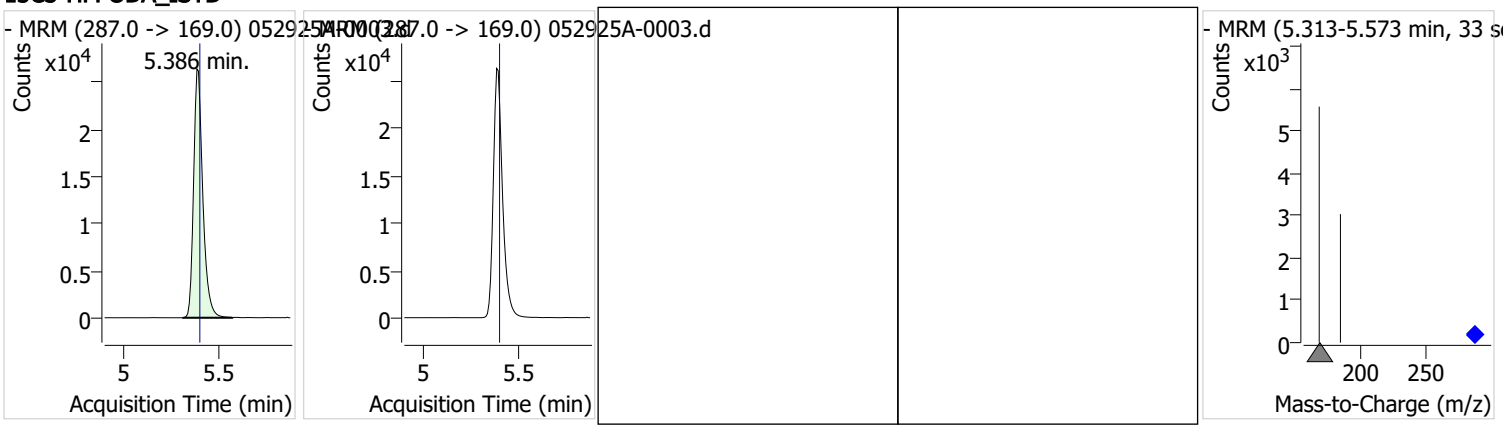




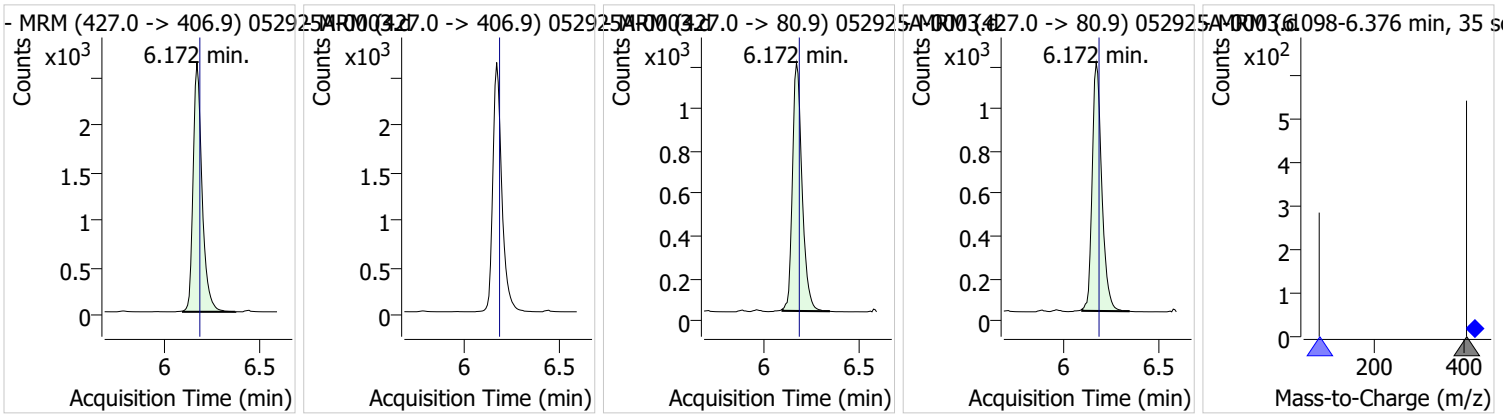
4:2FTS



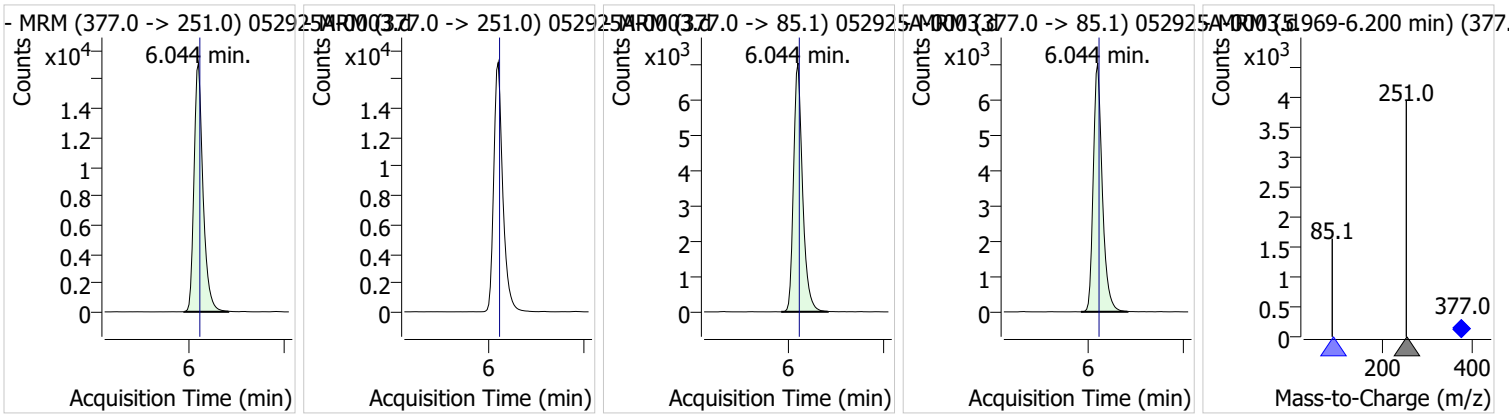
13C3-HFPODA_ISTD



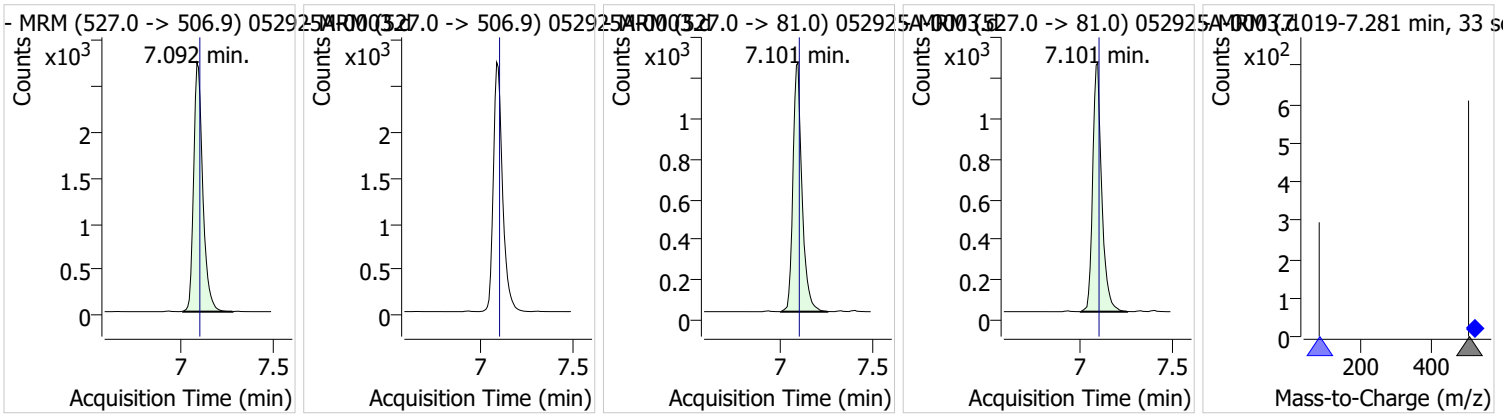
6:2FTS



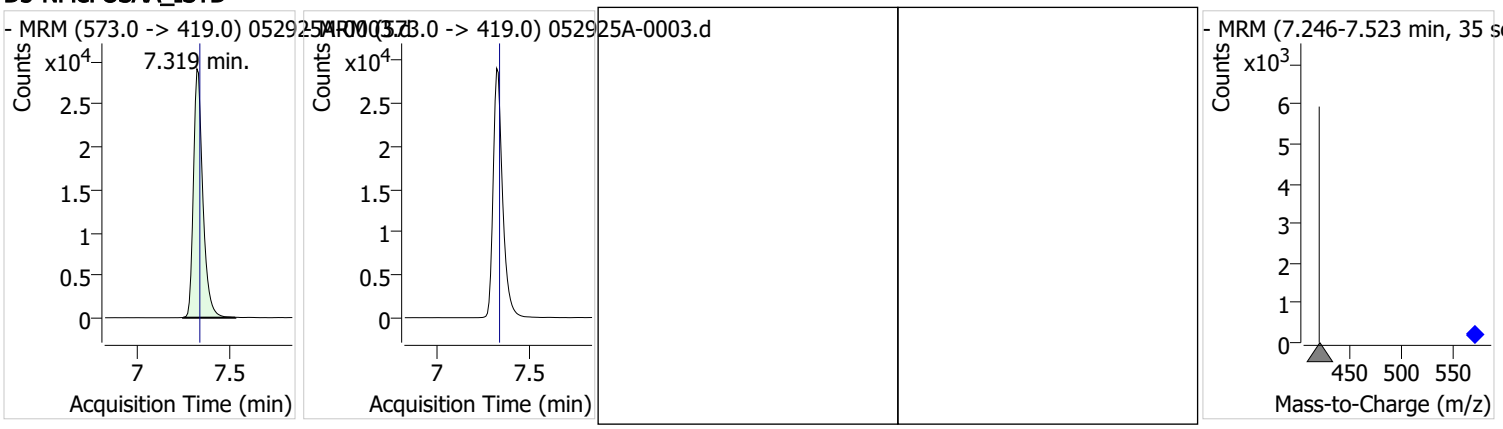
ADONA



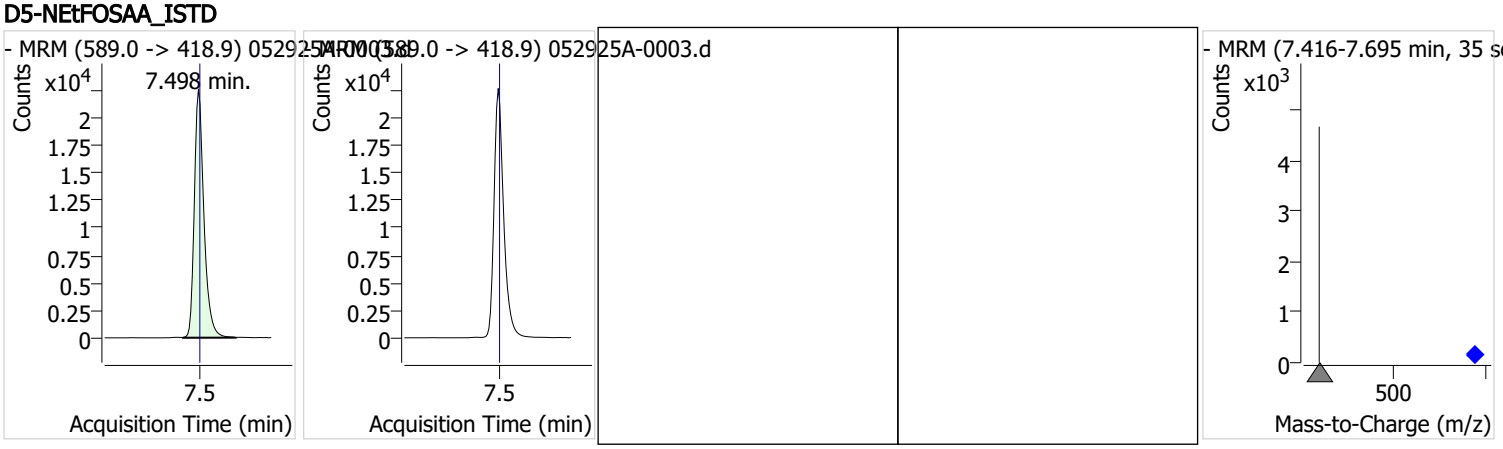
8:2FTS



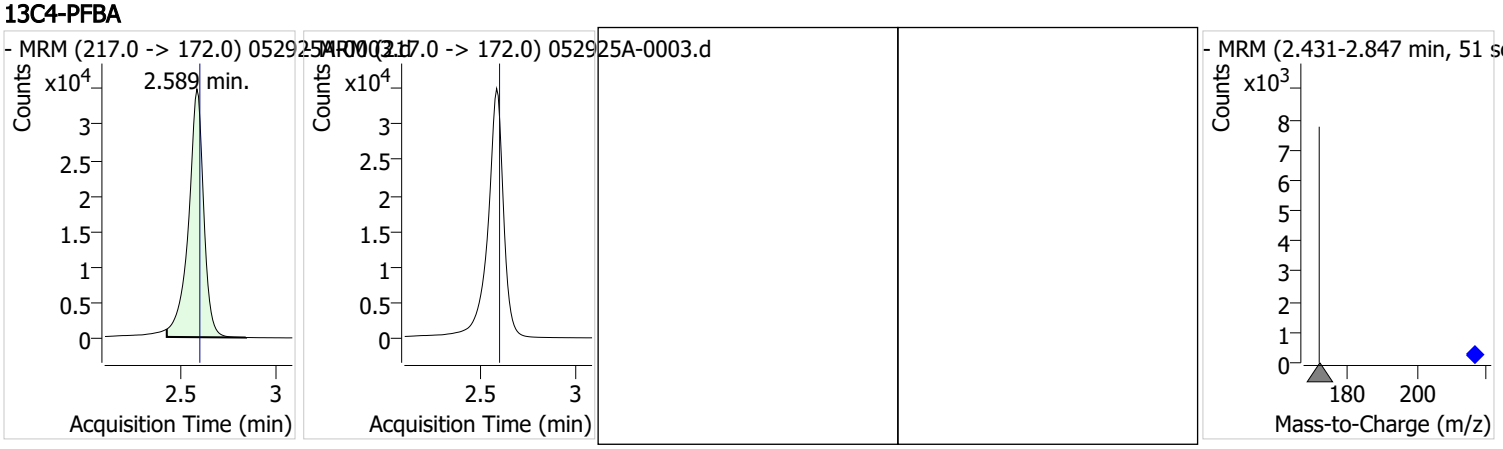
D3-NMeFOSAA_ISTD



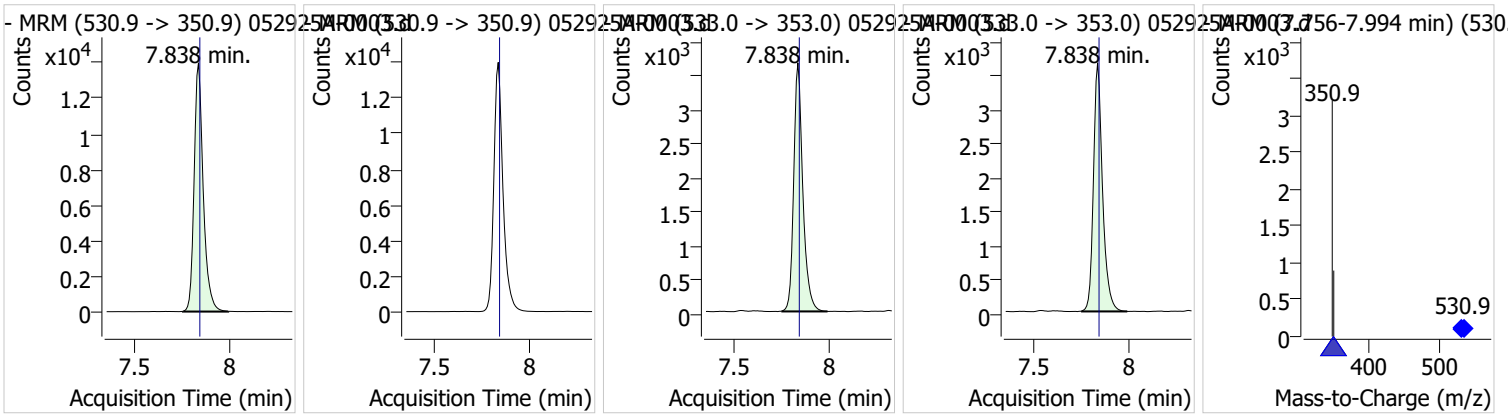
D5-NEtFOSAA_ISTD



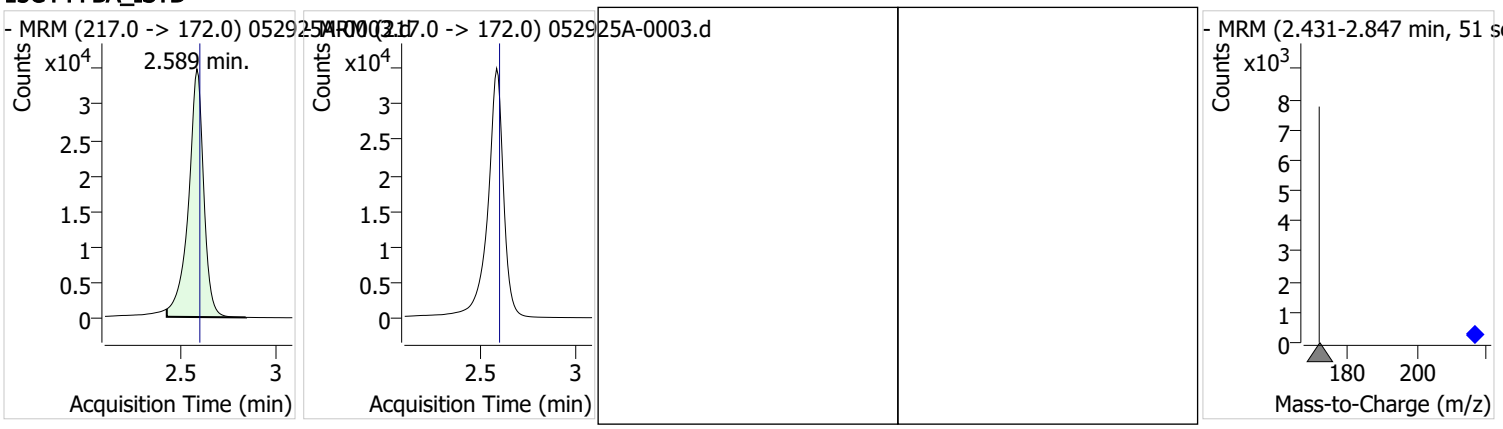
13C4-PFBA



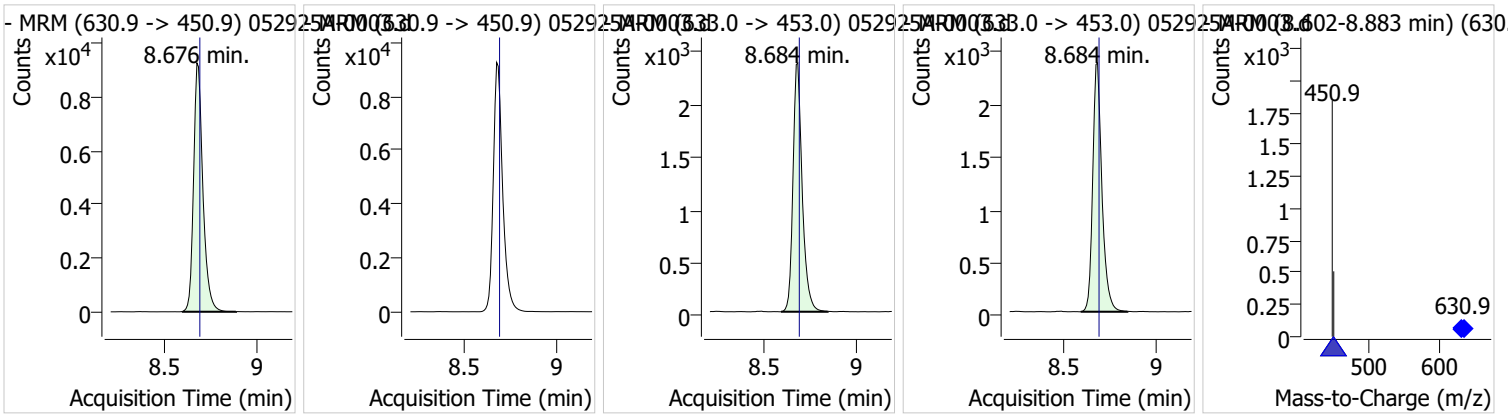
9Cl-PF3ONS



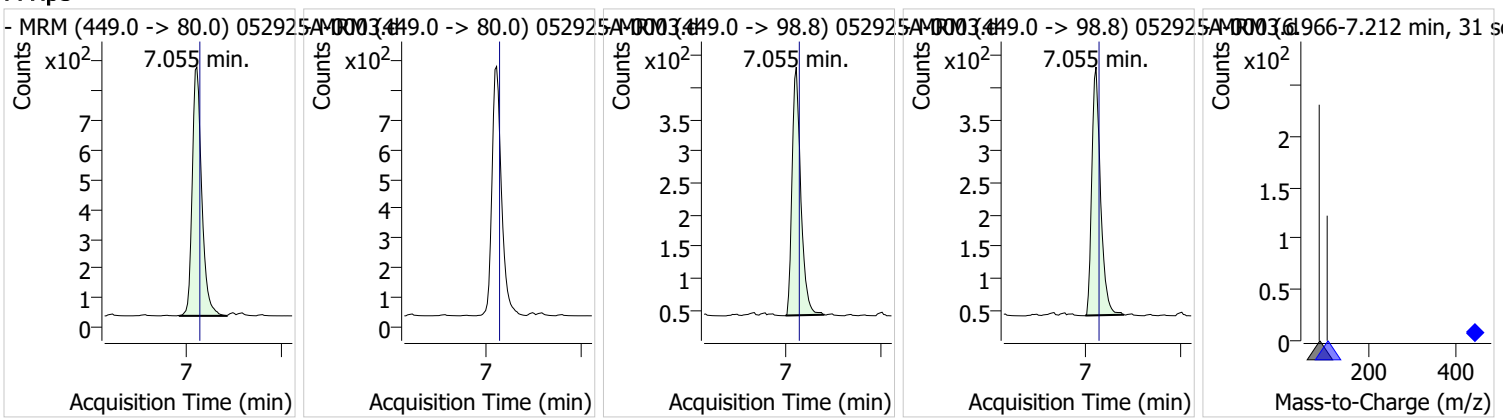
13C4-PFBA_ISTD



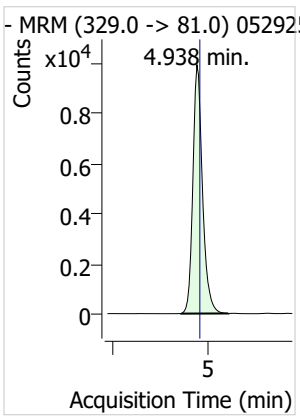
11Cl-PF3OUdS

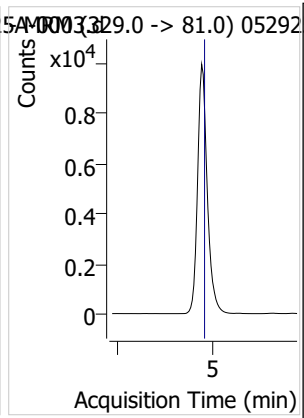


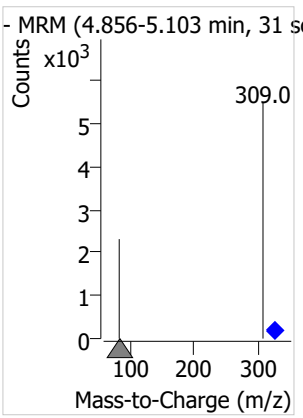
PFHpS



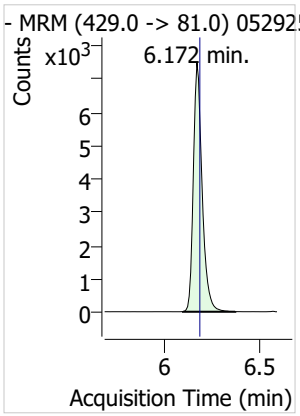
13C2-4:2FTS

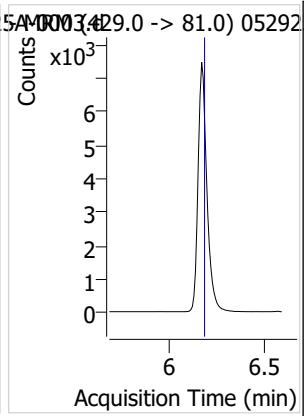


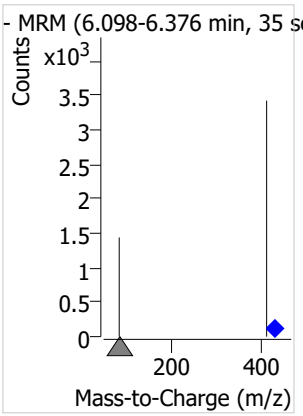




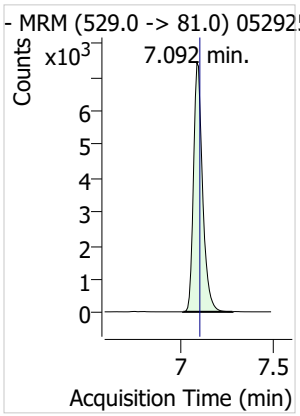
13C2-6:2FTS

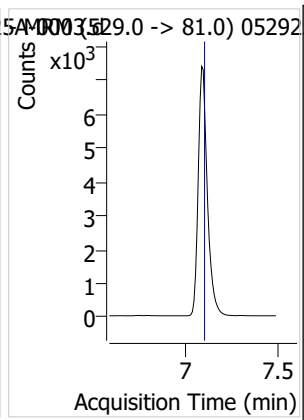


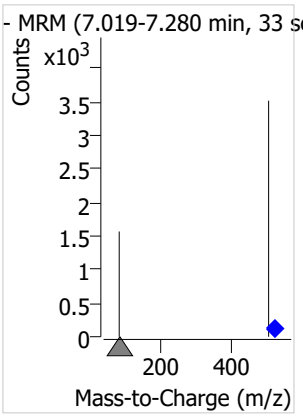




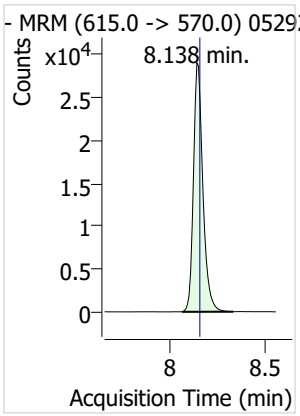
13C2-8:2FTS

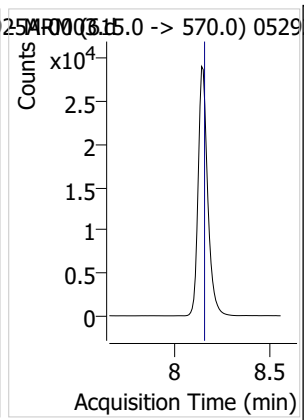


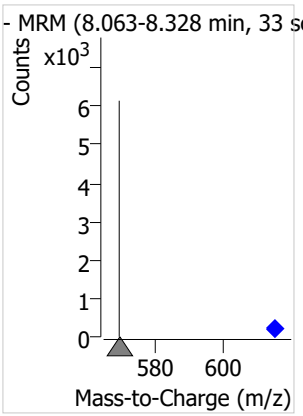




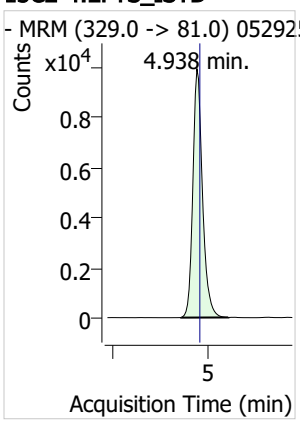
13C2-PFDoA

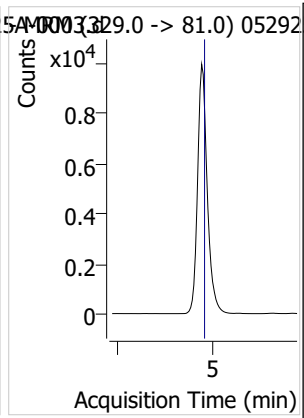


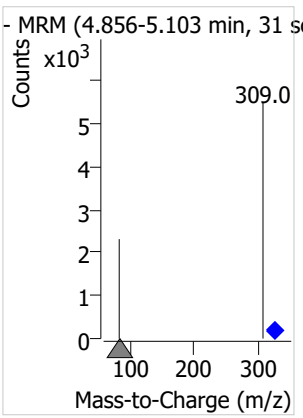




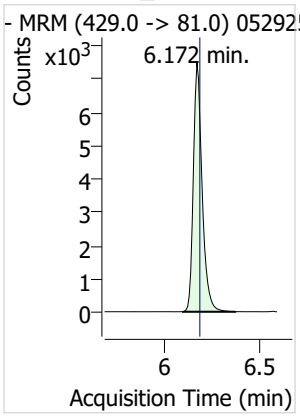
13C2-4:2FTS_ISTD

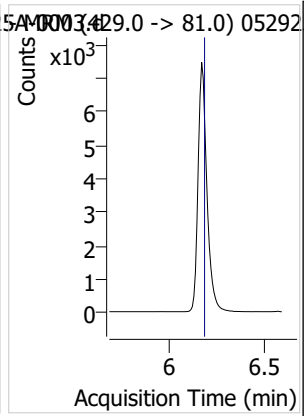


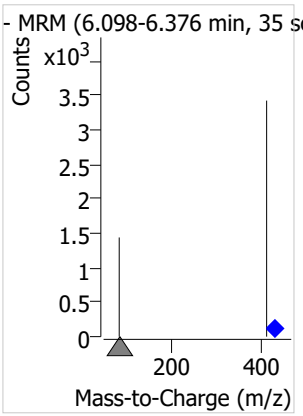




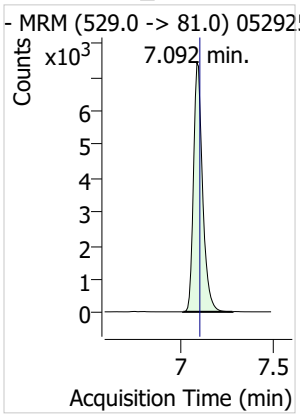
13C2-6:2FTS_ISTD

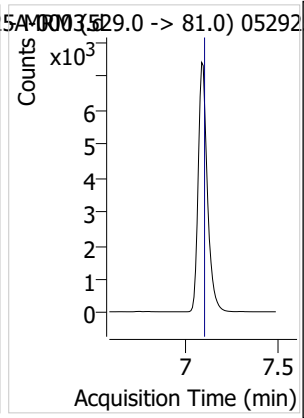


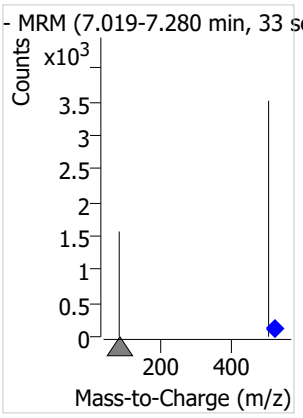




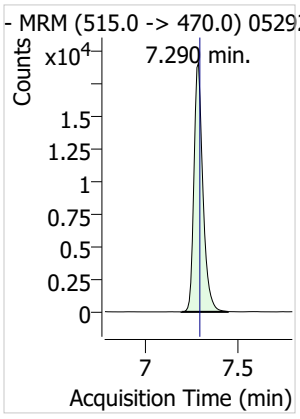
13C2-8:2FTS_ISTD

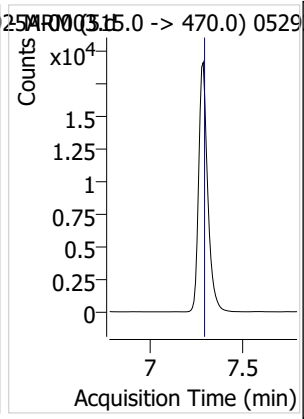


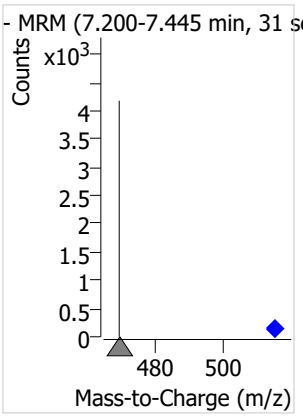




13C2-PFDA



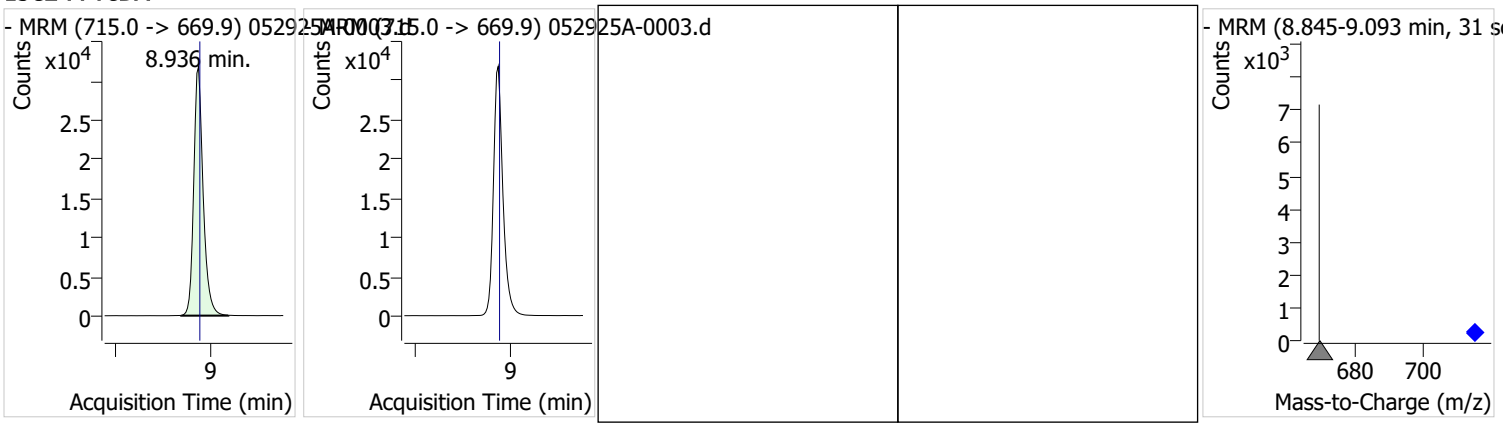




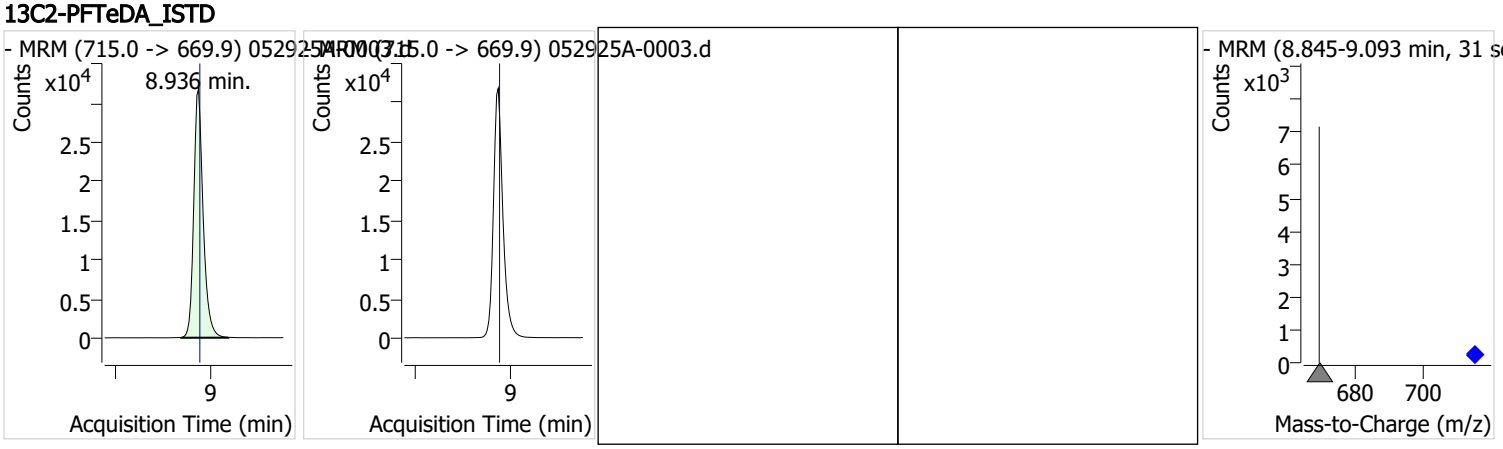
13C2-PFHxA



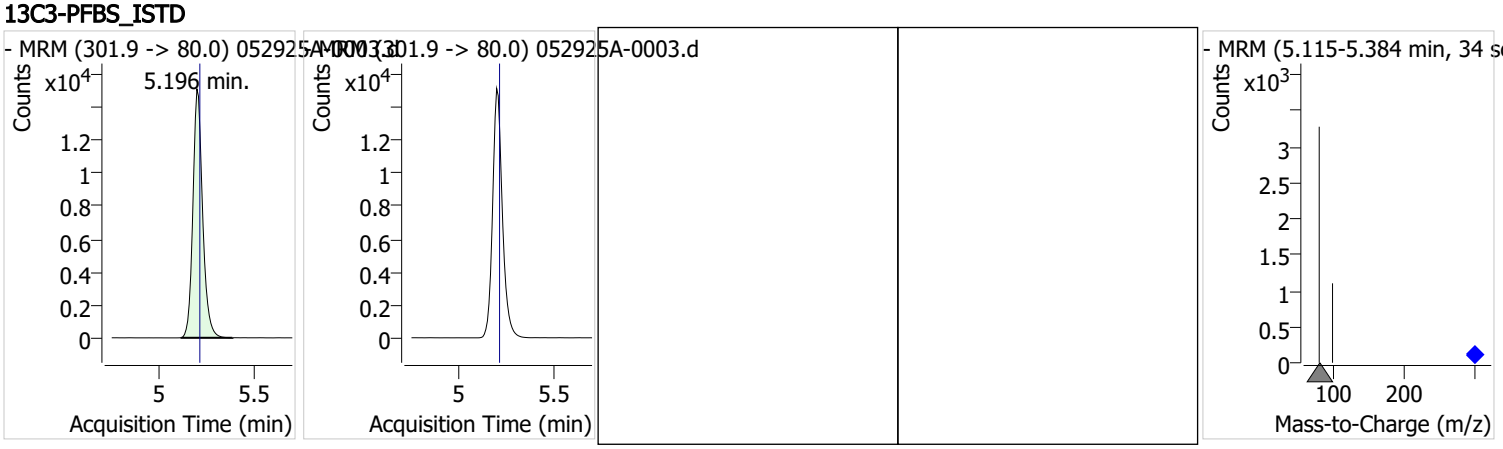
13C2-PFTeDA



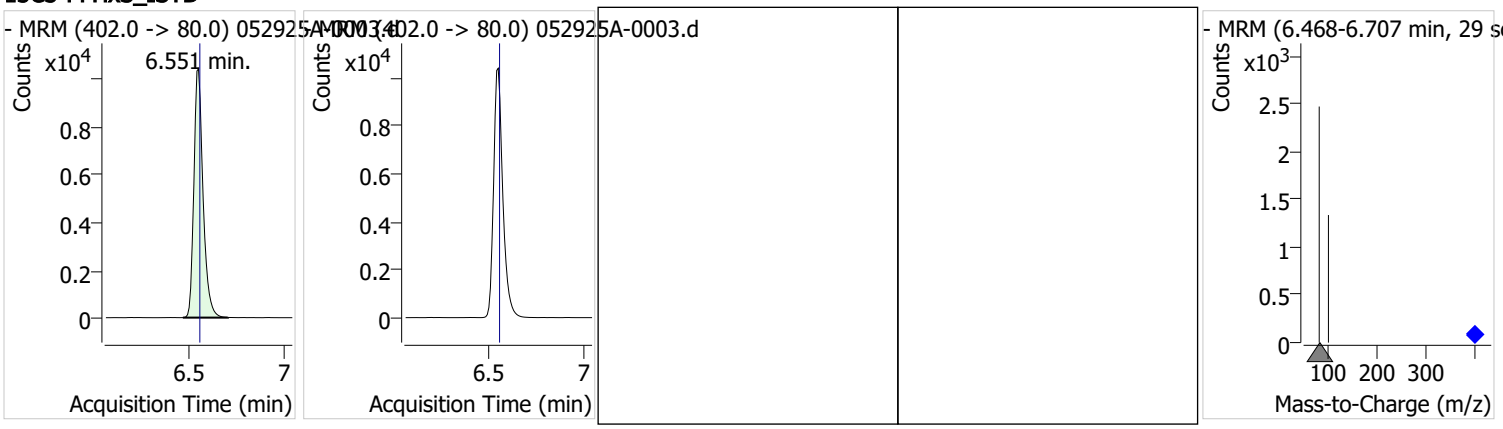
13C2-PFTeDA_ISTD



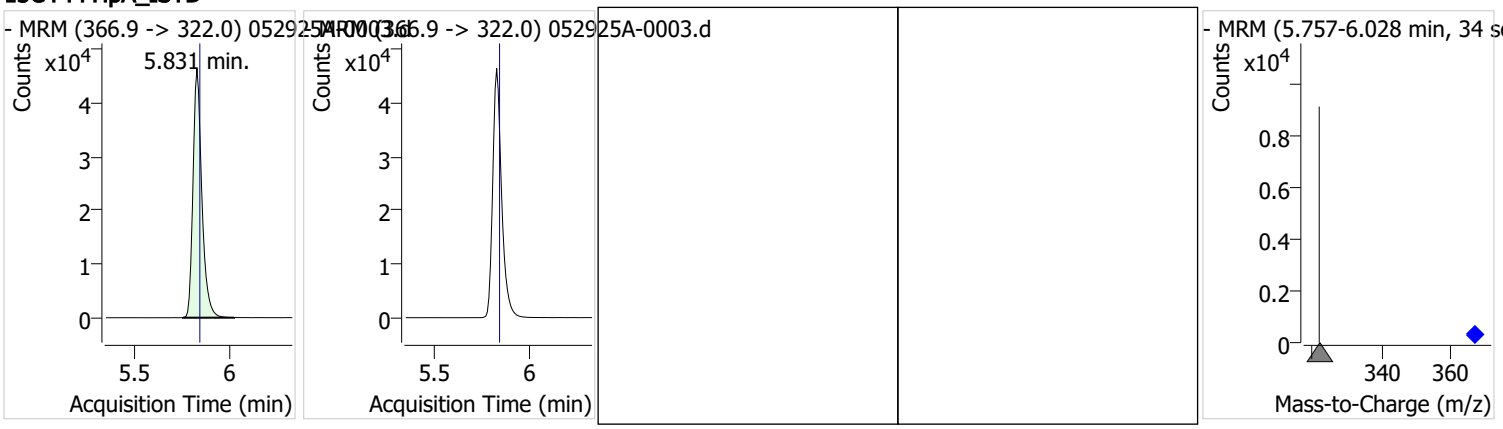
13C3-PFBS_ISTD



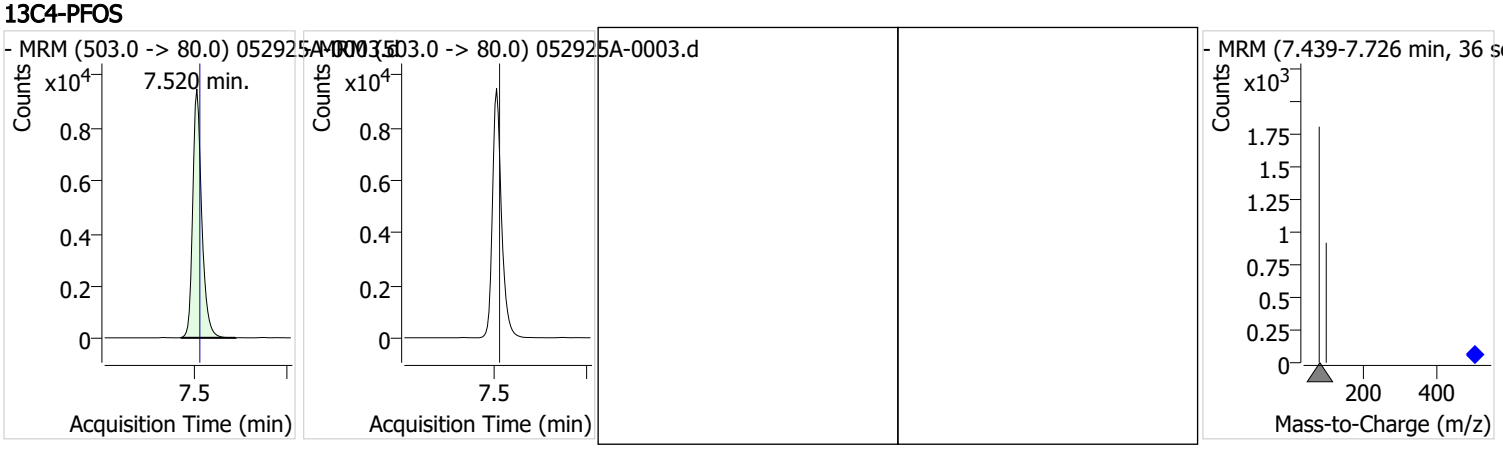
13C3-PFHxS_ISTD



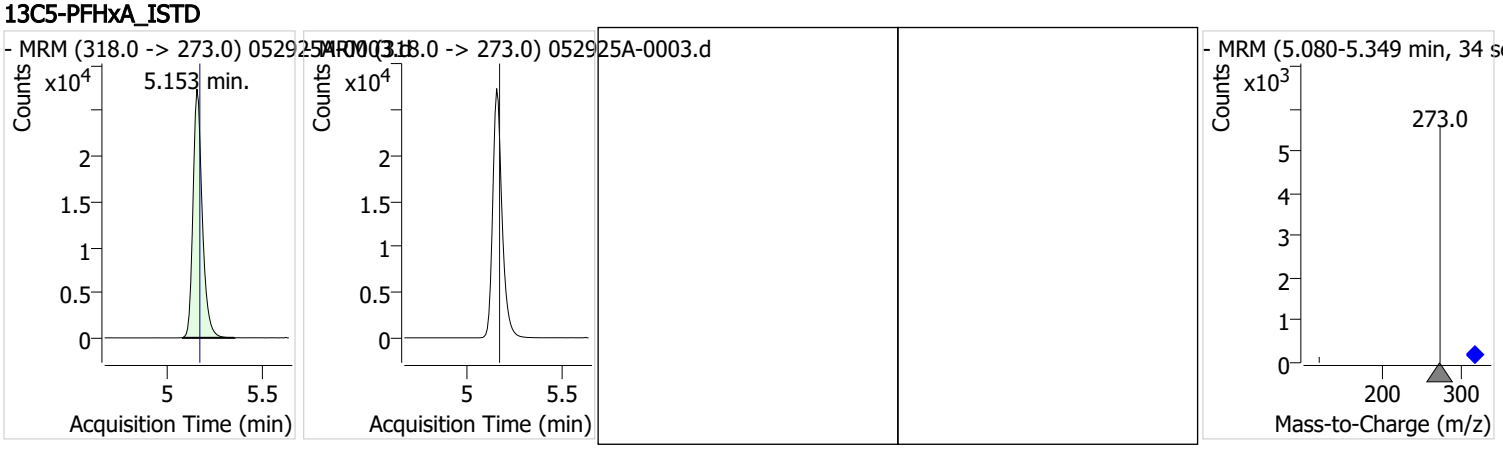
13C4-PFHpA_ISTD



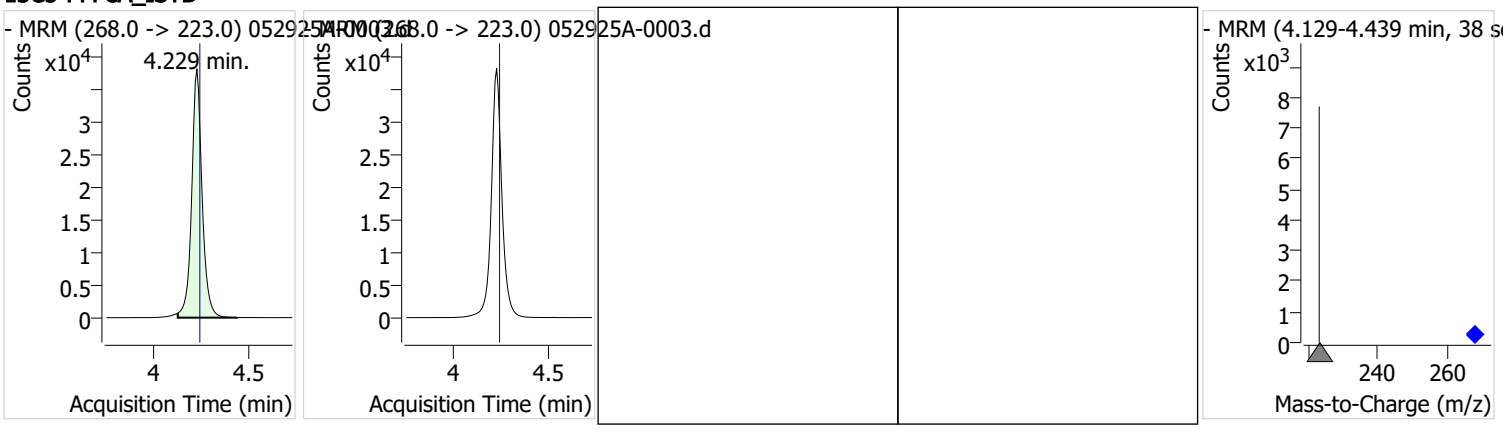
13C4-PFOS



13C5-PFHxA_ISTD



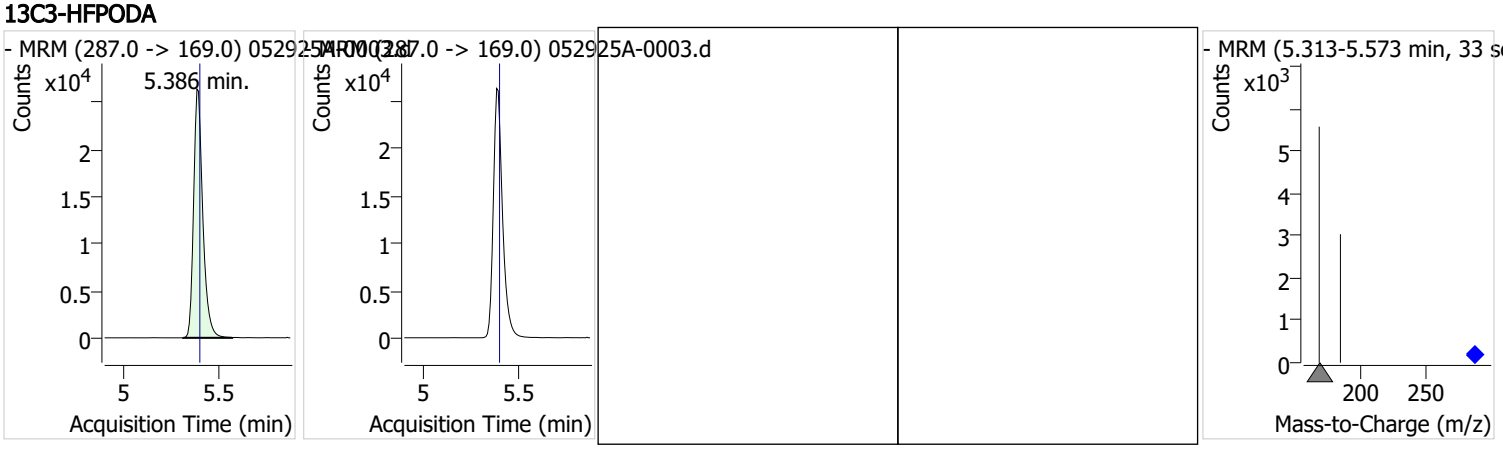
13C5-PFPeA_ISTD



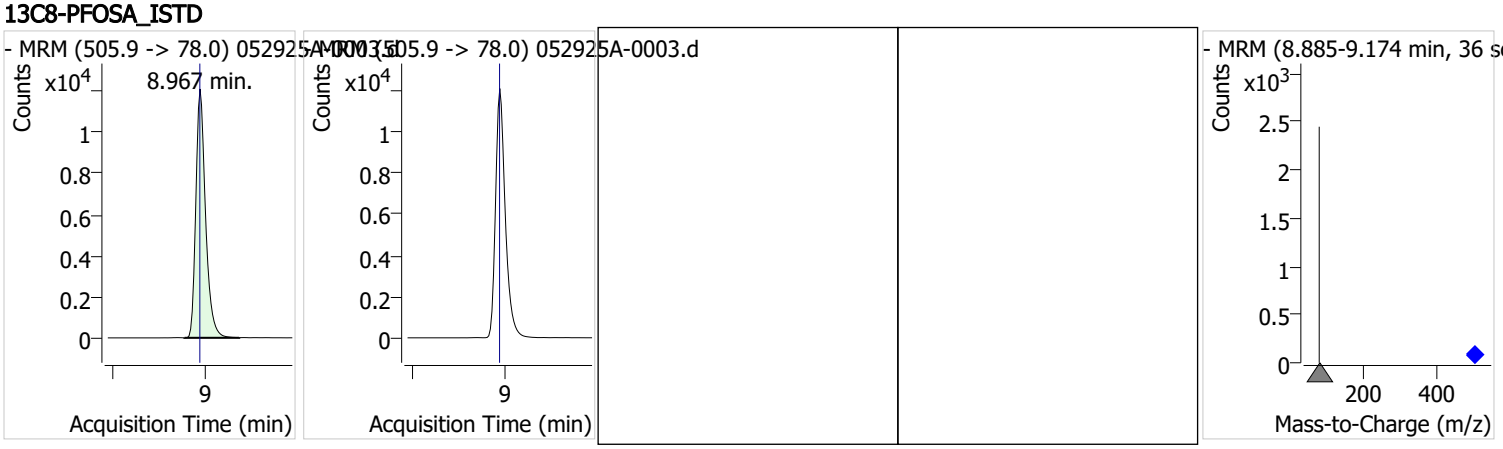
13C6-PFDA_ISTD



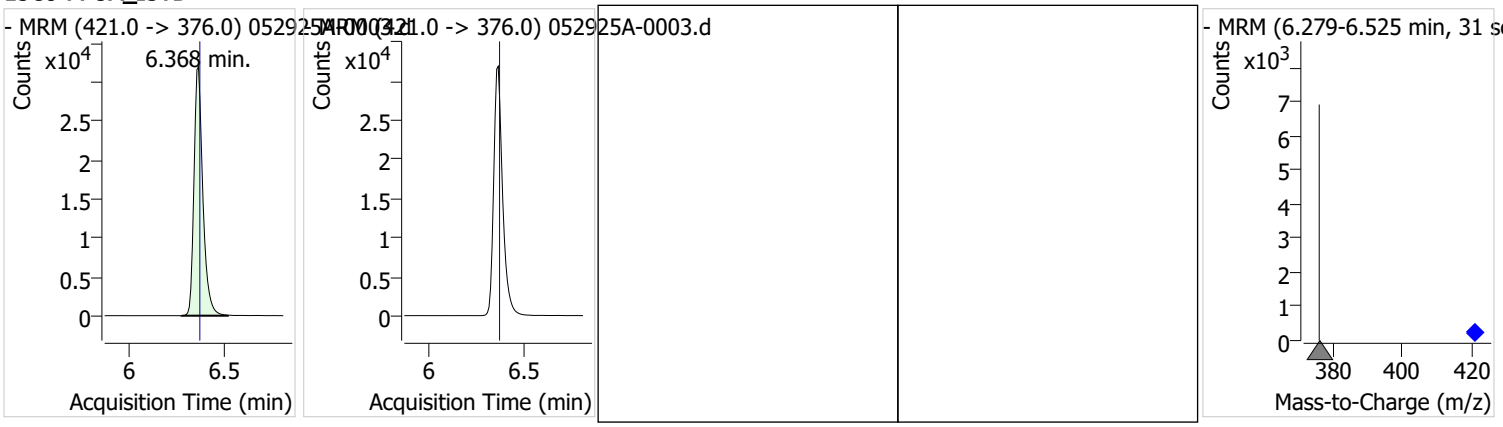
13C3-HFPODA



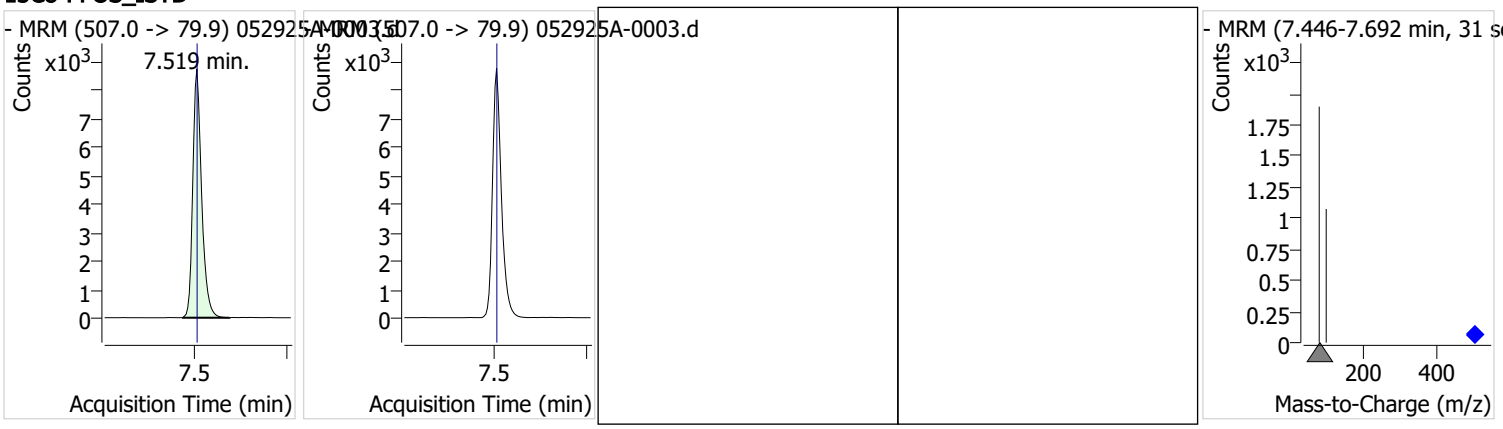
13C8-PFOSA_ISTD



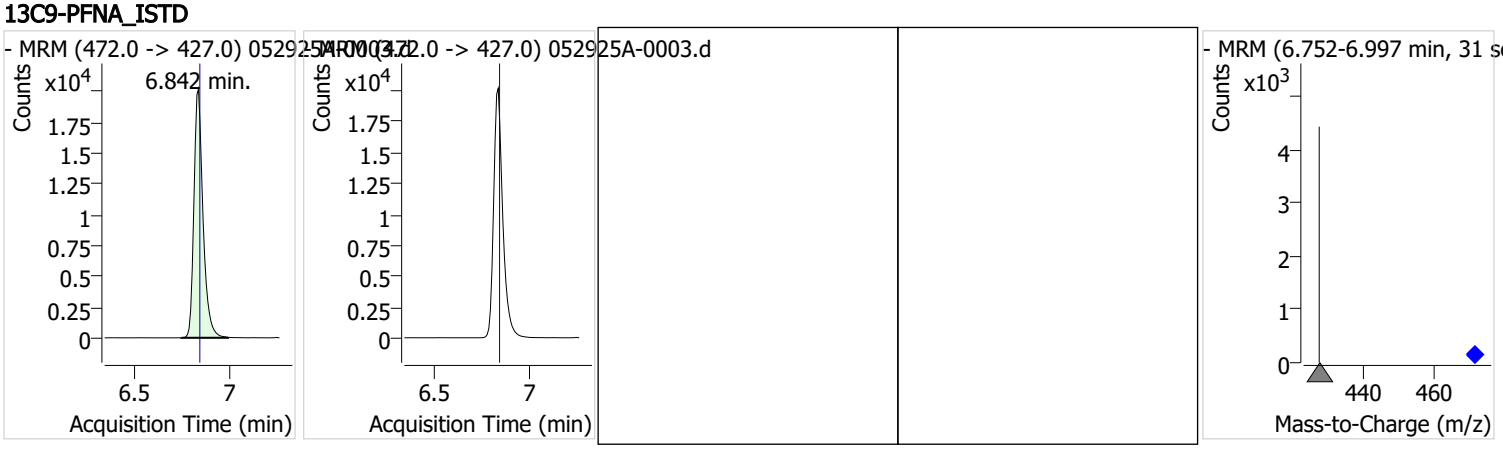
13C8-PFOA_ISTD



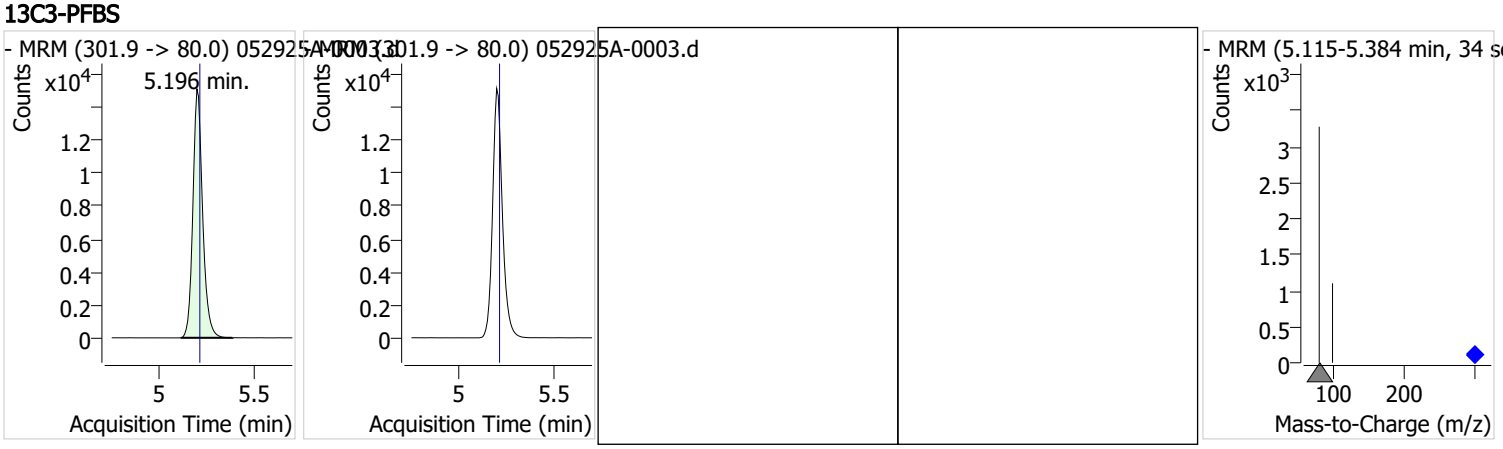
13C8-PFOS_ISTD



13C9-PFNA_ISTD



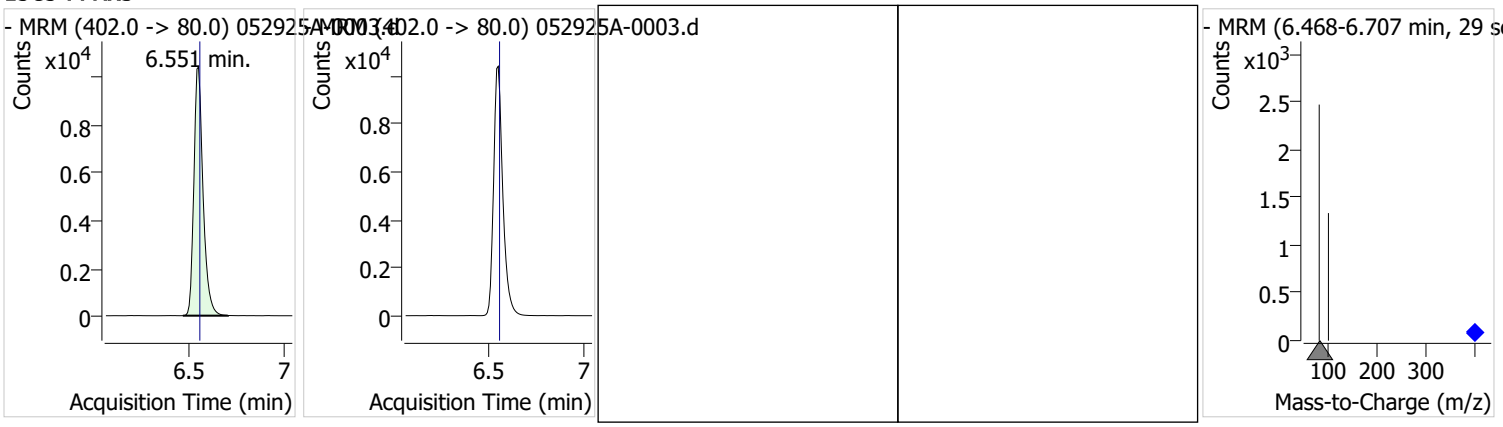
13C3-PFBS



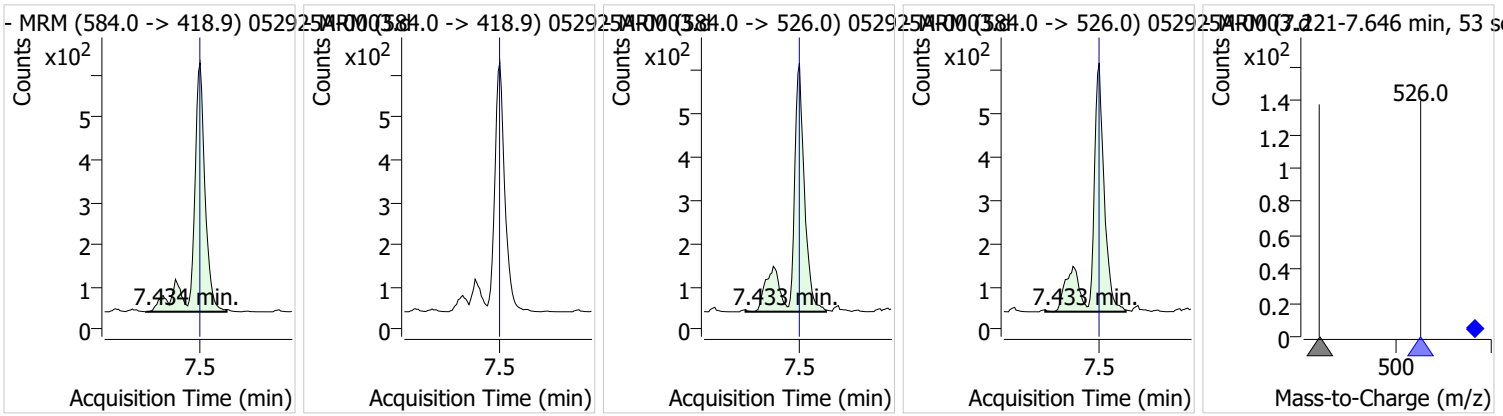
13C2-PFDoA_ISTD



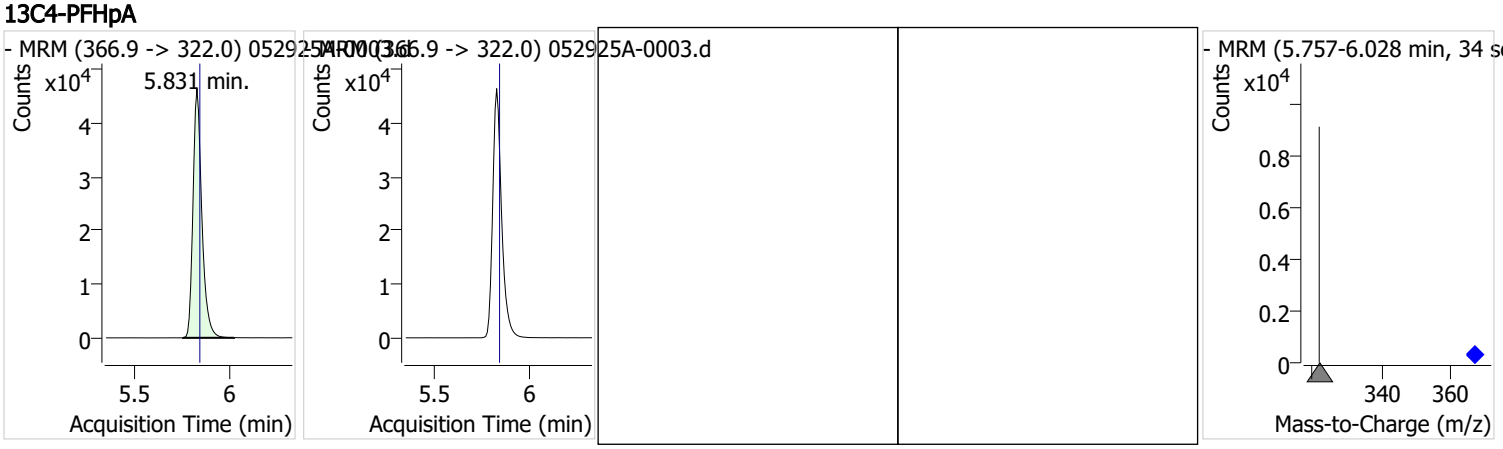
13C3-PFHxS



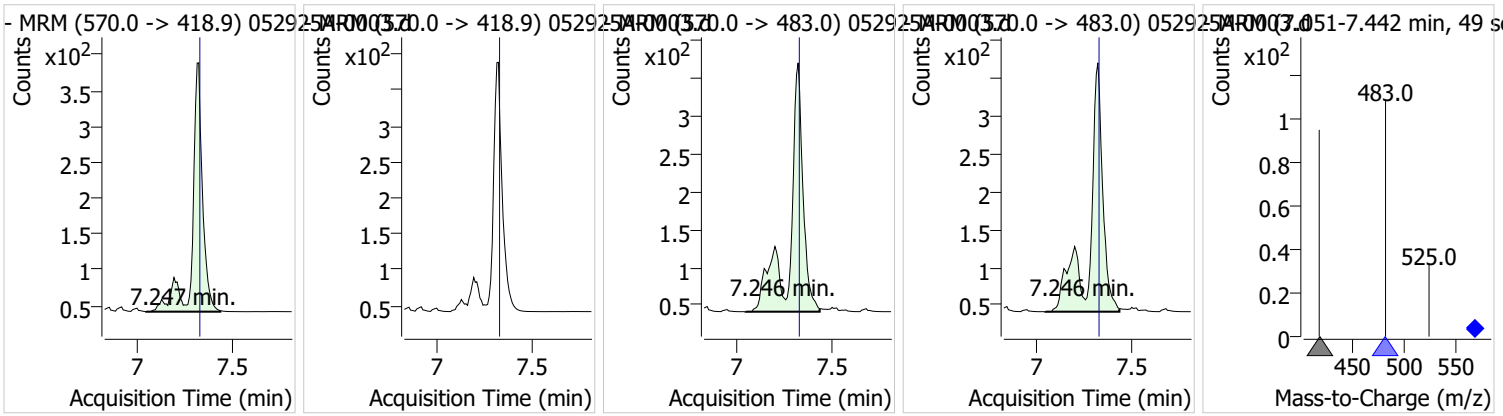
NEtFOSAA



13C4-PFHpA



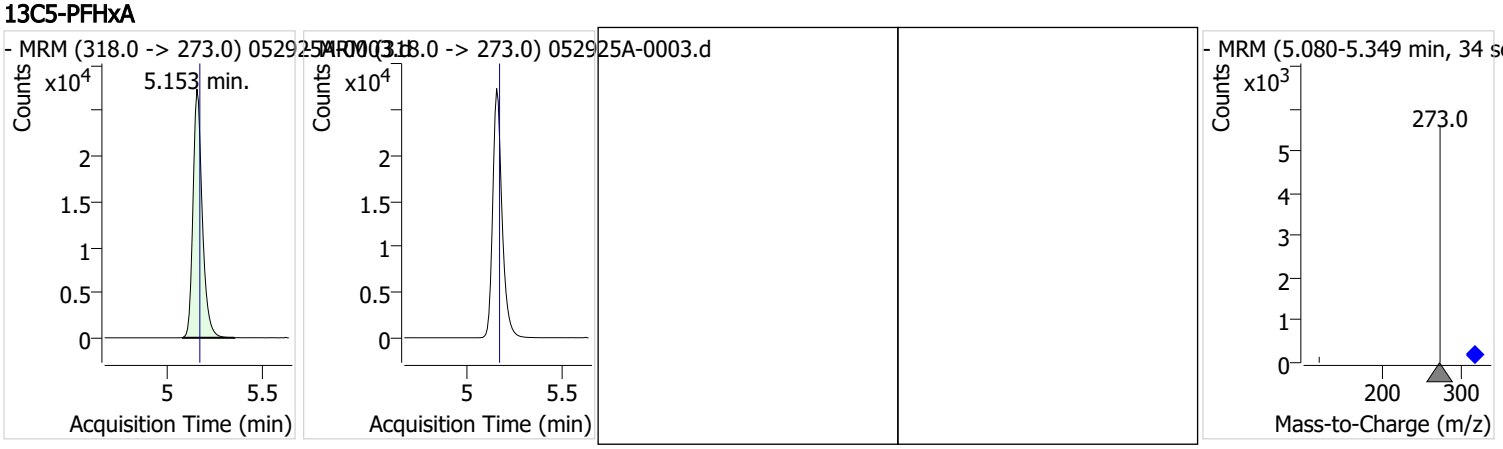
NMeFOSAA



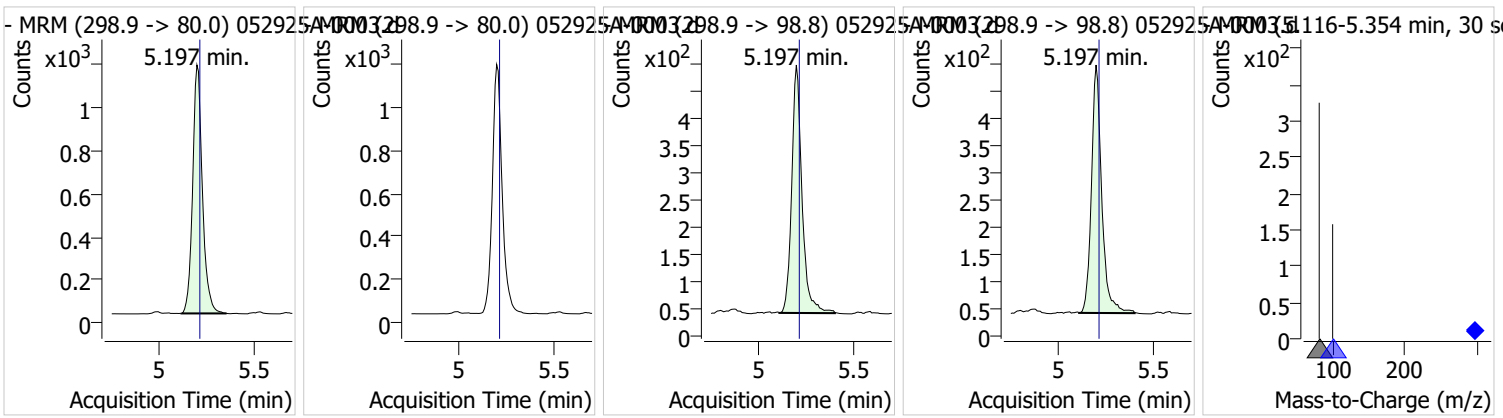
PFBA



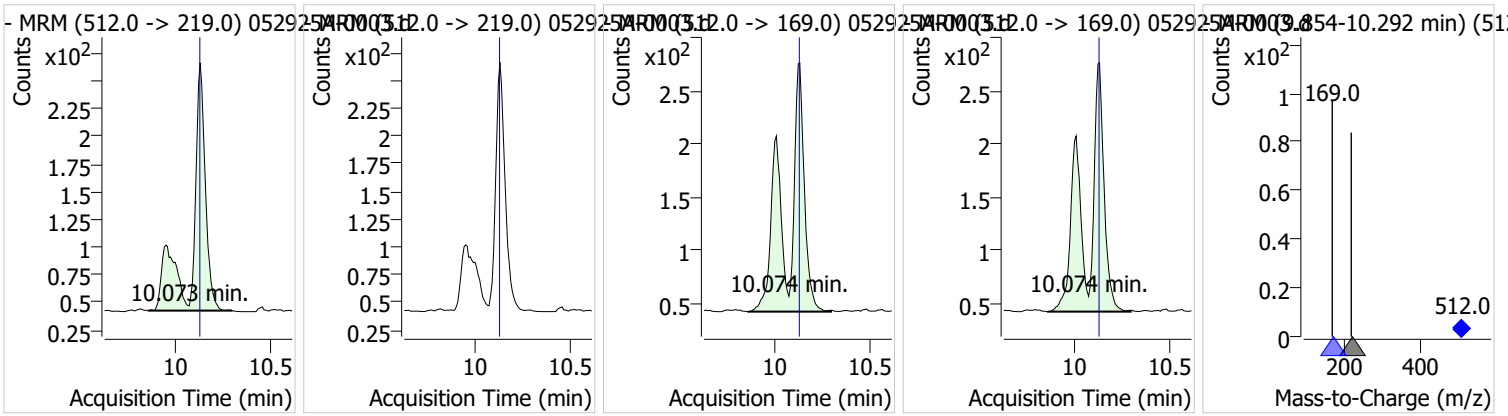
13C5-PFHxA



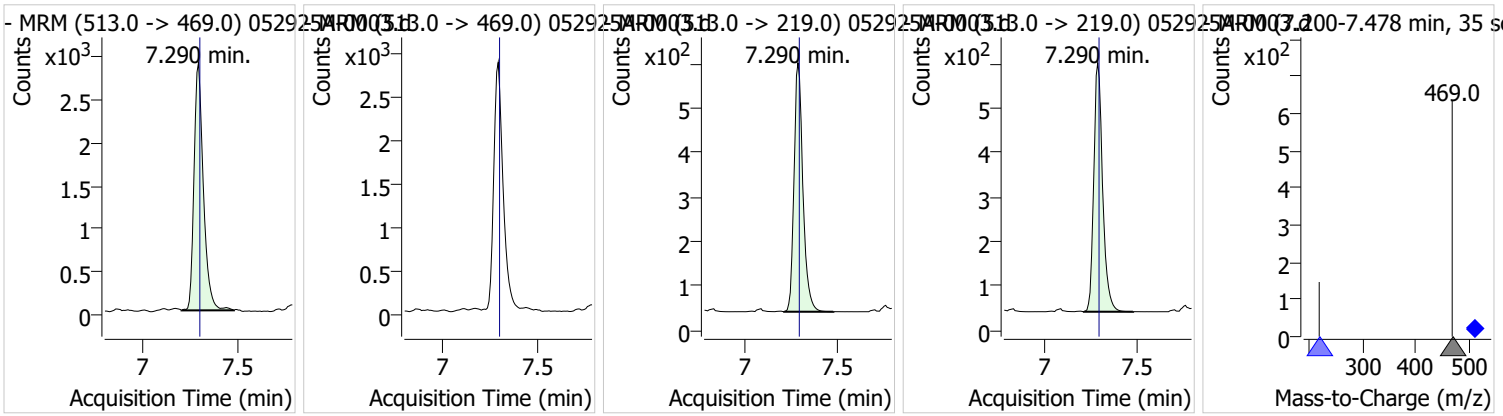
PFBS



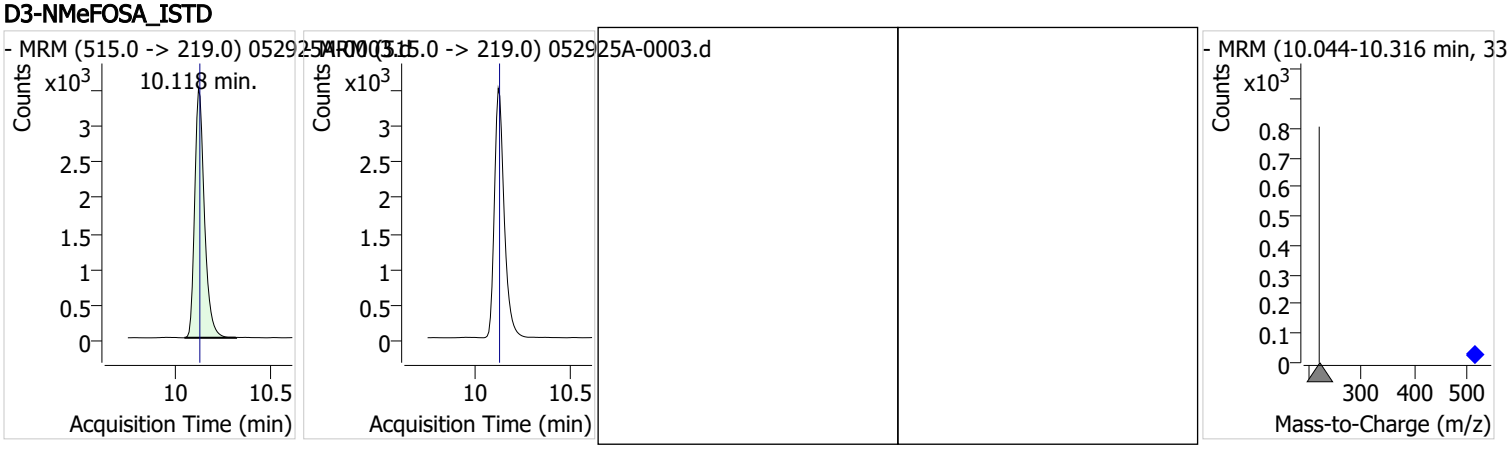
NMeFOSA



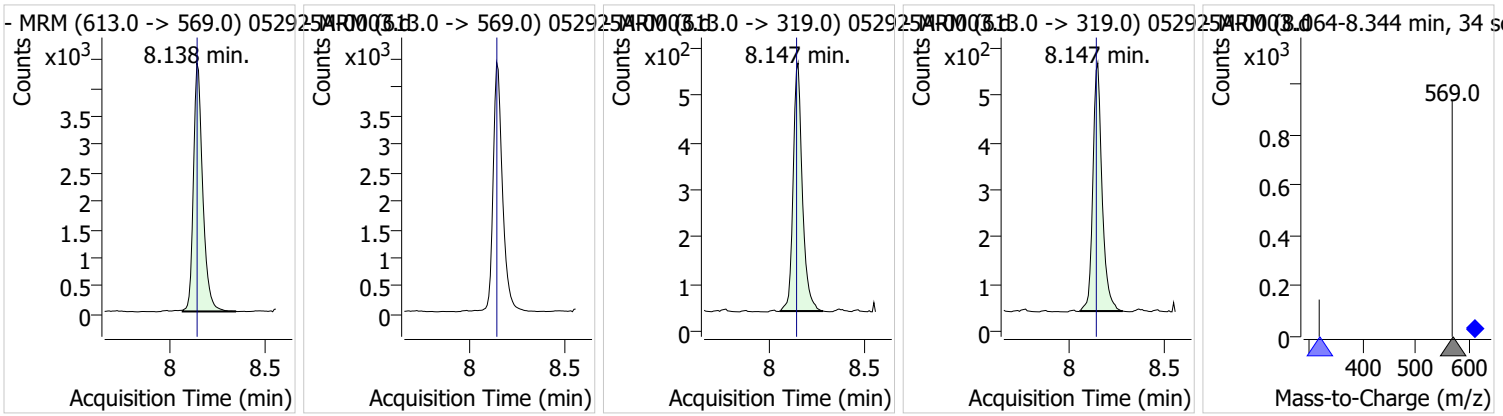
PFDA



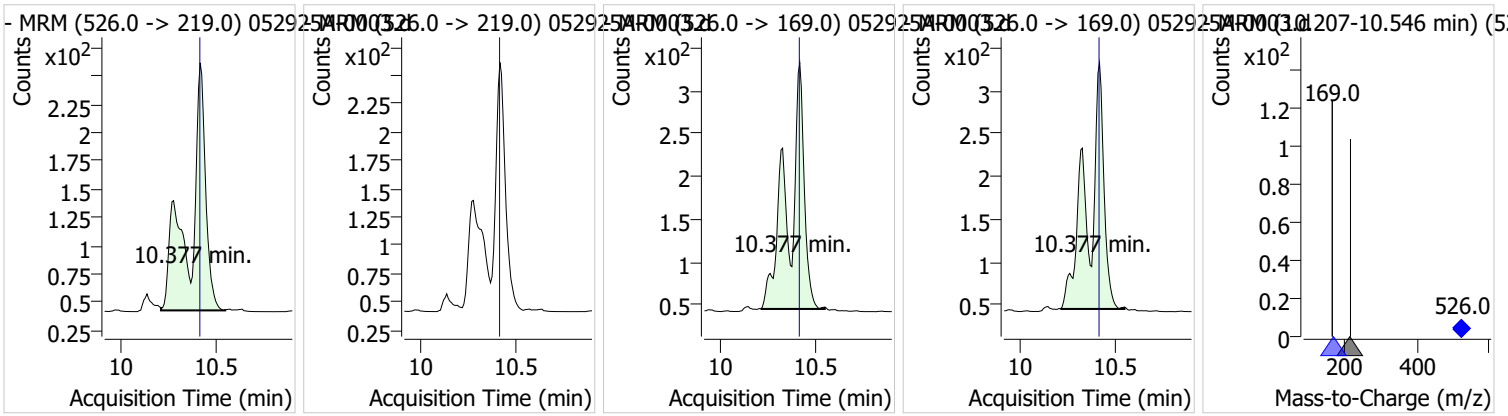
D3-NMeFOSA_ISTD



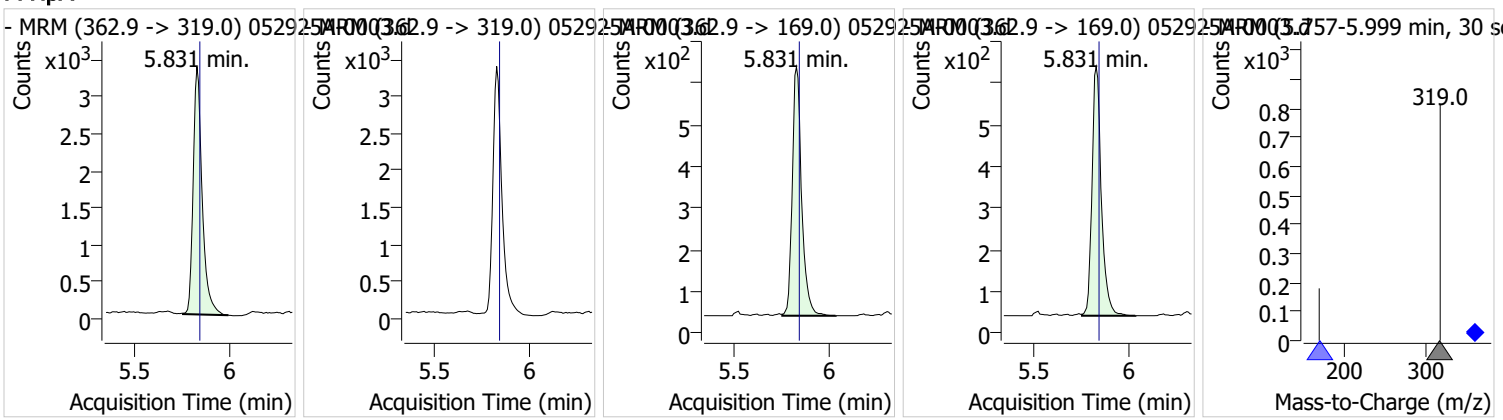
PFDoA



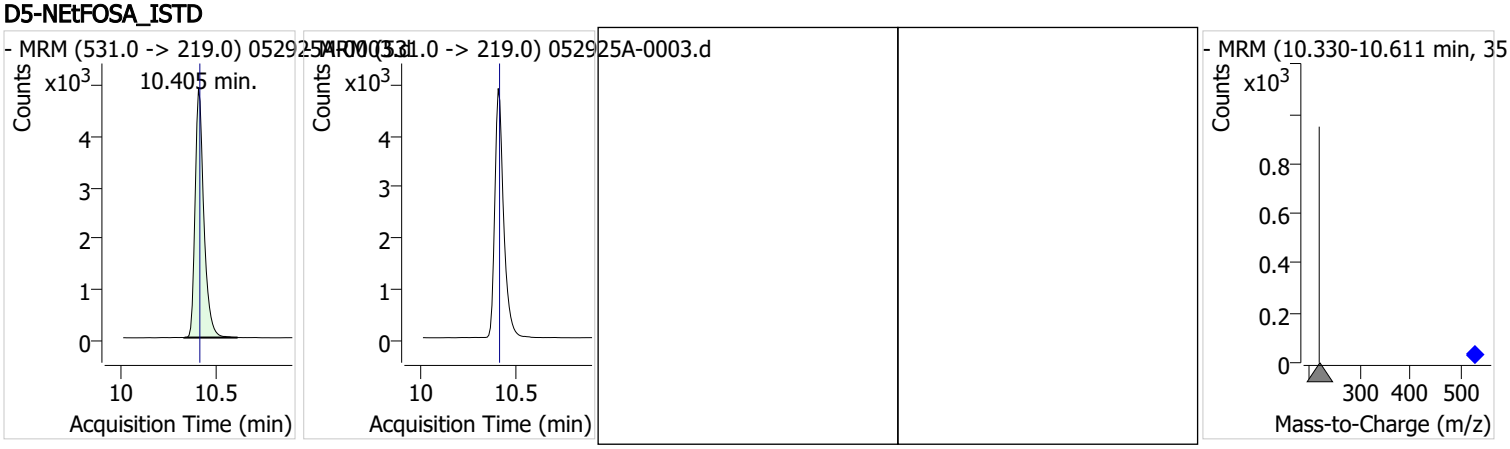
NEtFOSA



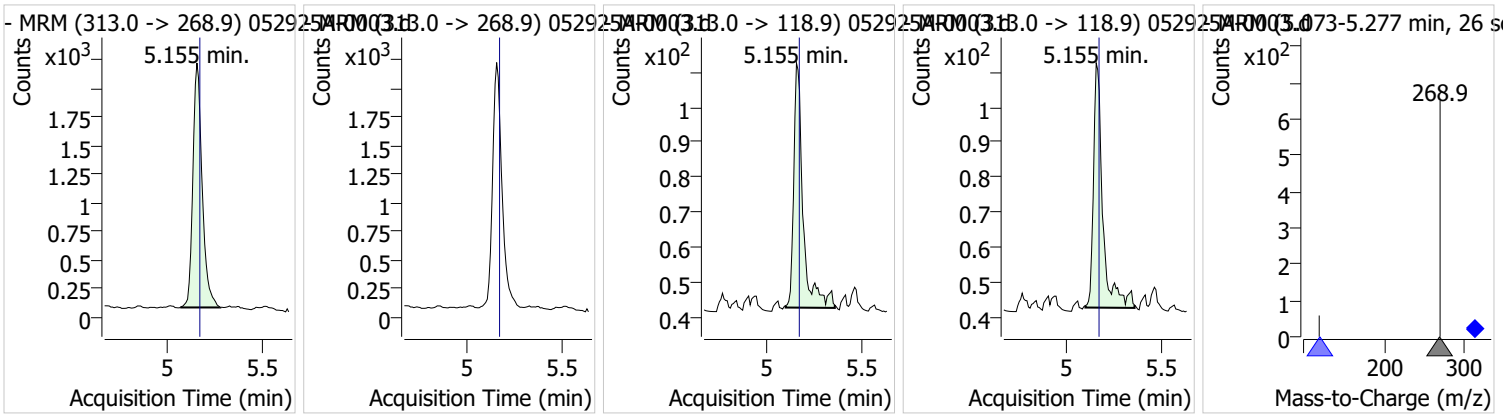
PFHpA



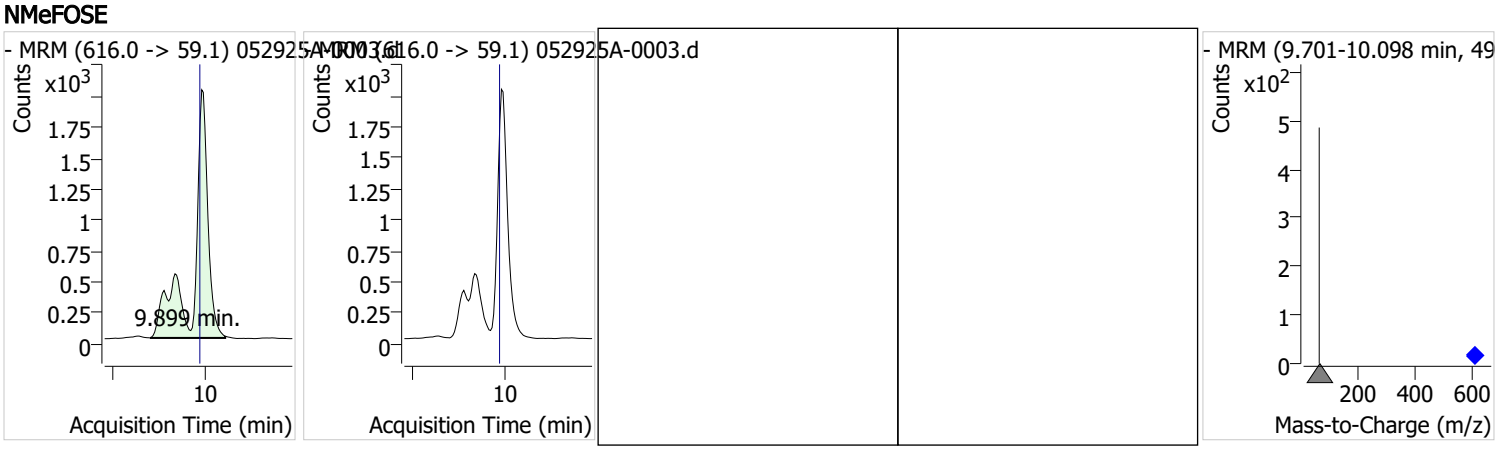
D5-NEtFOSA_ISTD



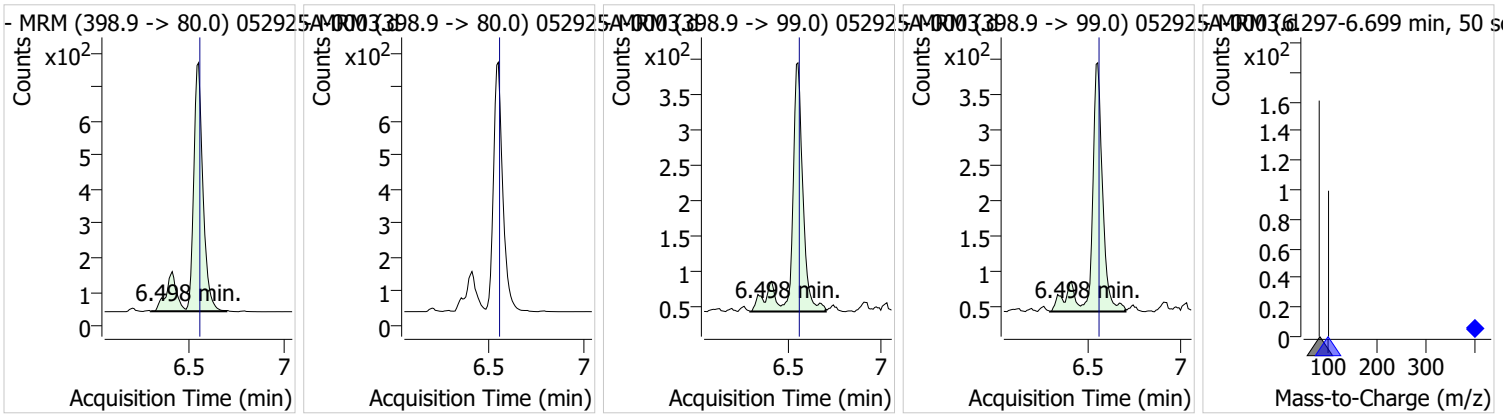
PFHxA



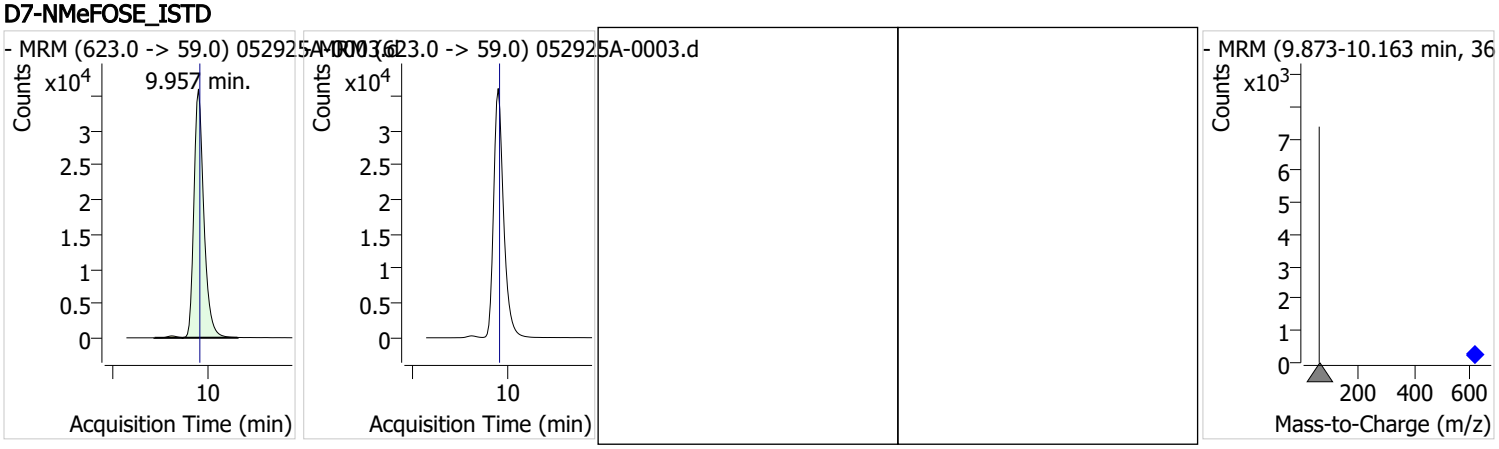
NMeFOSE



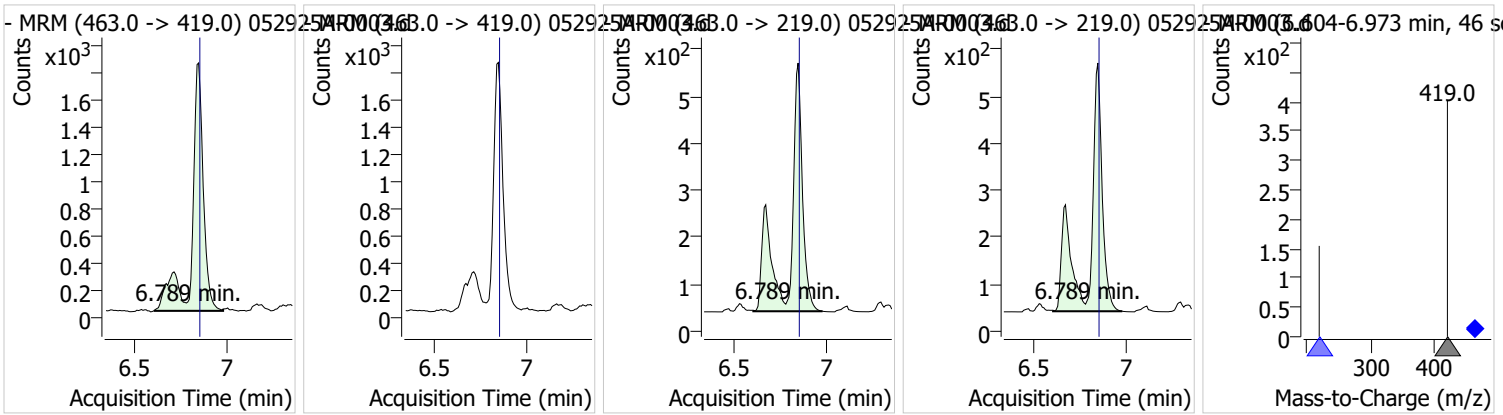
PFHxS



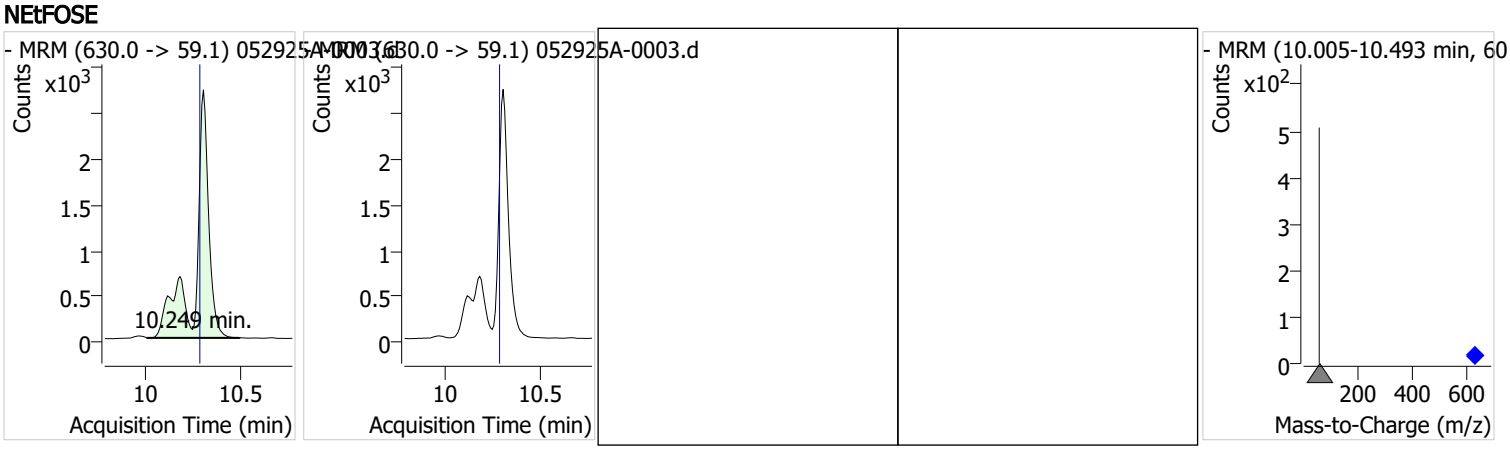
D7-NMeFOSE_ISTD



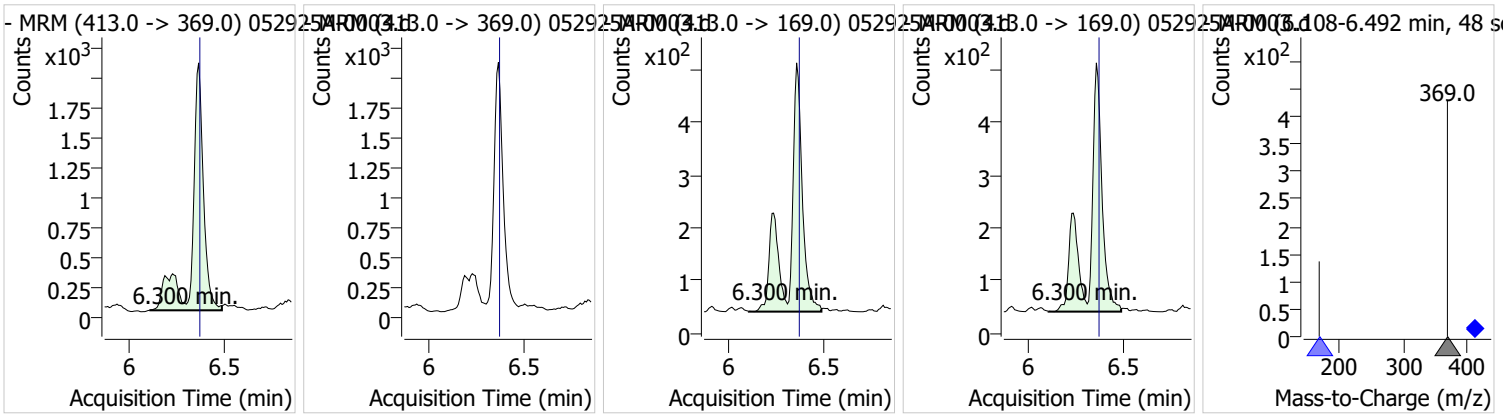
PFNA



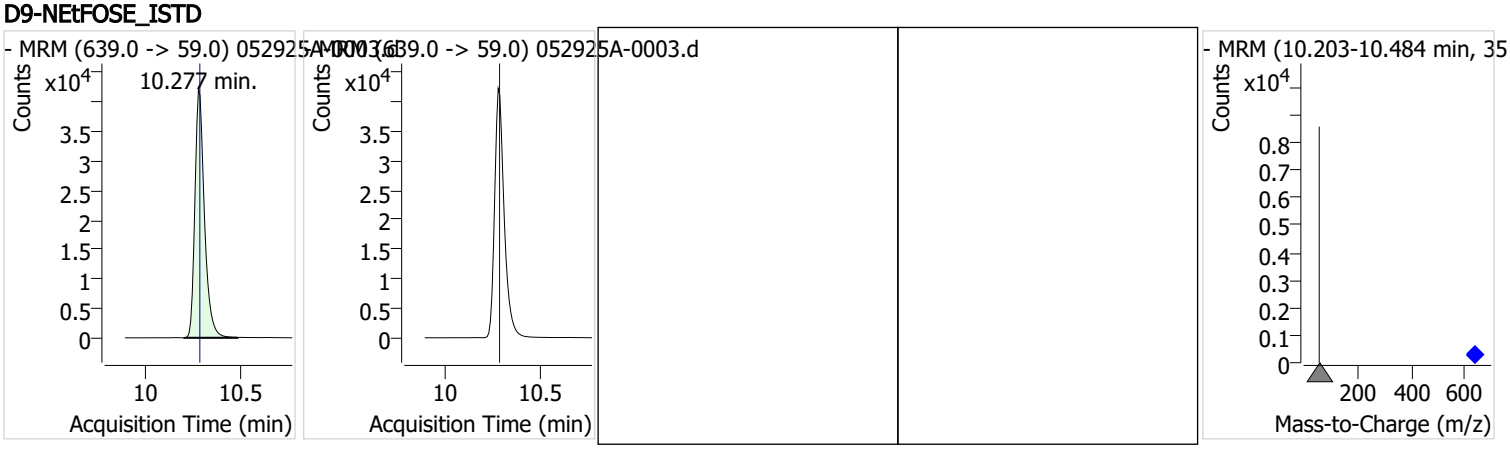
NEtFOSE



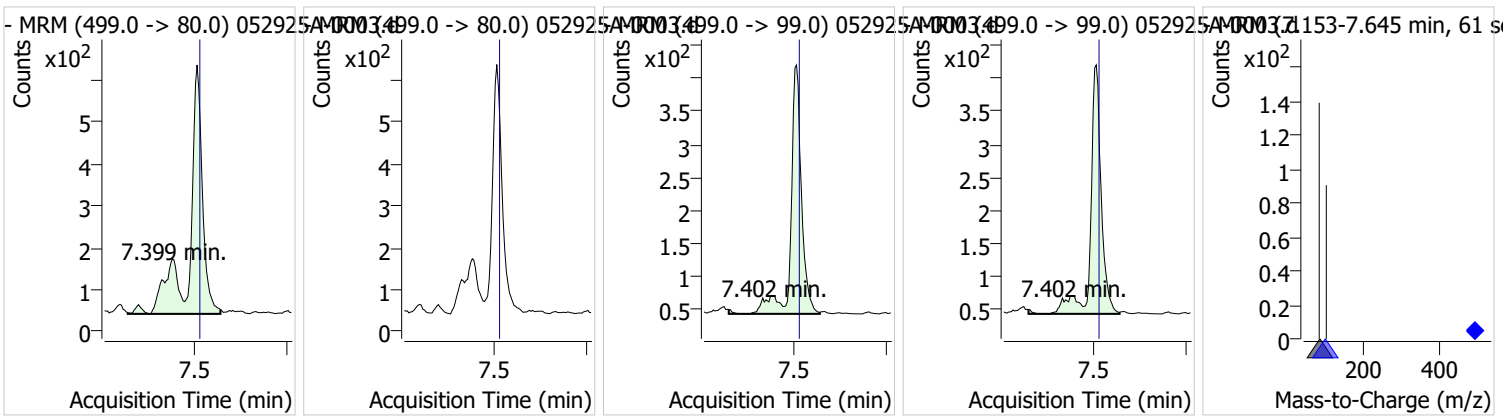
PFOA



D9-NEtFOSE_ISTD



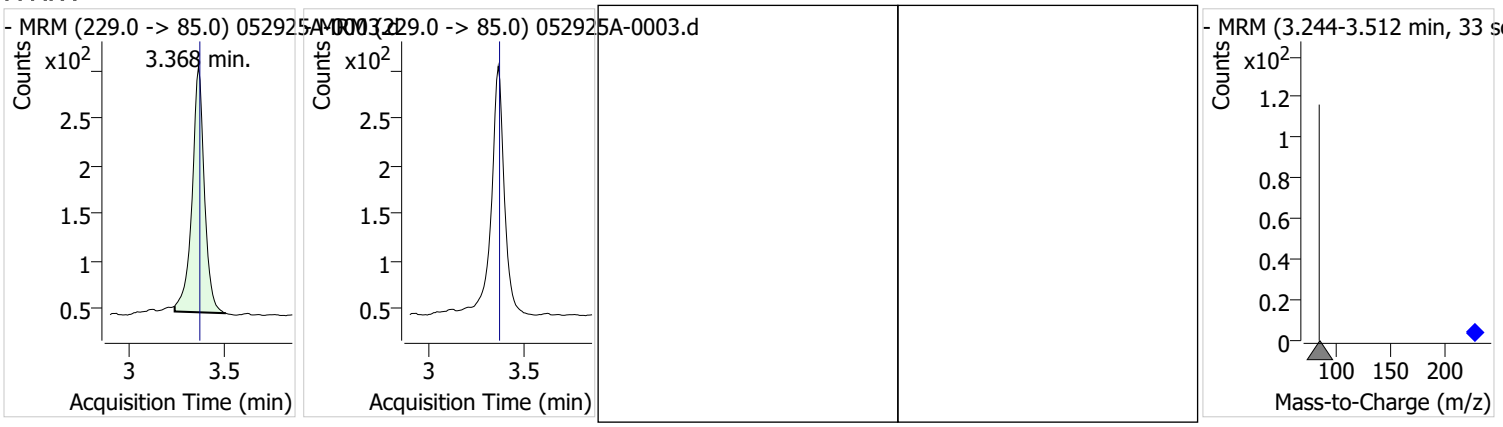
PFOS



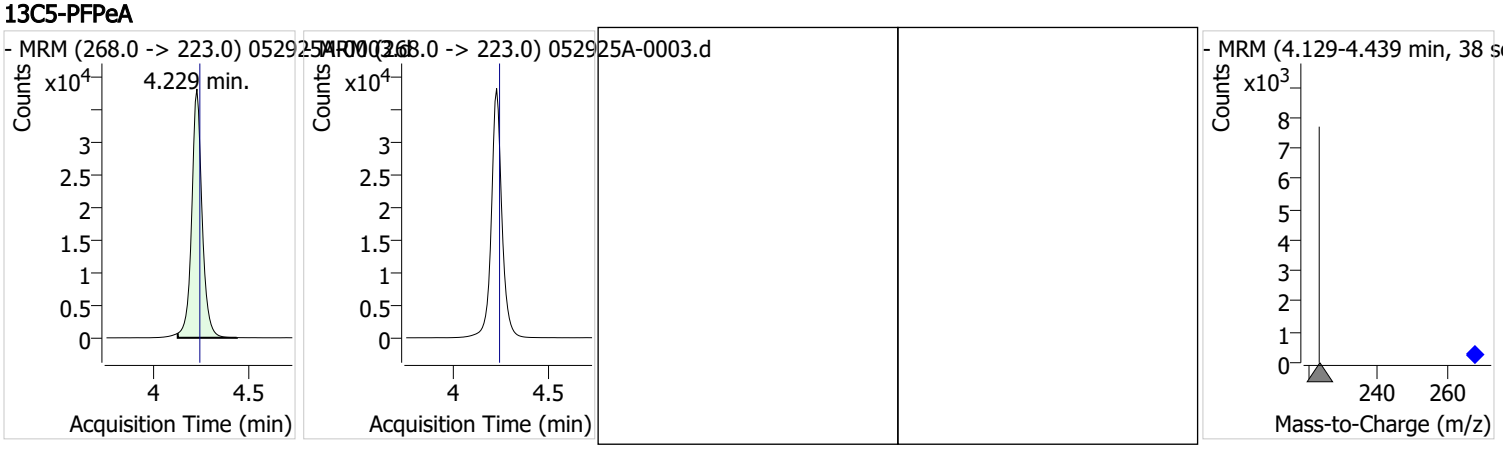
PFPeA



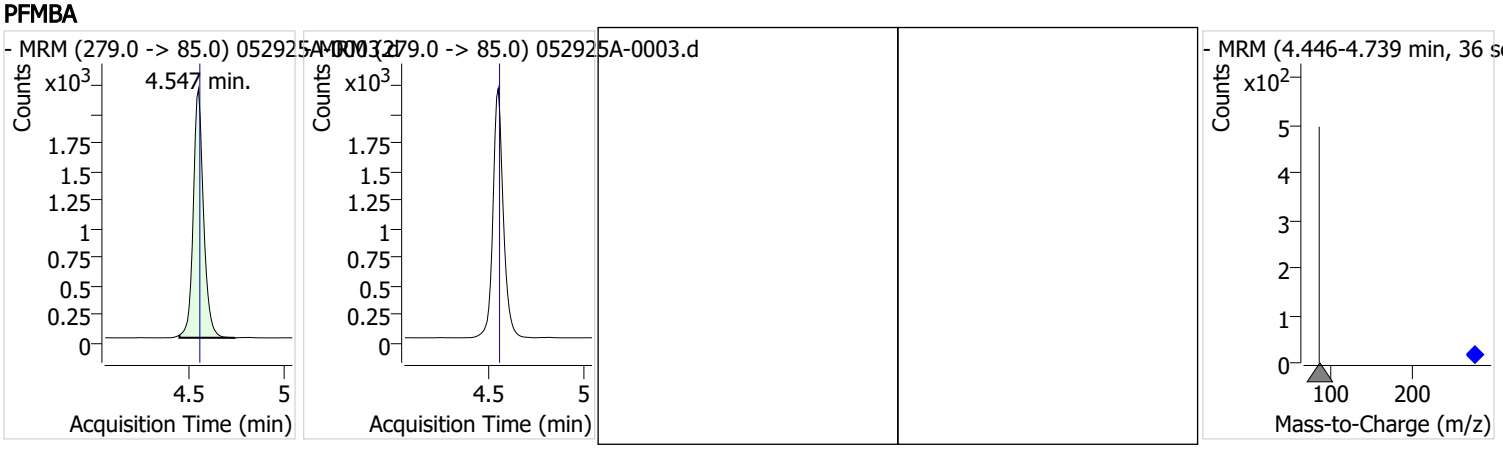
PFMPA



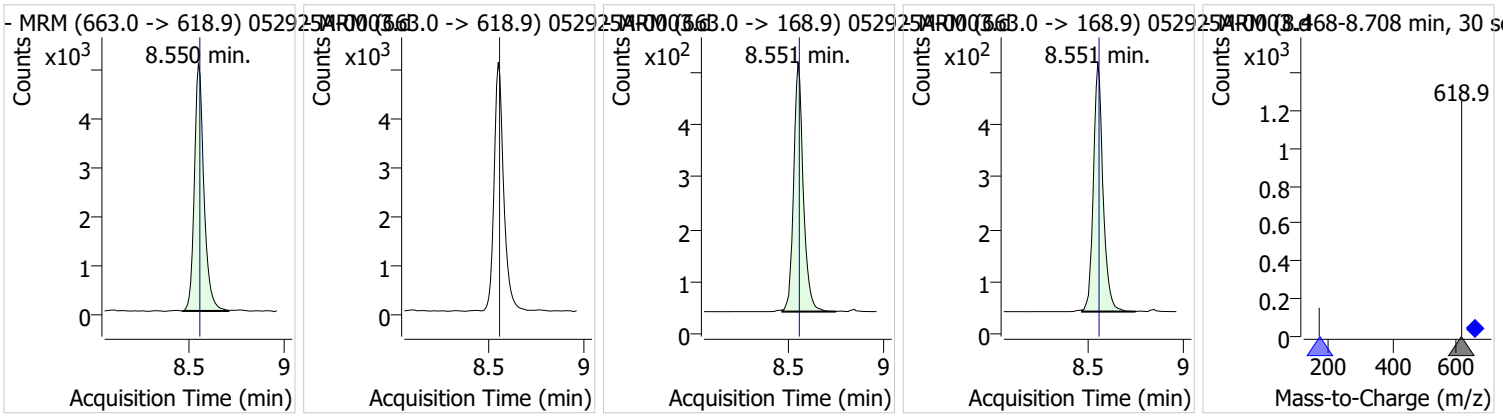
13C5-PFPeA



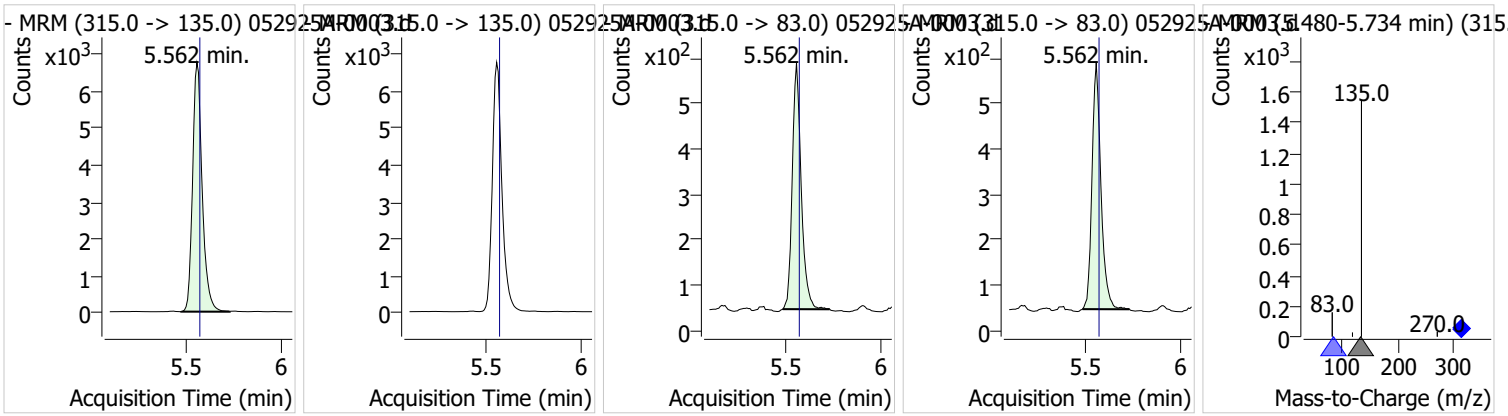
PFMBA



PFTrDA



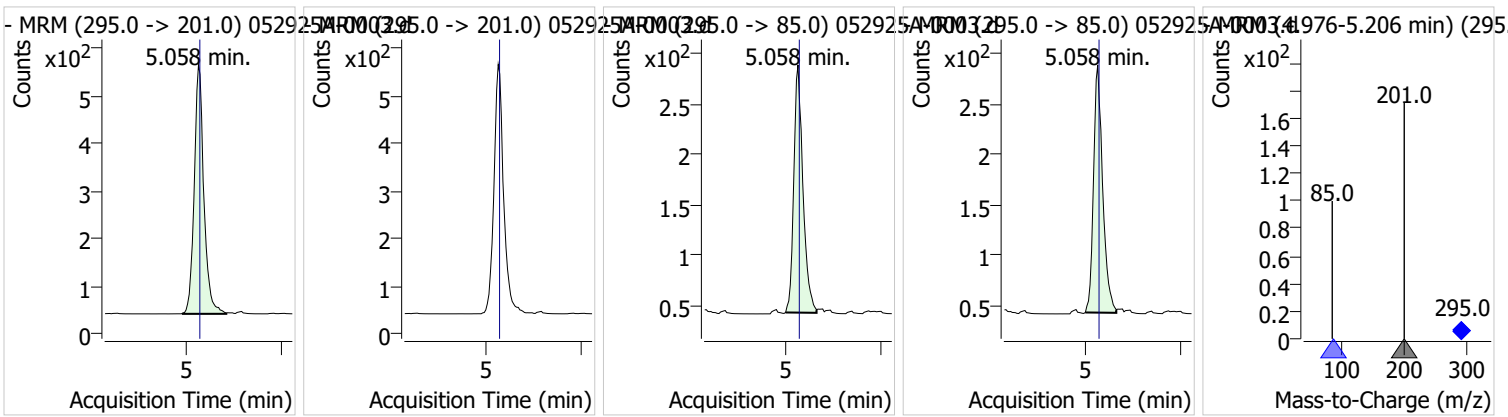
PFEESA



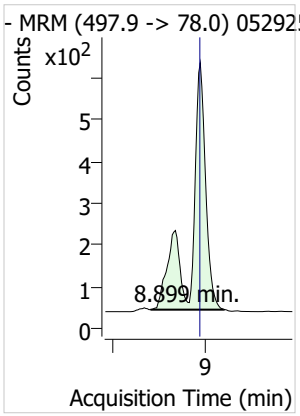
13C6-PFDA

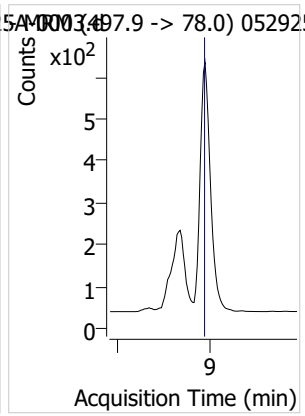


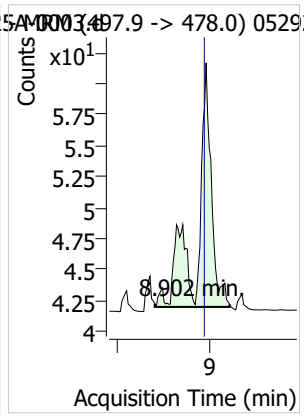
NFDHA

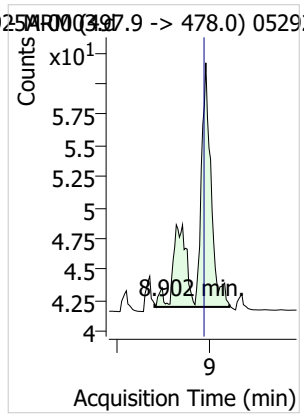


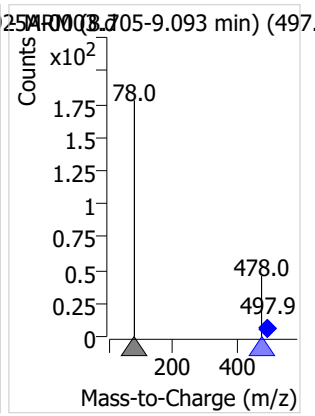
PFOSA



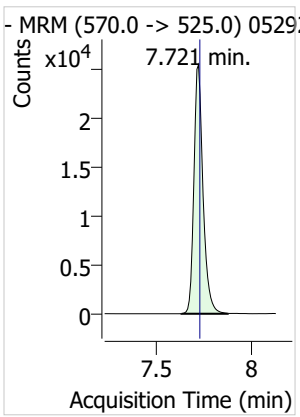


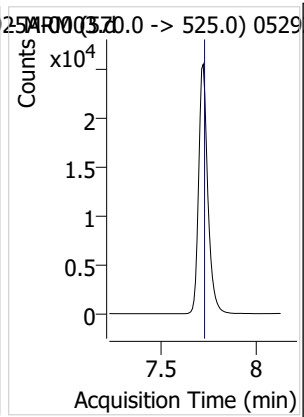


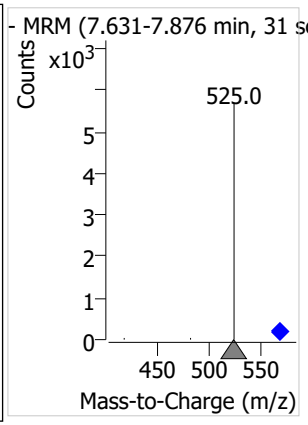




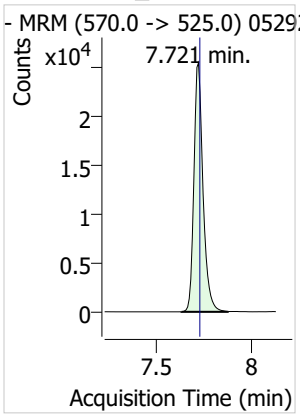
13C7-PFUnA

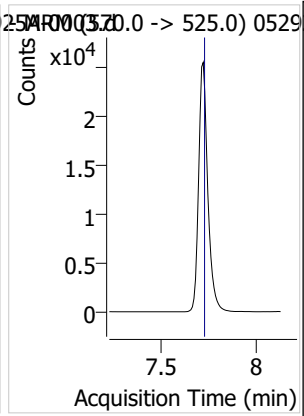


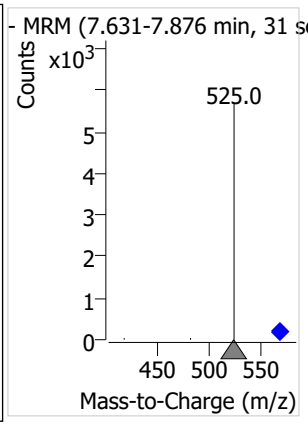




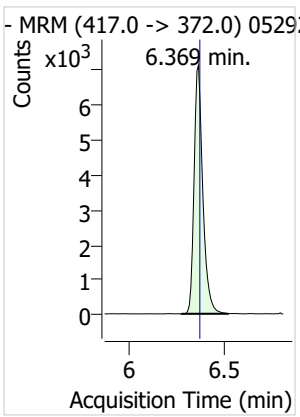
13C7-PFUnA_ISTD

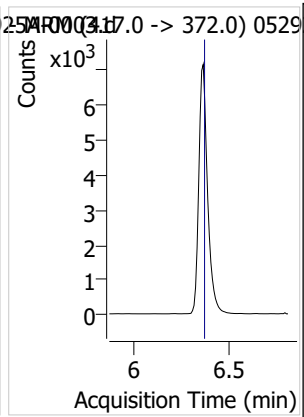


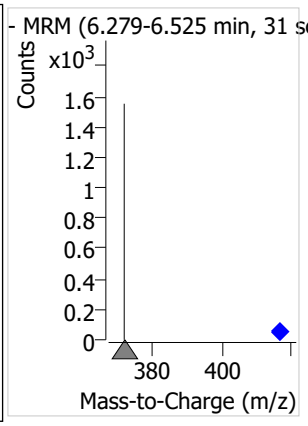




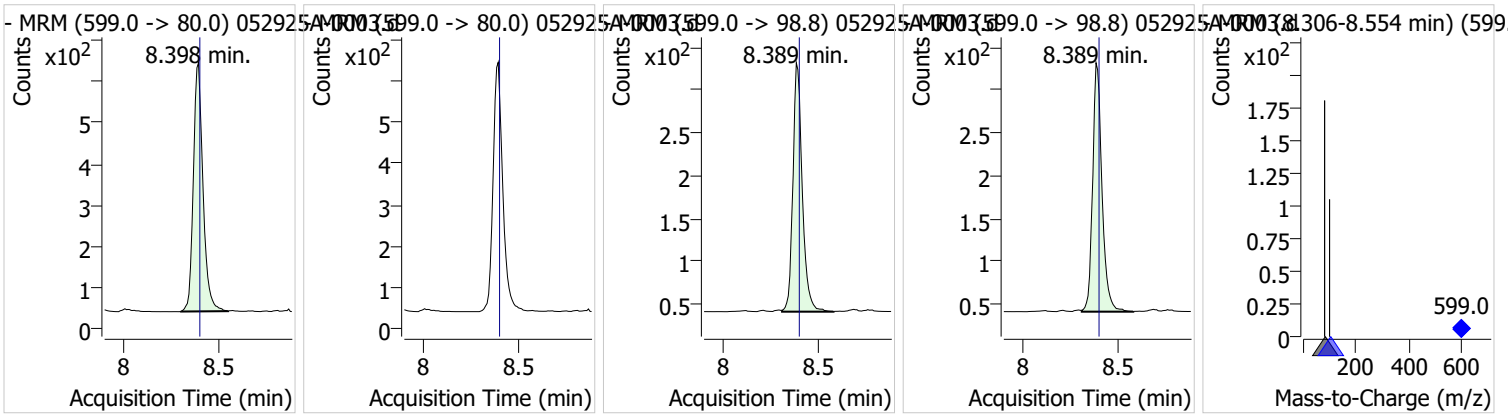
13C4-PFOA



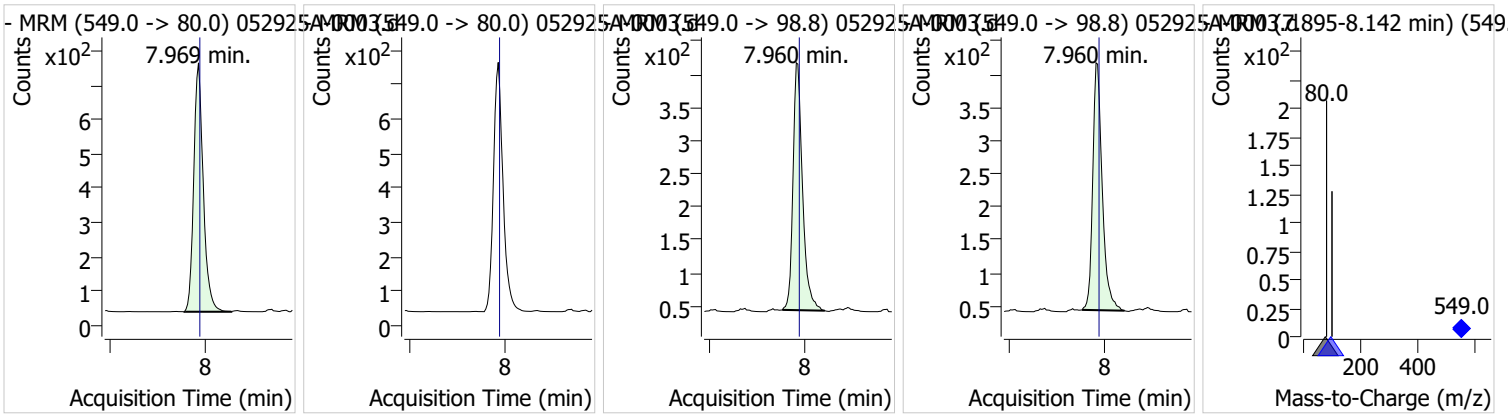




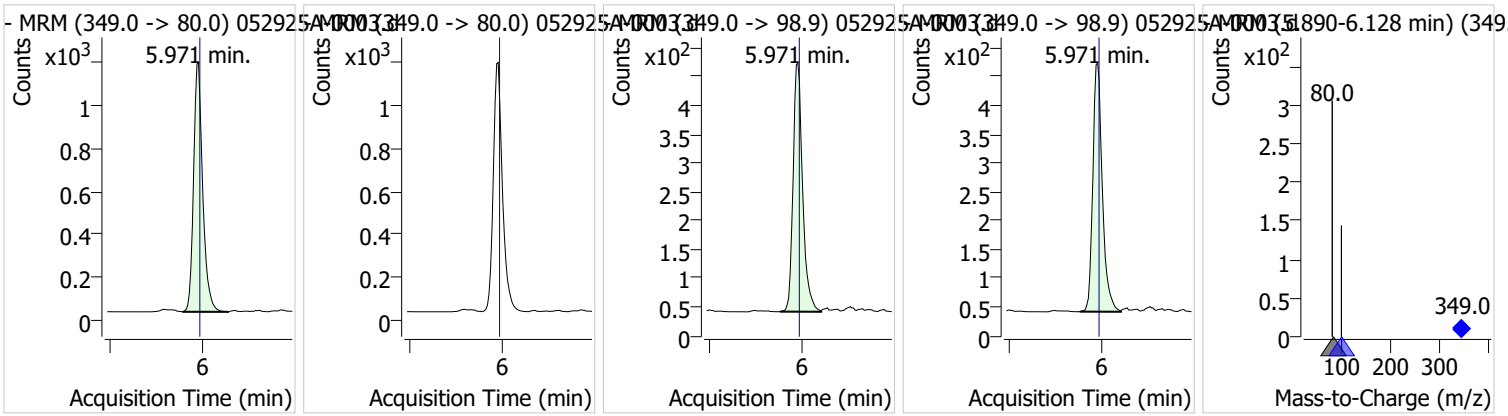
PFDS



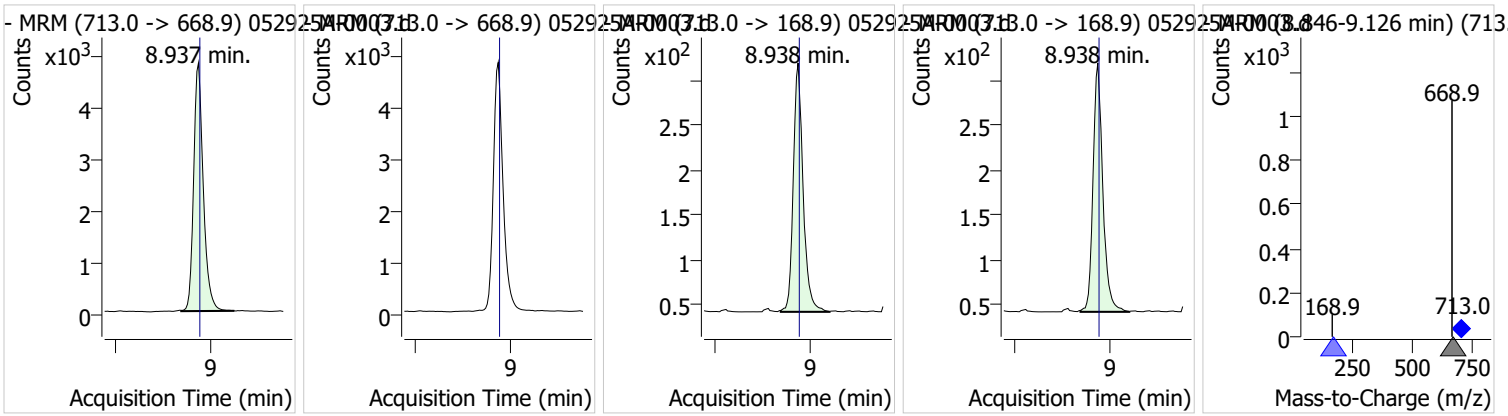
PFNS



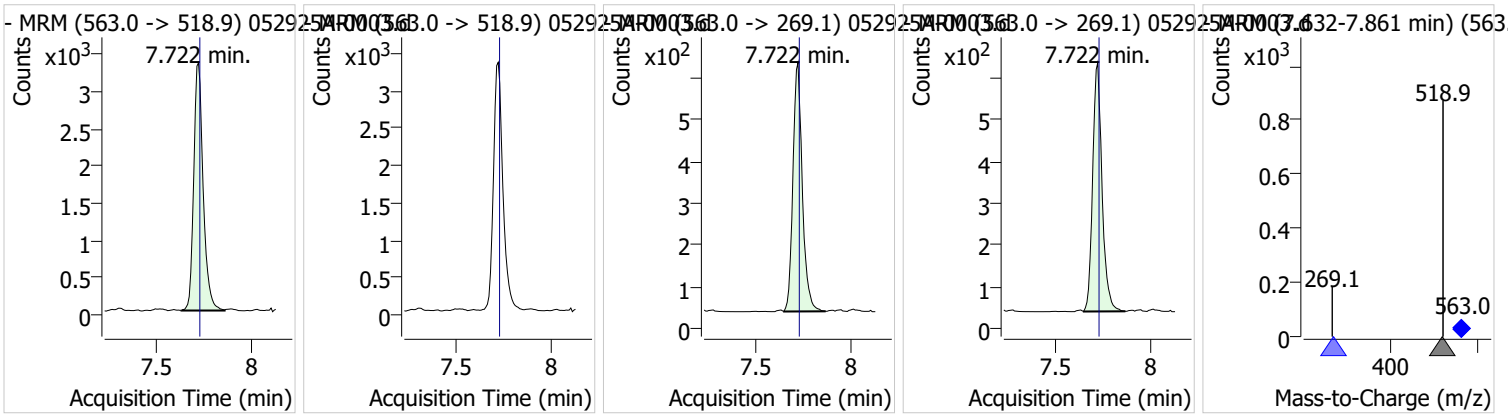
PFPeS



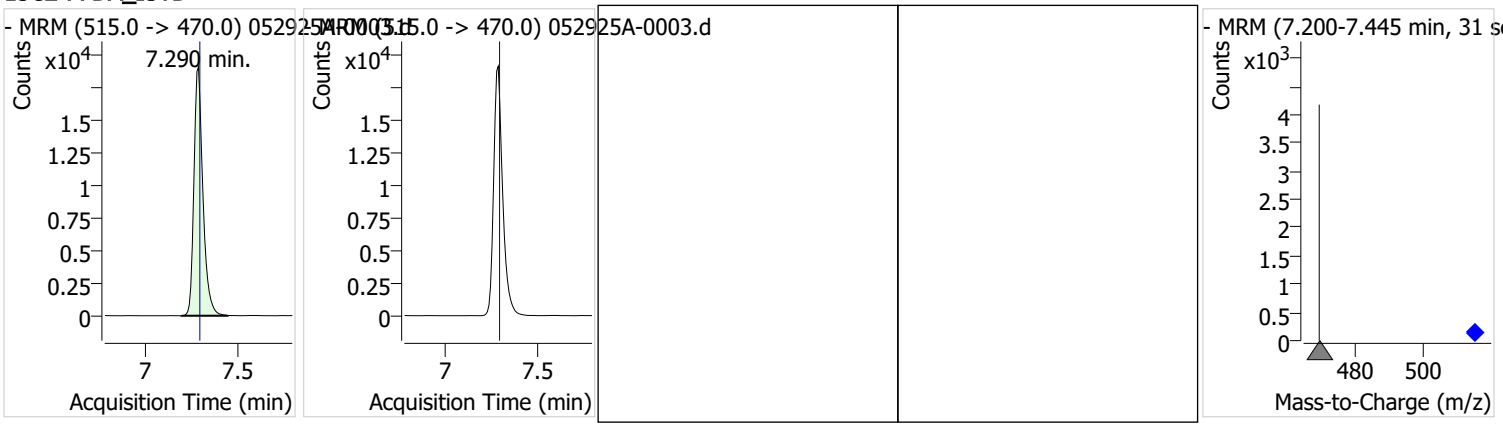
PFTeDA



PFUnA



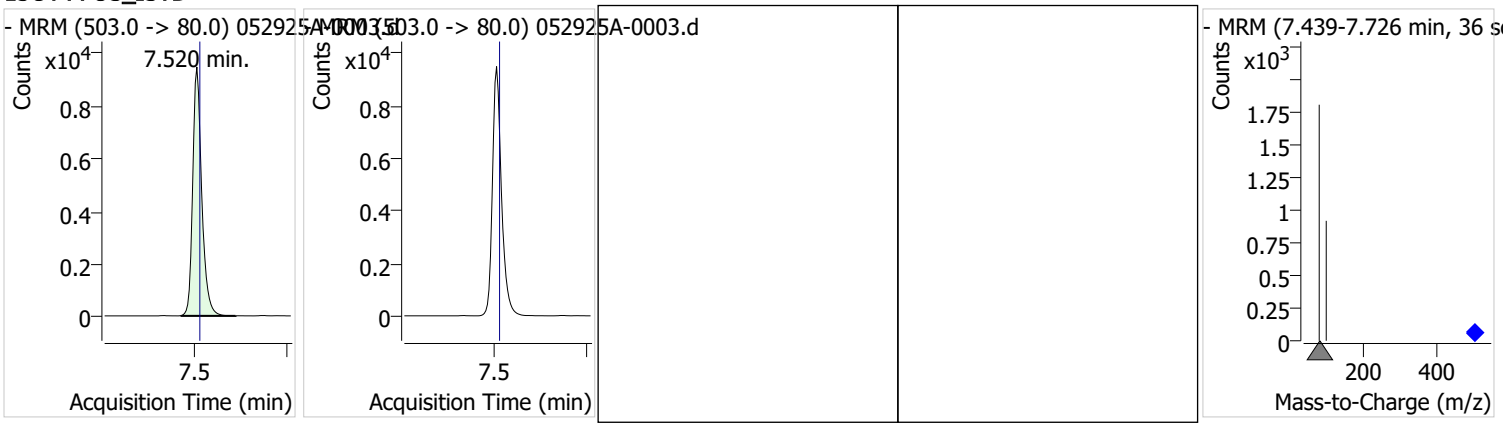
13C2-PFDA_ISTD



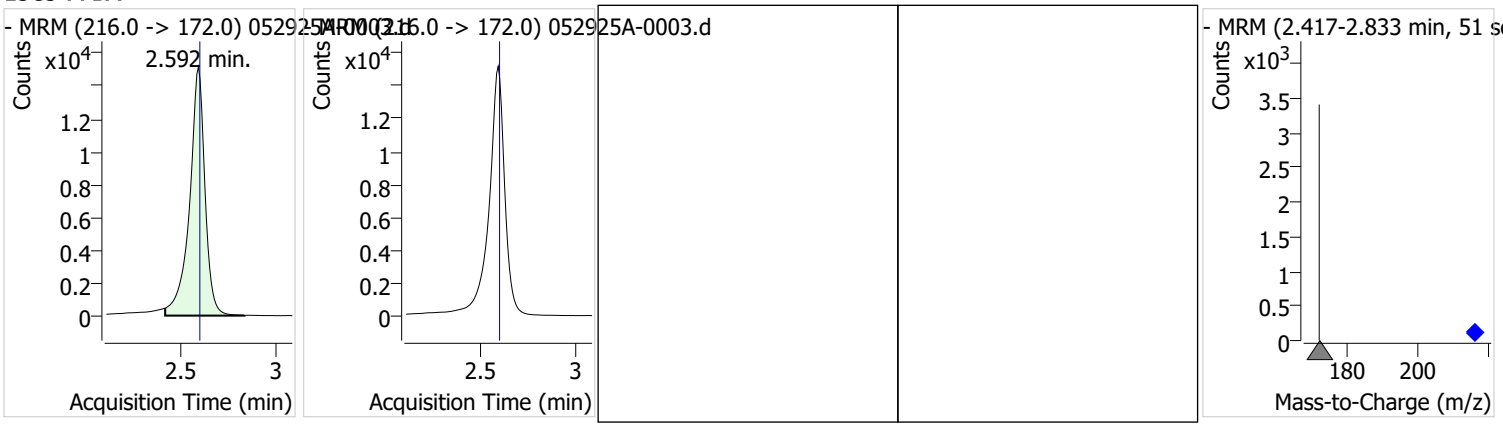
13C2-PFHxA_ISTD



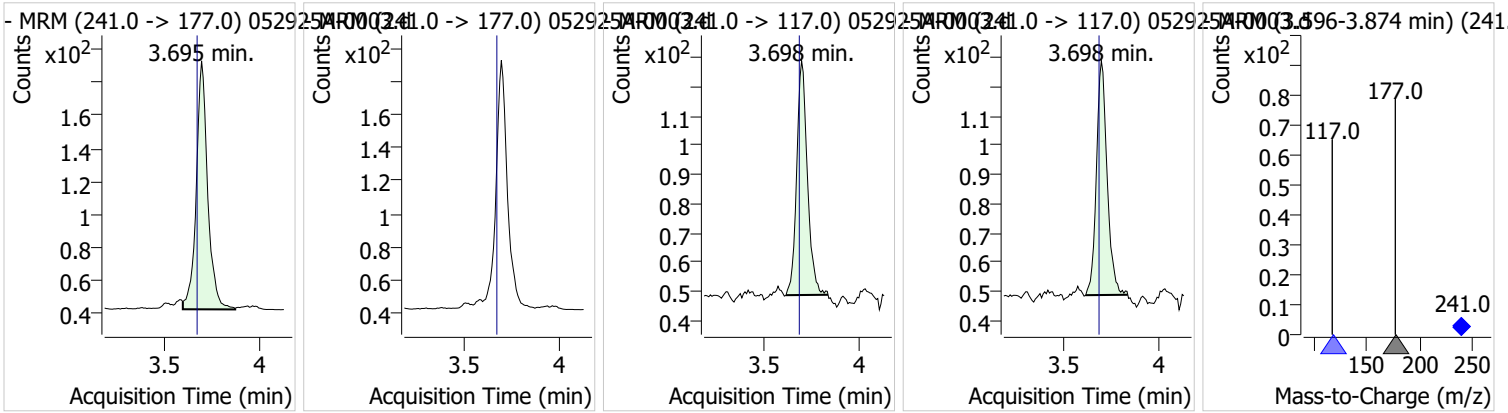
13C4-PFOS_ISTD



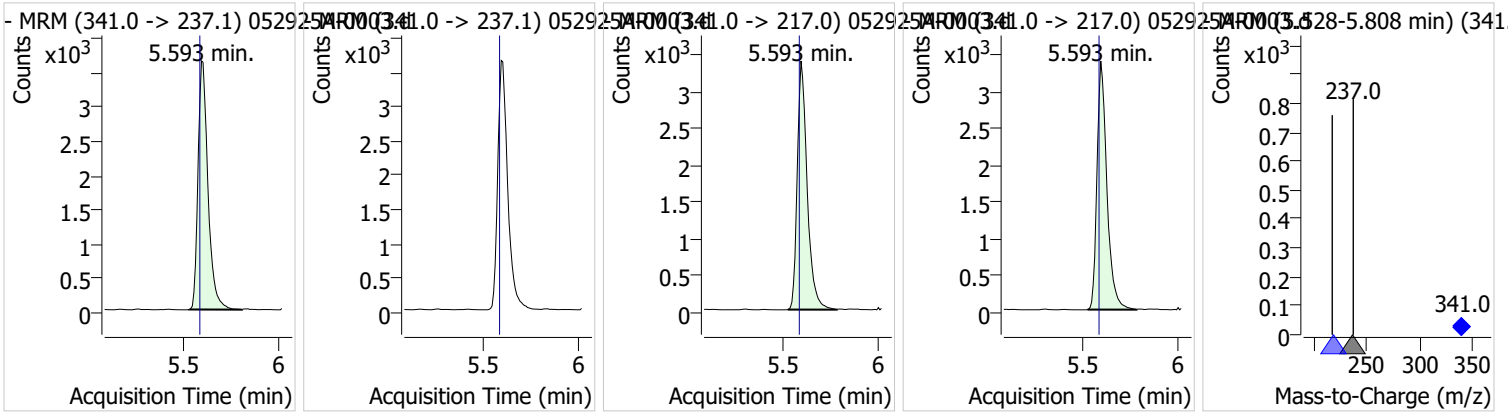
13C3-PFBA



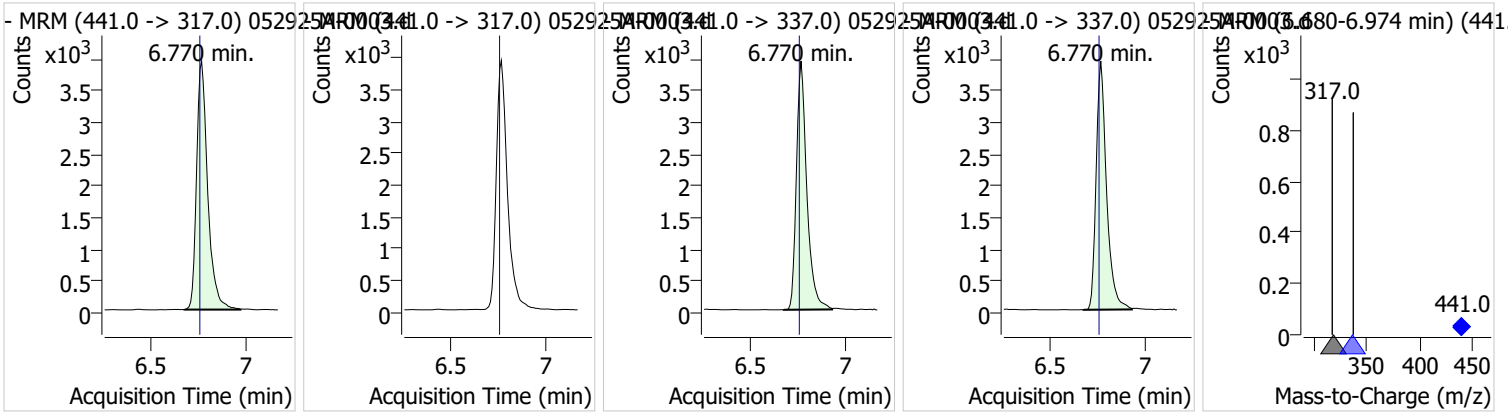
3:3FTCA



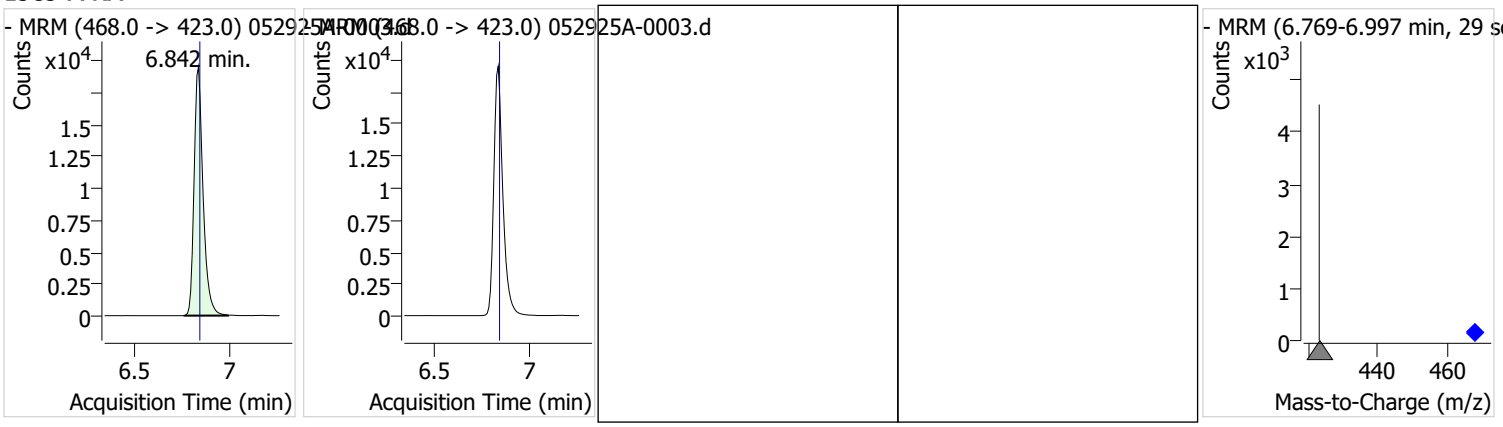
5:3FTCA



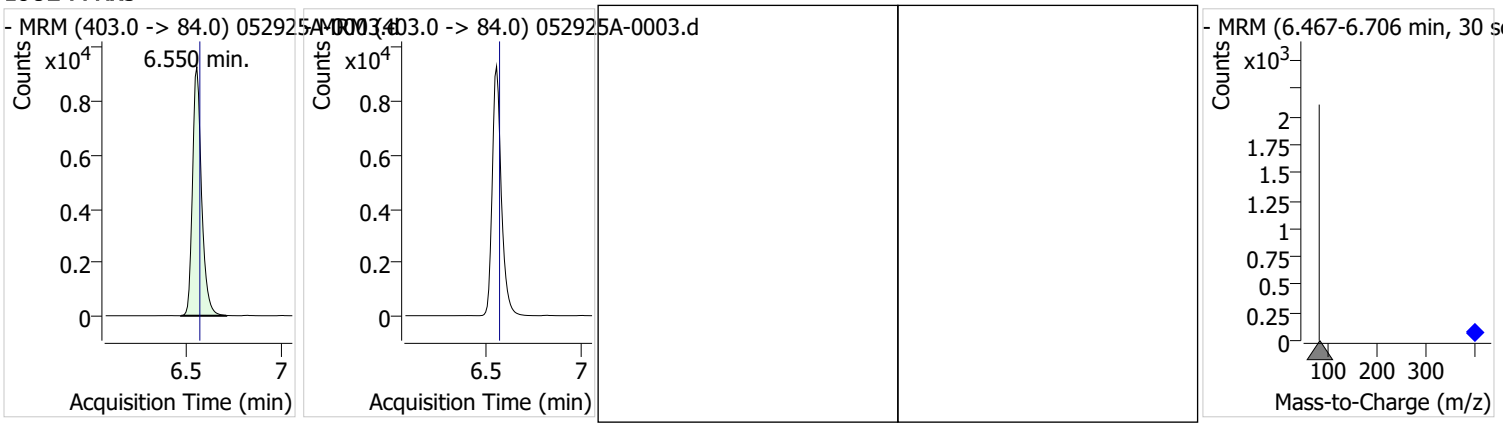
7:3FTCA



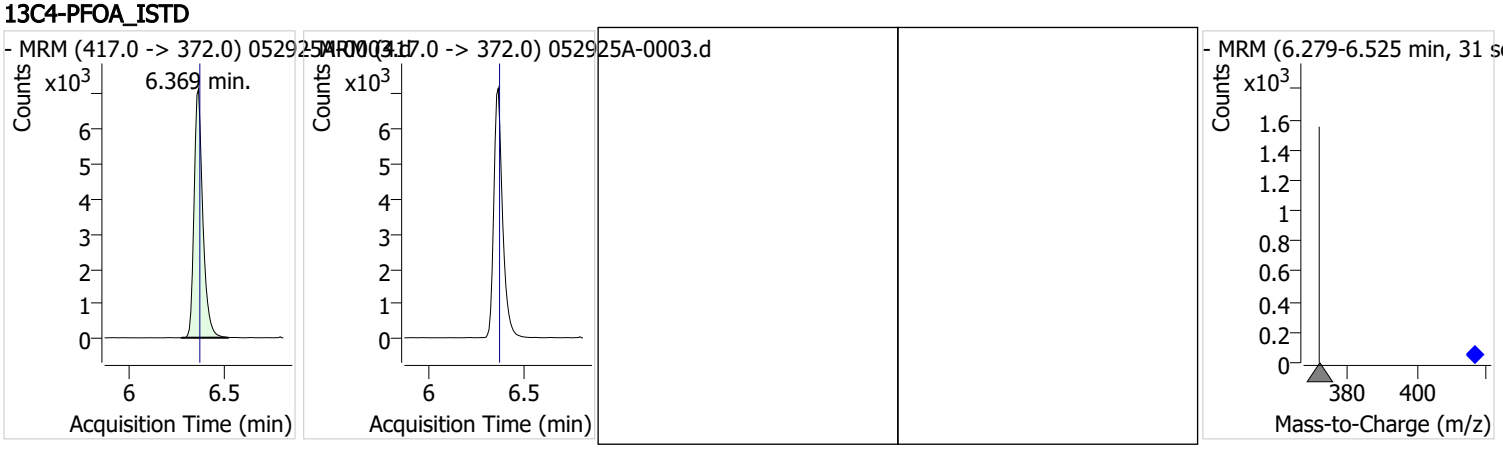
13C5-PFNA



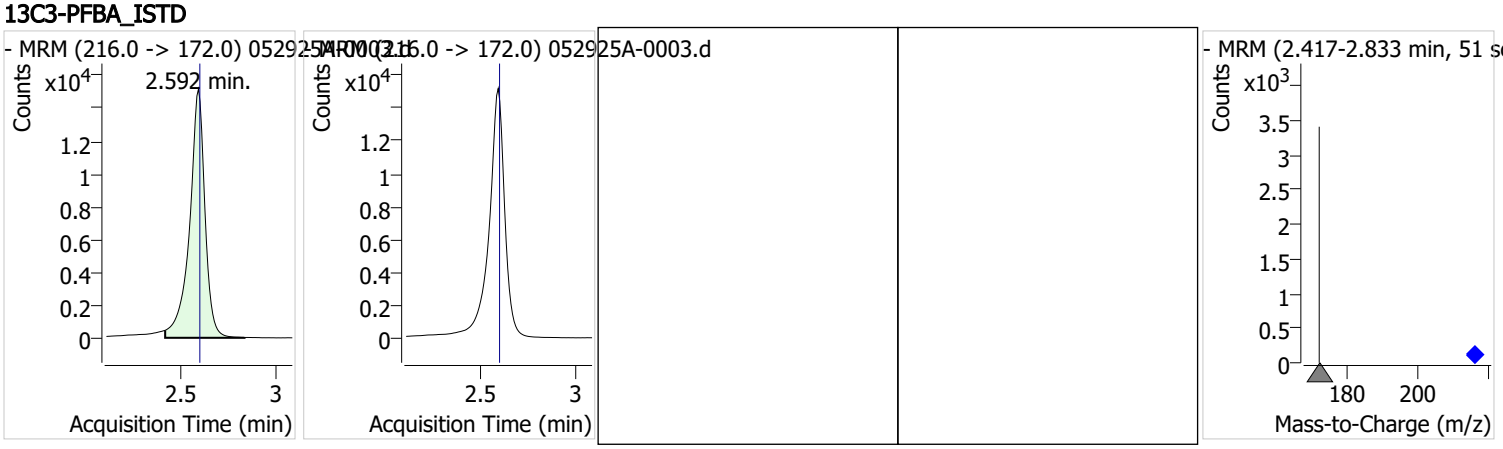
18O2-PFHxS



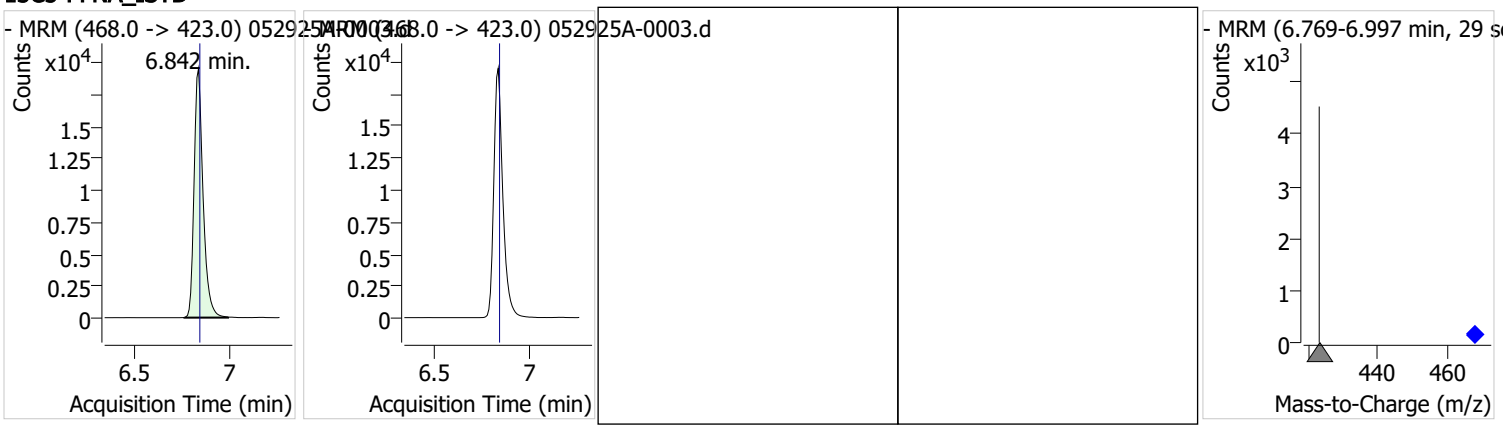
13C4-PFOA_ISTD



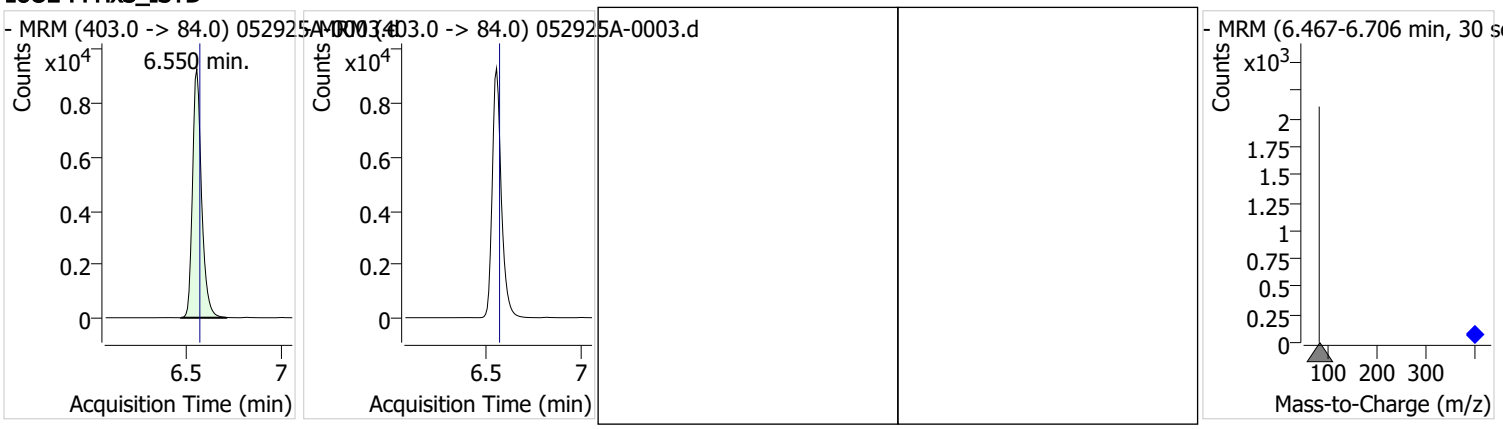
13C3-PFBA_ISTD



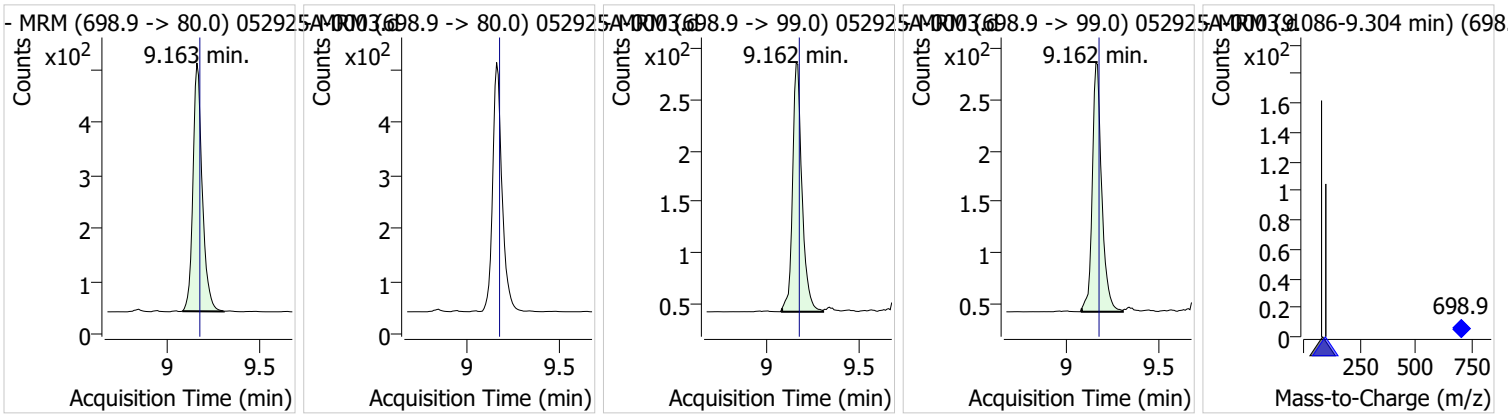
13C5-PFNA_ISTD



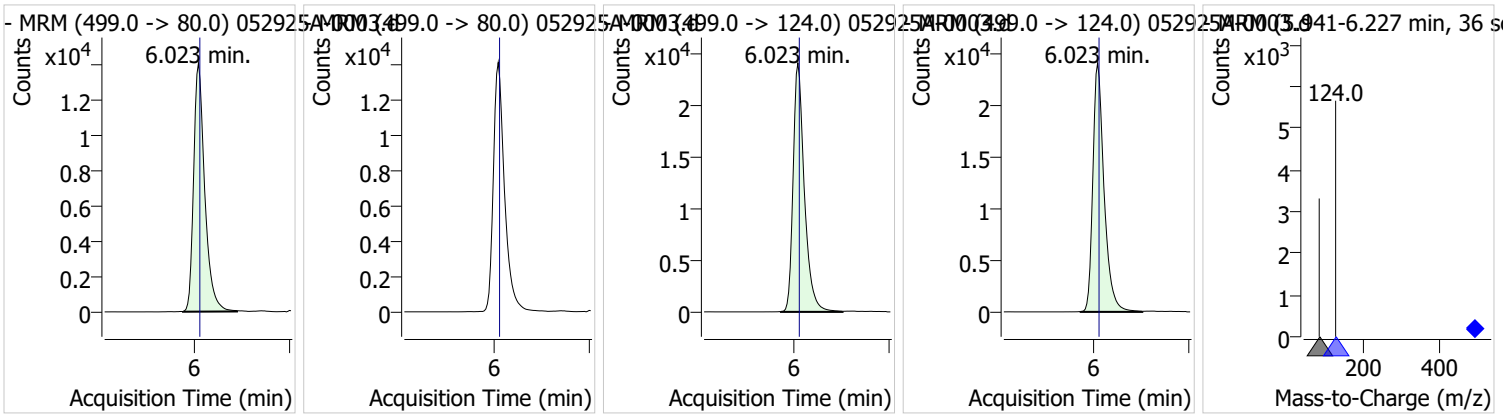
18O2-PFHxS_ISTD



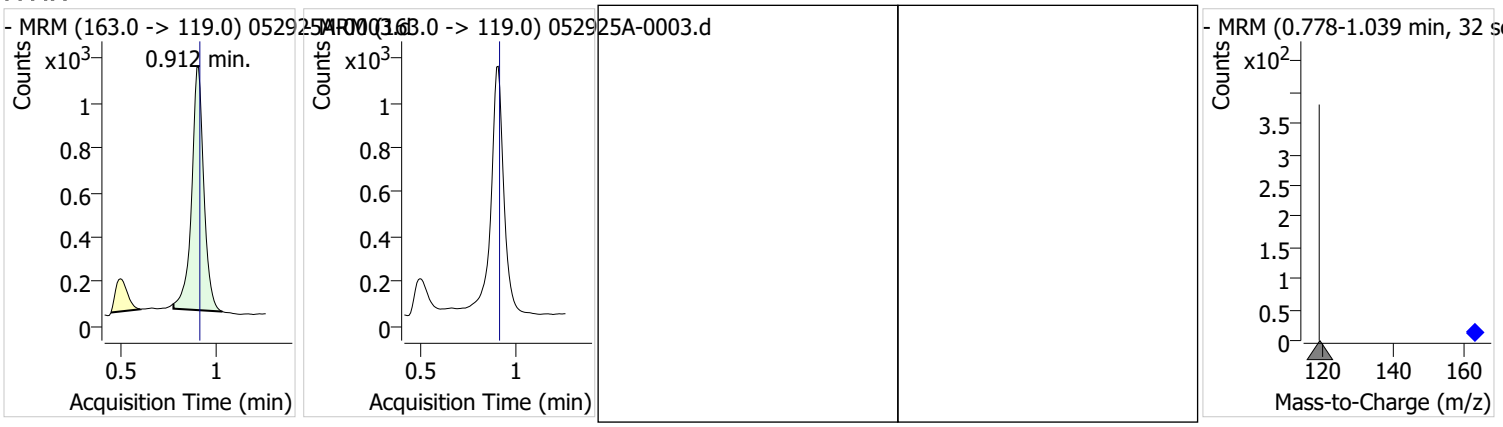
PFDoS



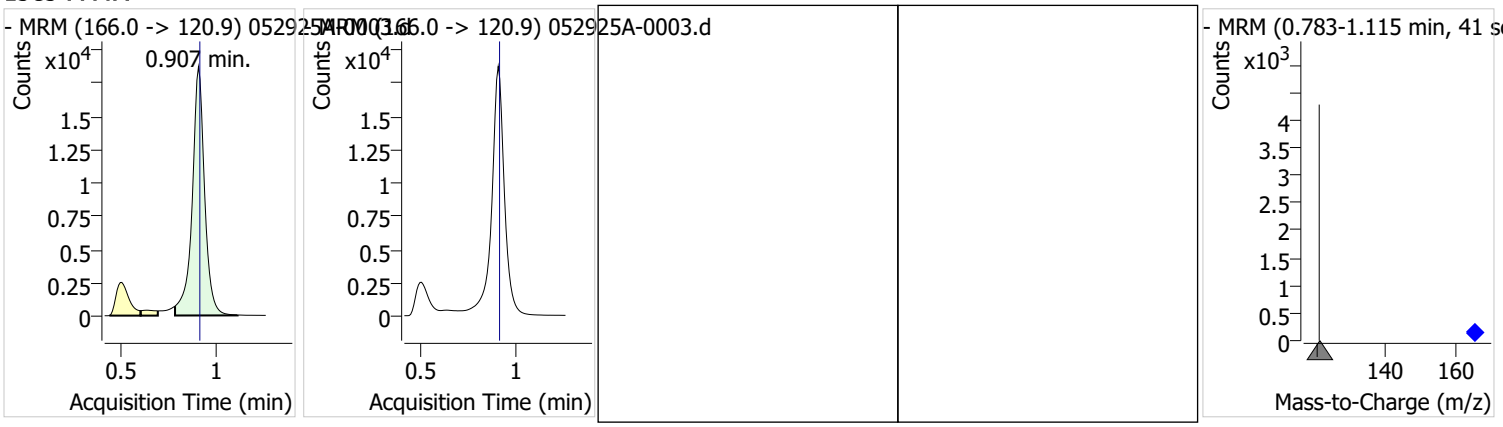
TDCA



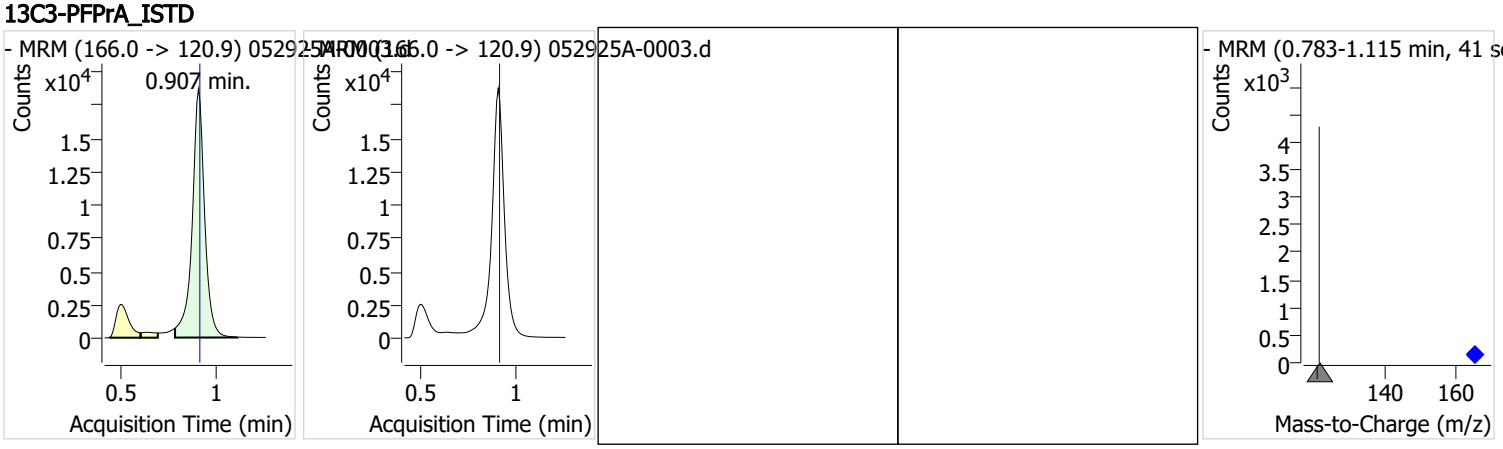
PFPrA



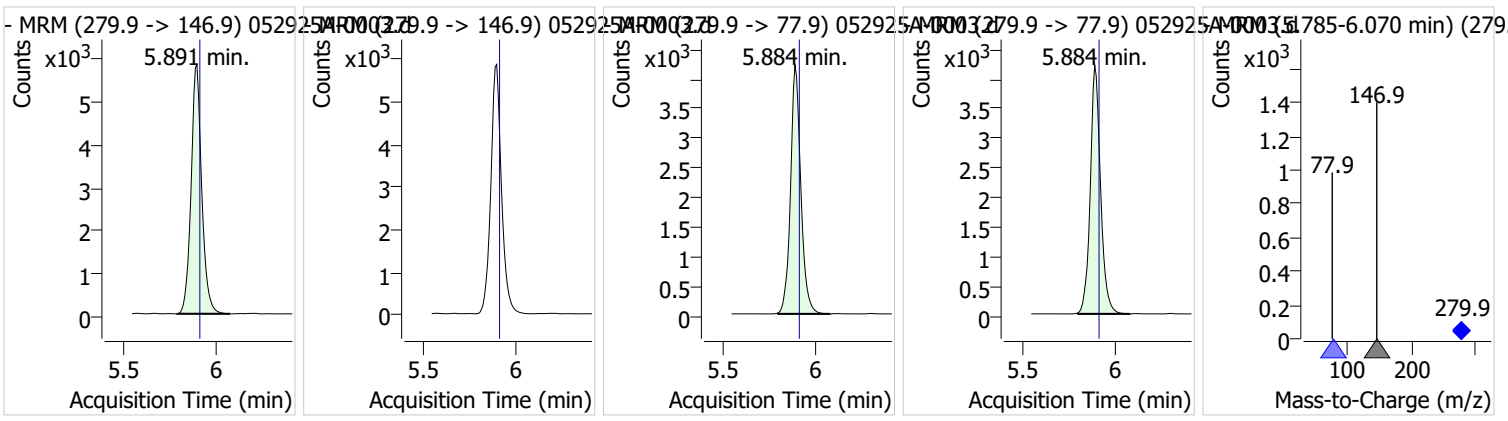
13C3-PFPrA



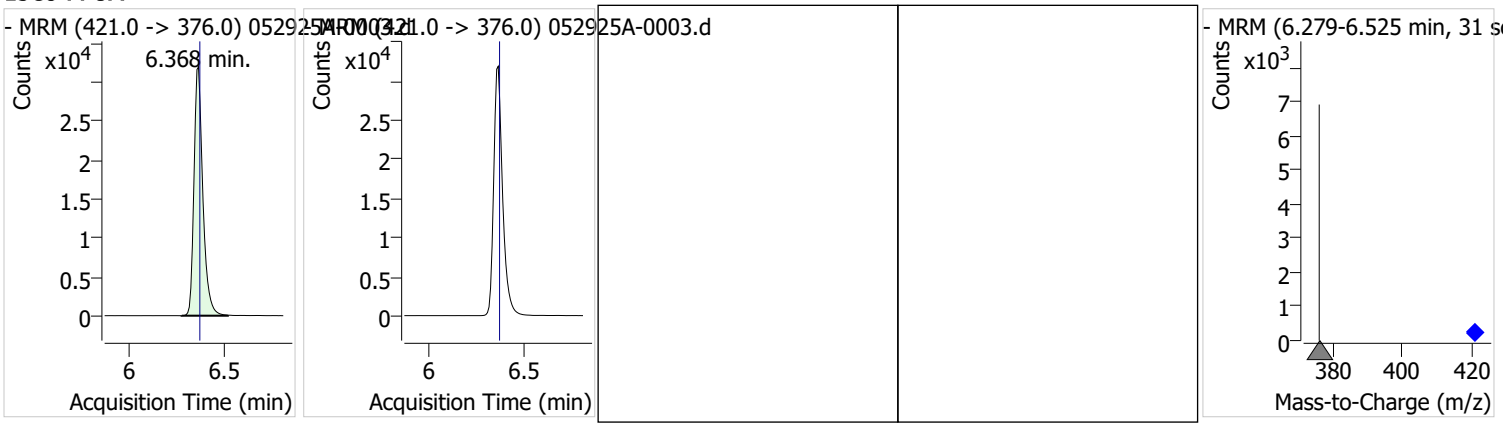
13C3-PFPrA_ISTD



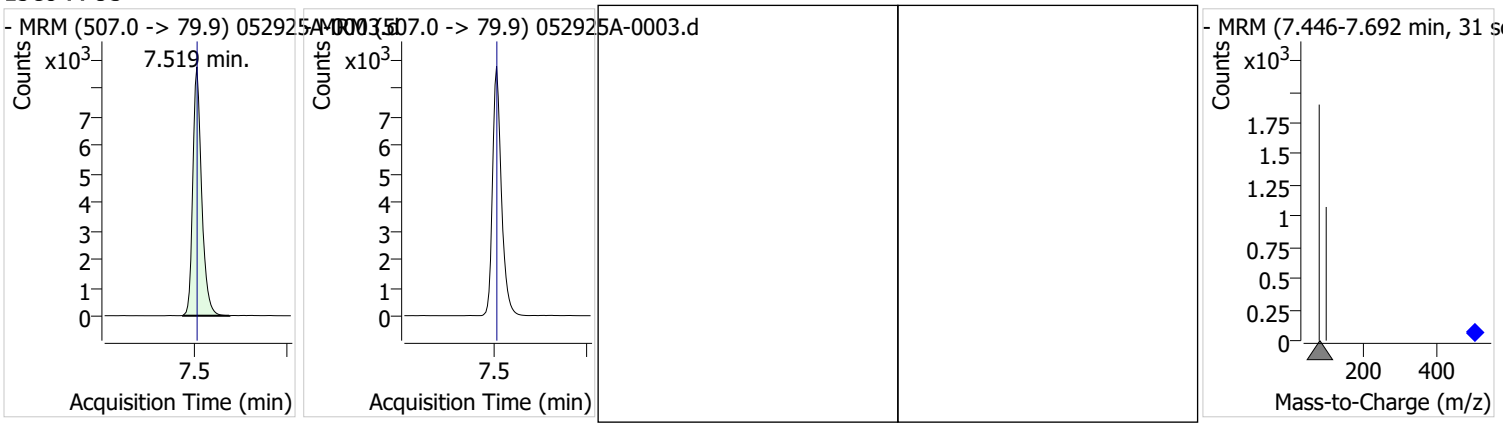
TFSI



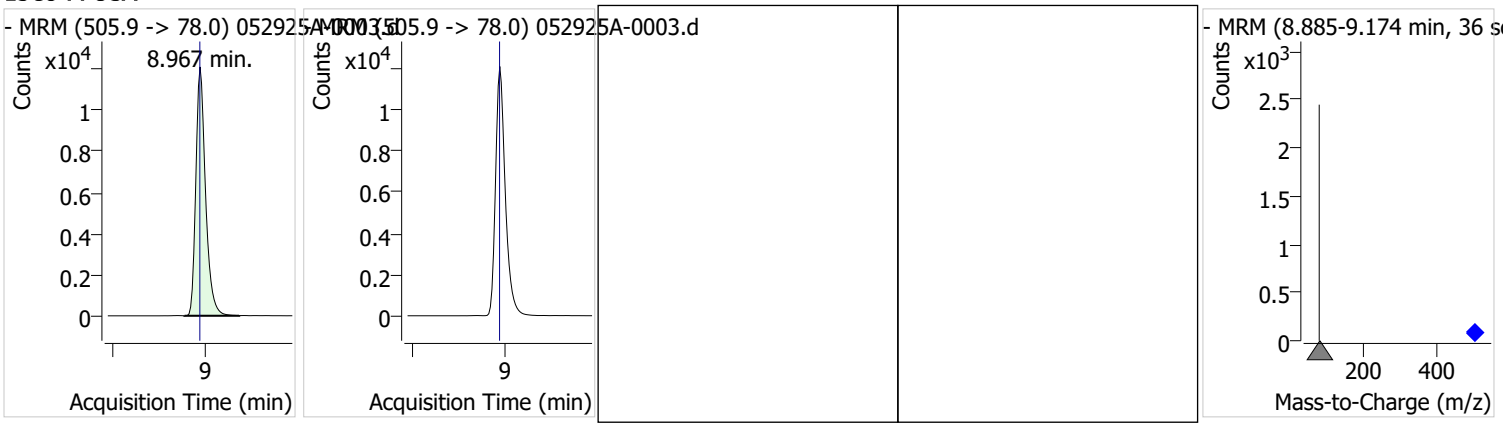
13C8-PFOA



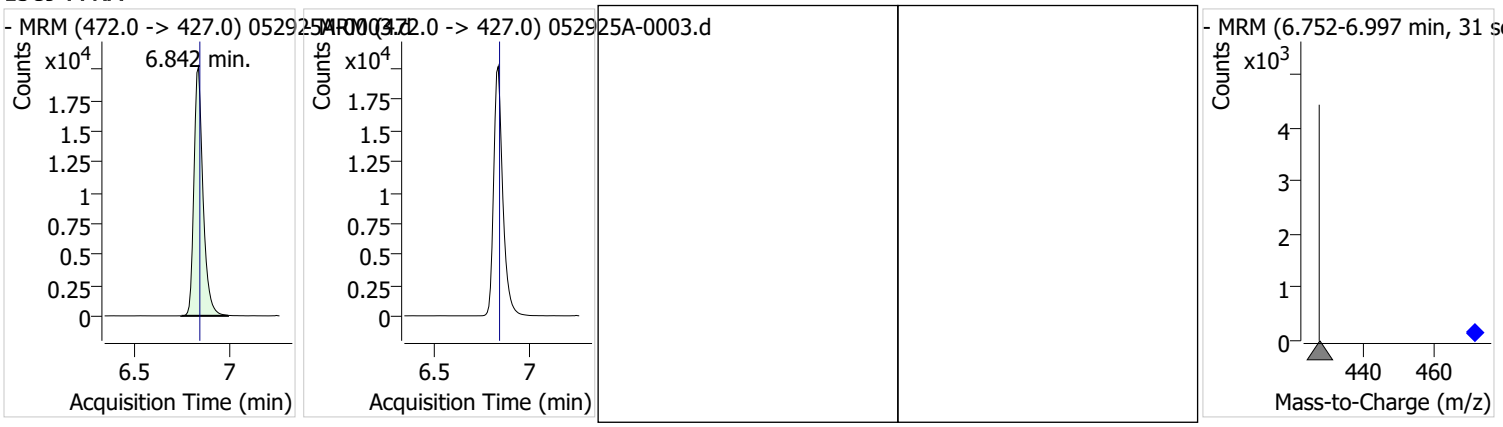
13C8-PFOS



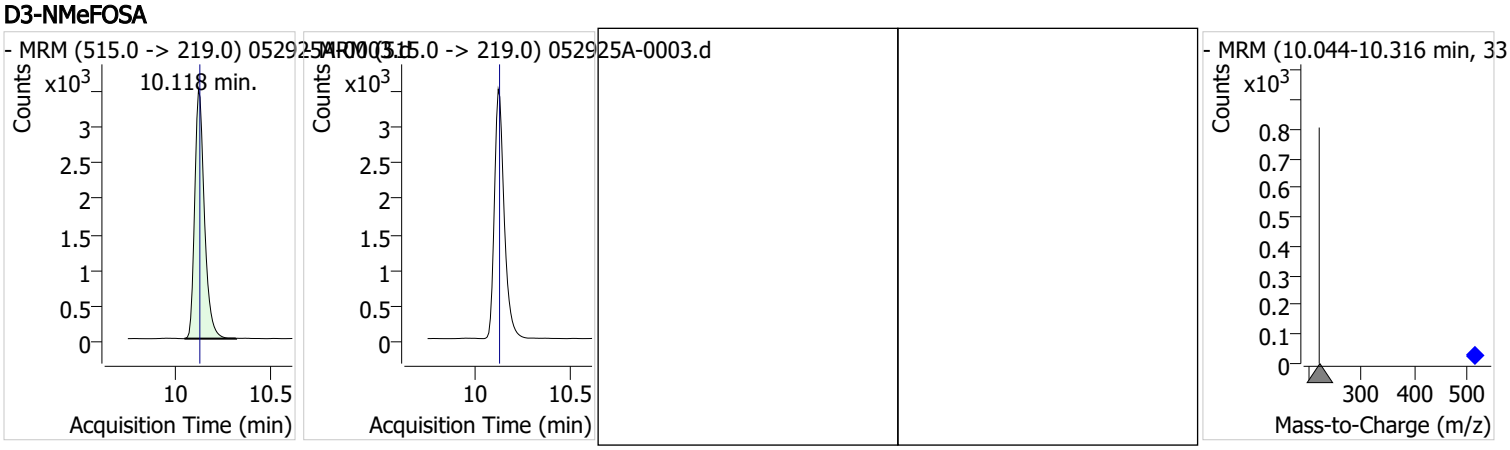
13C8-PFOSA



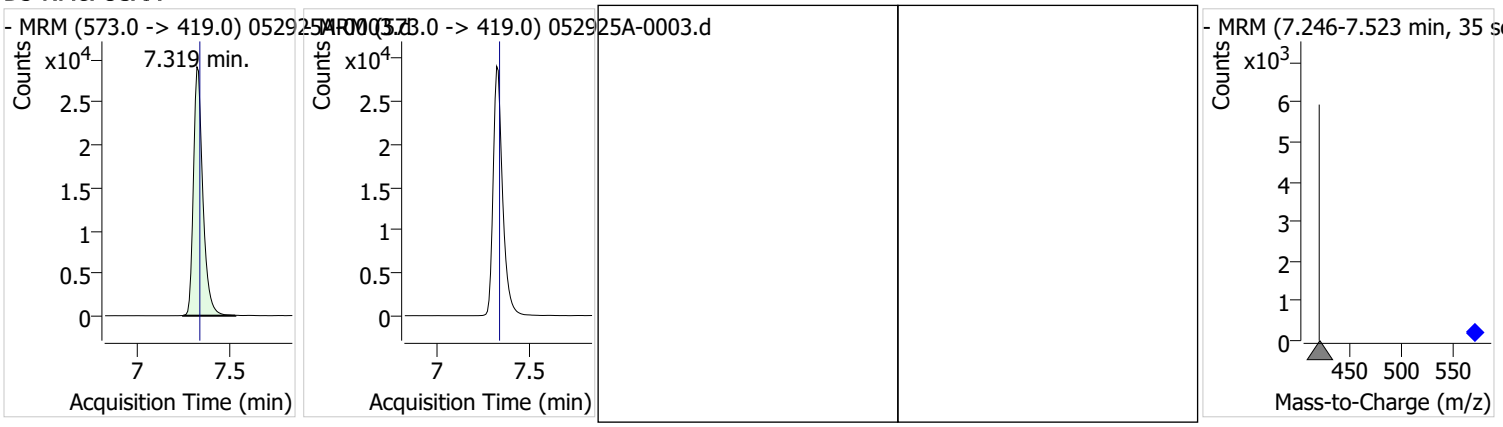
13C9-PFNA



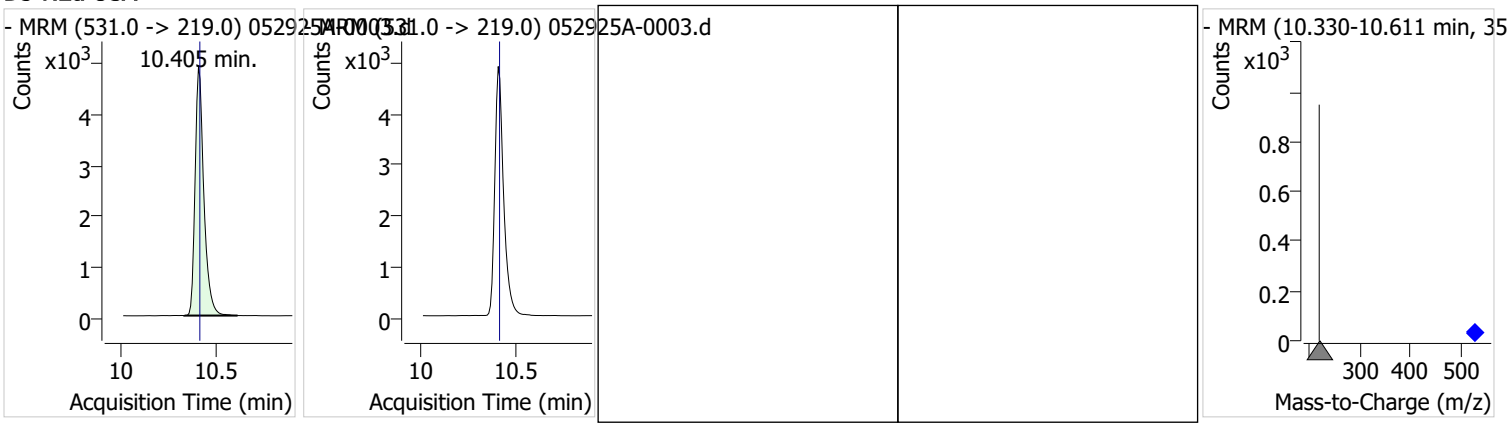
D3-NMeFOSA



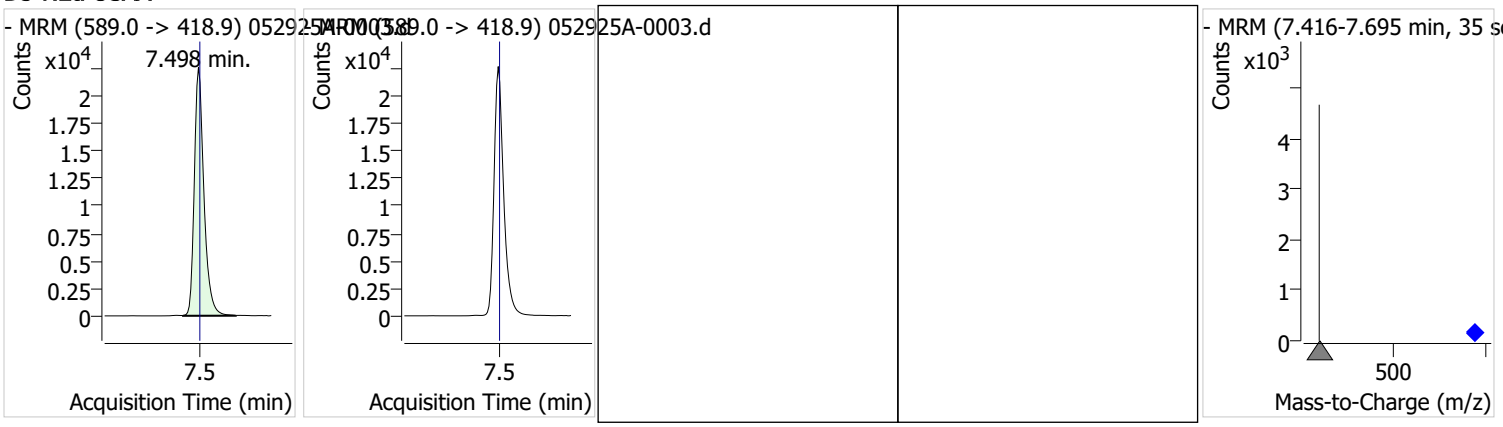
D3-NMeFOSAA



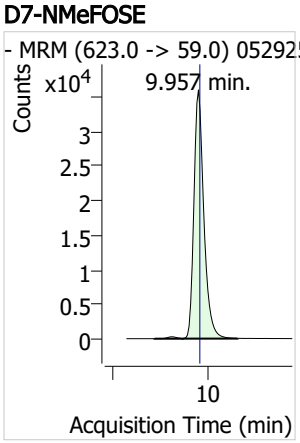
D5-NEtFOSA

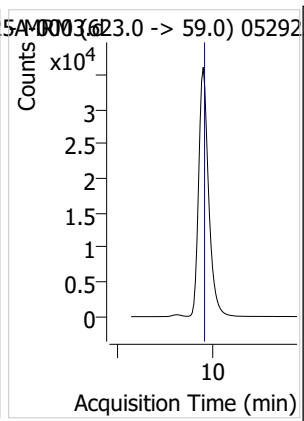


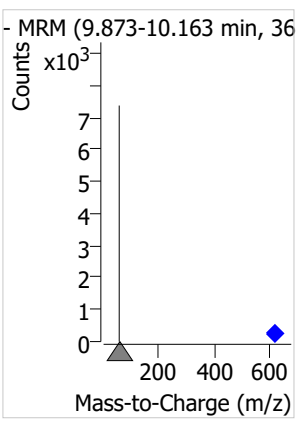
D5-NEtFOSAA



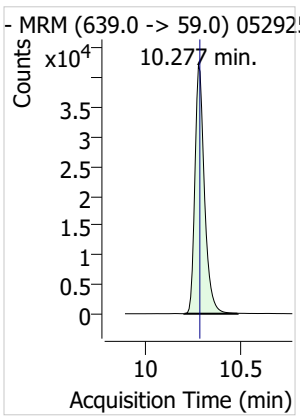
D7-NMeFOSE

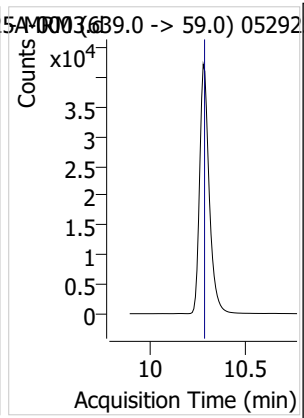


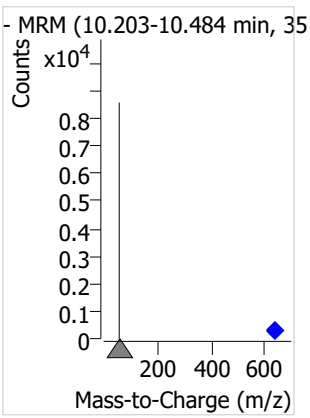




D9-NEtFOSE

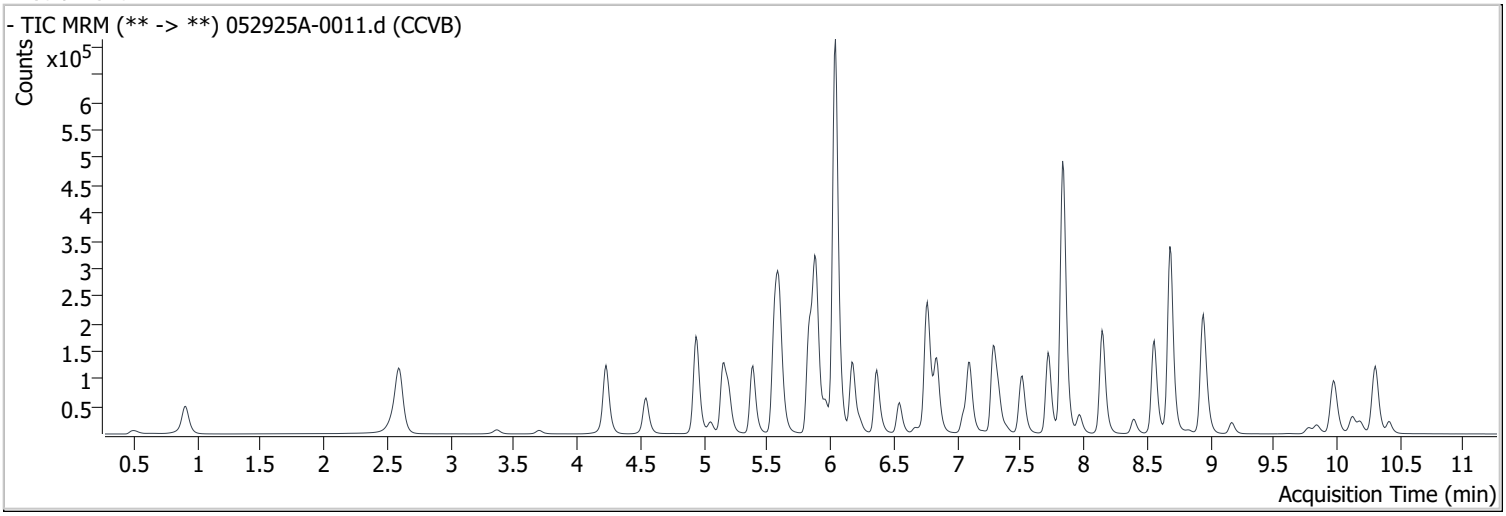






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-B 6320.batch.bin		
Analysis Time	5/30/2025 12:34 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 12:31 PM	**Data File**	052925A-0011.d
Sample Type	CC	**Sample Name**	CCVB
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	2	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	171739	50983.62		13C3-HFPODA_ISTD	5.394	88250	19.8246	ng/ml			
285.0 -> 184.9	5.394	106241	5434.68	61.9								
4:2FTS	4.938	371324	84952.02		13C2-4:2FTS_ISTD	4.938	30344	18.5923	ng/ml			
327.0 -> 80.9	4.939	137620	18650.74	37.1								
6:2FTS	6.172	225891	67412.85		13C2-6:2FTS_ISTD	6.172	21129	19.8487	ng/ml			
427.0 -> 80.9	6.172	98431	164296.90	43.6								
ADONA	6.044	1595741	107989.21		13C4-PFHpA_ISTD	5.831	149350	16.4784	ng/ml			
377.0 -> 85.1	6.044	642451	14485.20	40.3								
8:2FTS	7.100	229784	67460.93		13C2-8:2FTS_ISTD	7.100	21441	19.5512	ng/ml			
527.0 -> 81.0	7.101	101542	181098.66	44.2								
13C4-PFBA	2.589	194550	1387.45		13C3-PFBA_ISTD	2.592	83451	9.5786	ng/ml			
9Cl-PF3ONS	7.838	1315295	72294.95		13C8-PFOS_ISTD	7.520	29381	19.7981	ng/ml			
533.0 -> 353.0	7.838	357390	8175.78	27.2								
11Cl-PF3OUdS	8.685	915844	288574.98		13C8-PFOS_ISTD	7.520	29381	19.6897	ng/ml			
633.0 -> 453.0	8.684	232327	118689.41	25.4								
PFHpS	7.055	75606	6876.36		13C8-PFOS_ISTD	7.520	29381	4.6368	ng/ml			
449.0 -> 98.8	7.055	35347	4850.56	46.8								
13C2-4:2FTS	4.938	30344	169749.95		18O2-PFHxS_ISTD	6.550	31836	5.5352	ng/ml			
13C2-6:2FTS	6.172	21129	52634.03		18O2-PFHxS_ISTD	6.550	31836	5.1156	ng/ml			
13C2-8:2FTS	7.100	21441	5570.95		18O2-PFHxS_ISTD	6.550	31836	5.1717	ng/ml			
13C2-PFDoA	8.146	101540	29757.78		13C2-PFDA_ISTD	7.290	63743	1.2750	ng/ml			
13C2-PFDA	7.290	63743	19437.07					1.3111	ng/ml			
13C2-PFHxA	5.154	83789	21903.07					2.7184	ng/ml			
13C2-PFTeDA	8.936	115908	5990.81		13C2-PFDA_ISTD	7.290	63743	1.2952	ng/ml			
13C4-PFOS	7.520	31585	259775.69					2.8654	ng/ml			
13C3-HFPODA	5.394	88250	25845.48		13C2-PFHxA_ISTD	5.154	83789	9.8578	ng/ml			
13C3-PFBS	5.197	50324	14064.80		18O2-PFHxS_ISTD	6.550	31836	2.3153	ng/ml			
13C3-PFHxS	6.551	36733	11097.39		18O2-PFHxS_ISTD	6.550	31836	2.4958	ng/ml			
NEtFOSAA	7.434	71898	5264.34		D5-NEtFOSAA_ISTD	7.498	80603	4.5819	ng/ml			
584.0 -> 526.0	7.433	64966	3384.91	90.4								

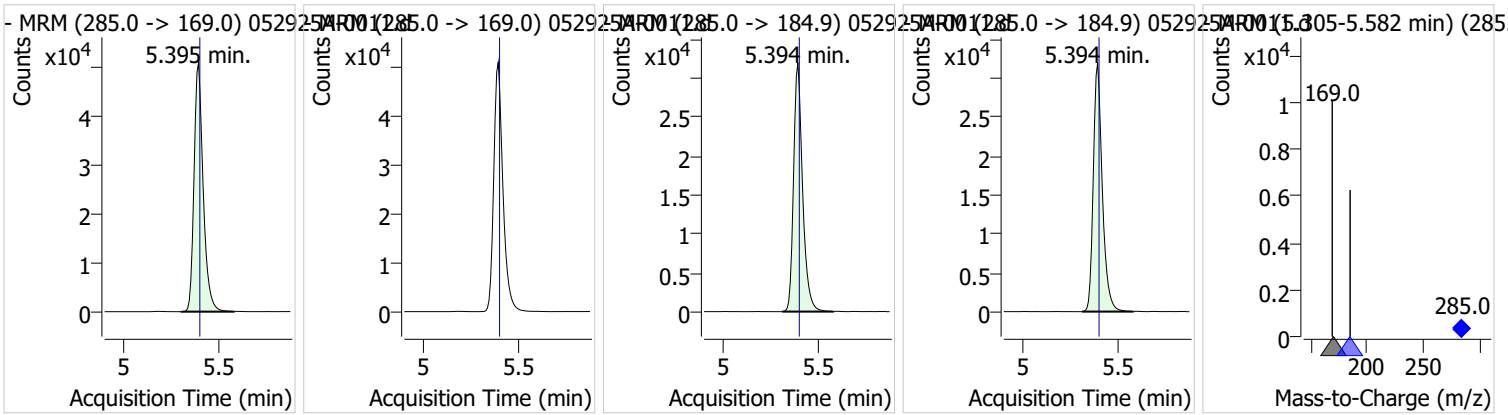
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	149350	4389.88		13C2-PFHxA_ISTD	5.154	83789	2.5100	ng/ml			
NMeFOSAA	7.247	35367	8219.18		D3-NMeFOSAA_ISTD	7.327	102300	4.6511	ng/ml			
570.0 -> 483.0	7.246	43896	3165.37	124.1								
PFBA	2.594	382337	6275.01		13C4-PFBA_ISTD	2.589	194550	19.7210	ng/ml			
13C5-PFHxA	5.153	92336	35522.83		13C2-PFHxA_ISTD	5.154	83789	2.4824	ng/ml			
PFBS	5.197	120423	11023.68		13C3-PFBS_ISTD	5.197	50324	4.5371	ng/ml			
298.9 -> 98.8	5.197	41623	4822.59	34.6								
NMeFOSA	10.073	30392	4003.17		D3-NMeFOSA_ISTD	10.126	12832	4.9757	ng/ml			
512.0 -> 169.0	10.074	41593	3422.91	136.9								
PFDA	7.290	311067	5449.34		13C6-PFDA_ISTD	7.289	74314	5.1155	ng/ml			
513.0 -> 219.0	7.290	57554	107040.89	18.5								
PFDoA	8.146	479109	5981.76		13C2-PFDoA_ISTD	8.146	101540	5.2386	ng/ml			
613.0 -> 319.0	8.147	53963	15890.25	11.3								
NEtFOSA	10.377	37619	1830.81		D5-NEtFOSA_ISTD	10.413	16503	4.6595	ng/ml			
526.0 -> 169.0	10.377	51009	2204.95	135.6								
PFHpA	5.831	335987	4748.41		13C4-PFHpA_ISTD	5.831	149350	5.0148	ng/ml			
362.9 -> 169.0	5.831	54517	16574.04	16.2								
PFHxA	5.155	211913	2870.80		13C5-PFHxA_ISTD	5.153	92336	4.9193	ng/ml			
313.0 -> 118.9	5.155	6533	1992.24	3.1								
NMeFOSE	9.899	324338	3068.12		D7-NMeFOSE_ISTD	9.957	134954	48.8229	ng/ml			
PFHxS	6.498	79283	10596.37		13C3-PFHxS_ISTD	6.551	36733	4.2719	ng/ml			
398.9 -> 99.0	6.498	35252	3957.63	44.5								
PFNA	6.789	229999	3662.85		13C9-PFNA_ISTD	6.842	69508	4.7285	ng/ml			
463.0 -> 219.0	6.789	73890	5871.30	32.1								
NEtFOSE	10.249	414493	1952.52		D9-NEtFOSE_ISTD	10.286	154007	49.6750	ng/ml			
PFOA	6.300	236592	5307.19		13C8-PFOA_ISTD	6.368	103566	4.8362	ng/ml			
413.0 -> 169.0	6.300	67443	4697.06	28.5								
PFOS	7.399	75273	3677.86		13C8-PFOS_ISTD	7.520	29381	4.3336	ng/ml			
499.0 -> 99.0	7.402	35661	2837.06	47.4								
PFPeA	4.231	321789	4553.19		13C5-PFPeA_ISTD	4.229	144666	9.8801	ng/ml			
PFMPA	3.368	33035	4377.29		13C4-PFBA_ISTD	2.589	194550	9.8159	ng/ml			
13C5-PFPeA	4.229	144666	6718.76		13C2-PFHxA_ISTD	5.154	83789	4.8751	ng/ml			
PFMBA	4.547	238165	102394.54		13C5-PFPeA_ISTD	4.229	144666	9.9122	ng/ml			
PFTrDA	8.559	521905	18813.34		13C2-PFDoA_ISTD	8.146	101540	4.8869	ng/ml			
663.0 -> 168.9	8.559	47817	242704.48	9.2								
PFEESA	5.562	656587	1553260.11		13C5-PFHxA_ISTD	5.153	92336	8.8955	ng/ml			
315.0 -> 83.0	5.562	45849	12279.40	7.0								
13C6-PFDA	7.289	74314	2666.04		13C2-PFDA_ISTD	7.290	63743	1.2381	ng/ml			
NFDHA	5.058	50025	41986.04		13C5-PFHxA_ISTD	5.153	92336	10.0151	ng/ml			
295.0 -> 85.0	5.058	16059	1789.40	32.1								
PFOSA	8.899	92681	3136.47		13C8-PFOSA_ISTD	8.975	43159	4.8820	ng/ml			
497.9 -> 478.0	8.902	2474	665.96	2.7								
13C7-PFUnA	7.721	85361	200281.16		13C2-PFDA_ISTD	7.290	63743	1.2734	ng/ml			
13C4-PFOA	6.369	21449	6721.96					2.5941	ng/ml			
PFDS	8.398	58548	4465.80		13C8-PFOS_ISTD	7.520	29381	4.7386	ng/ml			
599.0 -> 98.8	8.397	29336	6823.83	50.1								
PFNS	7.969	73585	3110.42		13C8-PFOS_ISTD	7.520	29381	4.8446	ng/ml			
549.0 -> 98.8	7.968	34169	10164.40	46.4								
PFPeS	5.971	102493	8588.65		13C3-PFHxS_ISTD	6.551	36733	4.4489	ng/ml			
349.0 -> 98.9	5.971	45426	8323.68	44.3								
PFTeDA	8.945	536732	10555.91		13C2-PFTeDA_ISTD	8.936	115908	5.0169	ng/ml			

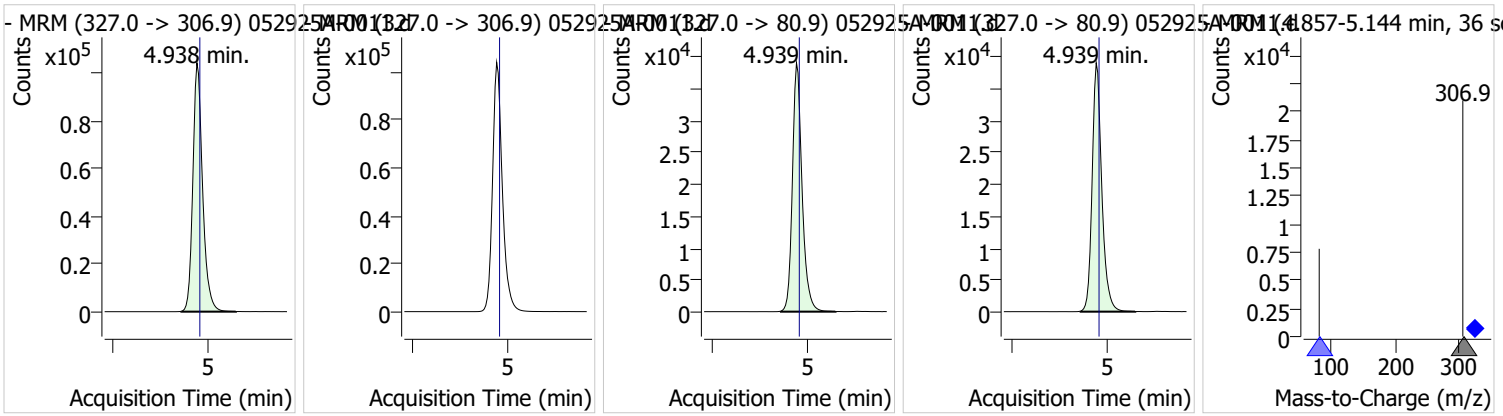
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	29447	8714.06	5.5								
PFUnA	7.722	341601	46931.59		13C7-PFUnA_ISTD	7.721	85361	4.7920	ng/ml			
563.0 -> 269.1	7.722	59834	120671.56	17.5								
13C3-PFBA	2.592	83451	787.38					5.4951	ng/ml			
3:3FTCA	3.704	17136	1292.97		13C5-PFPeA_ISTD	4.229	144666	20.9175	ng/ml			
241.0 -> 117.0	3.698	9425	682.65	55.0								
5:3FTCA	5.593	397239	17112.42		13C5-PFHxA_ISTD	5.153	92336	115.2686	ng/ml			
341.0 -> 217.0	5.593	351959	21254.88	88.6								
7:3FTCA	6.770	432064	5829.82		13C9-PFNA_ISTD	6.842	69508	116.1925	ng/ml			
441.0 -> 337.0	6.770	481863	1745344.96	111.5								
13C5-PFNA	6.842	64711	19739.14					1.3683	ng/ml			
18O2-PFHxS	6.550	31836	19321.32					2.8027	ng/ml			
PFDoS	9.171	43980	169417.39		13C8-PFOS_ISTD	7.520	29381	5.2951	ng/ml			
698.9 -> 99.0	9.170	24236	3890.95	55.1								
TDCA	6.023	60230	5786.00		13C8-PFOS_ISTD	7.520	29381	12.8617	ng/ml			
499.0 -> 124.0	6.023	106526	13501.13	176.9								
PFPrA	0.903	146709	5552.17		13C3-PFPrA_ISTD	0.907	84185	19.8328	ng/ml			
13C3-PFPrA	0.907	84185	9744.48		13C3-PFBA_ISTD	2.592	83451	9.3251	ng/ml			
TFSI	5.891	682083	11432.59		13C3-HFPODA_ISTD	5.394	88250	9.8006	ng/ml			
279.9 -> 77.9	5.892	481503	1239022.65	70.6								
13C8-PFOA	6.368	103566	32277.68		13C4-PFOA_ISTD	6.369	21449	2.5771	ng/ml			
13C8-PFOS	7.520	29381	4051.74		13C4-PFOS_ISTD	7.520	31585	2.3785	ng/ml			
13C8-PFOSA	8.975	43159	11843.29		13C4-PFOS_ISTD	7.520	31585	2.4298	ng/ml			
13C9-PFNA	6.842	69508	5191.90		13C5-PFNA_ISTD	6.842	64711	1.2157	ng/ml			
D3-NMeFOSA	10.126	12832	3623.85		13C4-PFOS_ISTD	7.520	31585	2.2675	ng/ml			
D3-NMeFOSAA	7.327	102300	29588.28		13C4-PFOS_ISTD	7.520	31585	5.2073	ng/ml			
D5-NEtFOSA	10.413	16503	5093.53		13C4-PFOS_ISTD	7.520	31585	2.4259	ng/ml			
D5-NEtFOSAA	7.498	80603	23067.88		13C4-PFOS_ISTD	7.520	31585	5.4024	ng/ml			
D7-NMeFOSE	9.957	134954	14694.24		13C4-PFOS_ISTD	7.520	31585	24.8398	ng/ml			
D9-NEtFOSE	10.286	154007	14449.70		13C4-PFOS_ISTD	7.520	31585	25.5279	ng/ml			

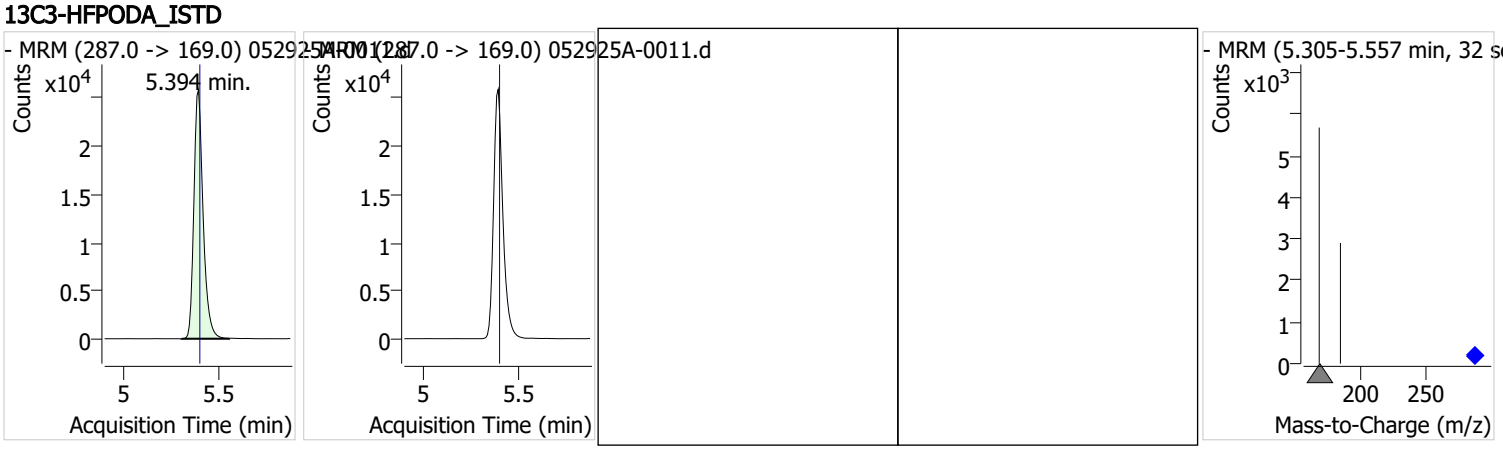
HFPO-DA



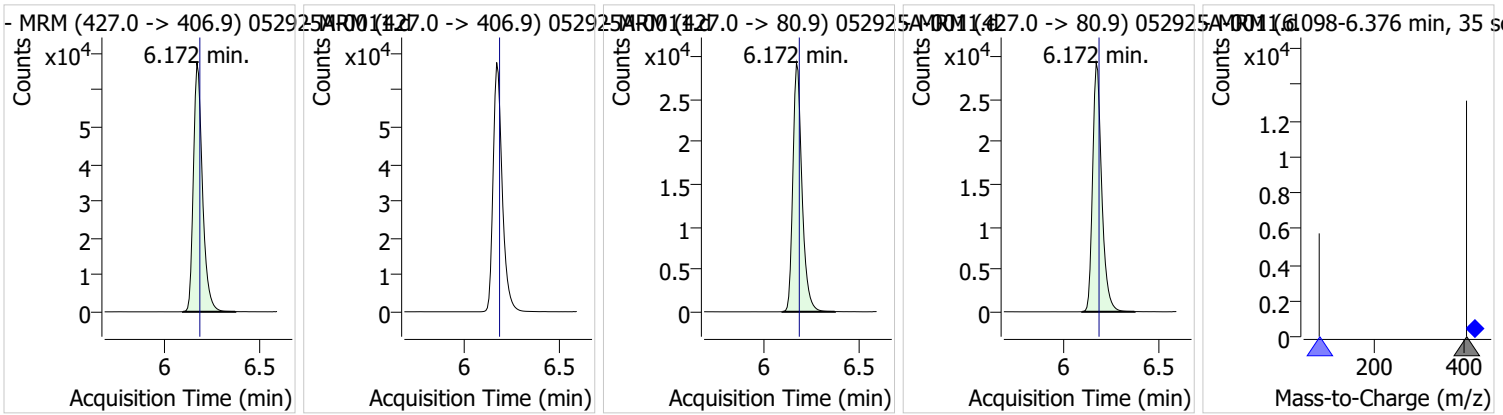
4:2FTS



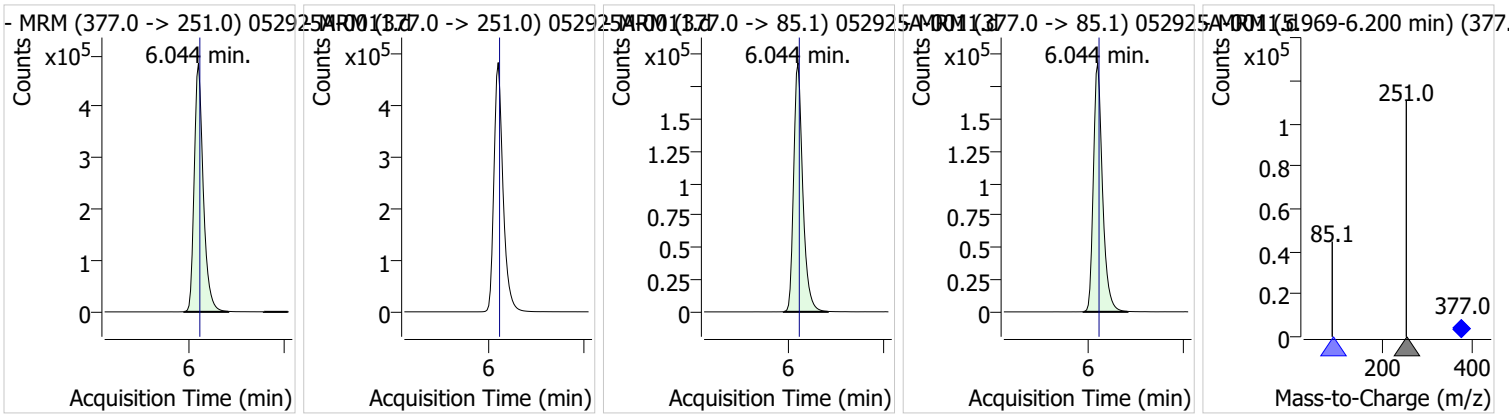
13C3-HFPODA_ISTD



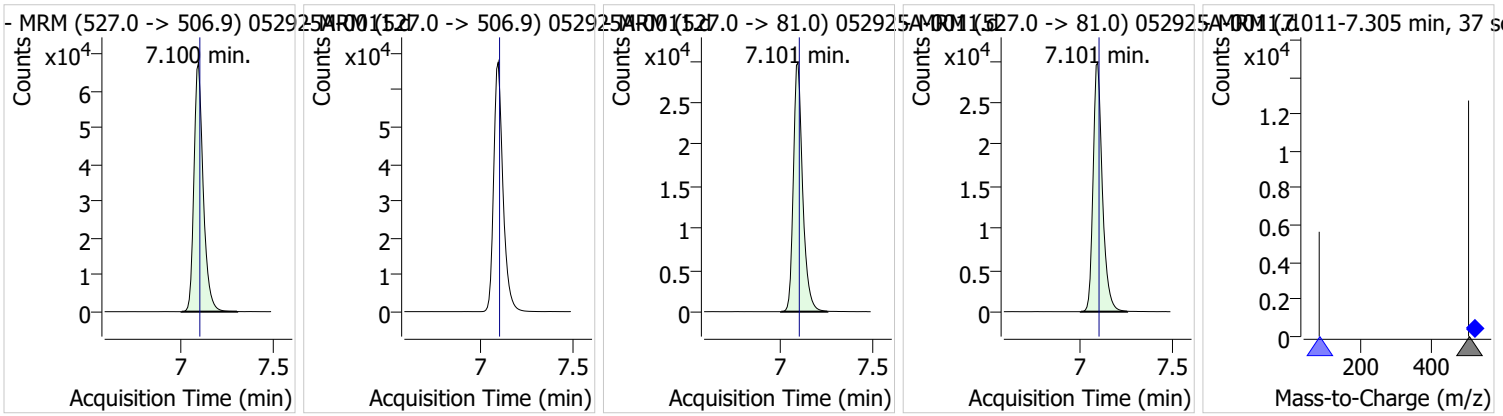
6:2FTS



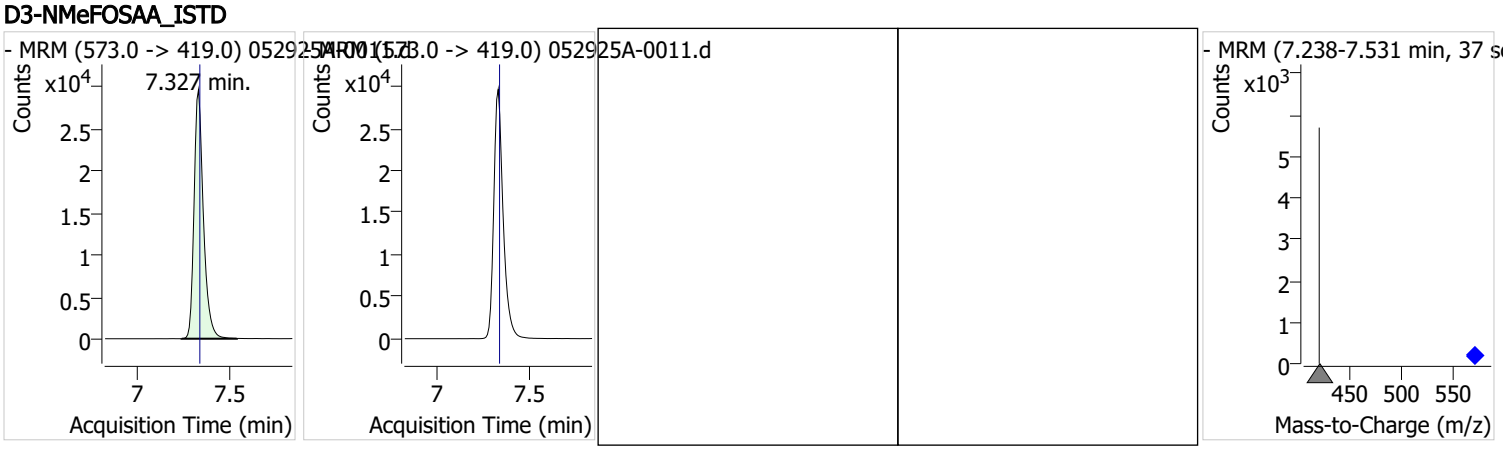
ADONA



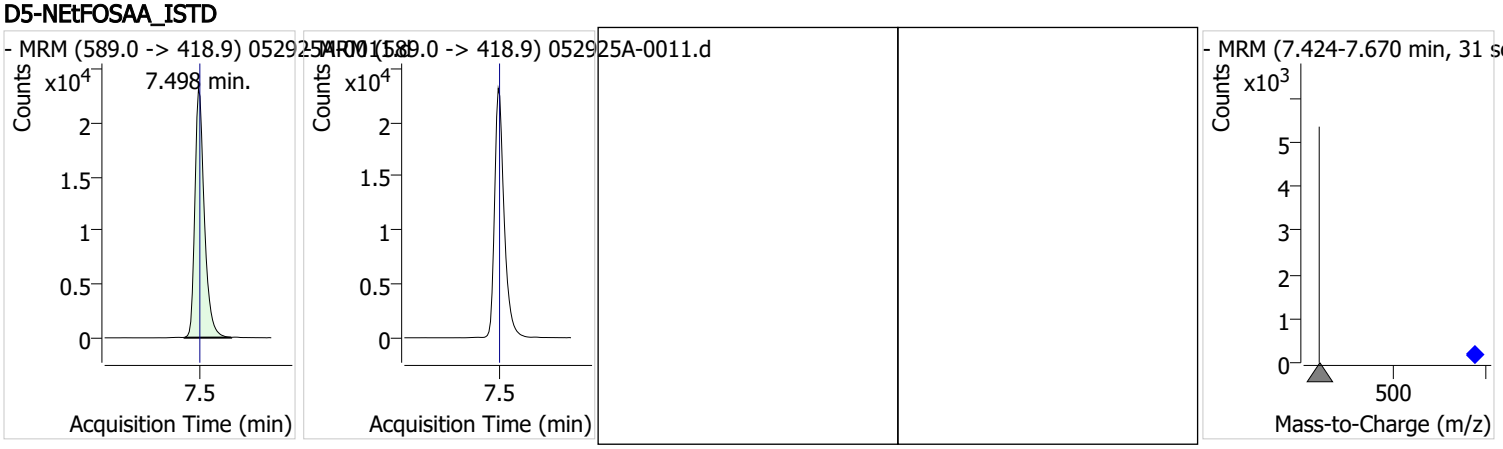
8:2FTS



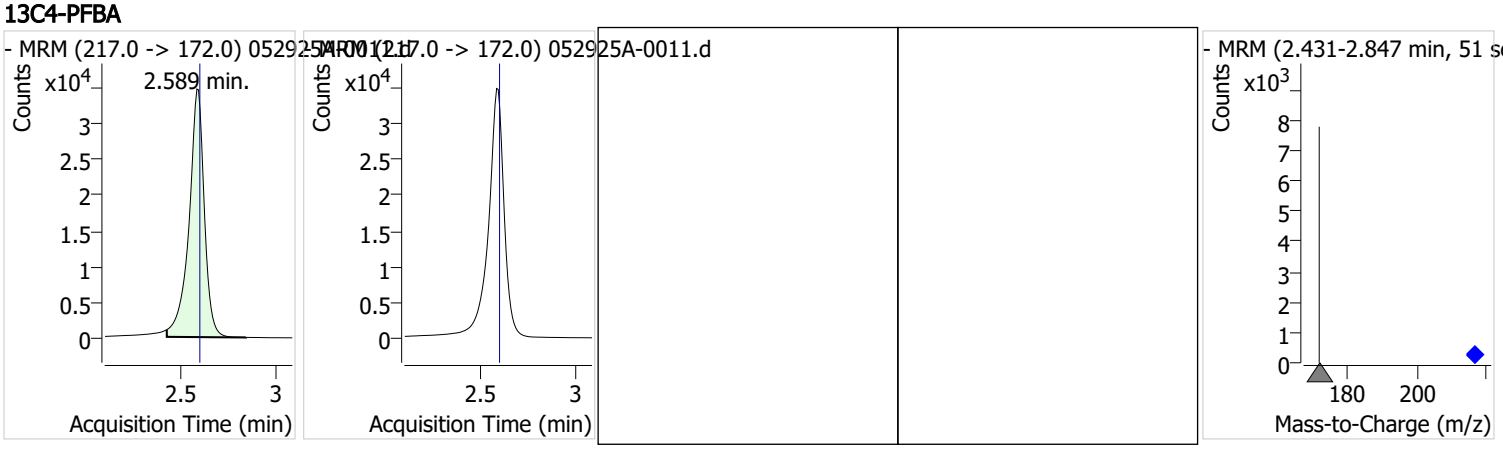
D3-NMeFOSAA_ISTD



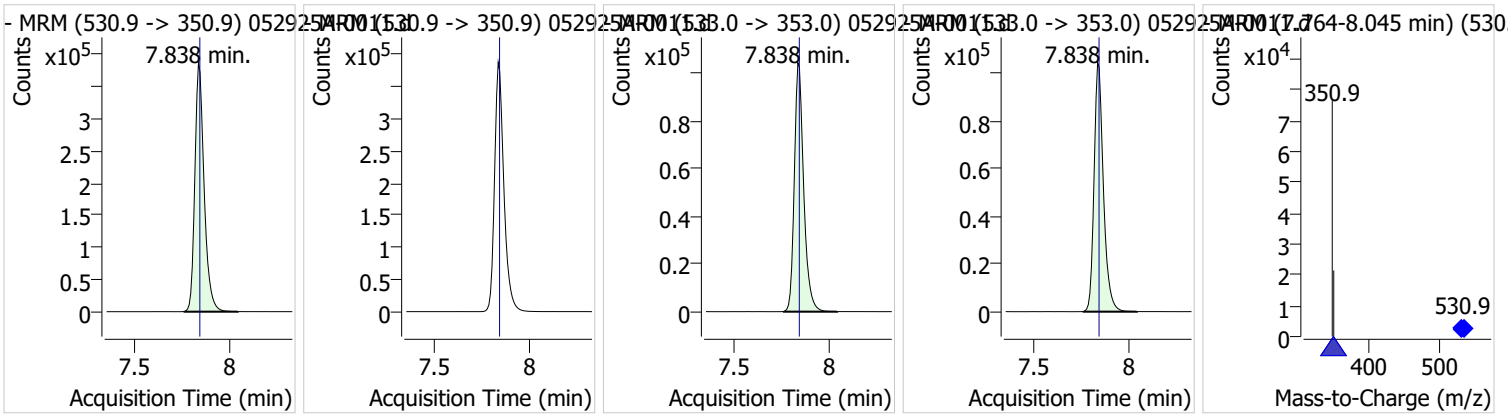
D5-NEtFOSAA_ISTD



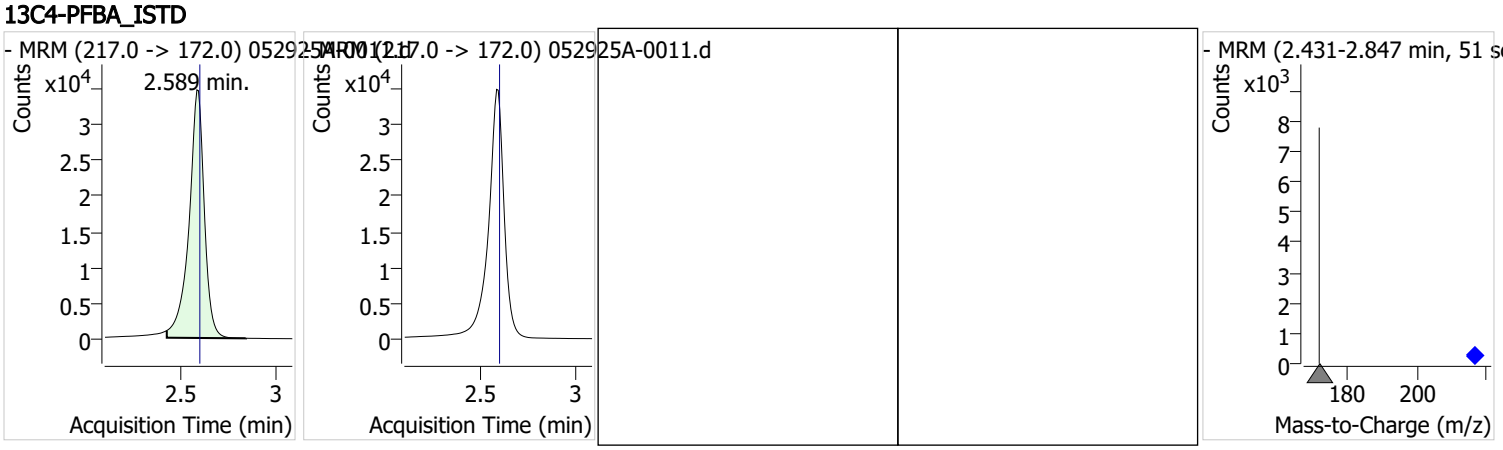
13C4-PFBA



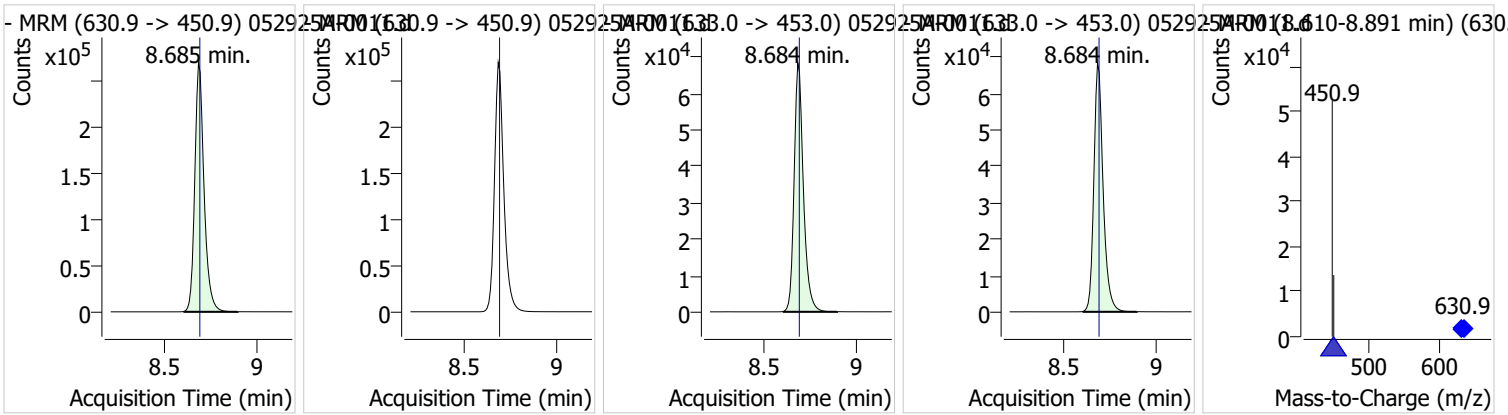
9Cl-PF3ONS



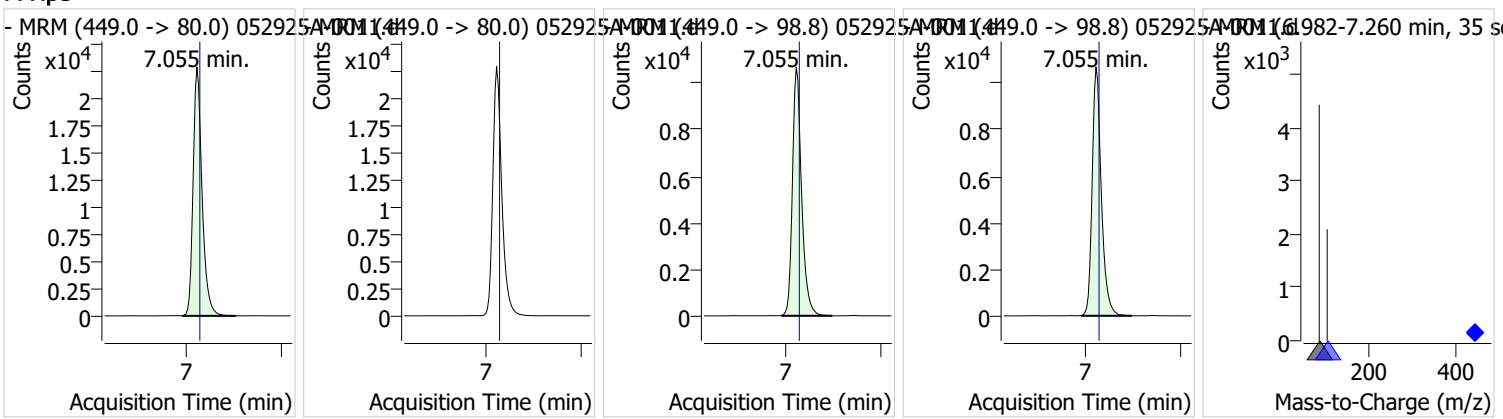
13C4-PFBA_ISTD



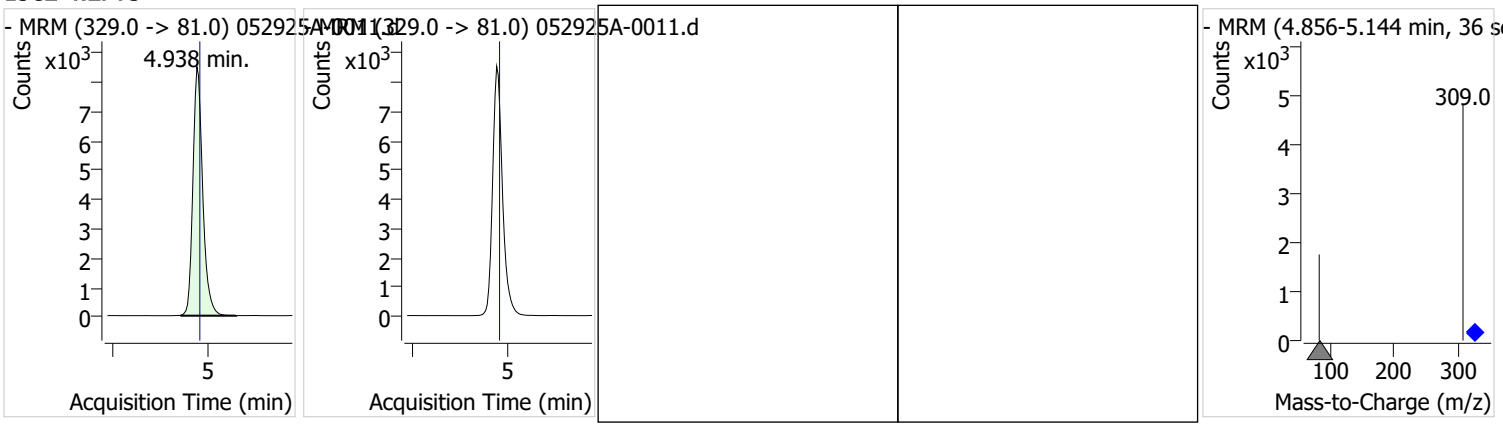
11Cl-PF3OUdS



PFHpS



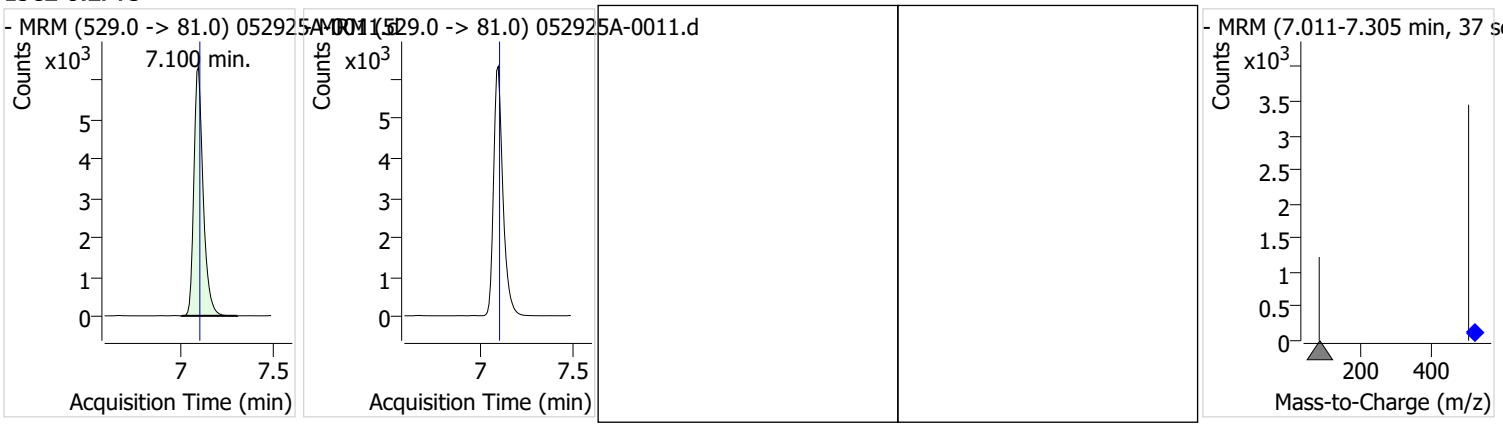
13C2-4:2FTS



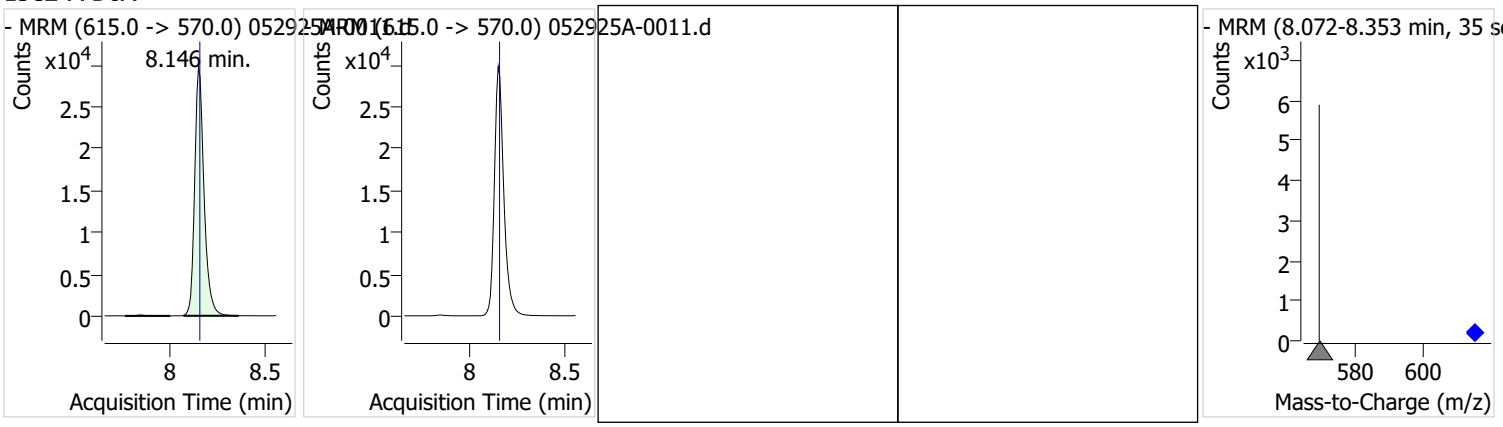
13C2-6:2FTS



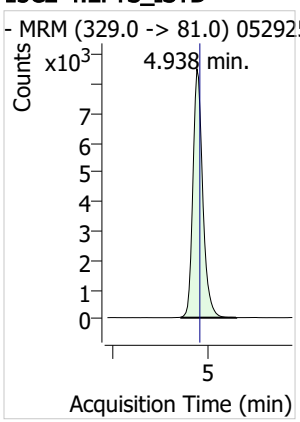
13C2-8:2FTS

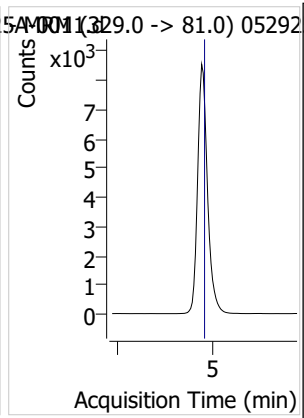


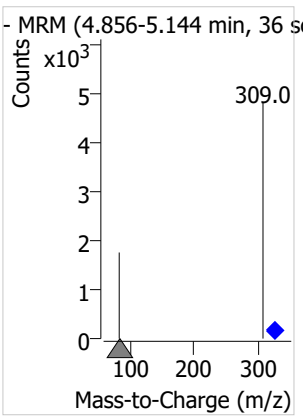
13C2-PFDoA



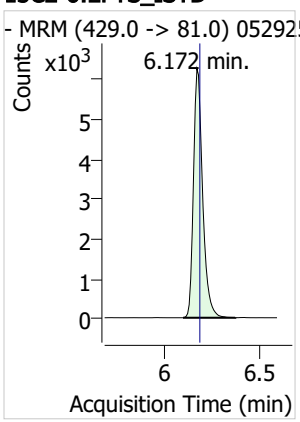
13C2-4:2FTS_ISTD

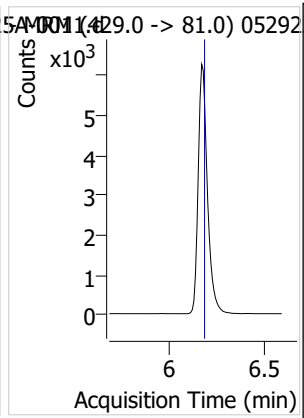


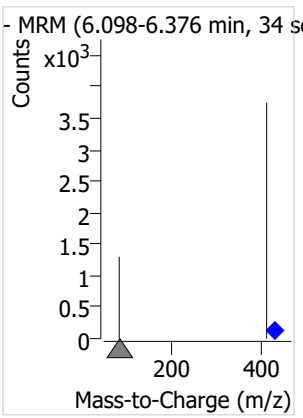




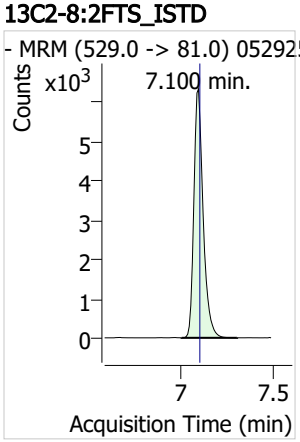
13C2-6:2FTS_ISTD

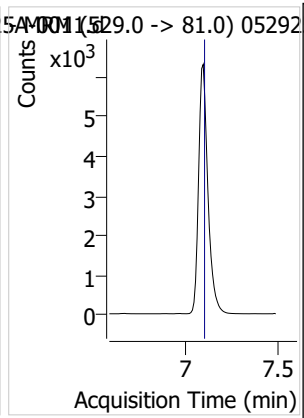


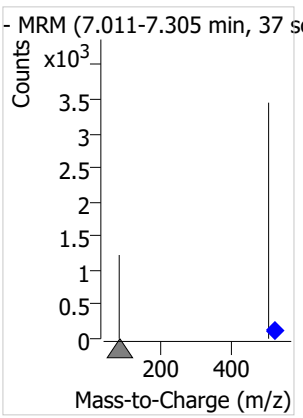




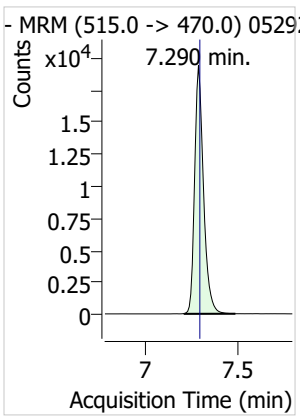
13C2-8:2FTS_ISTD

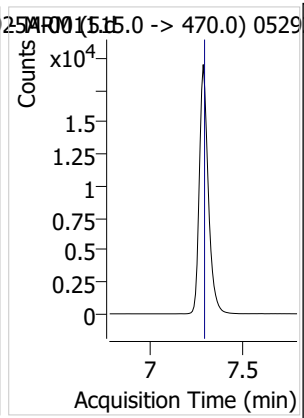


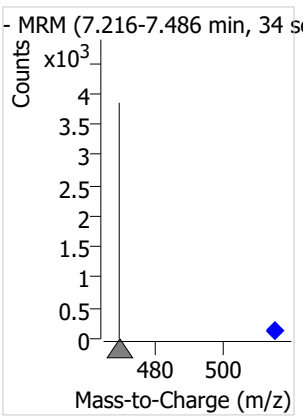




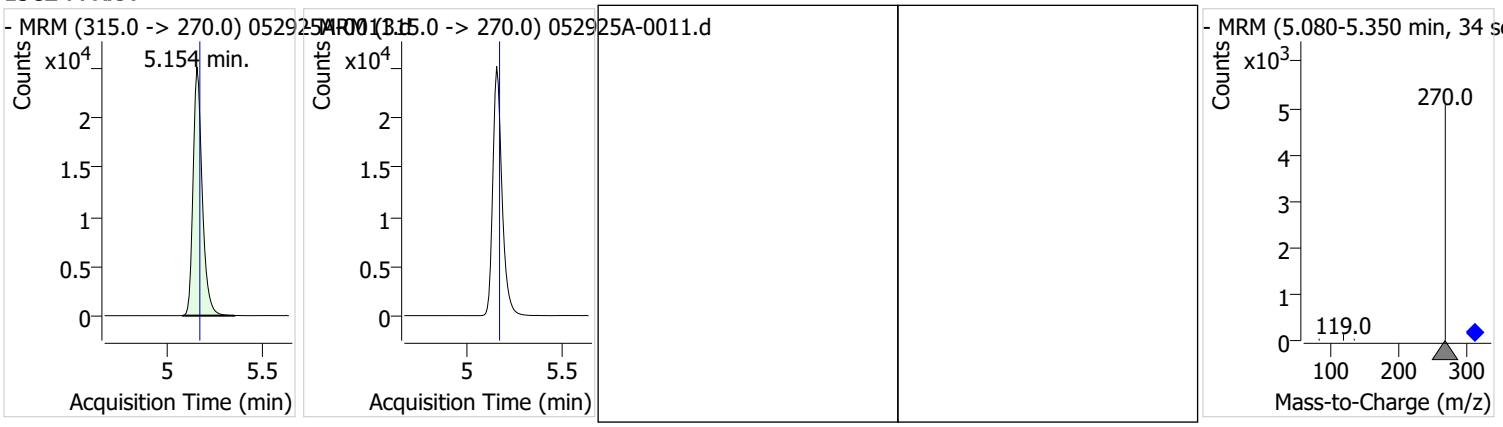
13C2-PFDA



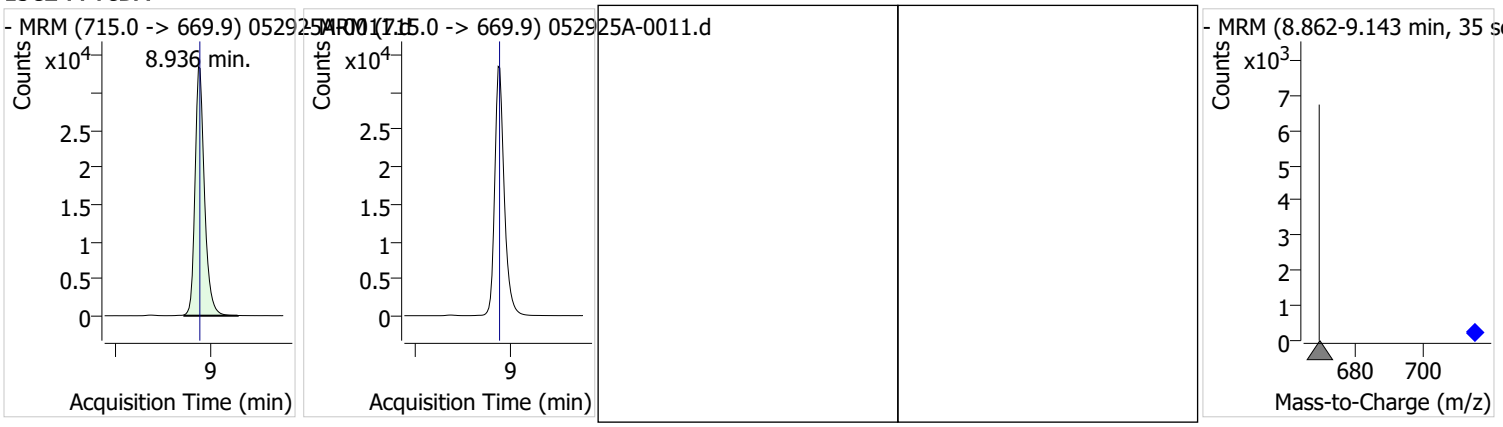




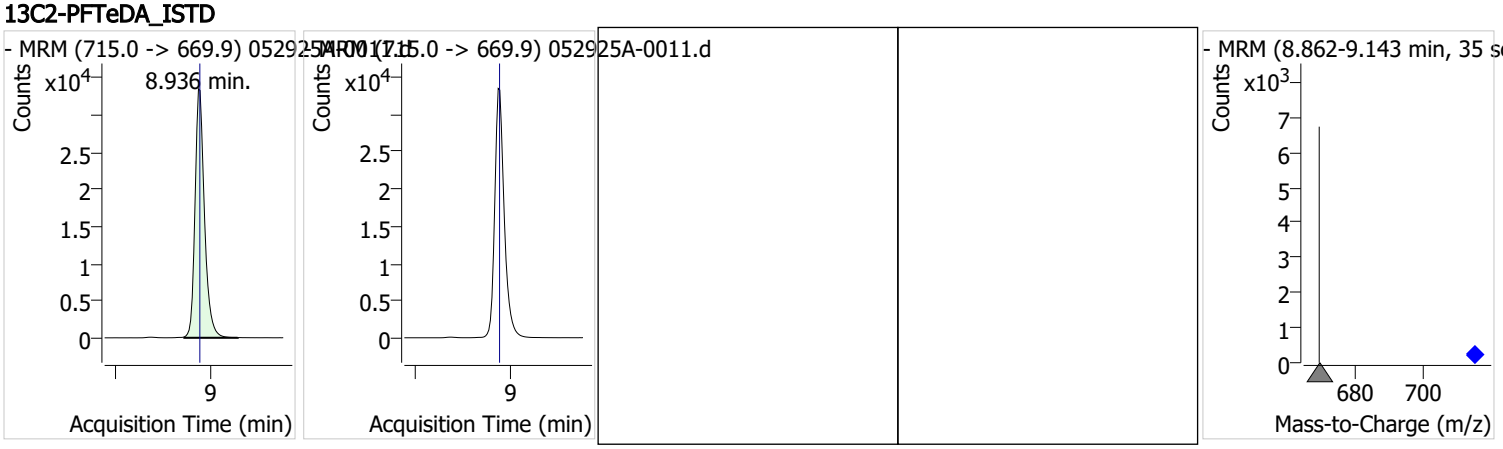
13C2-PFHxA



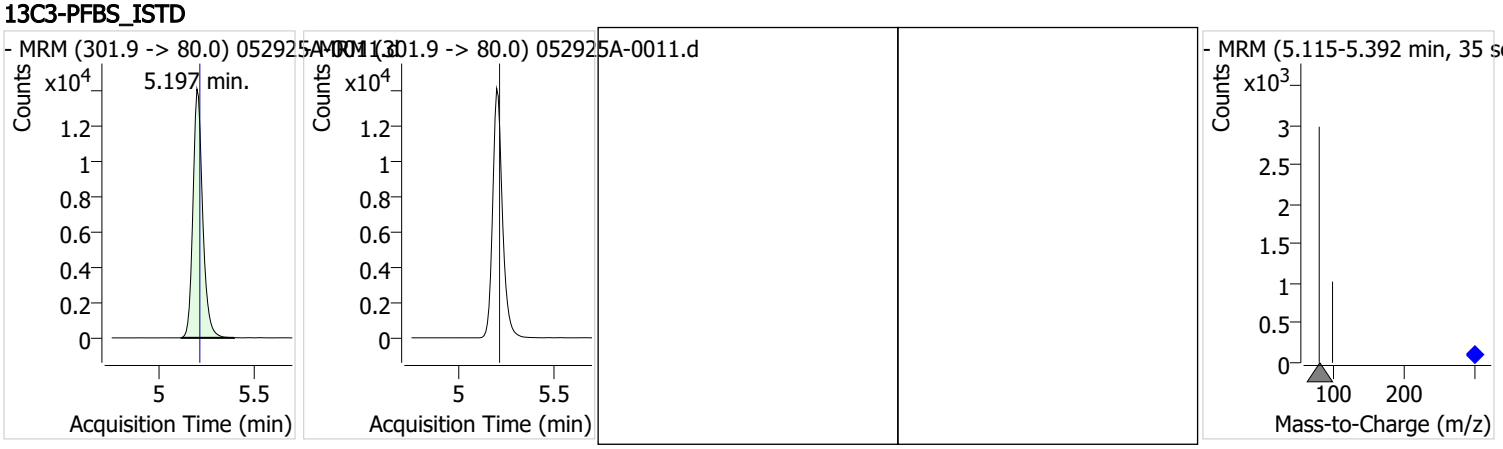
13C2-PFTeDA



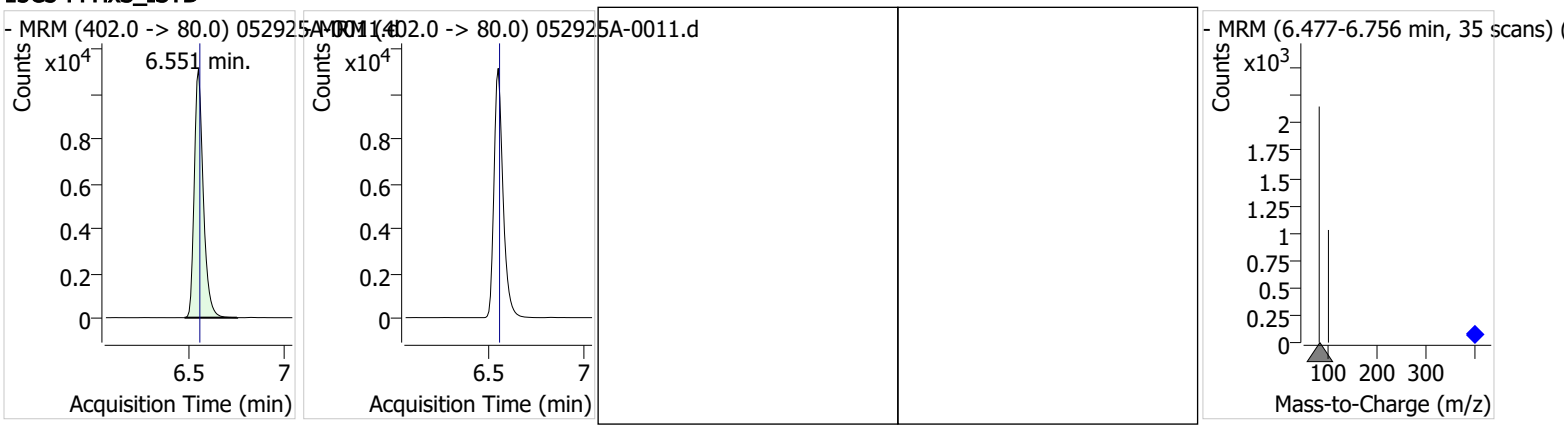
13C2-PFTeDA_ISTD



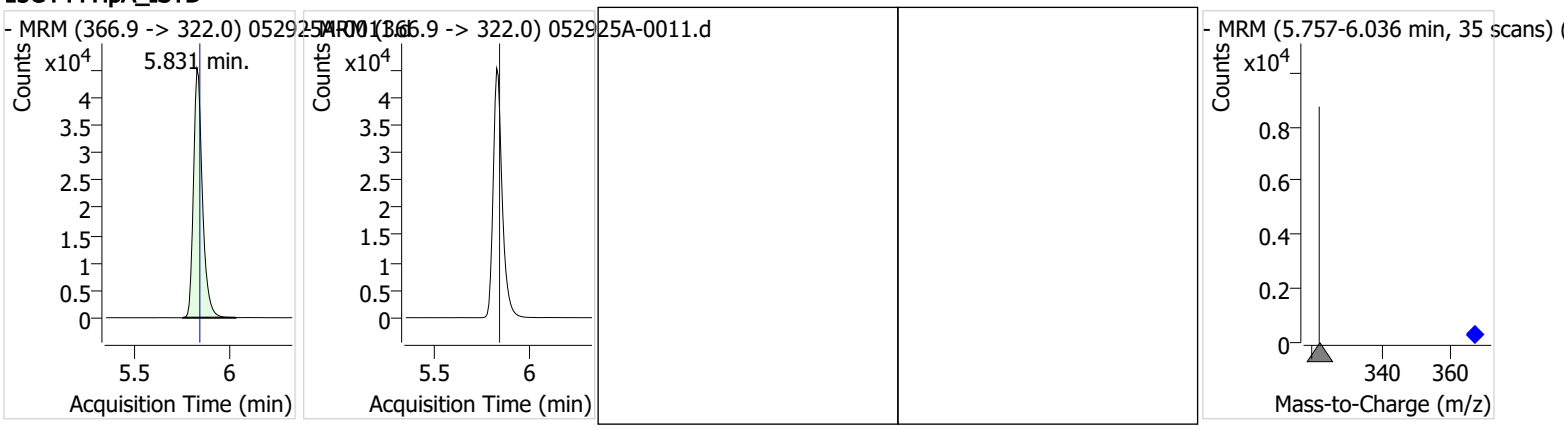
13C3-PFBS_ISTD



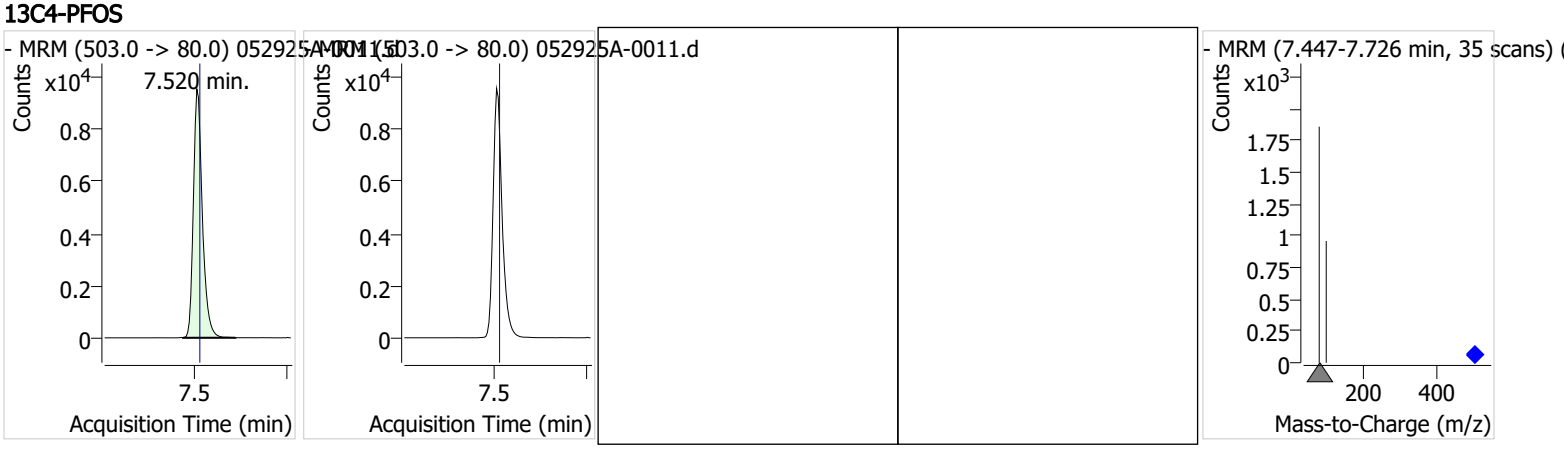
13C3-PFHxS_ISTD



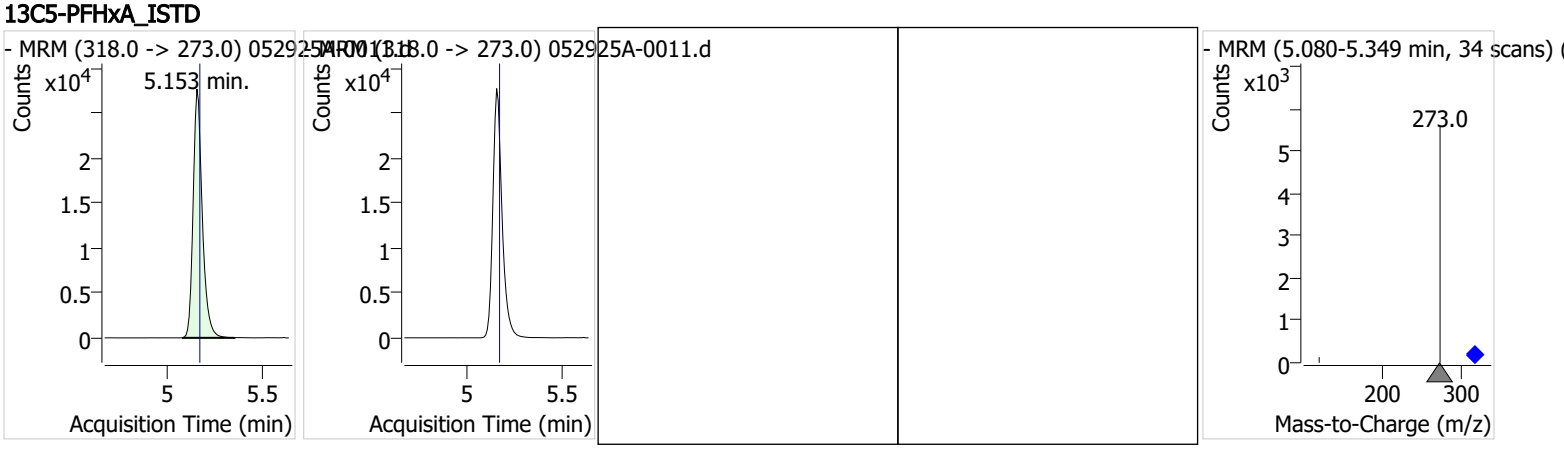
13C4-PFHpA_ISTD



13C4-PFOS



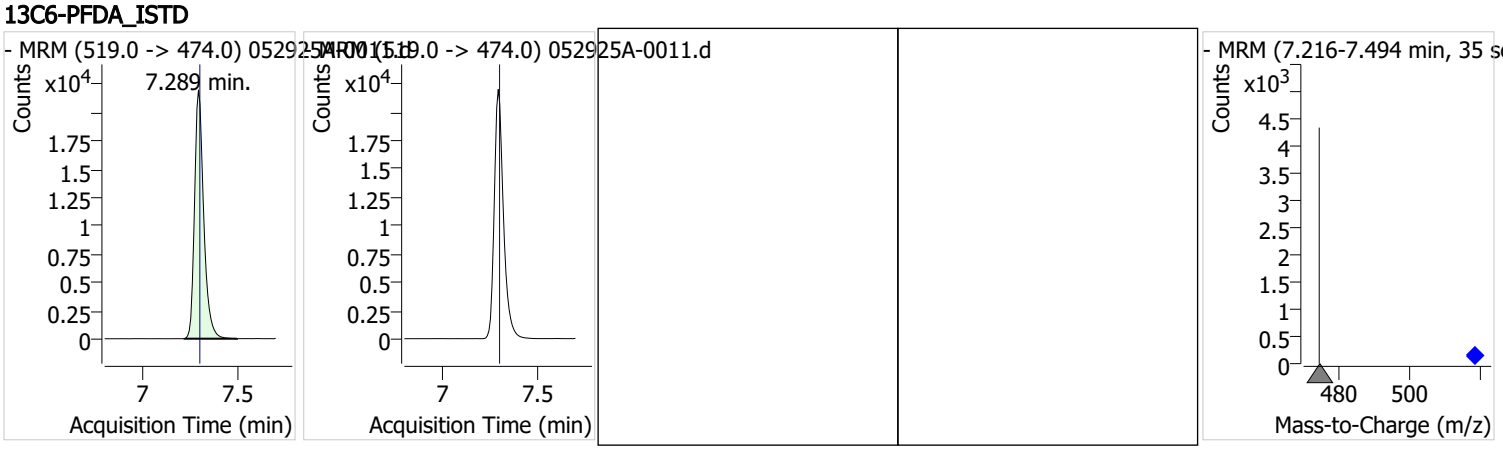
13C5-PFHxA_ISTD



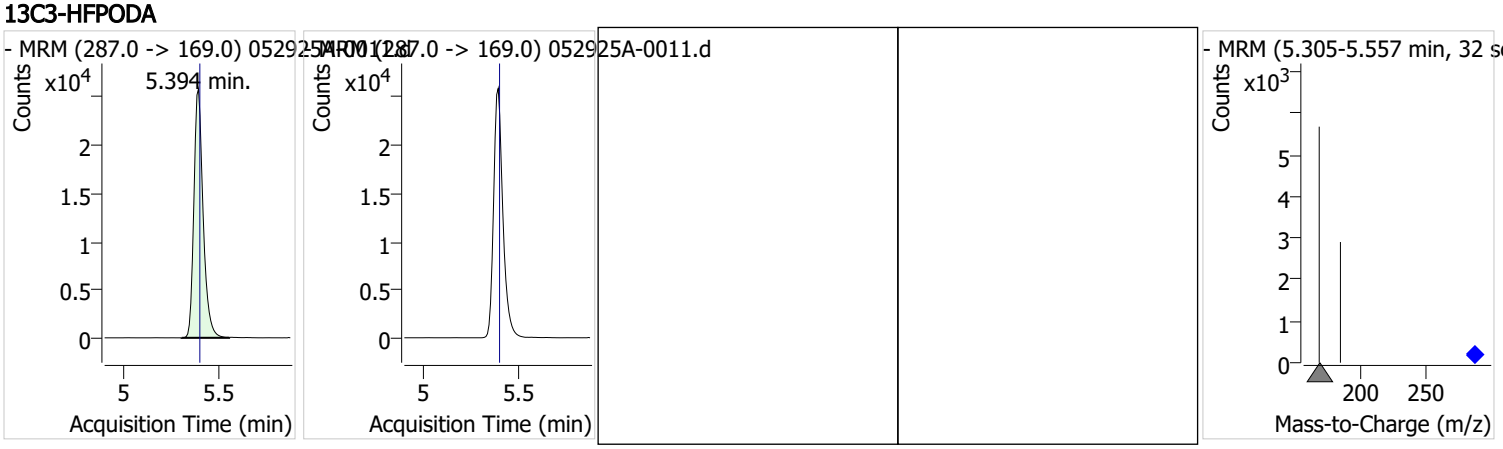
13C5-PFPeA_ISTD



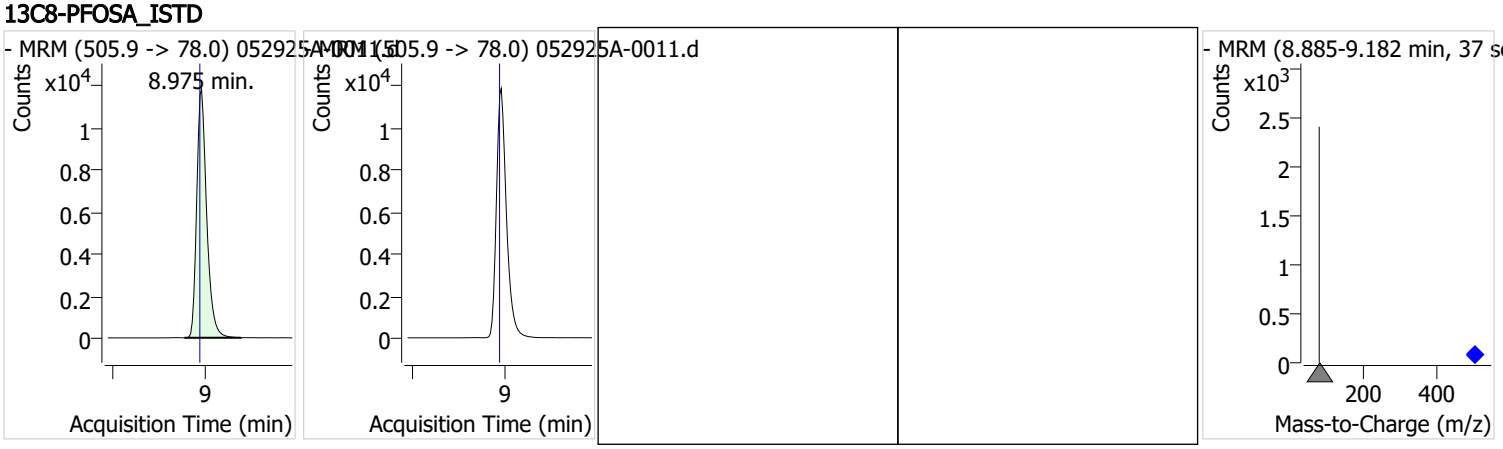
13C6-PFDA_ISTD



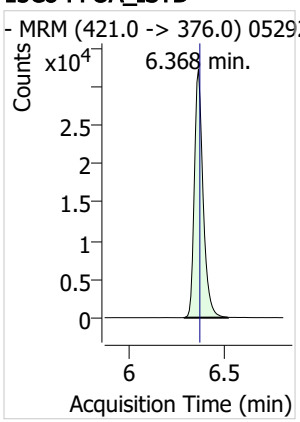
13C3-HFPODA

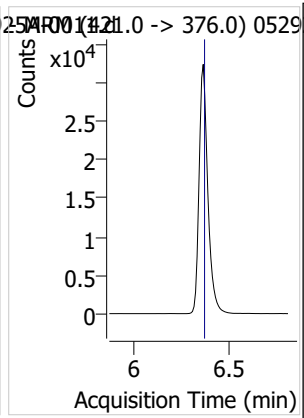


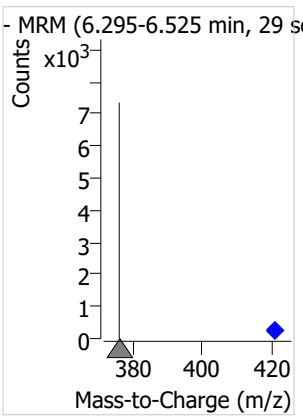
13C8-PFOSA_ISTD



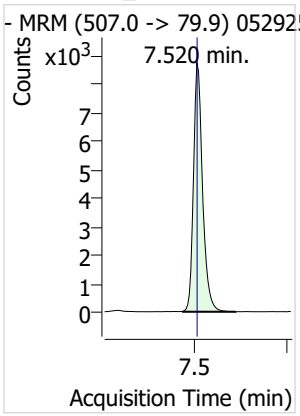
13C8-PFOA_ISTD

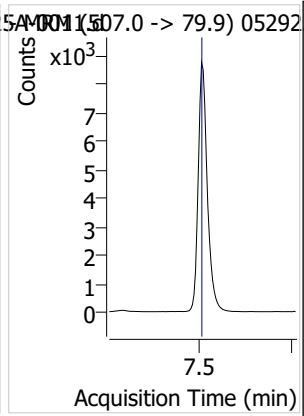


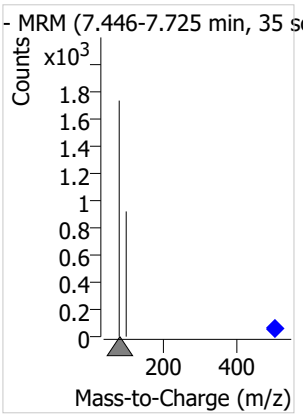




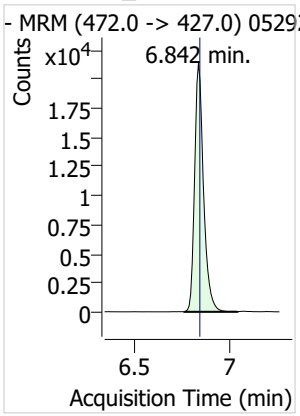
13C8-PFOS_ISTD

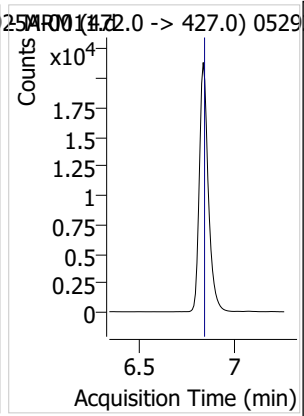


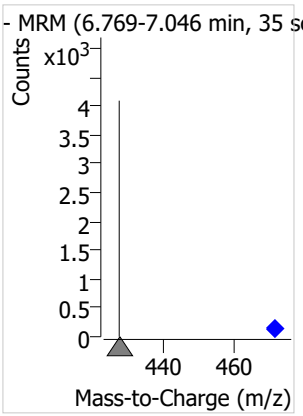




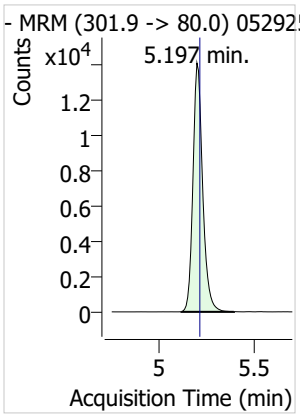
13C9-PFNA_ISTD

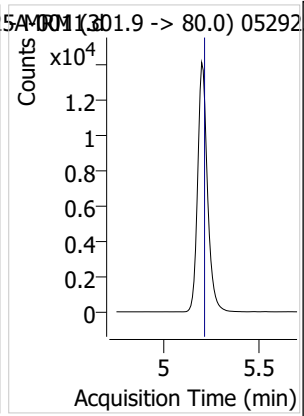


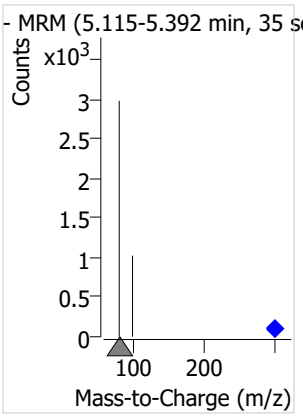




13C3-PFBS



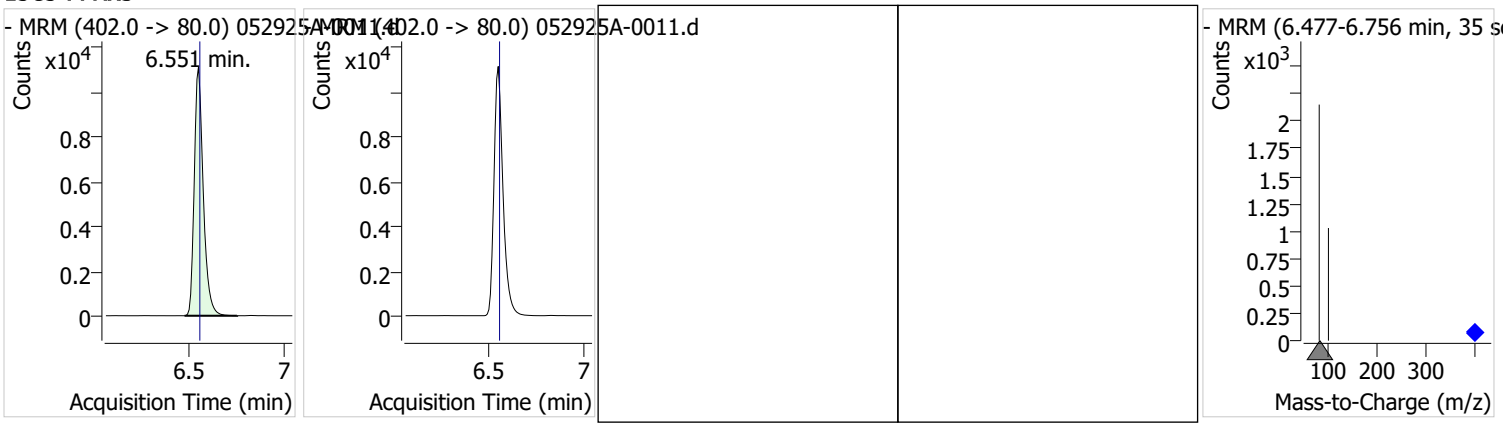




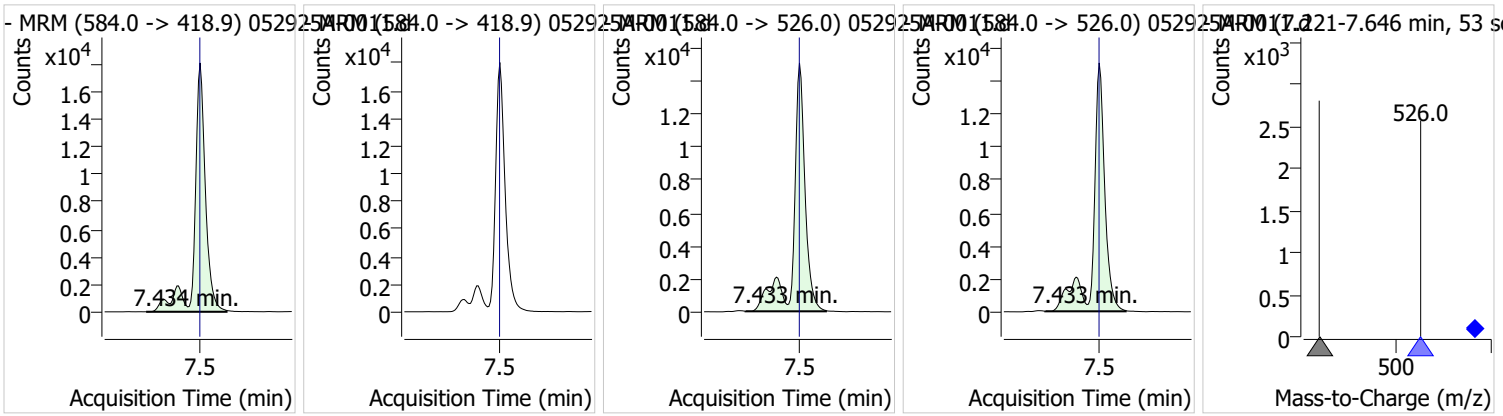
13C2-PFDoA_ISTD



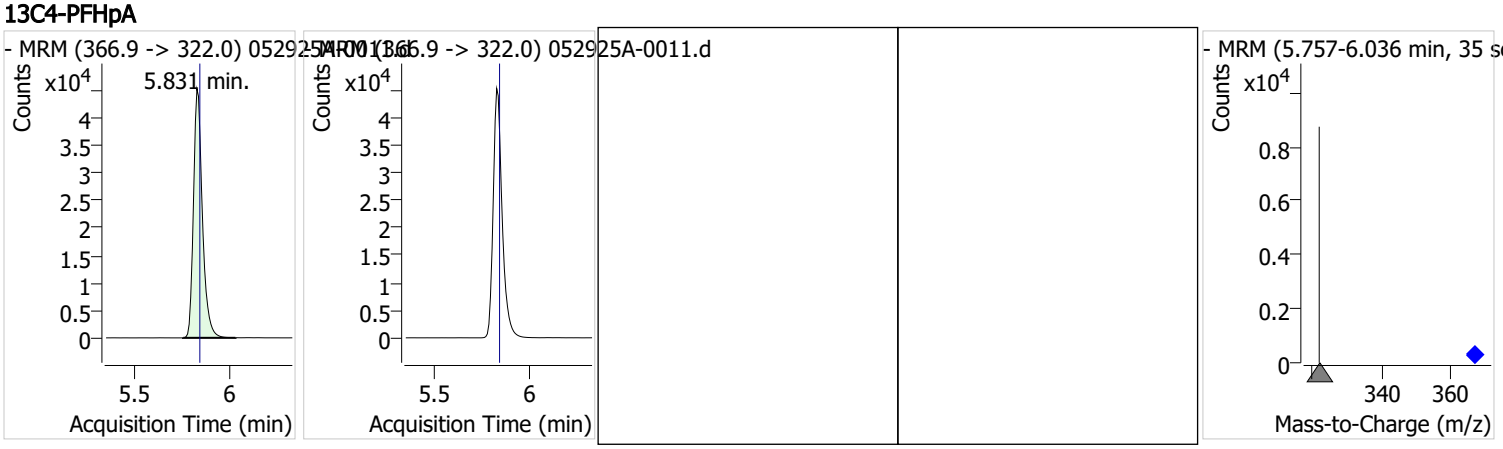
13C3-PFHxS



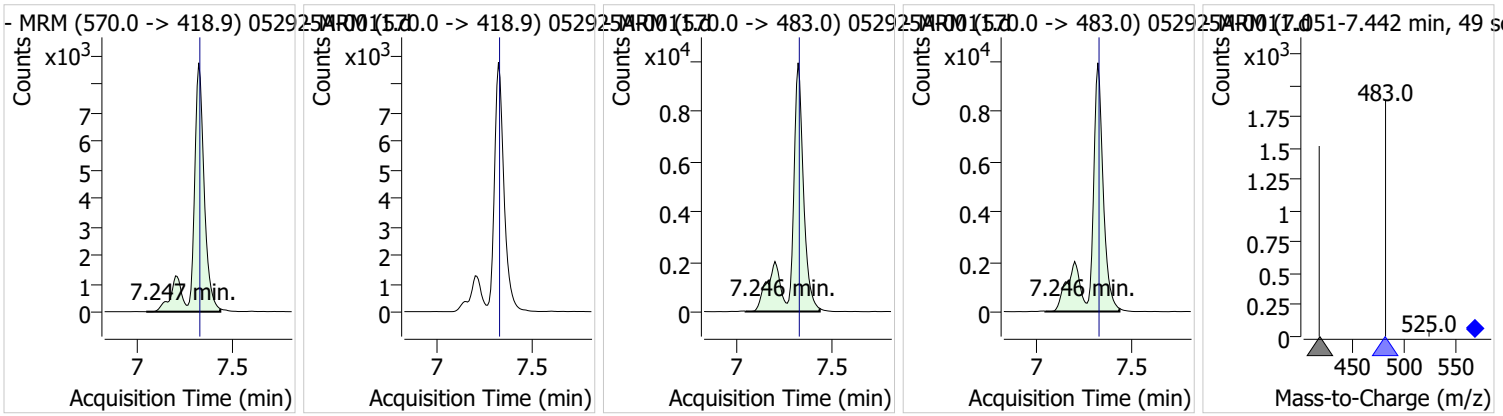
NEtFOSAA



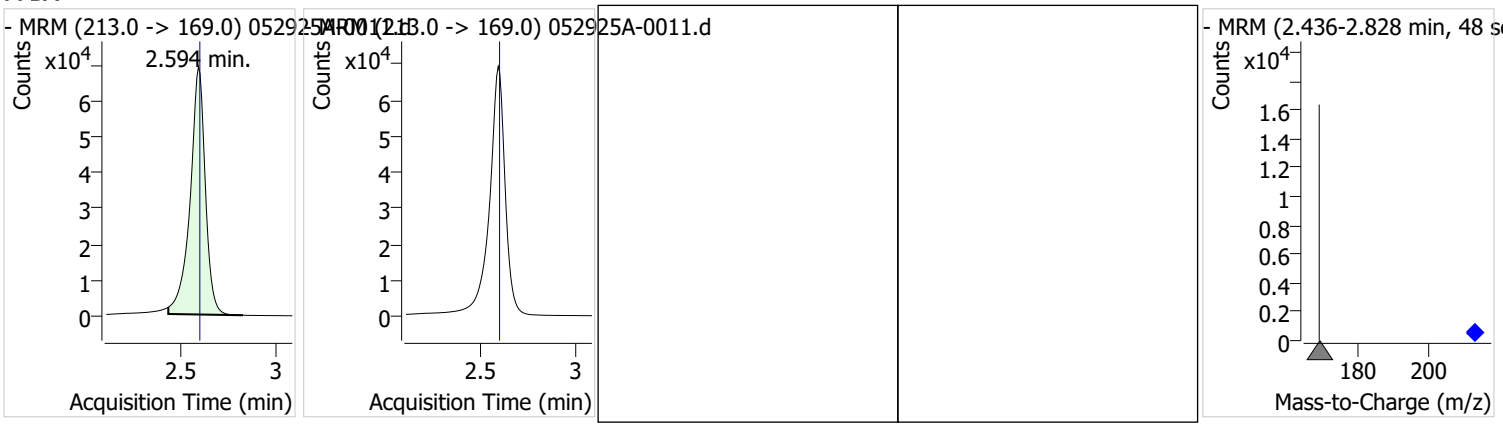
13C4-PFHpA



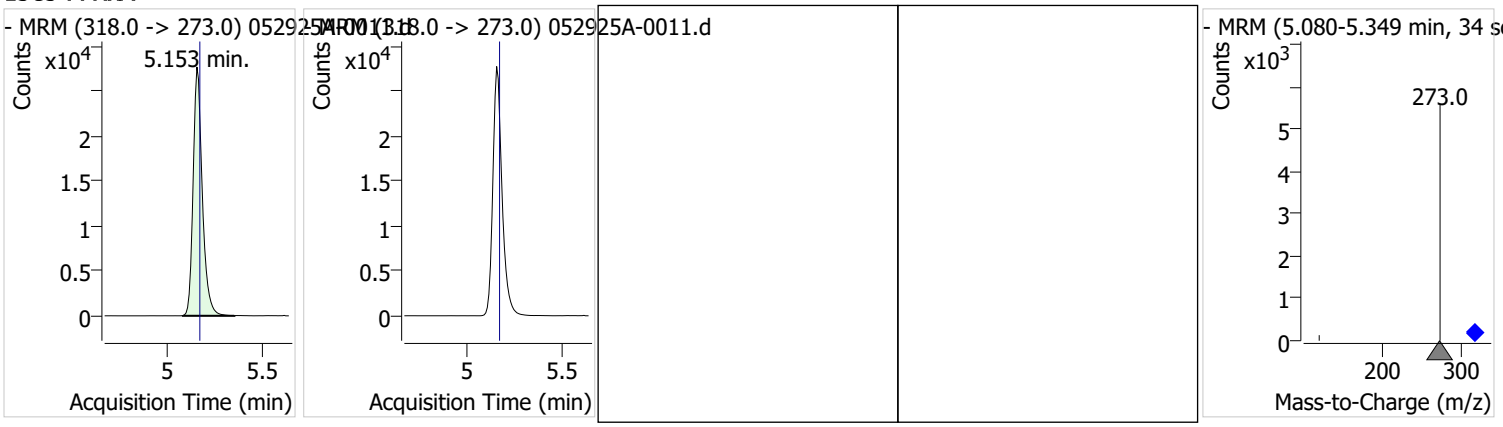
NMeFOSAA



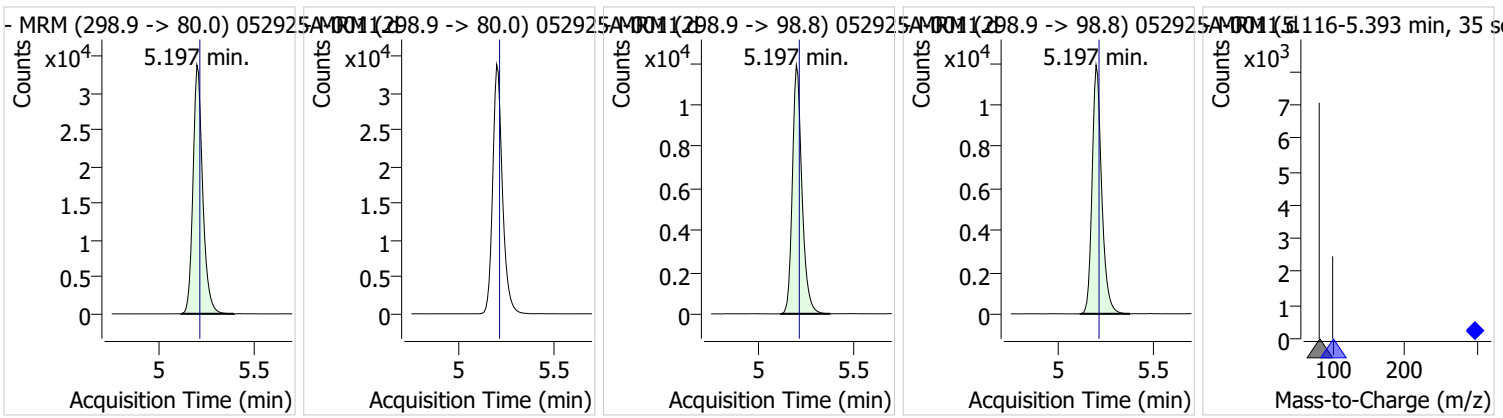
PFBA



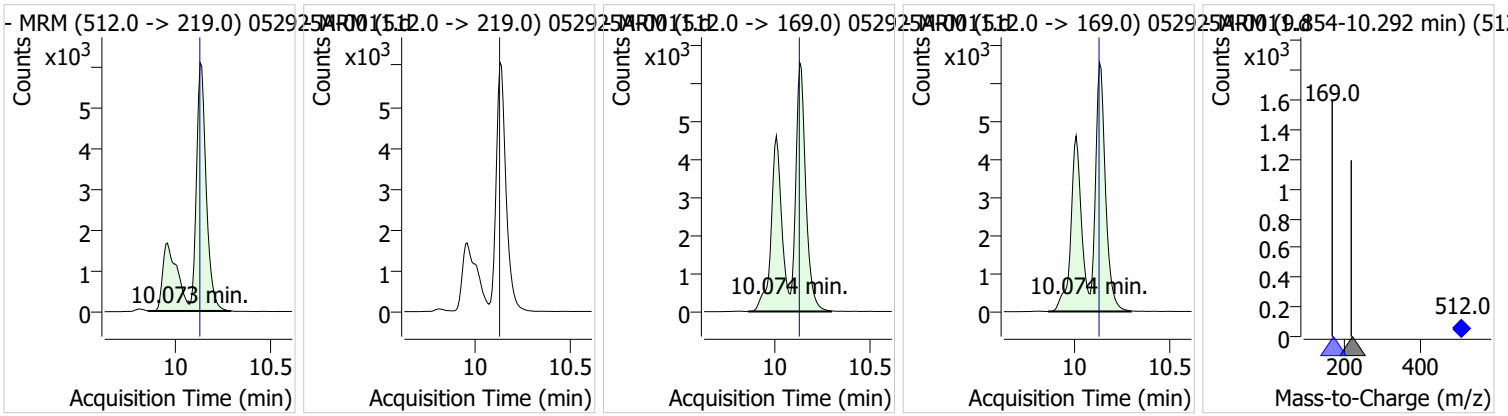
13C5-PFHxA



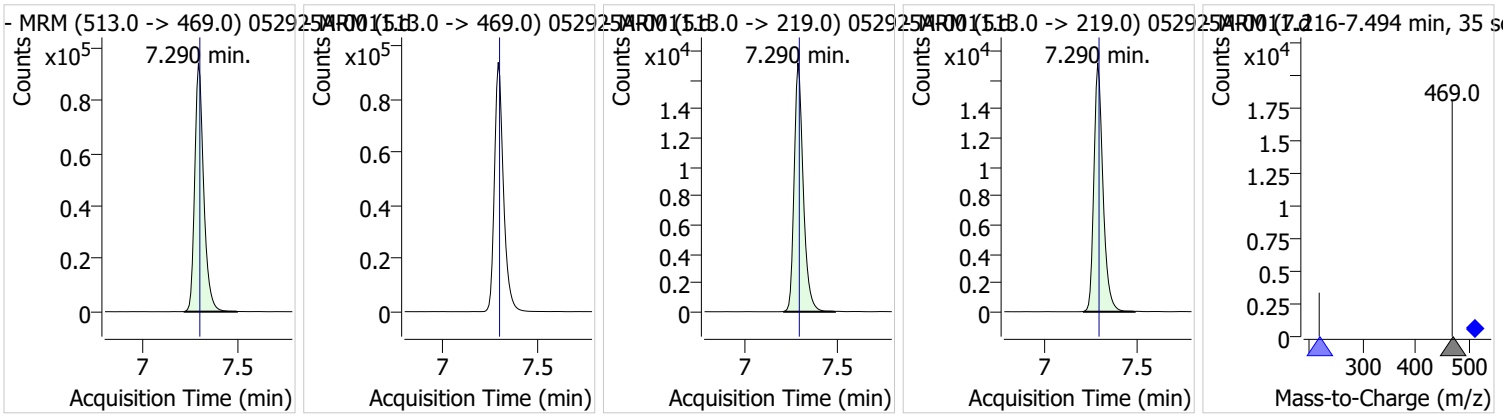
PFBS



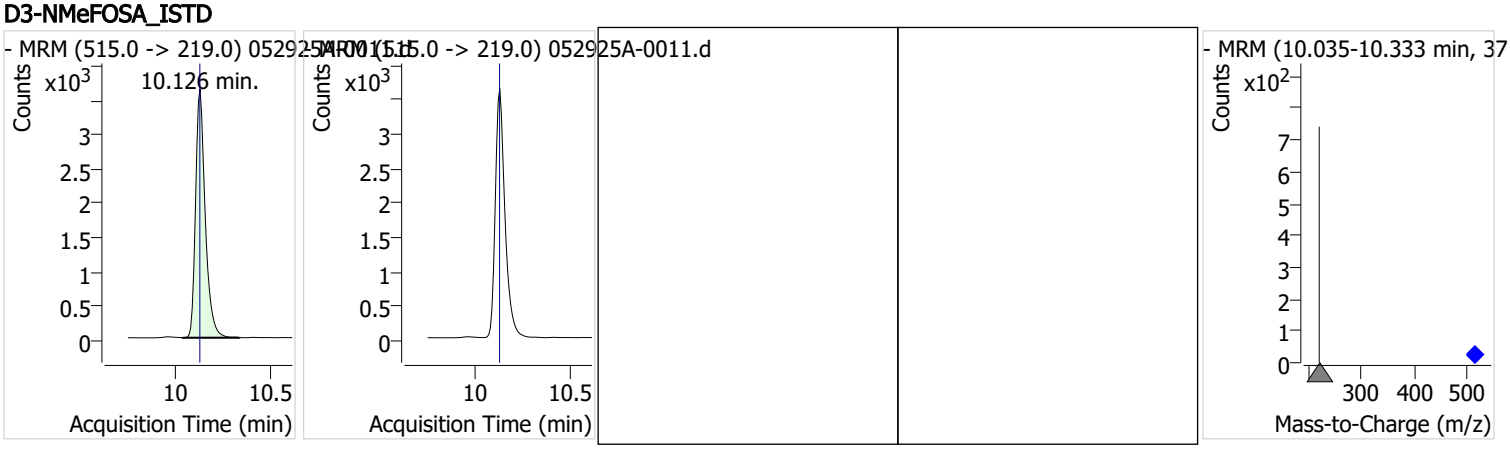
NMeFOSA



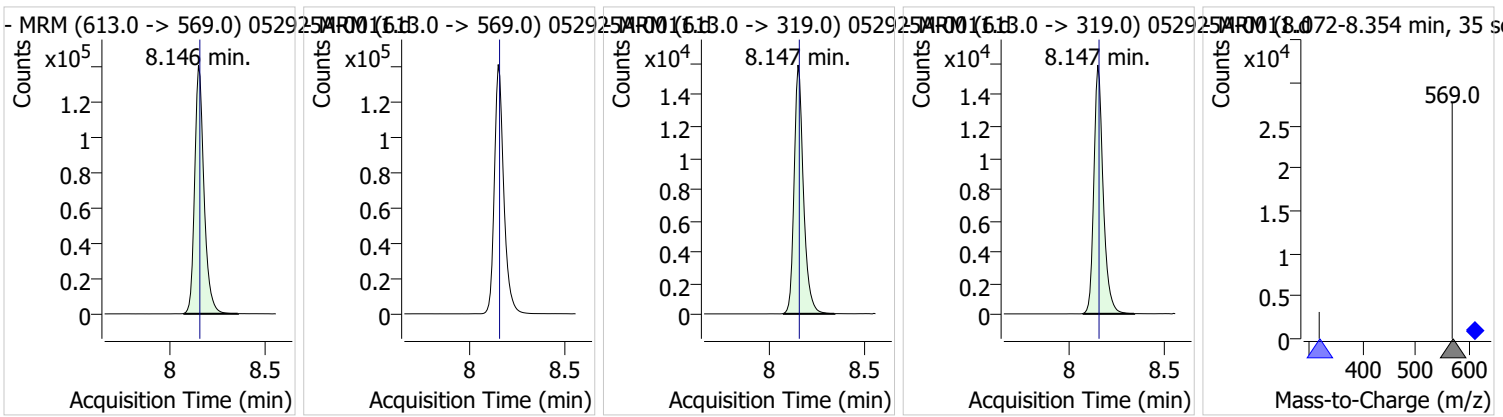
PFDA



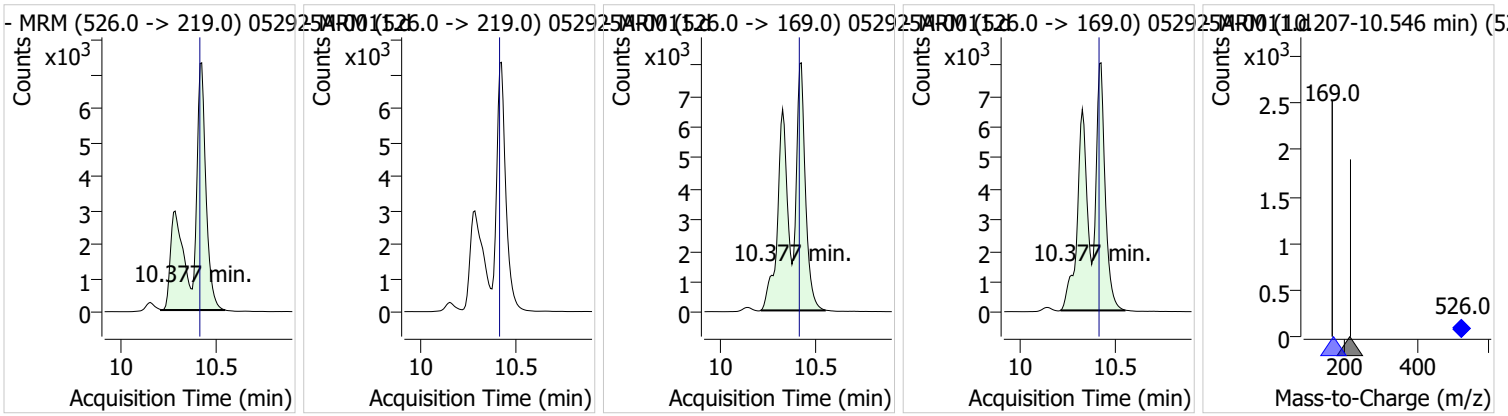
D3-NMeFOSA_ISTD



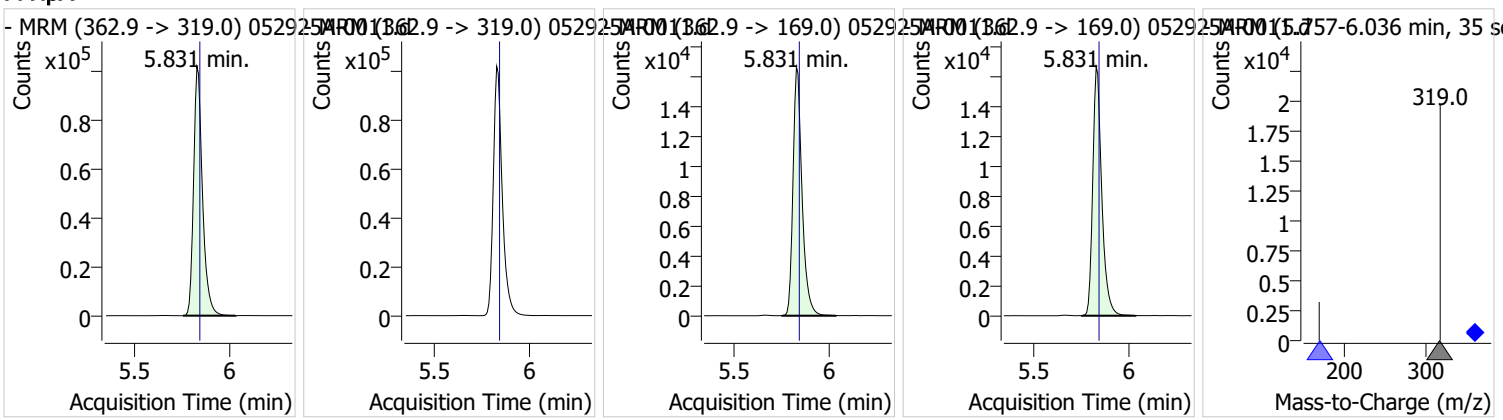
PFDoA



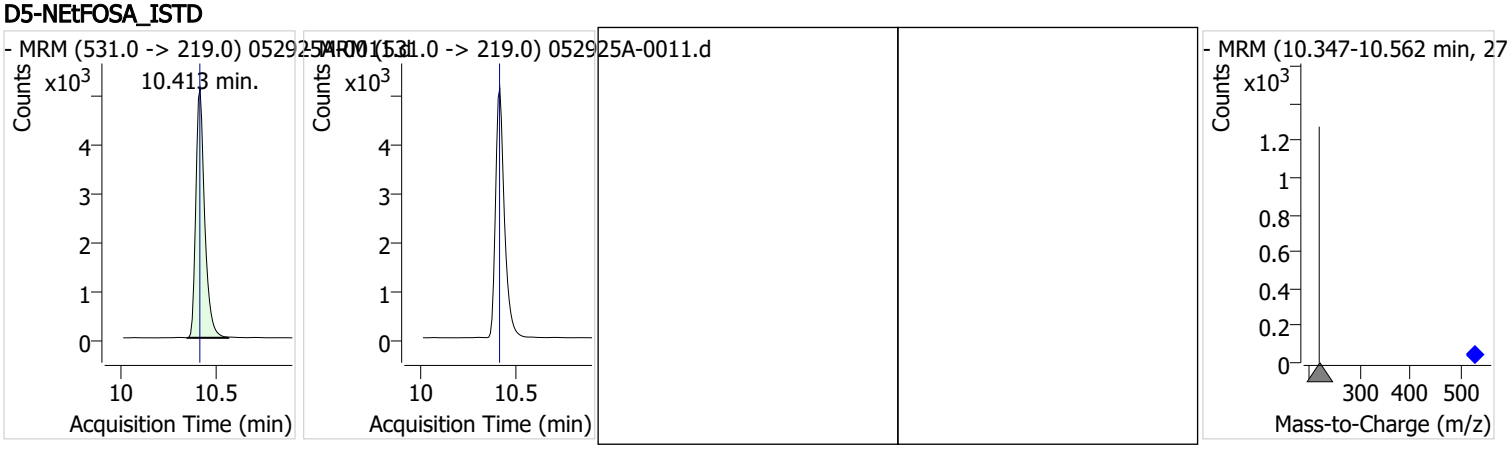
NEtFOSA



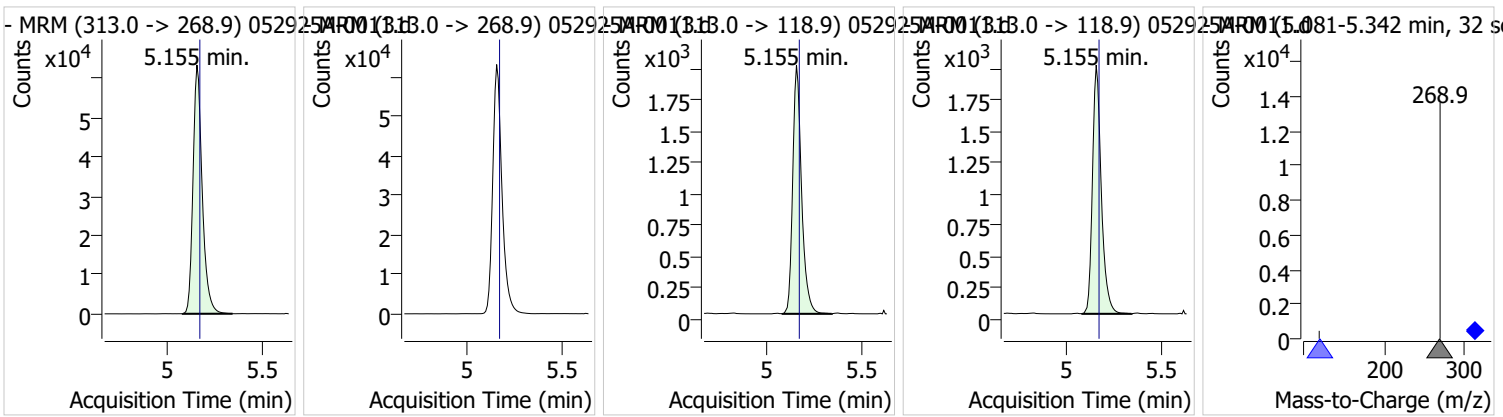
PFHpA



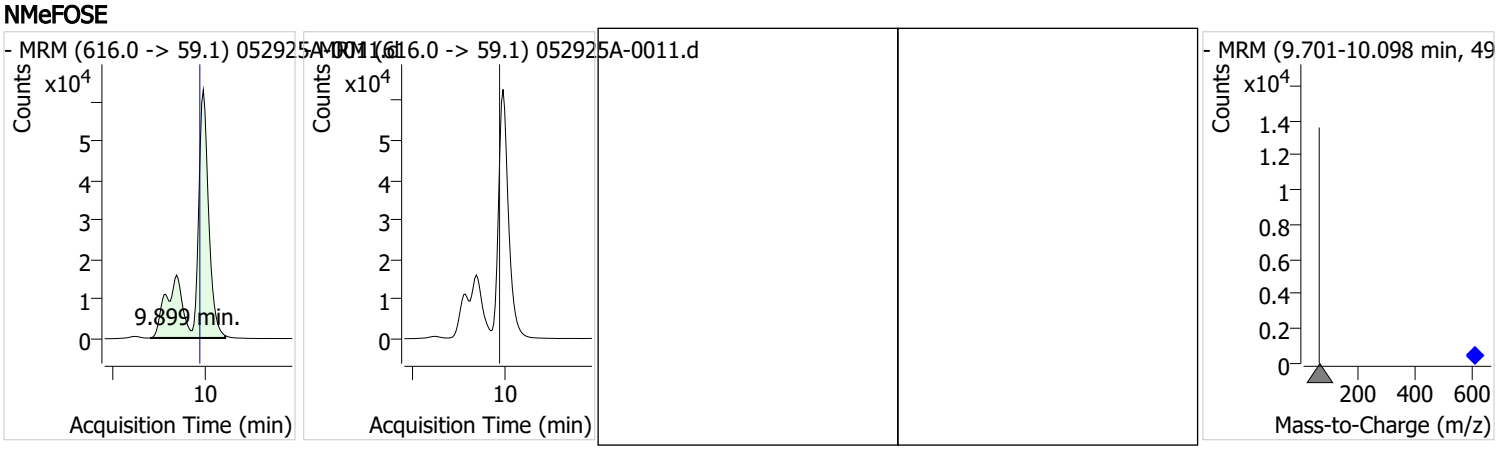
D5-NEtFOSA_ISTD



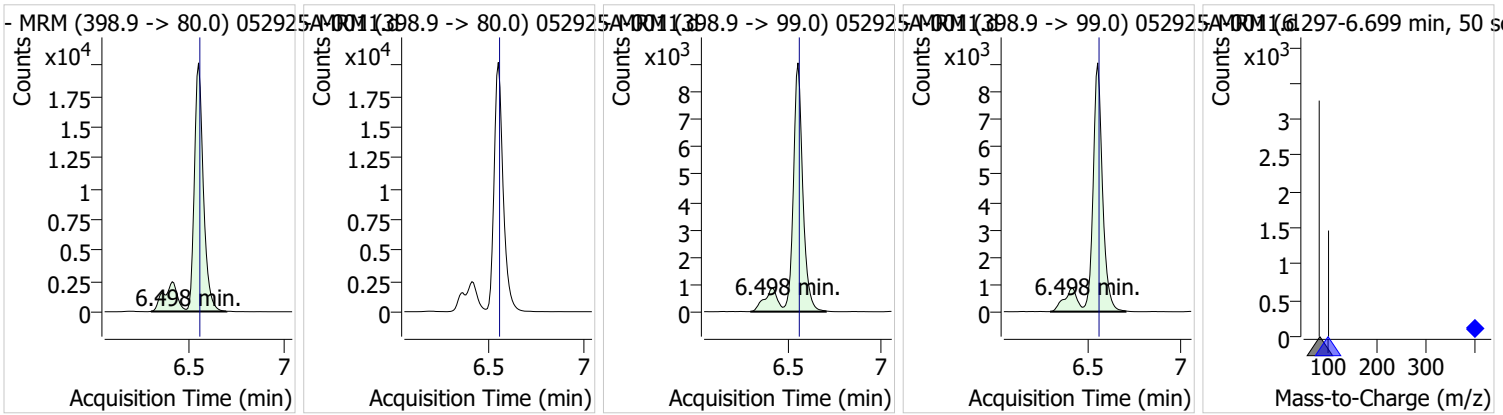
PFHxA



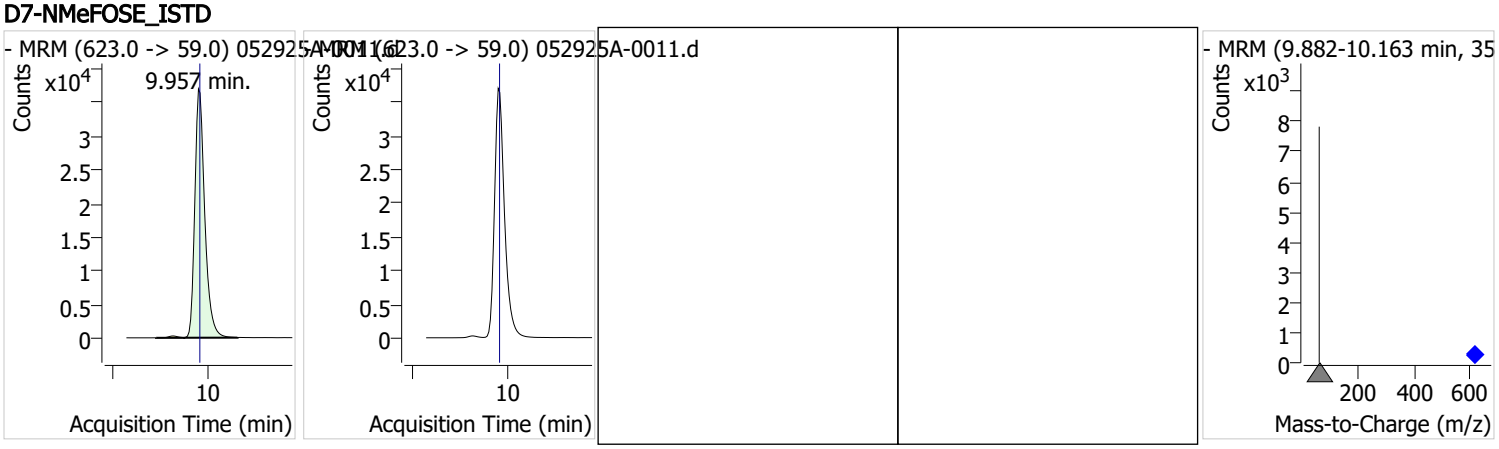
NMeFOSE



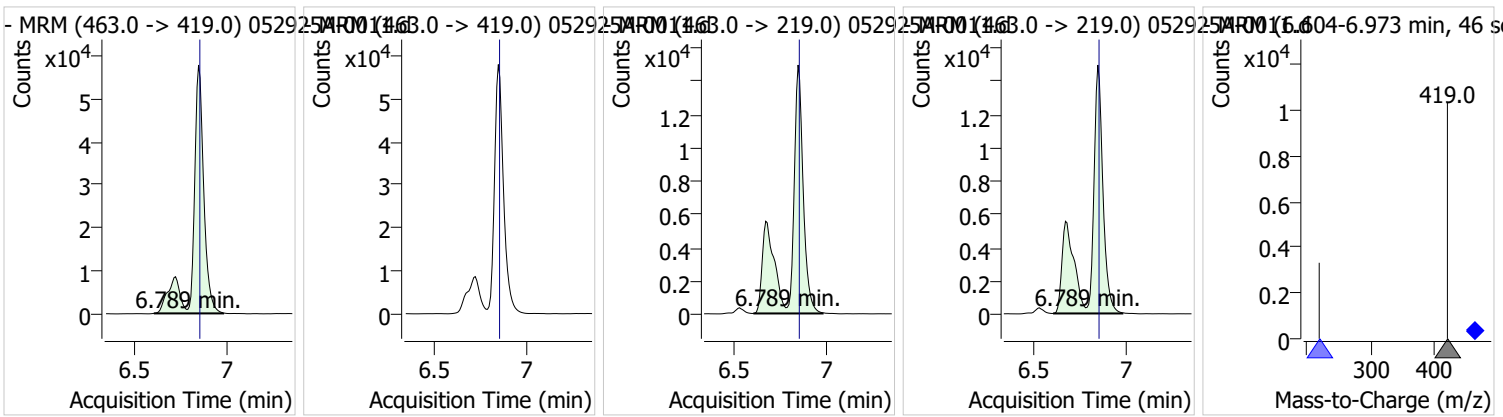
PFHxS



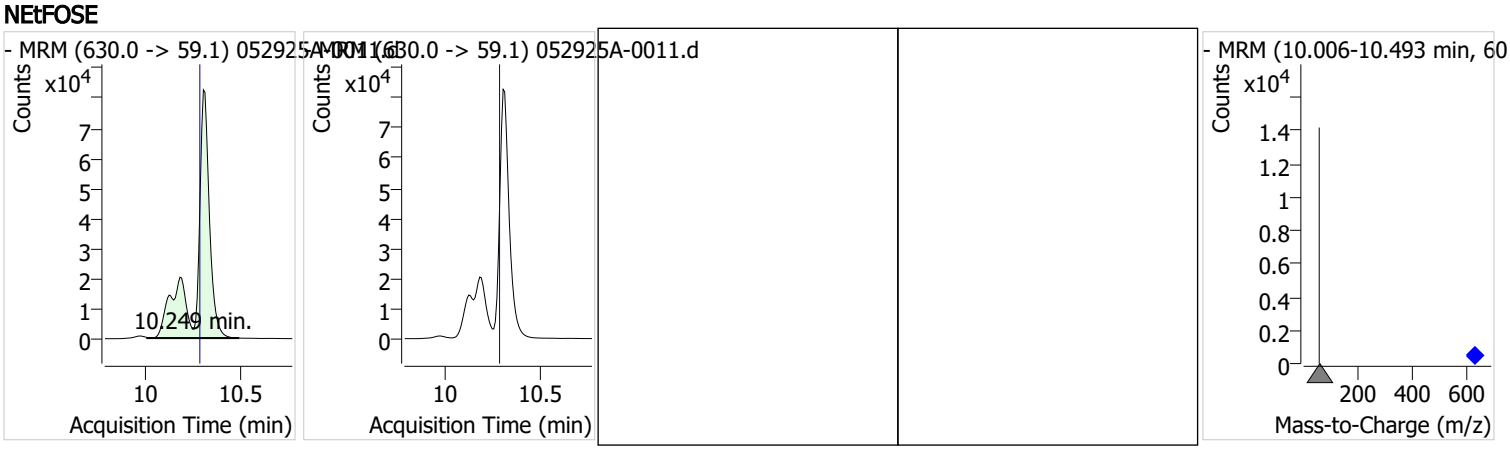
D7-NMeFOSE_ISTD



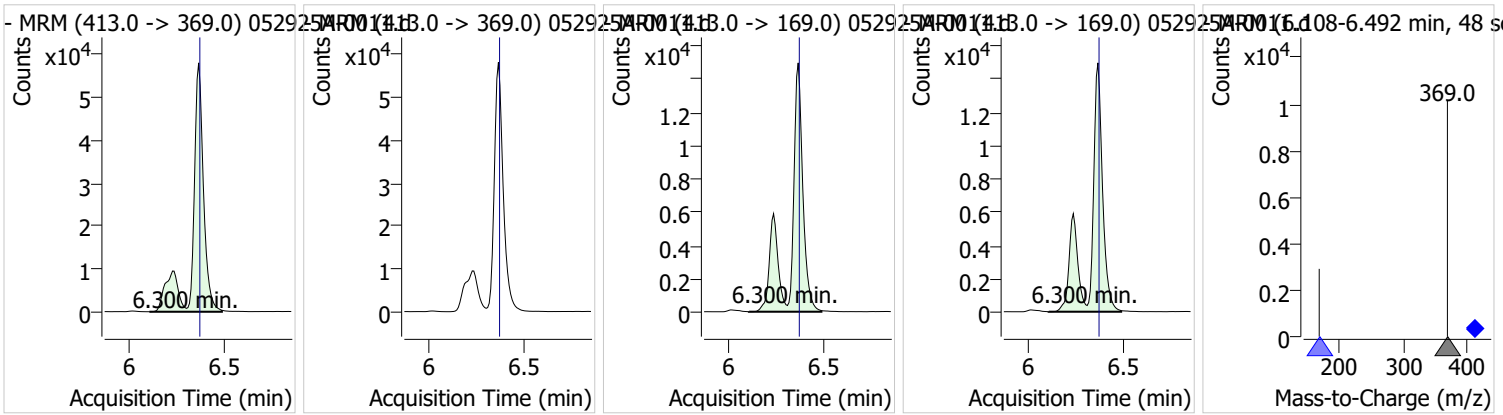
PFNA



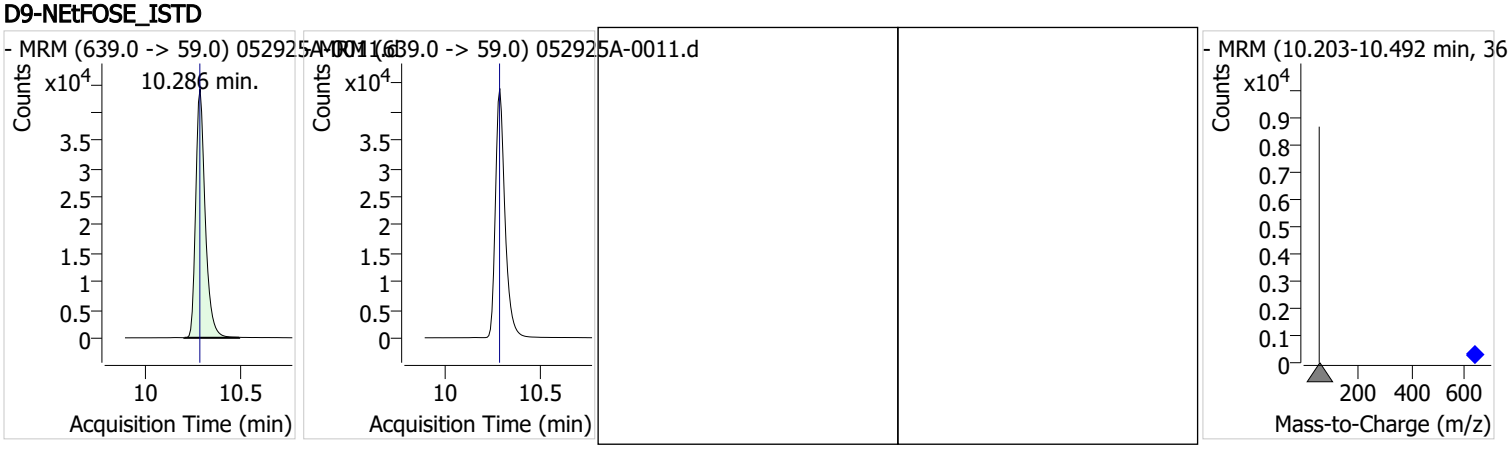
NEtFOSE



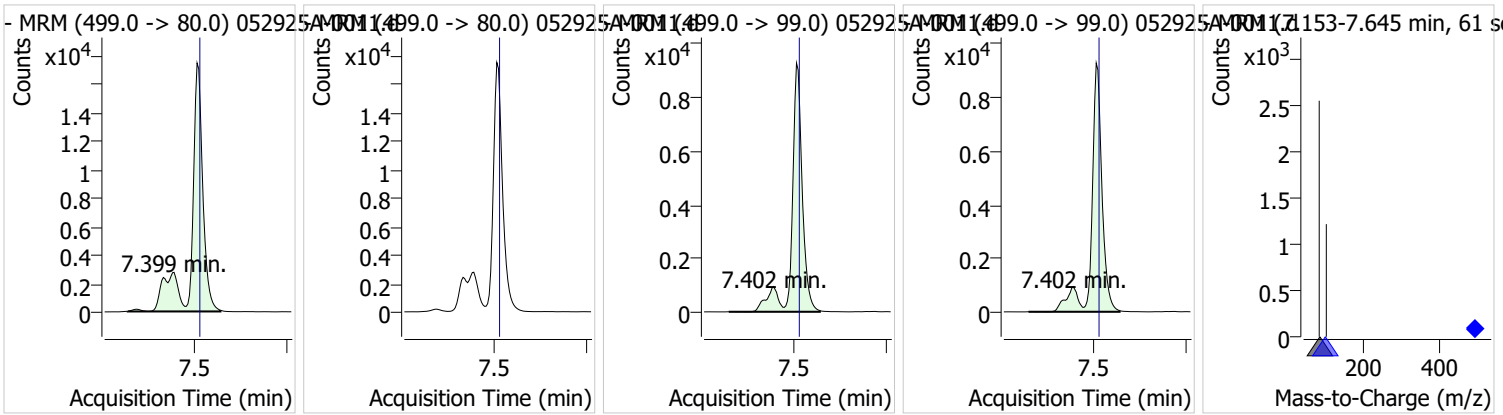
PFOA



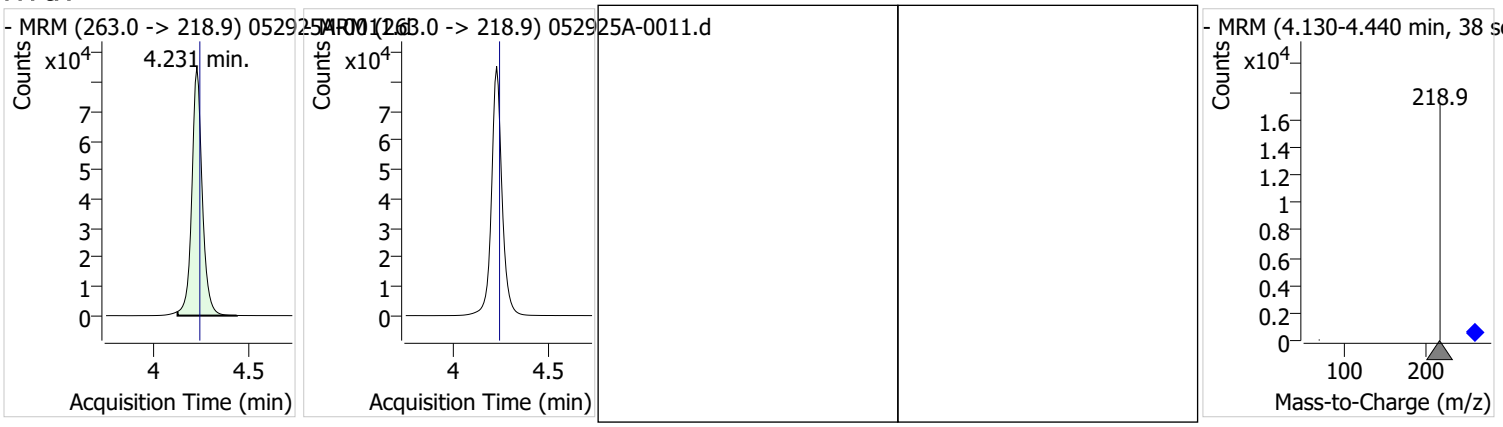
D9-NEtFOSE_ISTD



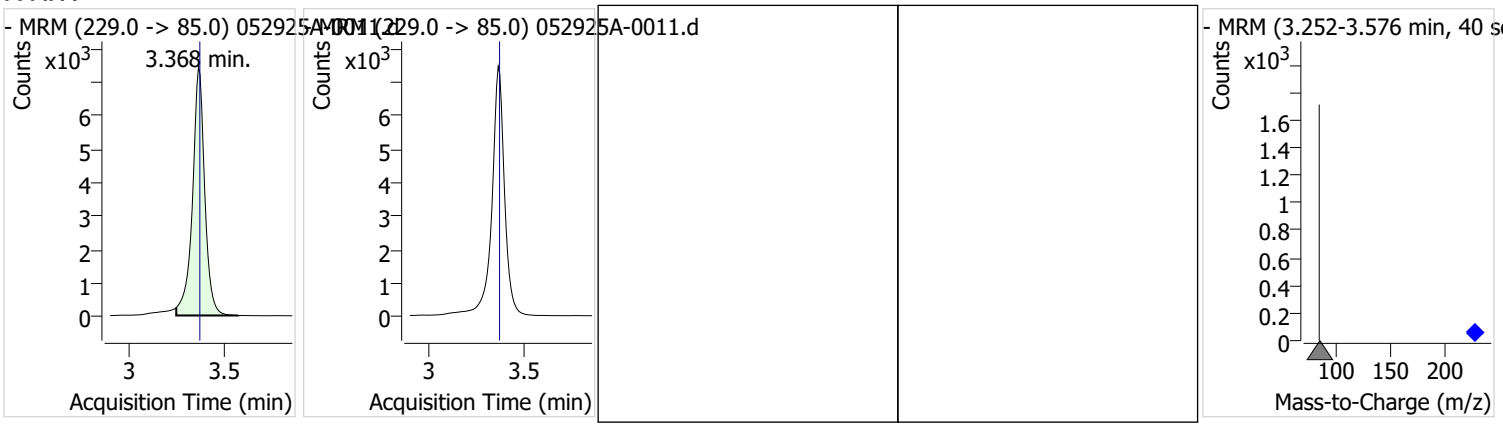
PFOS



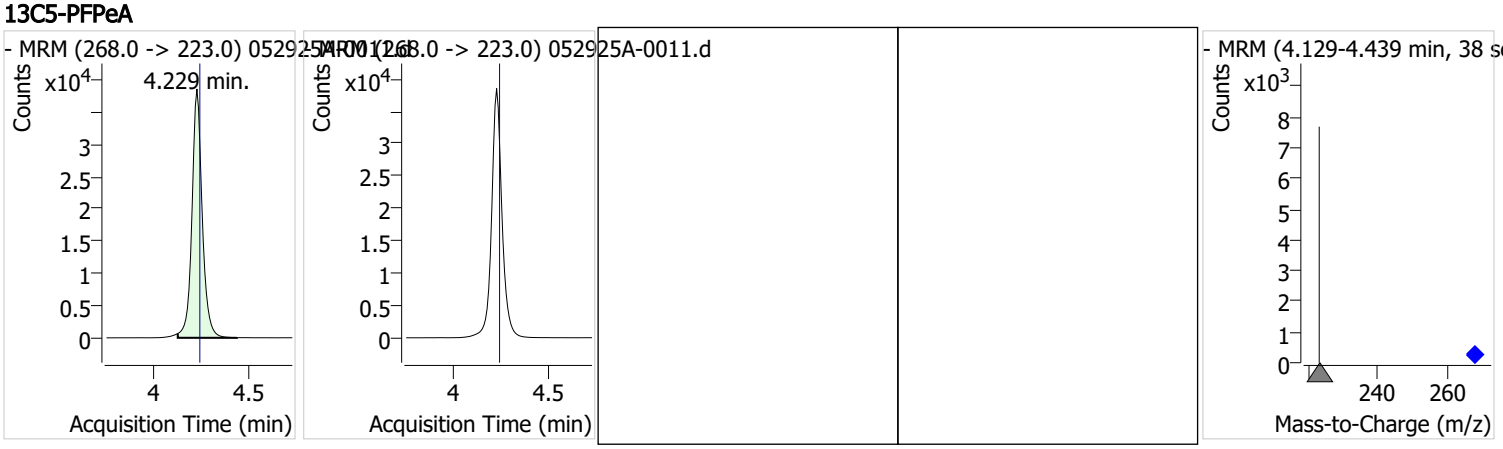
PFPeA



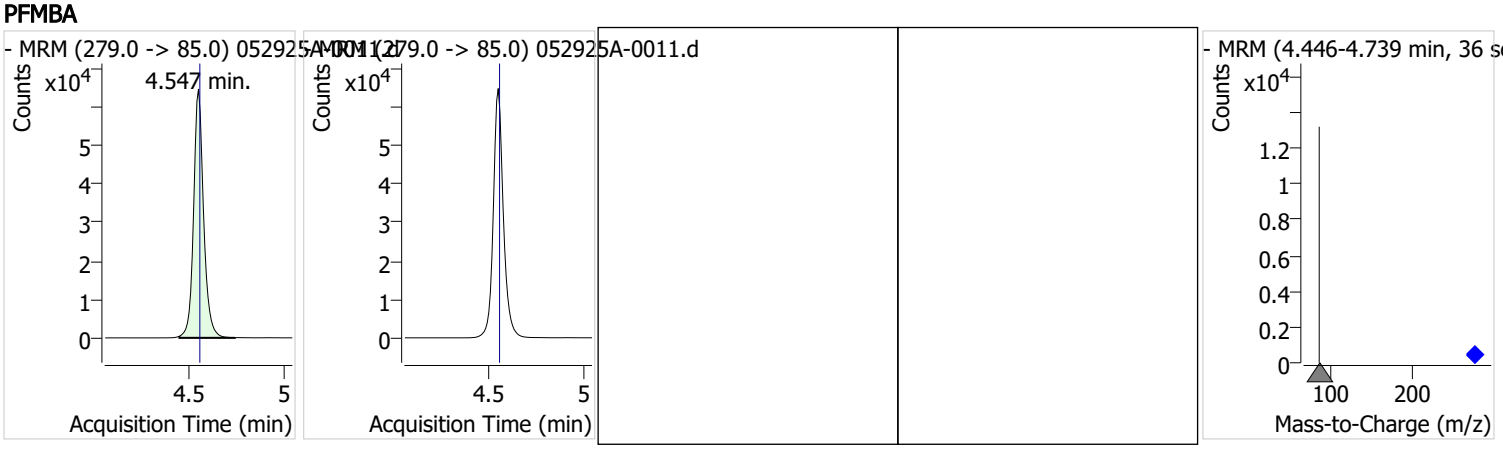
PFMPA



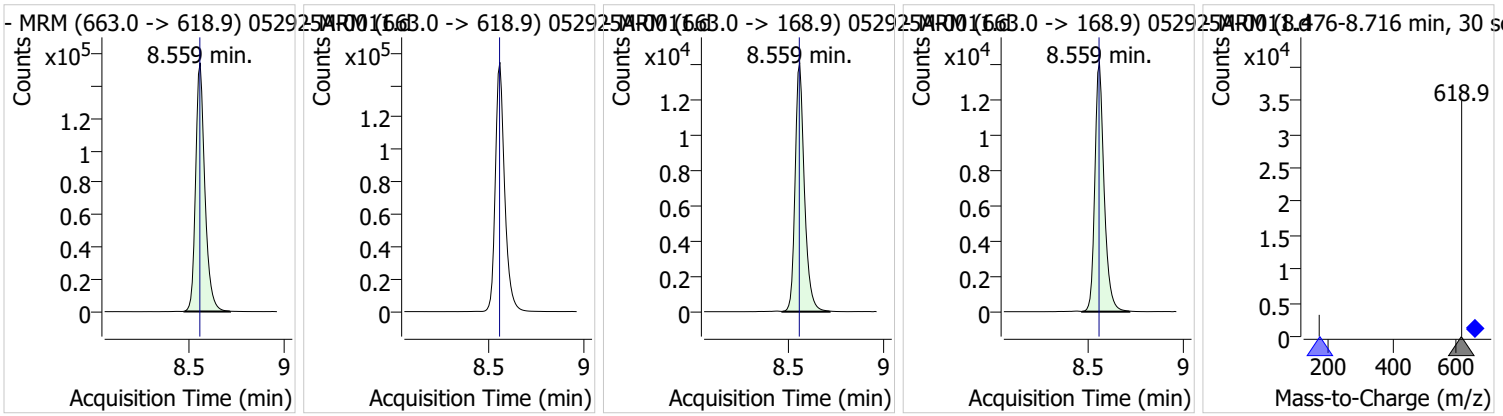
13C5-PFPeA



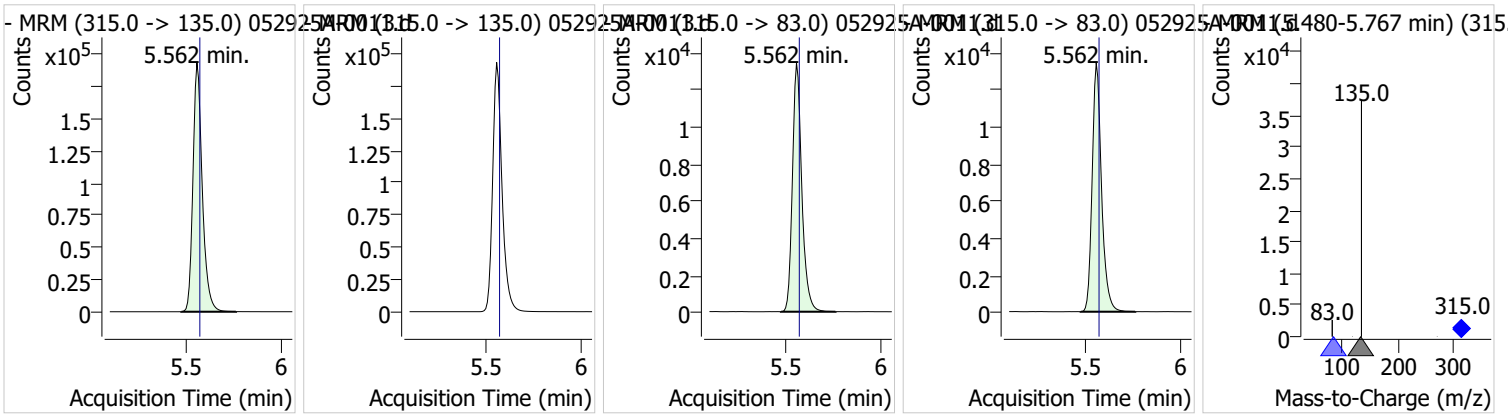
PFMBA



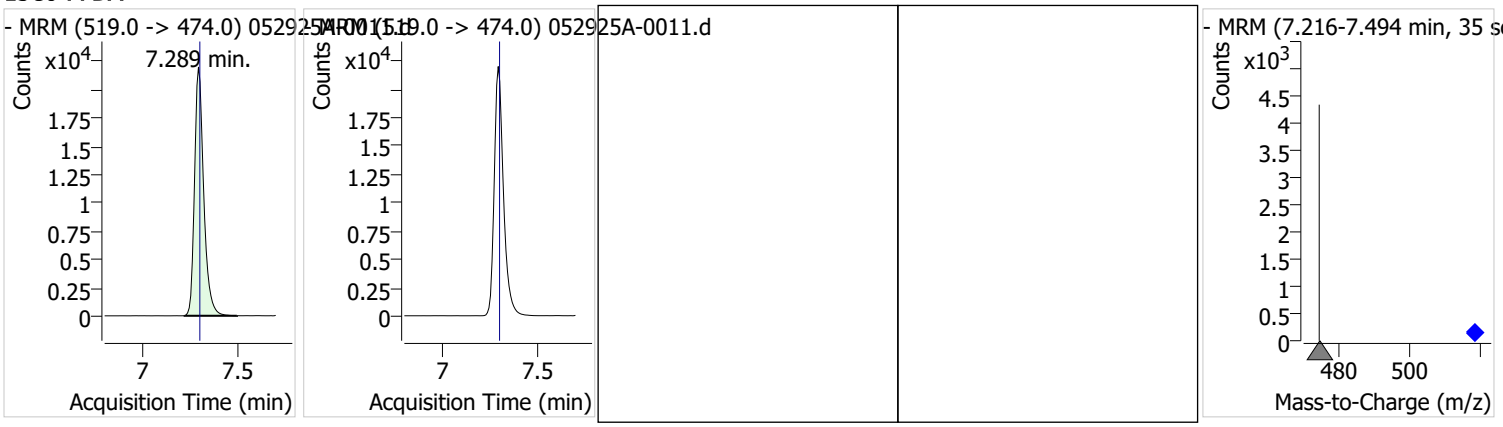
PFTrDA



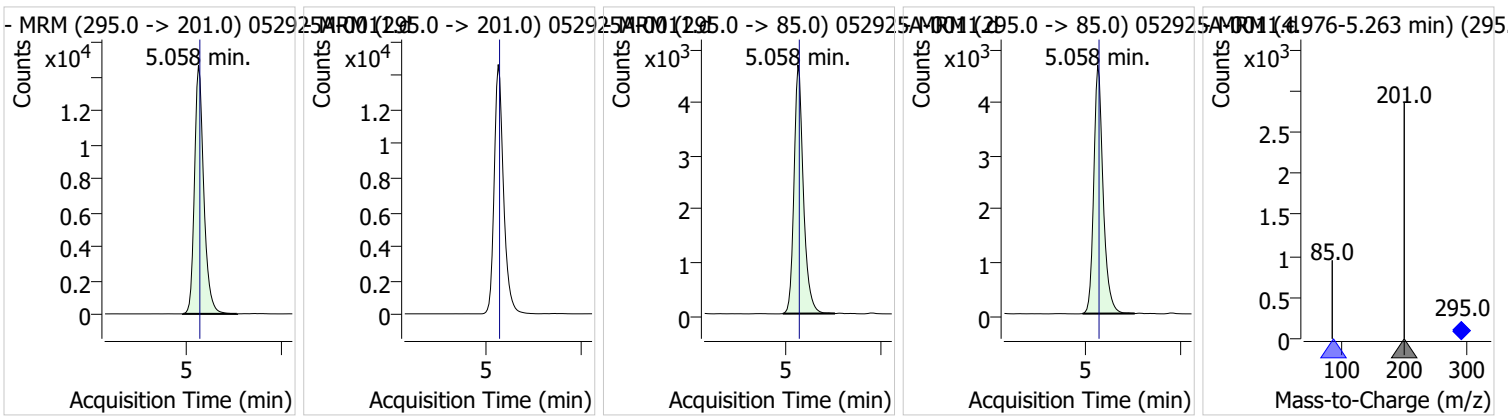
PFEESA



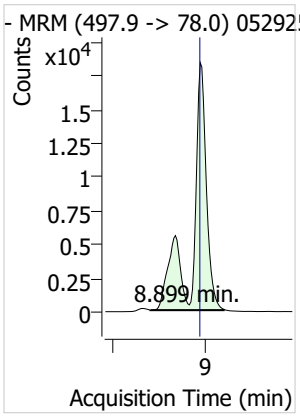
13C6-PFDA

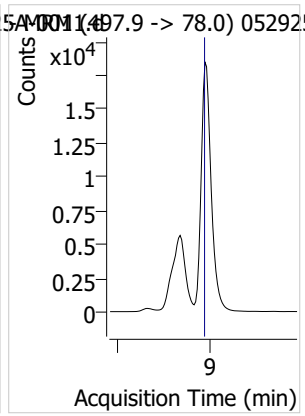


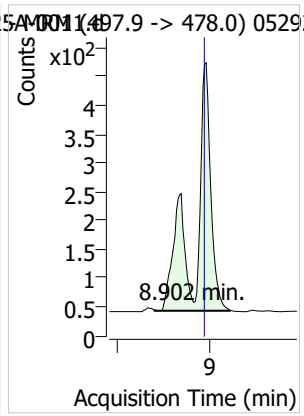
NFDHA

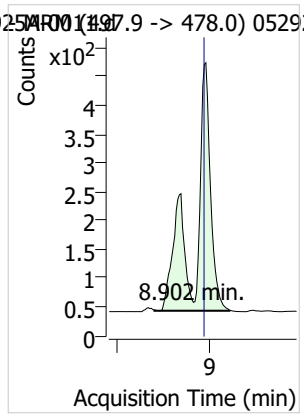


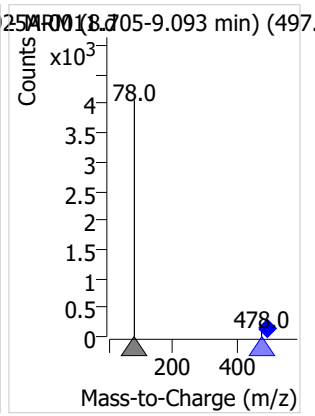
PFOSA



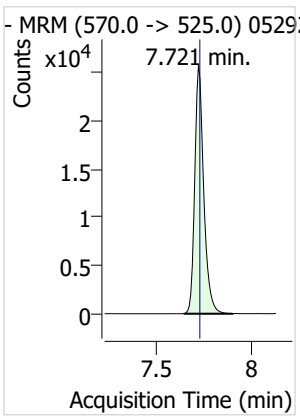


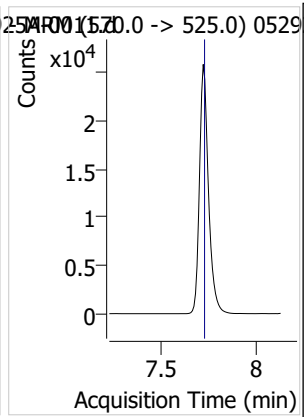


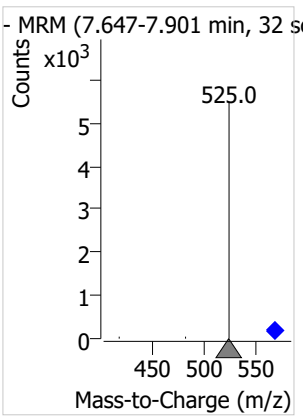




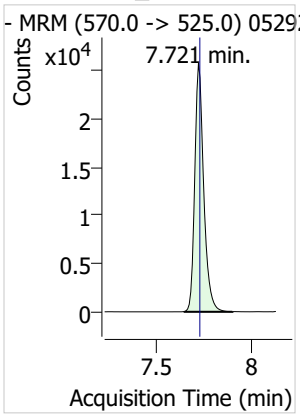
13C7-PFUnA

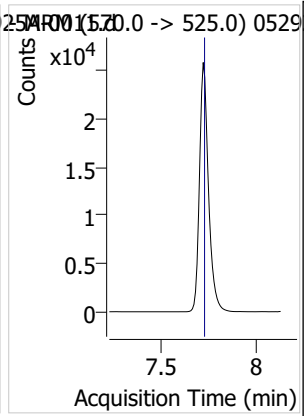


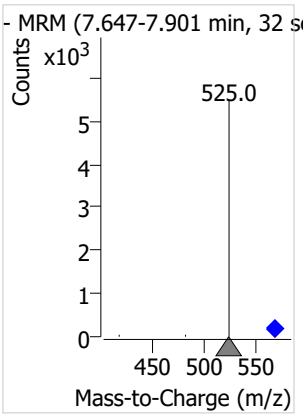




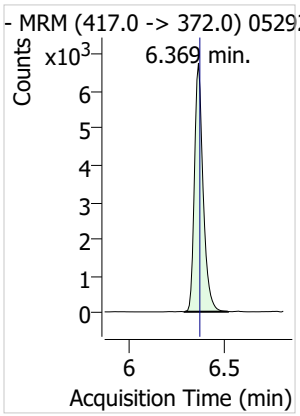
13C7-PFUnA_ISTD

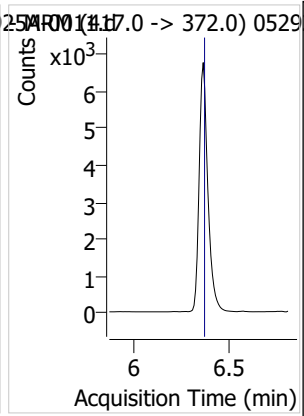


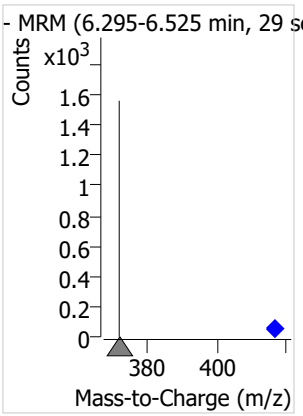




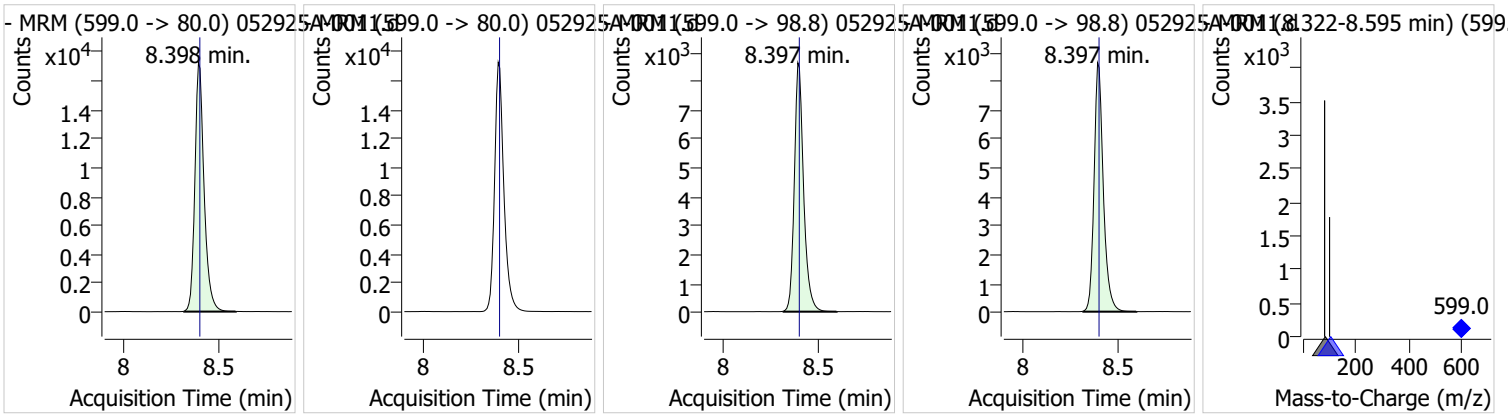
13C4-PFOA



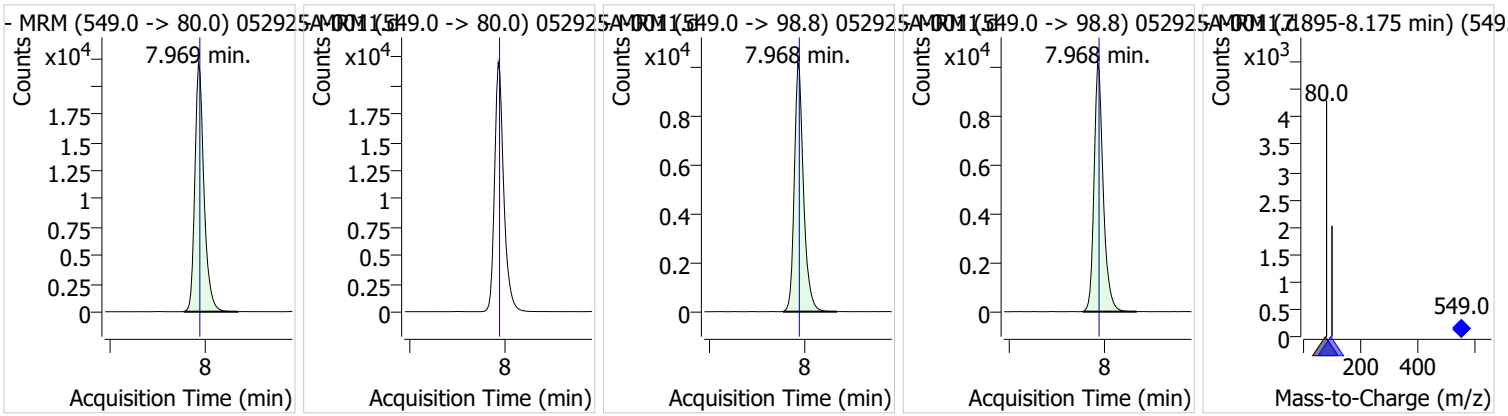




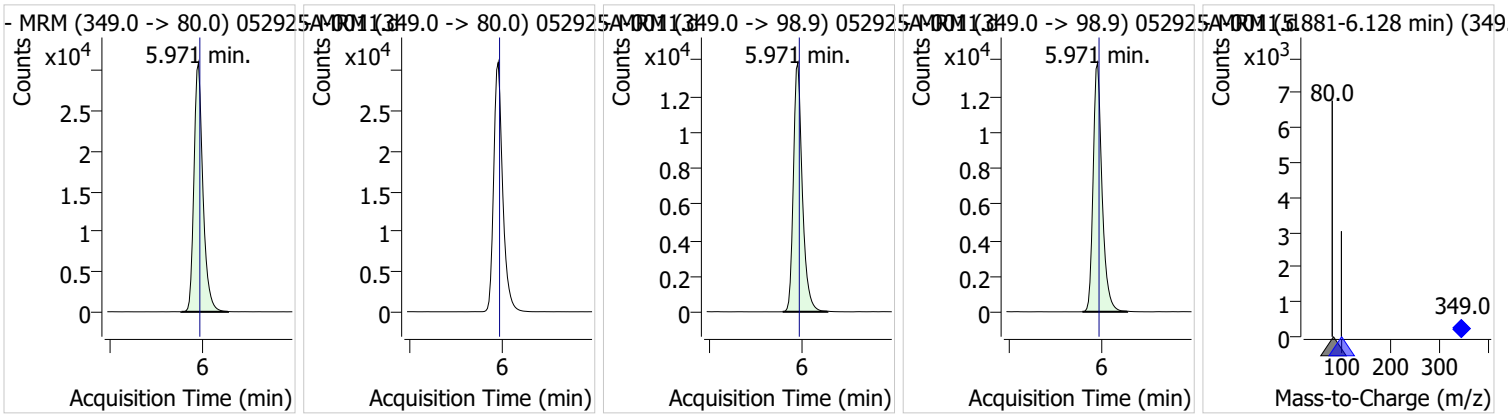
PFDS



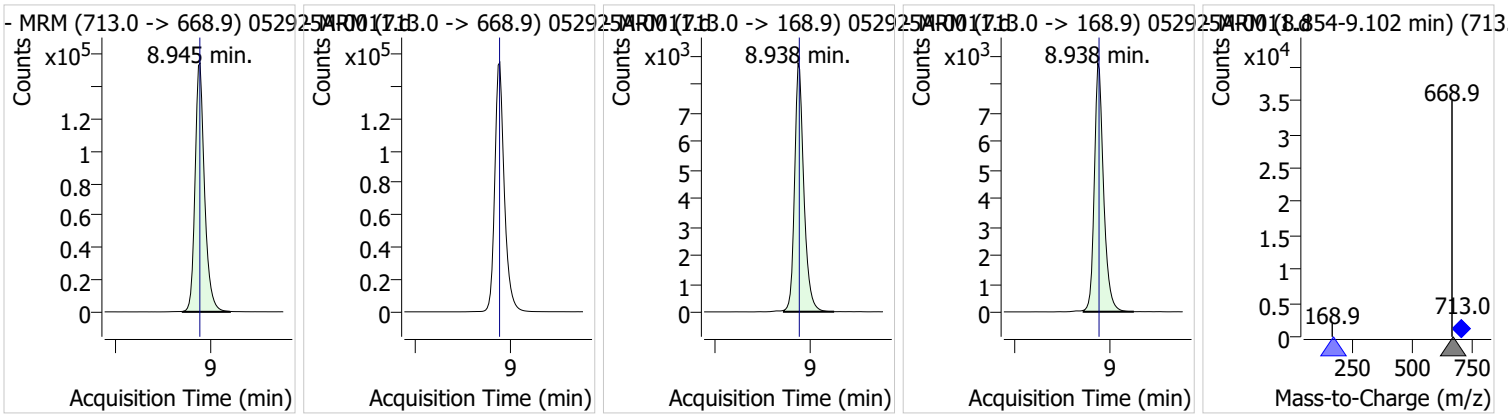
PFNS



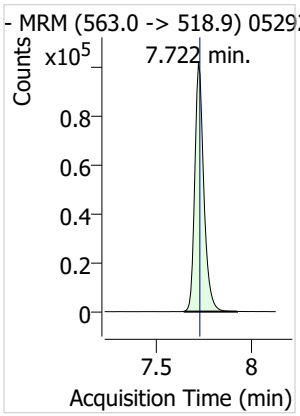
PFPeS

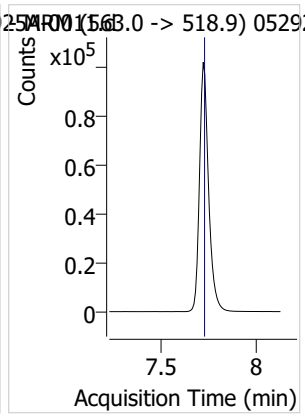


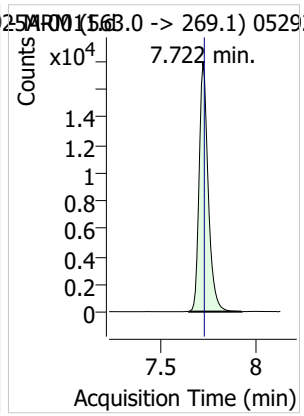
PFTeDA

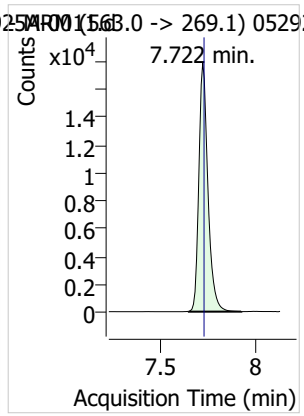


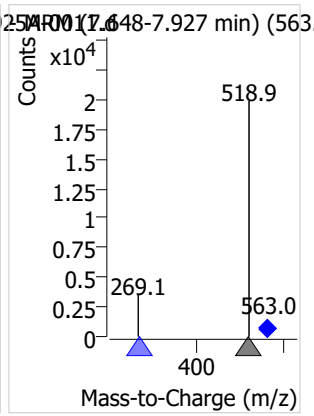
PFUnA



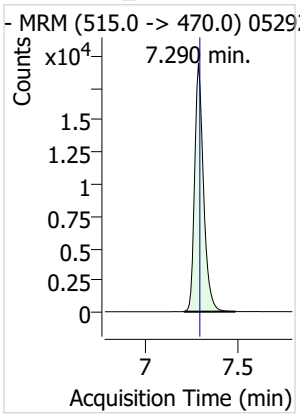


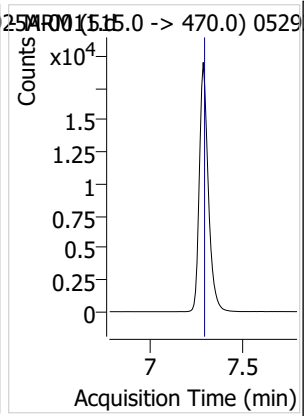


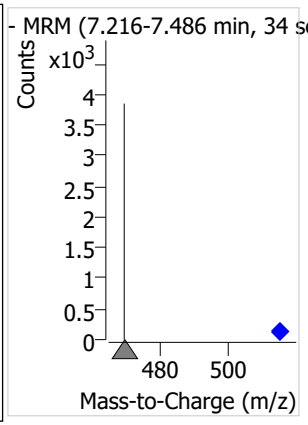




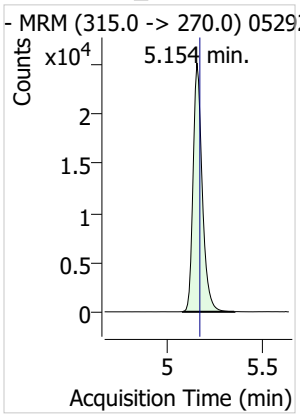
13C2-PFDA_ISTD

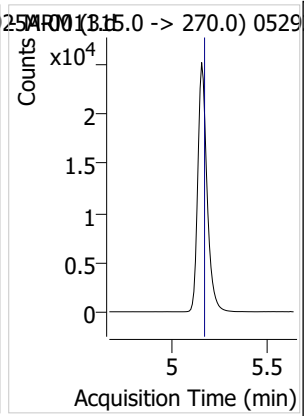


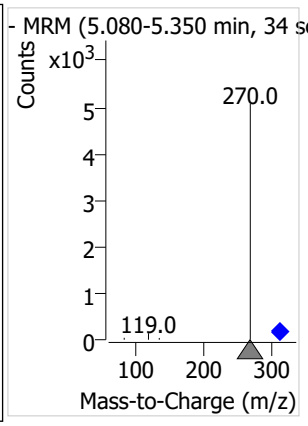




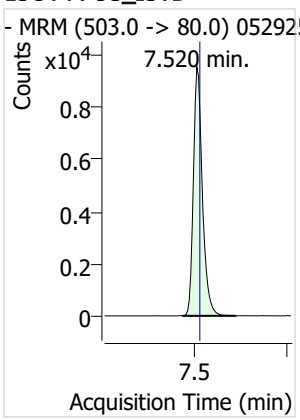
13C2-PFHxA_ISTD

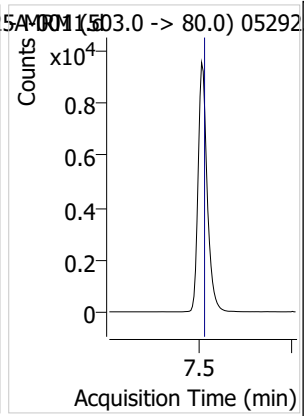


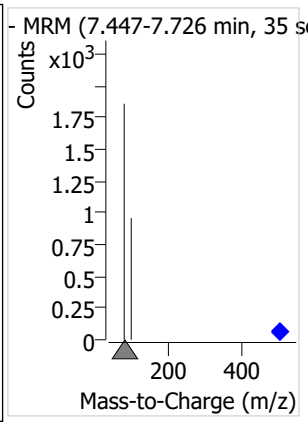




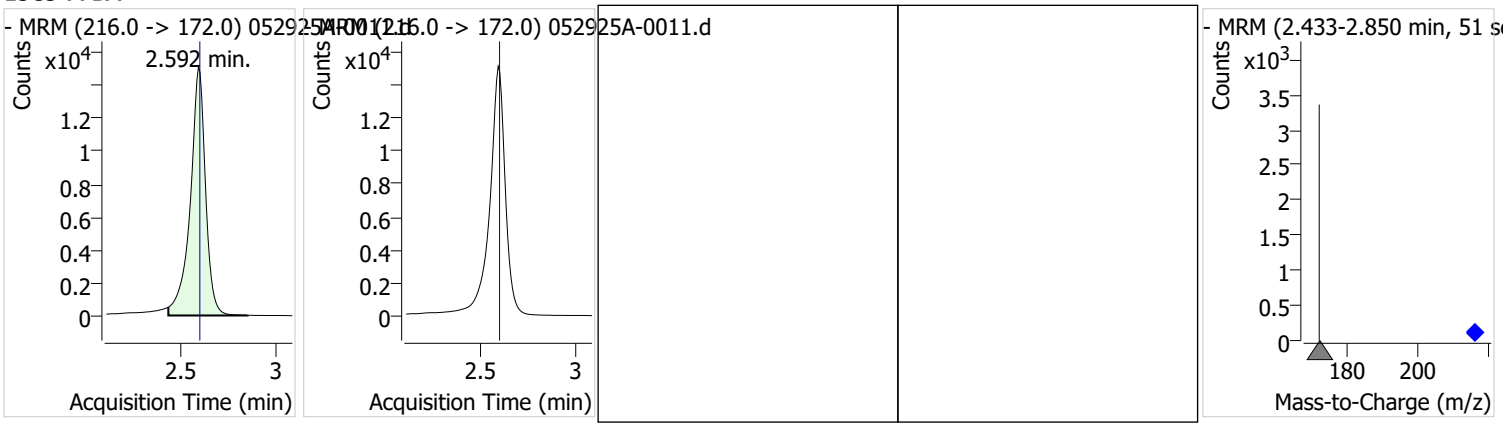
13C4-PFOS_ISTD



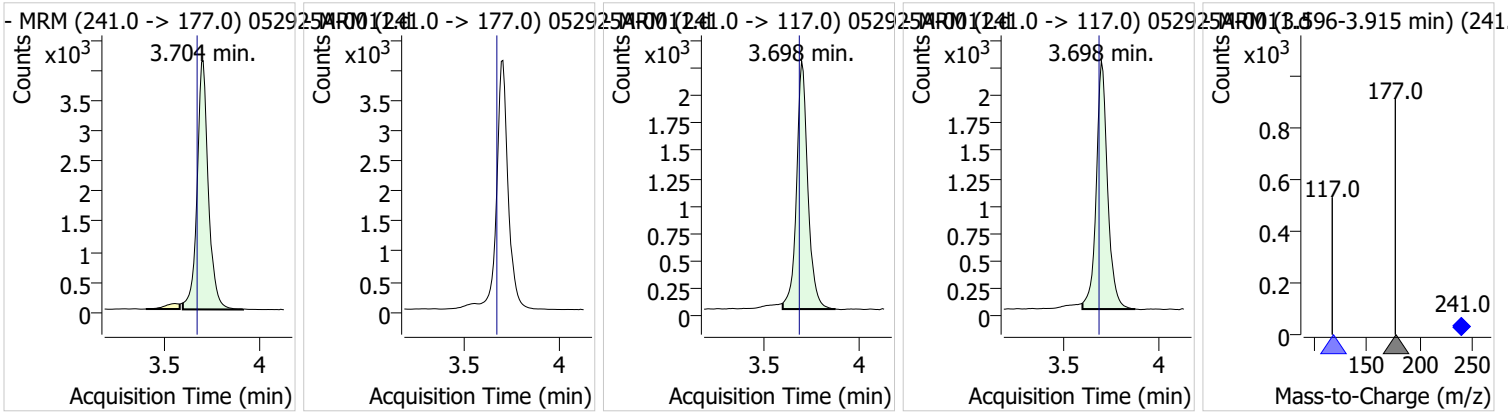




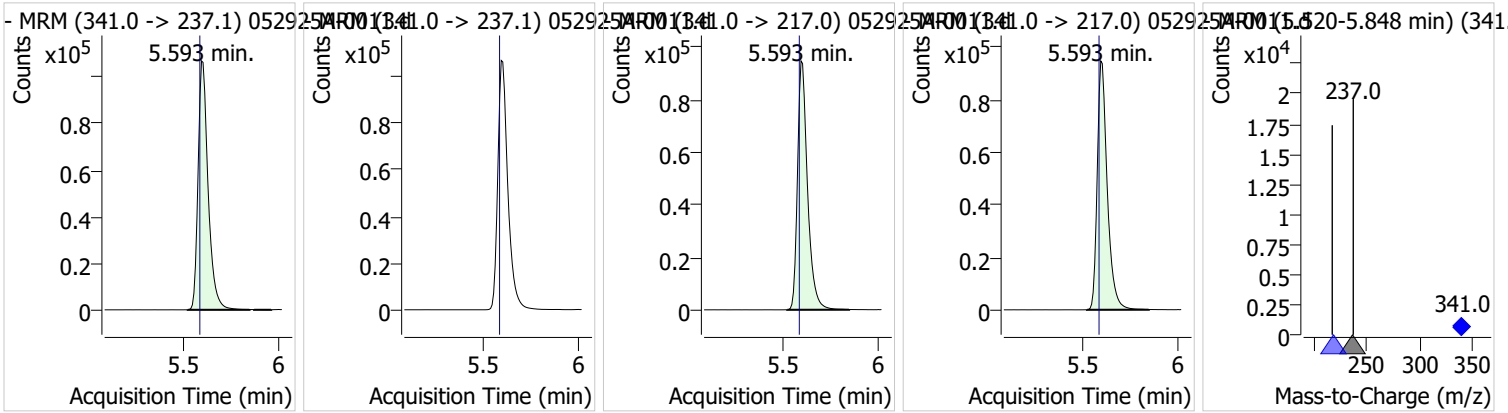
13C3-PFBA



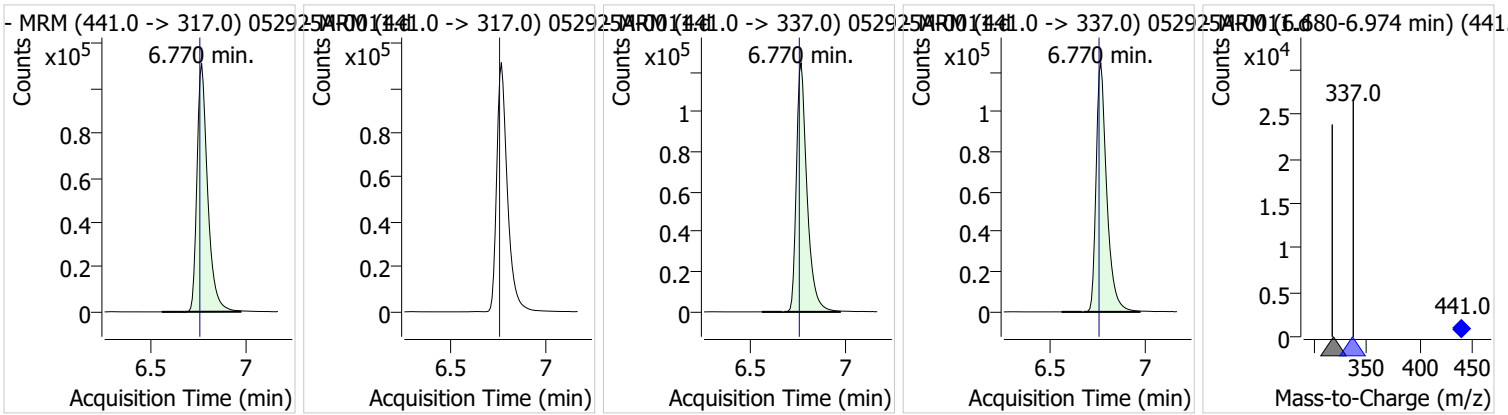
3:3FTCA



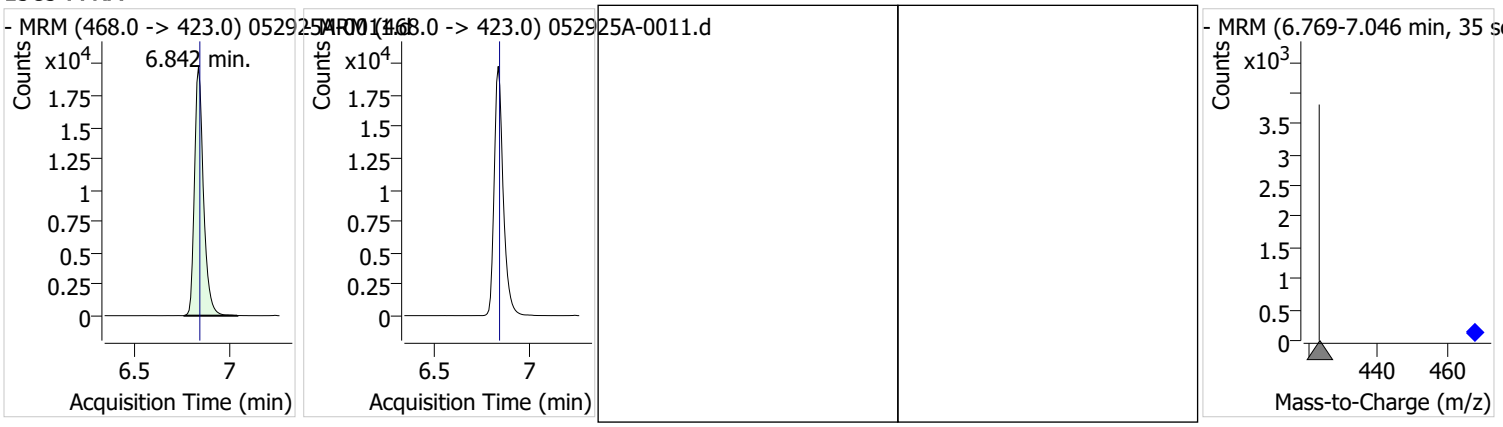
5:3FTCA



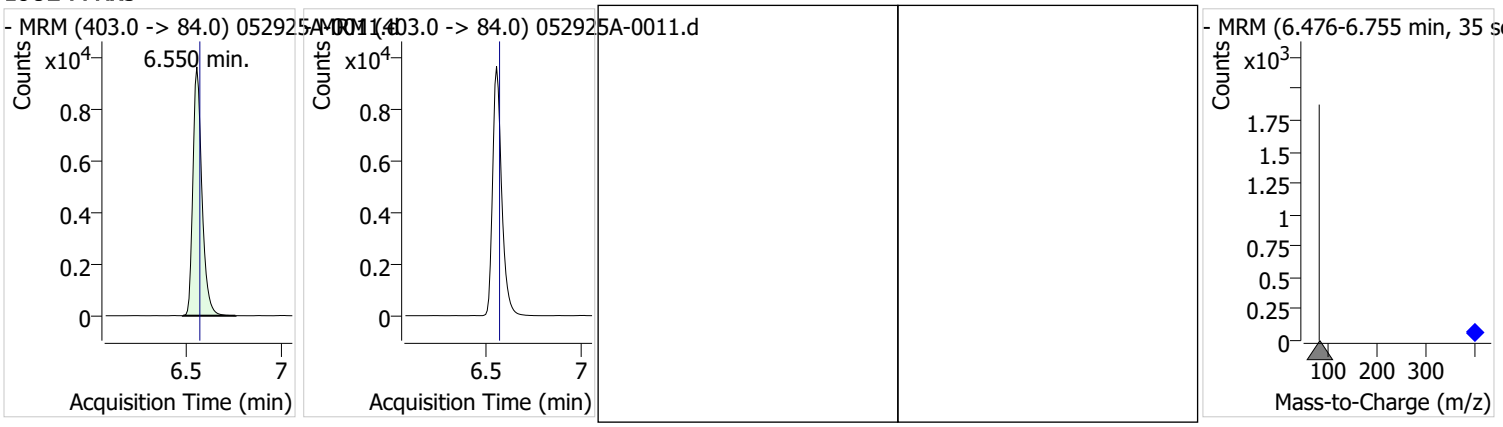
7:3FTCA



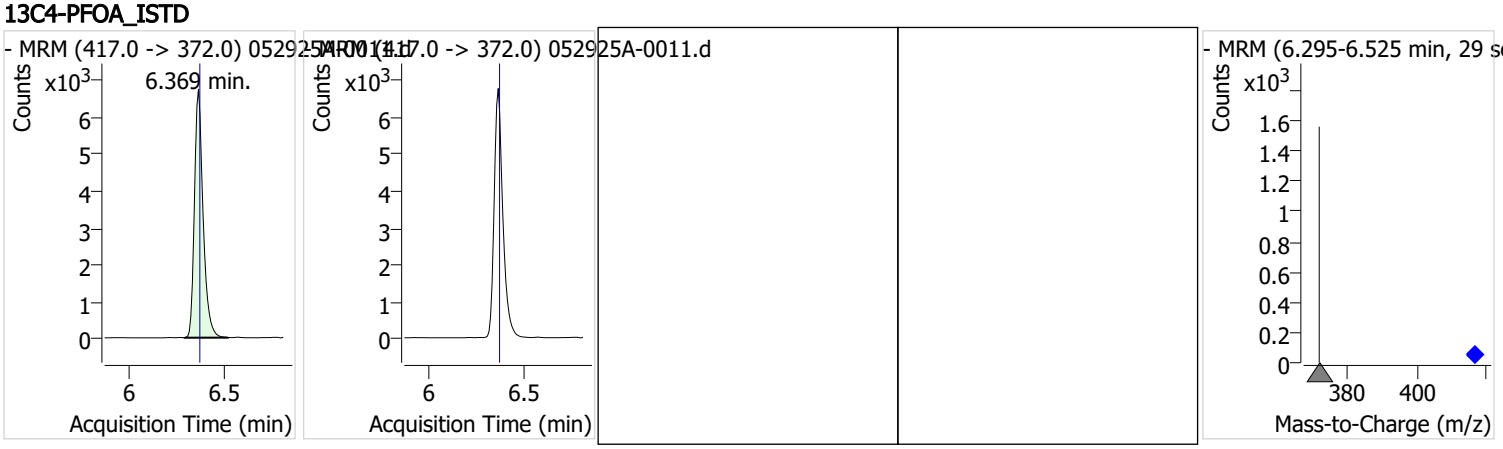
13C5-PFNA



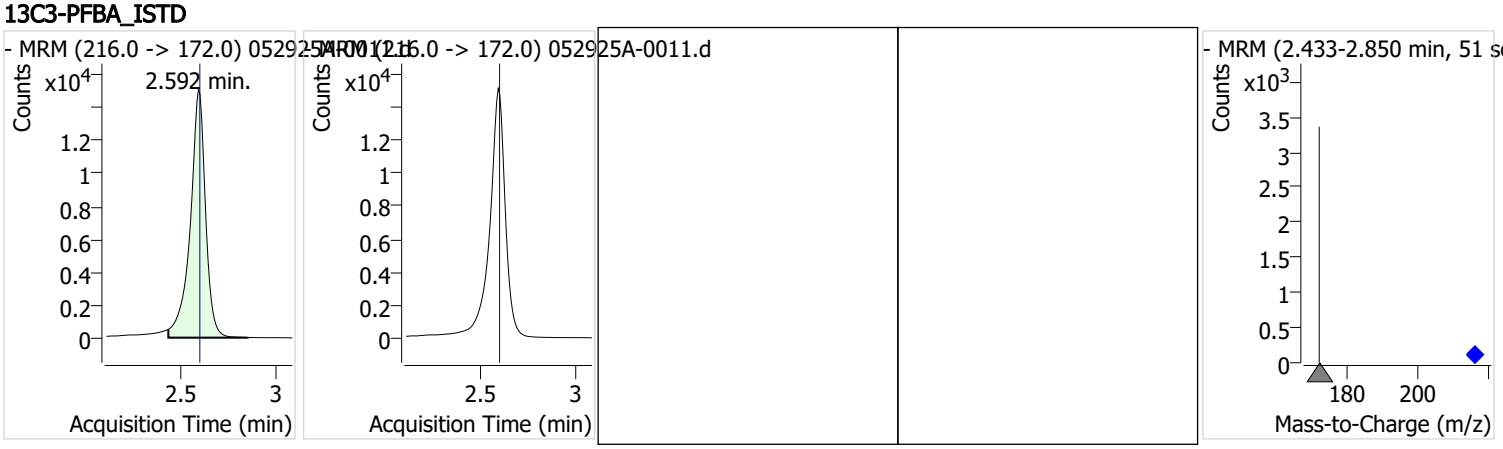
18O2-PFHxS



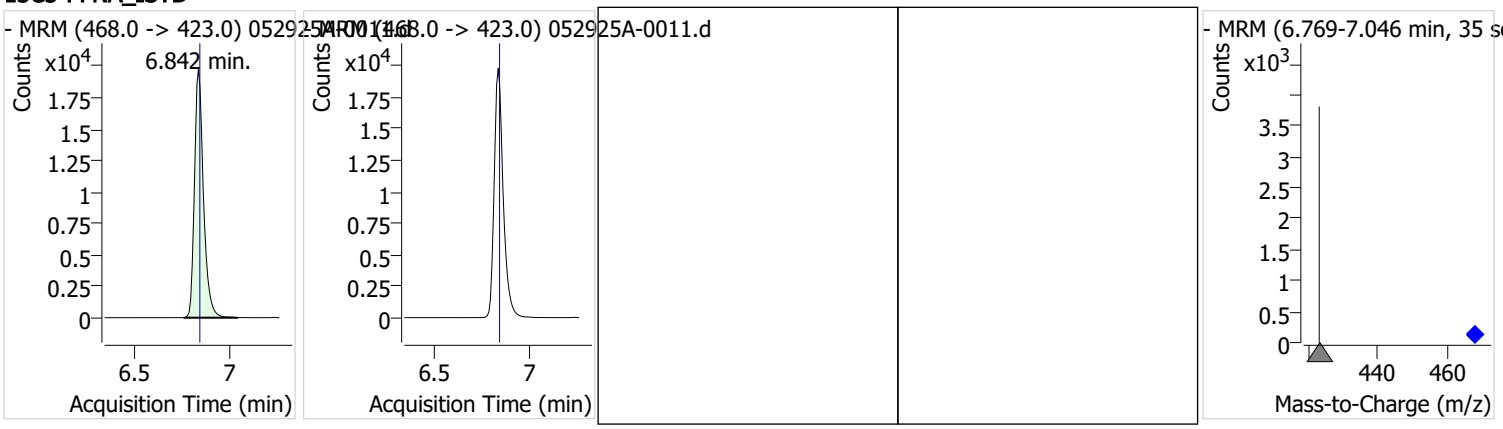
13C4-PFOA_ISTD



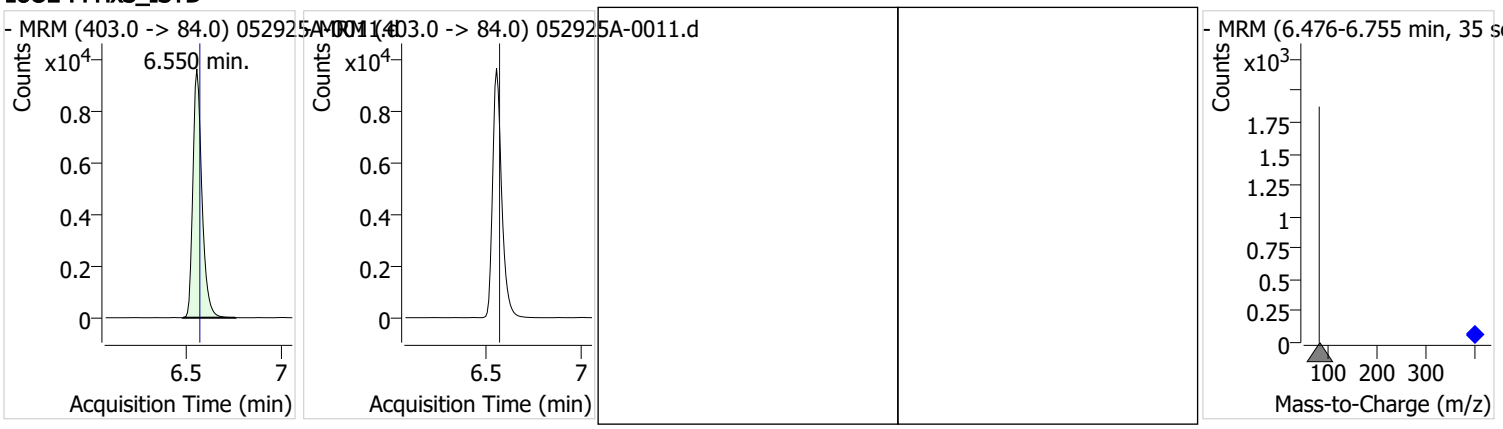
13C3-PFBA_ISTD



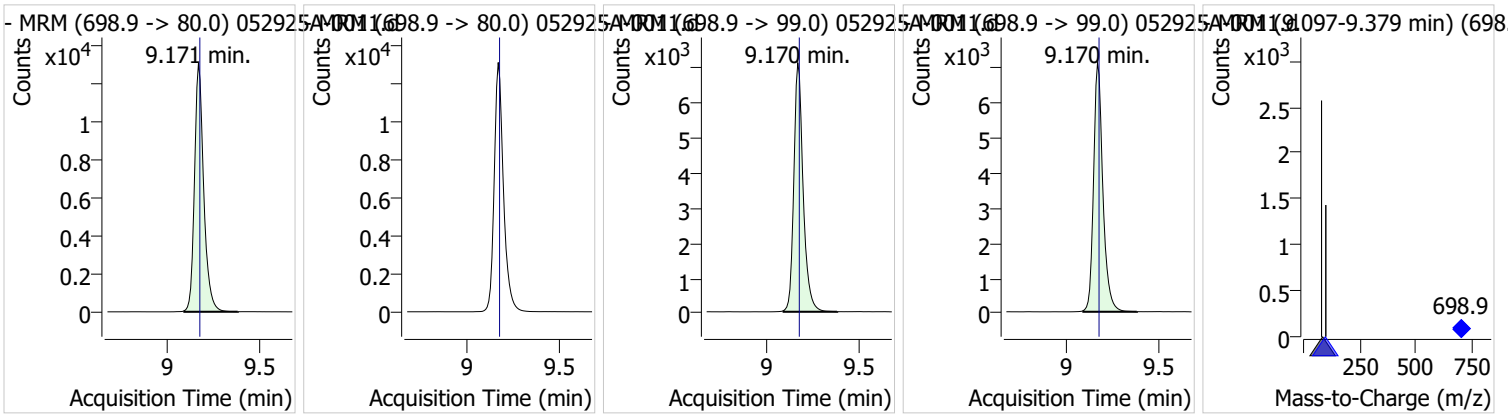
13C5-PFNA_ISTD



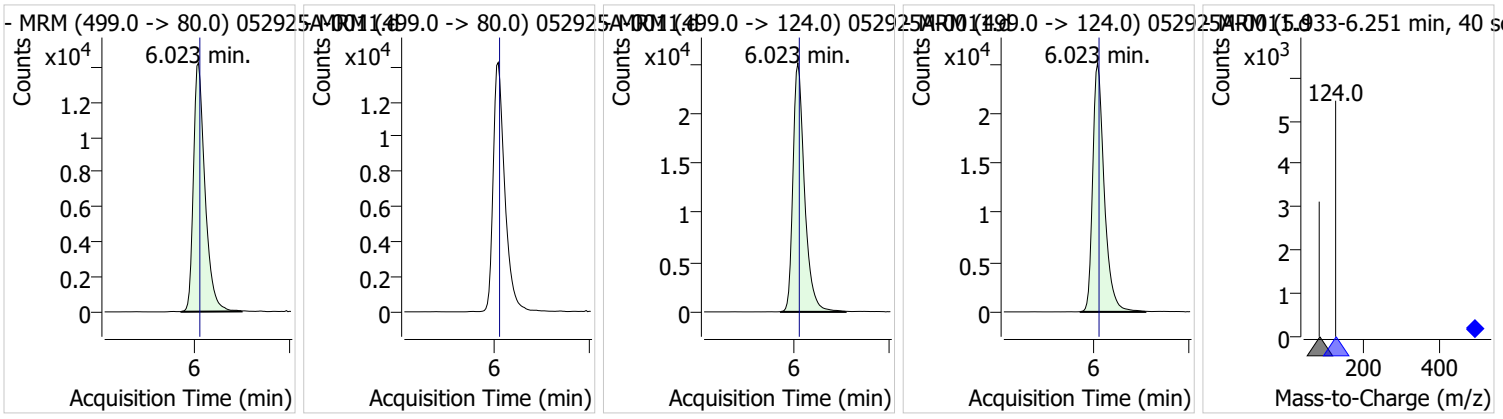
18O2-PFHxS_ISTD



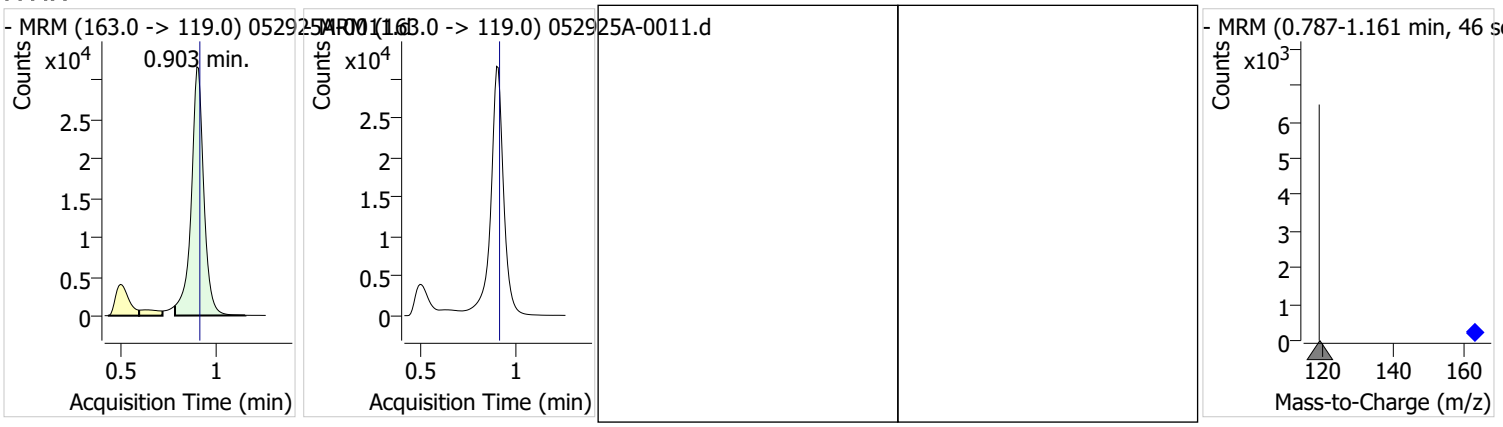
PFDoS



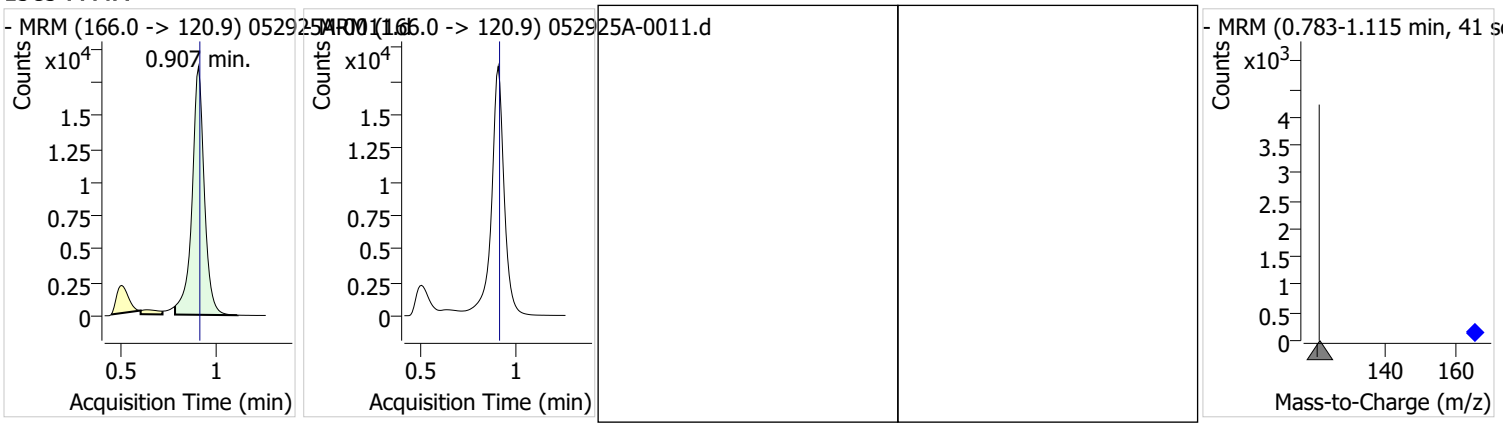
TDCA



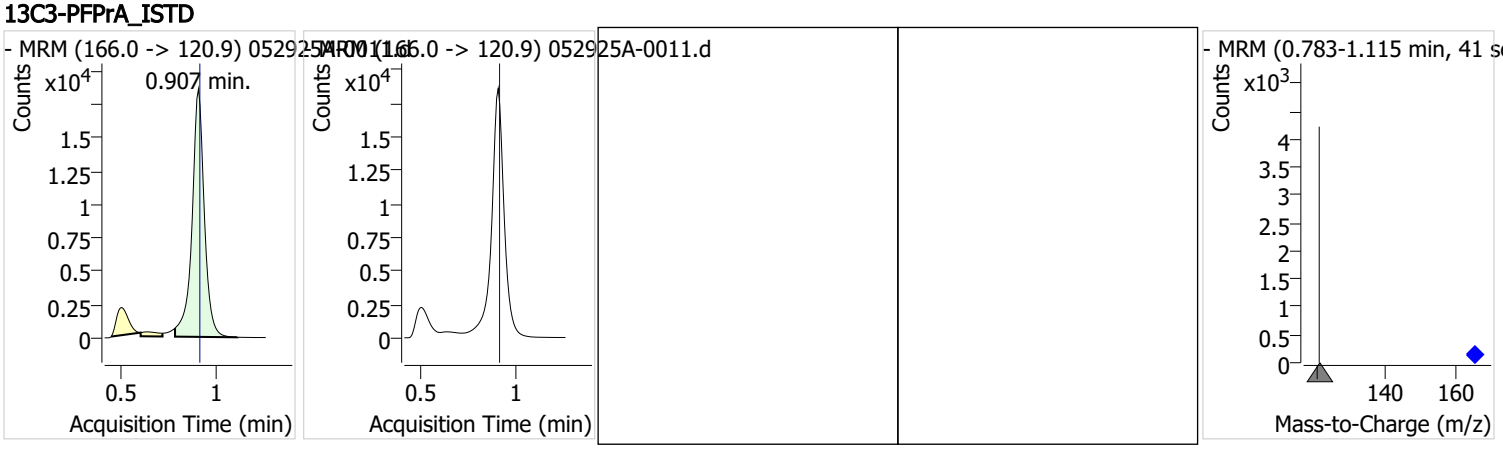
PFPrA



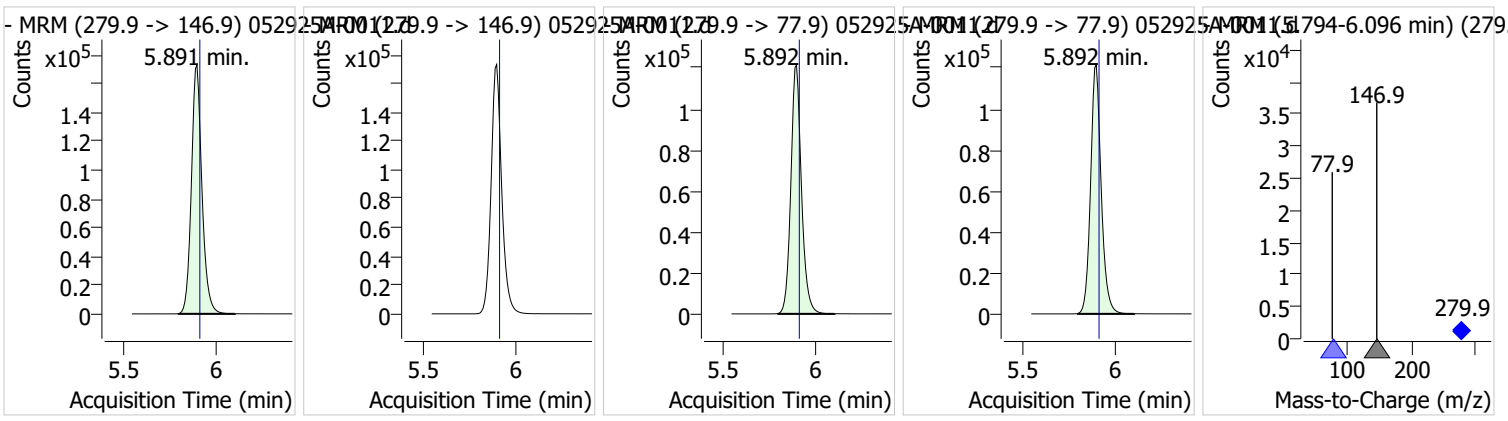
13C3-PFPrA



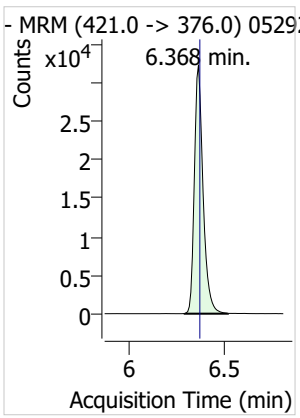
13C3-PFPrA_ISTD

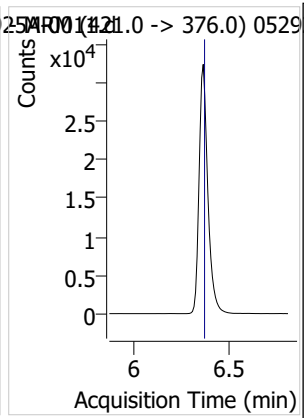


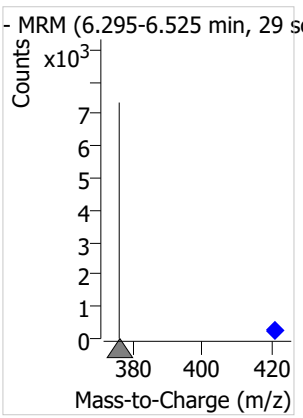
TFSI



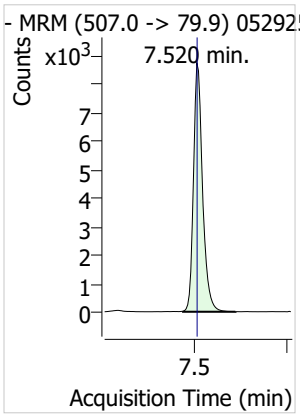
13C8-PFOA

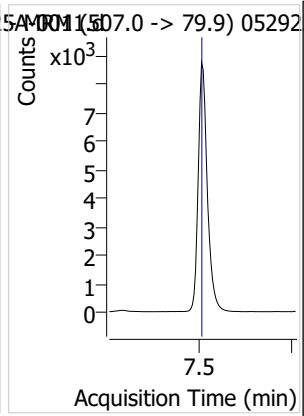


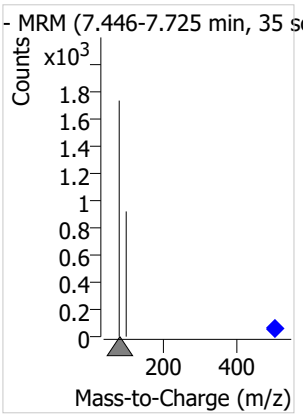




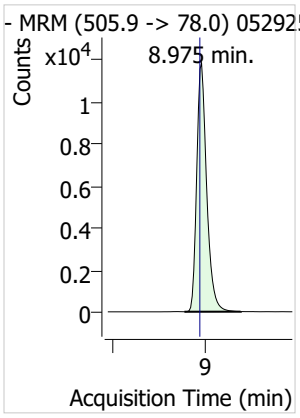
13C8-PFOS

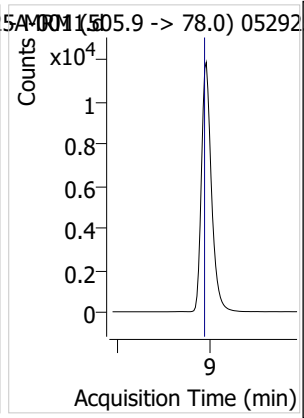


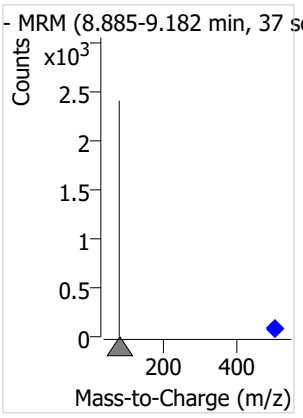




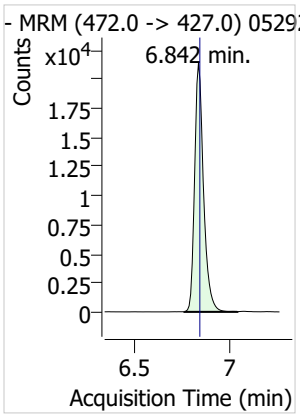
13C8-PFOSA

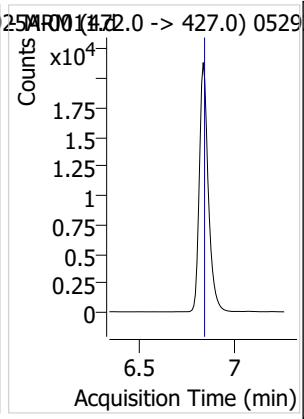


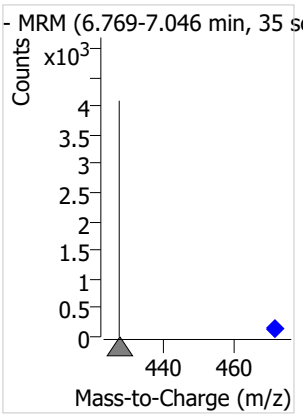




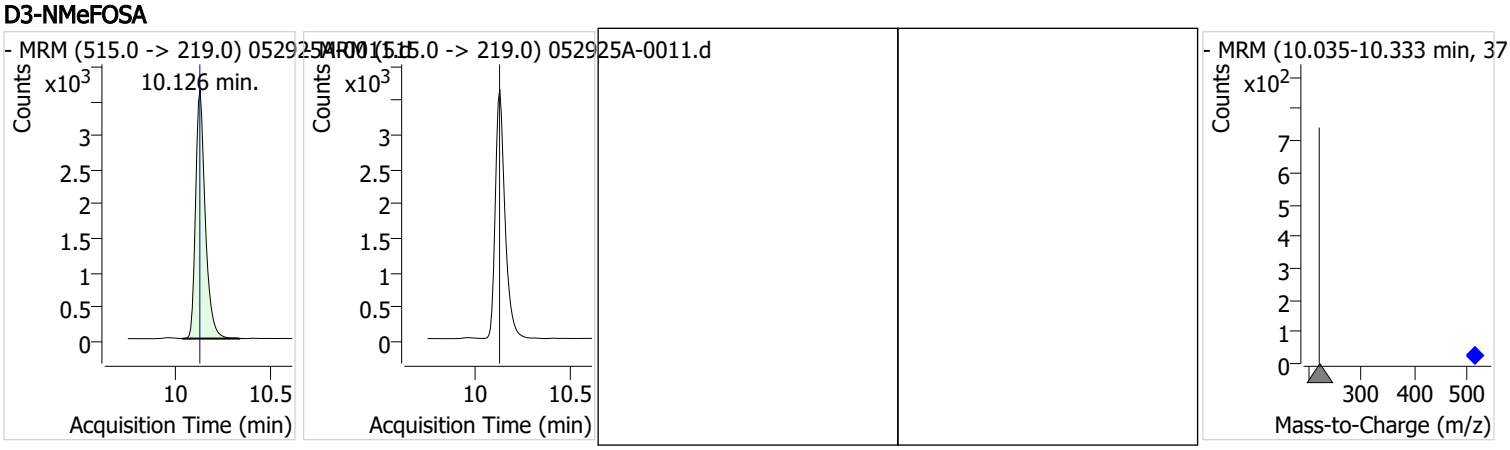
13C9-PFNA



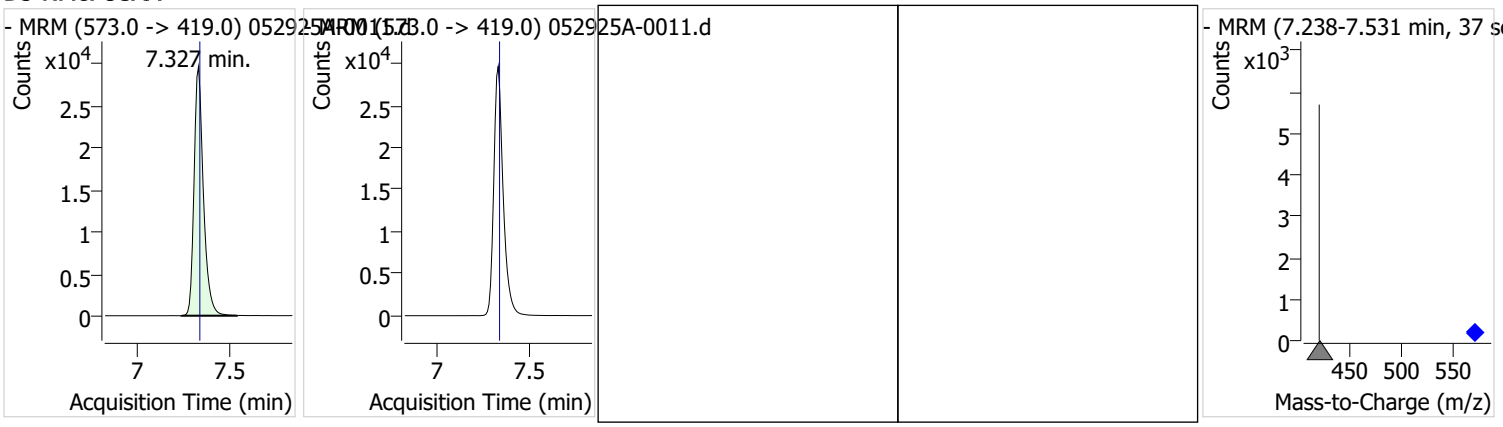




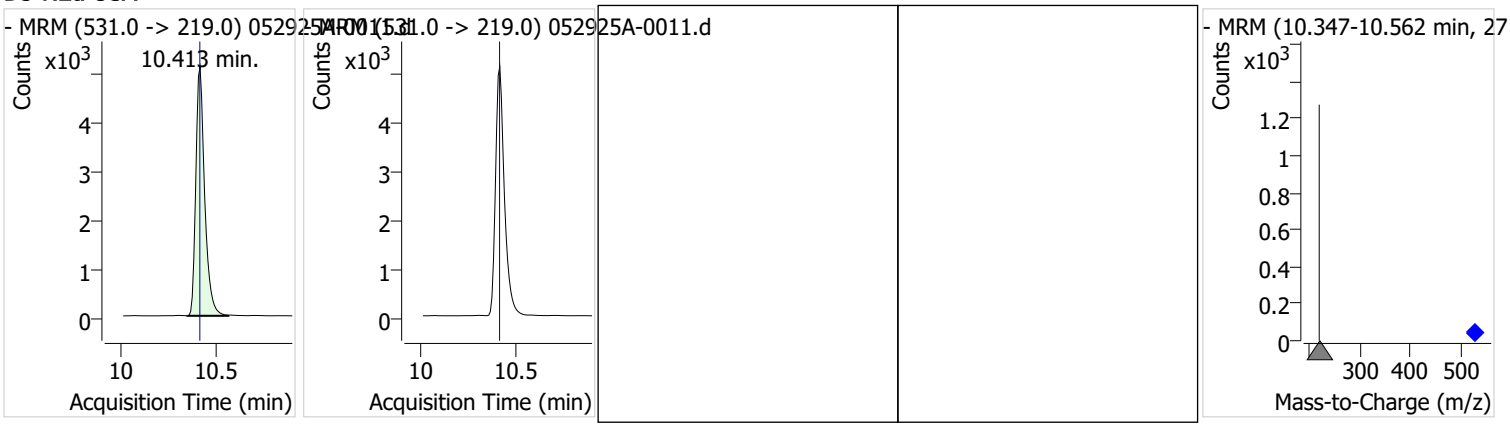
D3-NMeFOSA



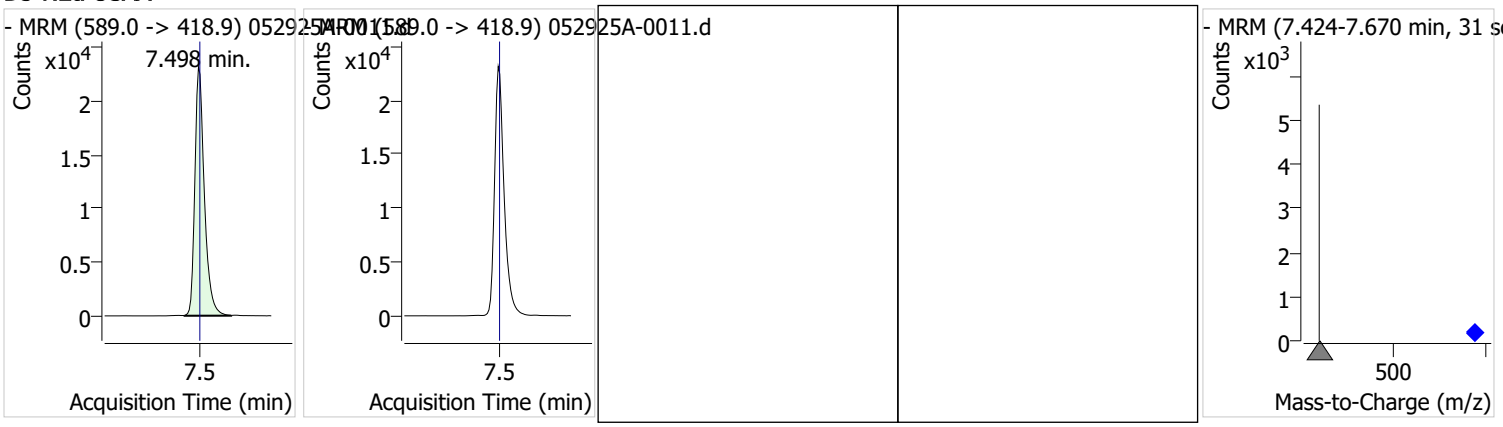
D3-NMeFOSAA



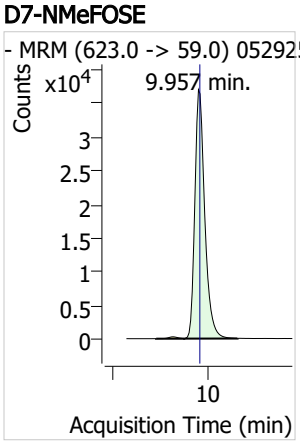
D5-NEtFOSA

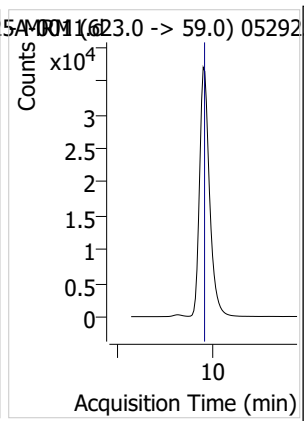


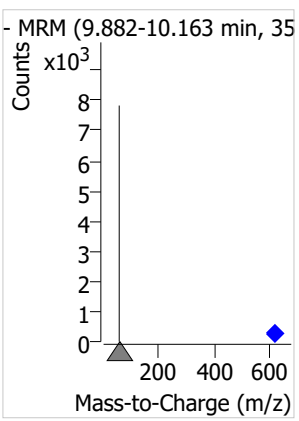
D5-NEtFOSAA



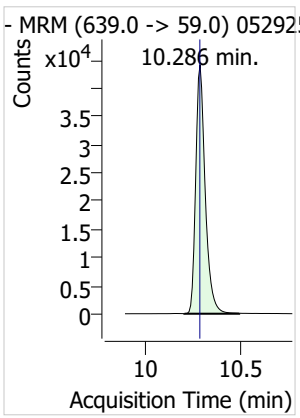
D7-NMeFOSE

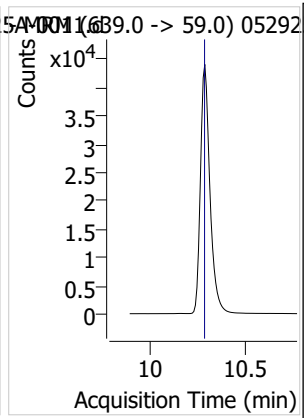


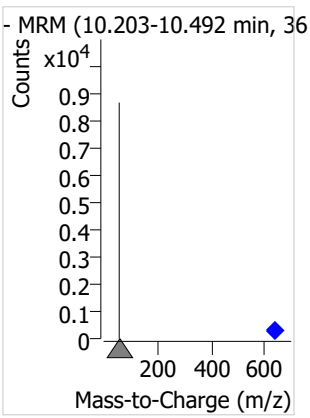




D9-NEtFOSE

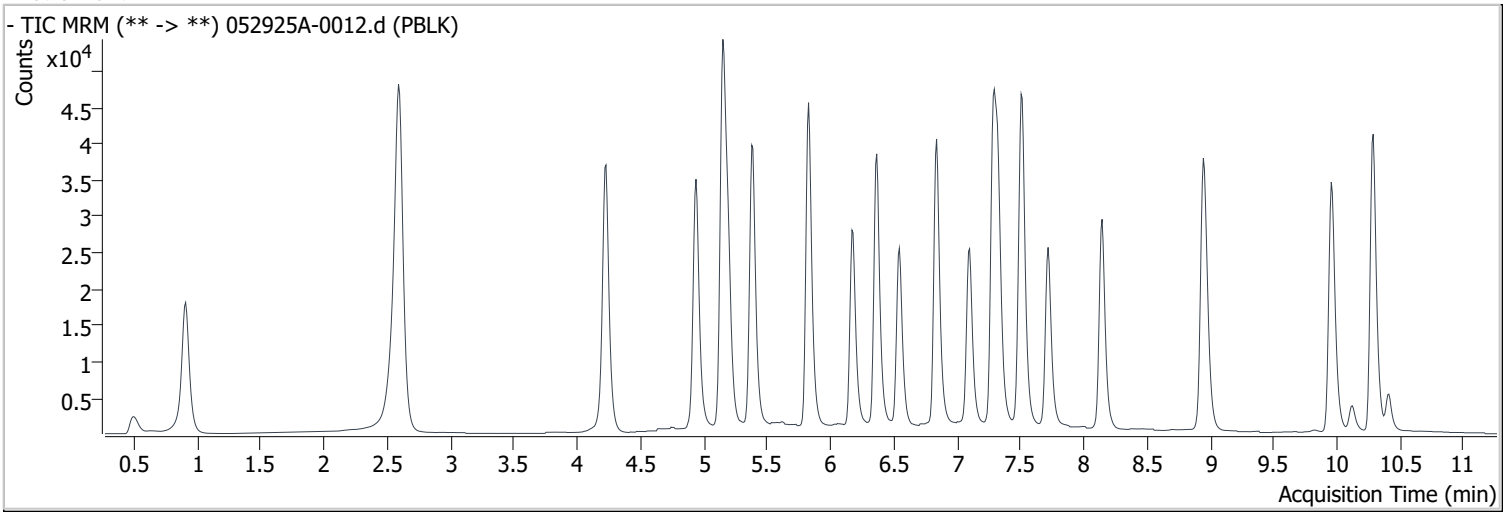






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-B 6320.batch.bin		
Analysis Time	5/30/2025 12:34 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 12:45 PM	**Data File**	052925A-0012.d
Sample Type	Blank	**Sample Name**	PBLK
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6317	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.386	86222	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.938	35652	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.172	25249	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.831	144633	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.092	25113	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.589	188434	3632.72		13C3-PFBA_ISTD	2.592	76671	10.0978	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.519	29615	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.519	29615	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.519	29615	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.938	35652	10369.02		18O2-PFHxS_ISTD	6.550	29908	6.9228	ng/ml			
13C2-6:2FTS	6.172	25249	4624.84		18O2-PFHxS_ISTD	6.550	29908	6.5071	ng/ml			
13C2-8:2FTS	7.092	25113	7353.29		18O2-PFHxS_ISTD	6.550	29908	6.4478	ng/ml			
13C2-PFDoA	8.146	97260	14138.55		13C2-PFDA_ISTD	7.290	61316	1.2696	ng/ml			
13C2-PFDA	7.290	61316	28332.52					1.2612	ng/ml			
13C2-PFHxA	5.154	77296	22755.08					2.5078	ng/ml			
13C2-PFTeDA	8.944	105608	30997.58		13C2-PFDA_ISTD	7.290	61316	1.2268	ng/ml			
13C4-PFOS	7.520	29224	2150.15					2.6511	ng/ml			
13C3-HFPODA	5.386	86222	497727.27		13C2-PFHxA_ISTD	5.154	77296	10.4402	ng/ml			
13C3-PFBS	5.196	50524	928.31		18O2-PFHxS_ISTD	6.550	29908	2.4743	ng/ml			
13C3-PFHxS	6.551	34554	186591.23		18O2-PFHxS_ISTD	6.550	29908	2.4991	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	77519	-	ng/ml			
584.0 -> 526.0				*								

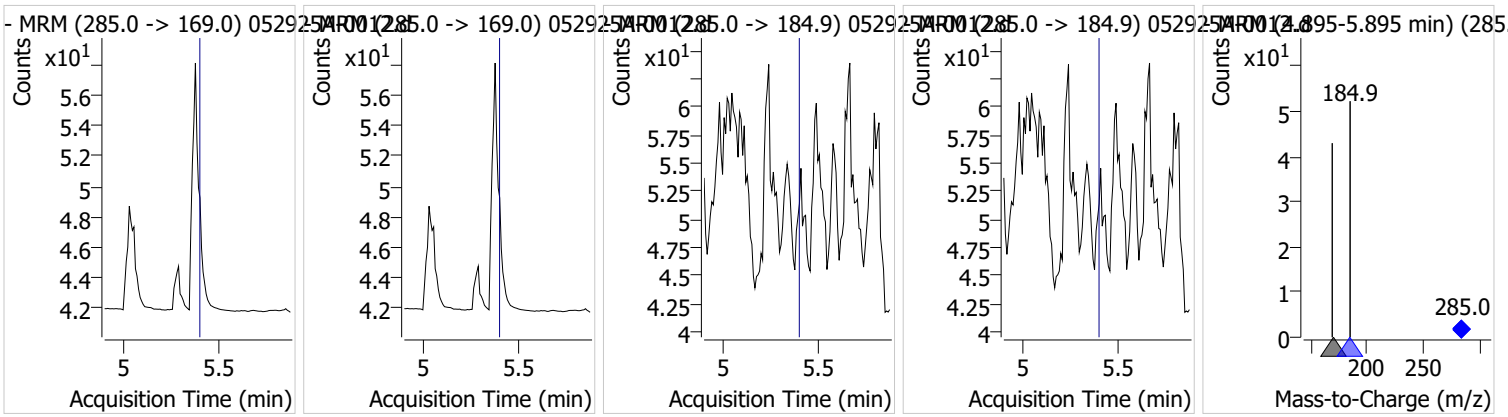
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	144633	44243.31		13C2-PFHxA_ISTD	5.154	77296	2.6349	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.319	97043	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.589	188434	-	ng/ml			
13C5-PFHxA	5.153	88448	14571.77		13C2-PFHxA_ISTD	5.154	77296	2.5776	ng/ml			
PFBS					13C3-PFBS_ISTD	5.196	50524	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.126	12051	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.289	72500	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.146	97260	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.413	15437	-	ng/ml			
526.0 -> 169.0				*								
PFHpA	6.307	0	0.00		13C4-PFHpA_ISTD	5.831	144633	-	ng/ml	✔	INT	NBH 5/30/25
362.9 -> 169.0				*								
PFHxA					13C5-PFHxA_ISTD	5.153	88448	-	ng/ml			
313.0 -> 118.9				*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	124318	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.551	34554	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	66749	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE	10.249	338	133.89		D9-NEtFOSE_ISTD	10.286	143240	0.0435	ng/ml			
PFOA	6.300	1078	19.29		13C8-PFOA_ISTD	6.368	99629	0.0229	ng/ml			
413.0 -> 169.0	6.361	100	22.33	*9.3								
PFOS	7.399	343	69.96		13C8-PFOS_ISTD	7.519	29615	0.0196	ng/ml			
499.0 -> 99.0	7.402	194	37.09	56.6								
PFPeA					13C5-PFPeA_ISTD	4.229	140390	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.589	188434	-	ng/ml			
13C5-PFPeA	4.229	140390	11853.42		13C2-PFHxA_ISTD	5.154	77296	5.1284	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.229	140390	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.146	97260	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.153	88448	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	72500	16043.20		13C2-PFDA_ISTD	7.290	61316	1.2557	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.153	88448	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	41564	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	81615	24478.49		13C2-PFDA_ISTD	7.290	61316	1.2657	ng/ml			
13C4-PFOA	6.369	20483	2111.42					2.4772	ng/ml			
PFDS					13C8-PFOS_ISTD	7.519	29615	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.519	29615	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.551	34554	-	ng/ml			
349.0 -> 98.9				*								

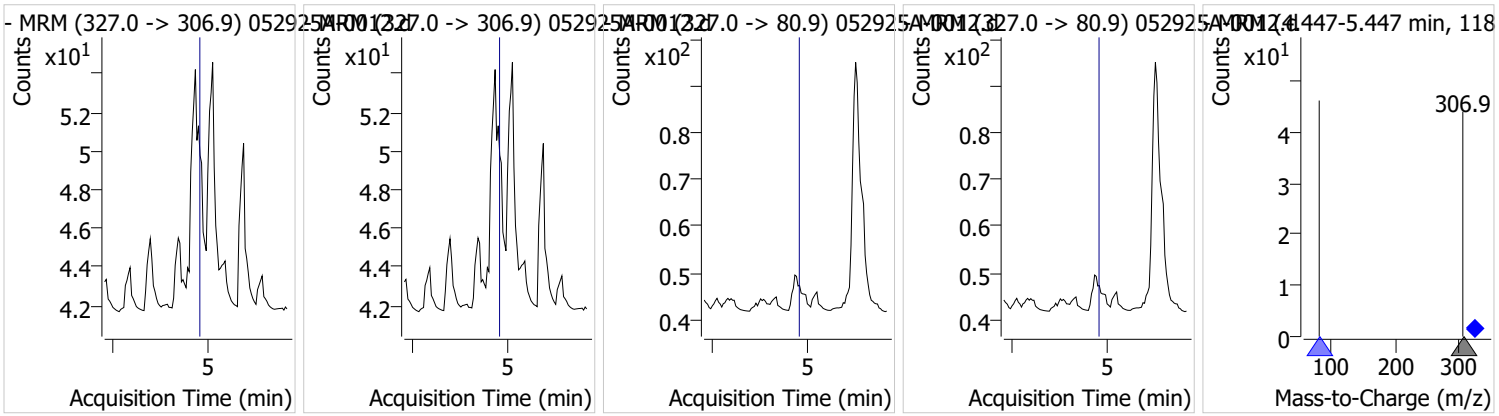
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA	8.945	0	0.00		13C2-PFTeDA_ISTD	8.944	105608	-	ng/ml	✔	INT	NBH 5/30/25
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	81615	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.592	76671	1555.37					5.0487	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.229	140390	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.153	88448	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	66749	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	61276	18684.16					1.2957	ng/ml			
18O2-PFHxS	6.550	29908	256380.94					2.6329	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.519	29615	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.519	29615	-	ng/ml			
499.0 -> 124.0				*								
PFPrA					13C3-PFPrA_ISTD	0.907	82586	-	ng/ml			
13C3-PFPrA	0.907	82586	173683.52		13C3-PFBA_ISTD	2.592	76671	9.9570	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.386	86222	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	99629	30700.64		13C4-PFOA_ISTD	6.369	20483	2.5962	ng/ml			
13C8-PFOS	7.519	29615	56225.29		13C4-PFOS_ISTD	7.520	29224	2.5912	ng/ml			
13C8-PFOSA	8.975	41564	11600.55		13C4-PFOS_ISTD	7.520	29224	2.5291	ng/ml			
13C9-PFNA	6.842	66749	6315.43		13C5-PFNA_ISTD	6.842	61276	1.2329	ng/ml			
D3-NMeFOSA	10.126	12051	777.50		13C4-PFOS_ISTD	7.520	29224	2.3016	ng/ml			
D3-NMeFOSAA	7.319	97043	27494.57		13C4-PFOS_ISTD	7.520	29224	5.3389	ng/ml			
D5-NEtFOSA	10.413	15437	4725.26		13C4-PFOS_ISTD	7.520	29224	2.4526	ng/ml			
D5-NEtFOSAA	7.498	77519	22380.59		13C4-PFOS_ISTD	7.520	29224	5.6156	ng/ml			
D7-NMeFOSE	9.957	124318	9662.97		13C4-PFOS_ISTD	7.520	29224	24.7313	ng/ml			
D9-NEtFOSE	10.286	143240	20860.91		13C4-PFOS_ISTD	7.520	29224	25.6619	ng/ml			

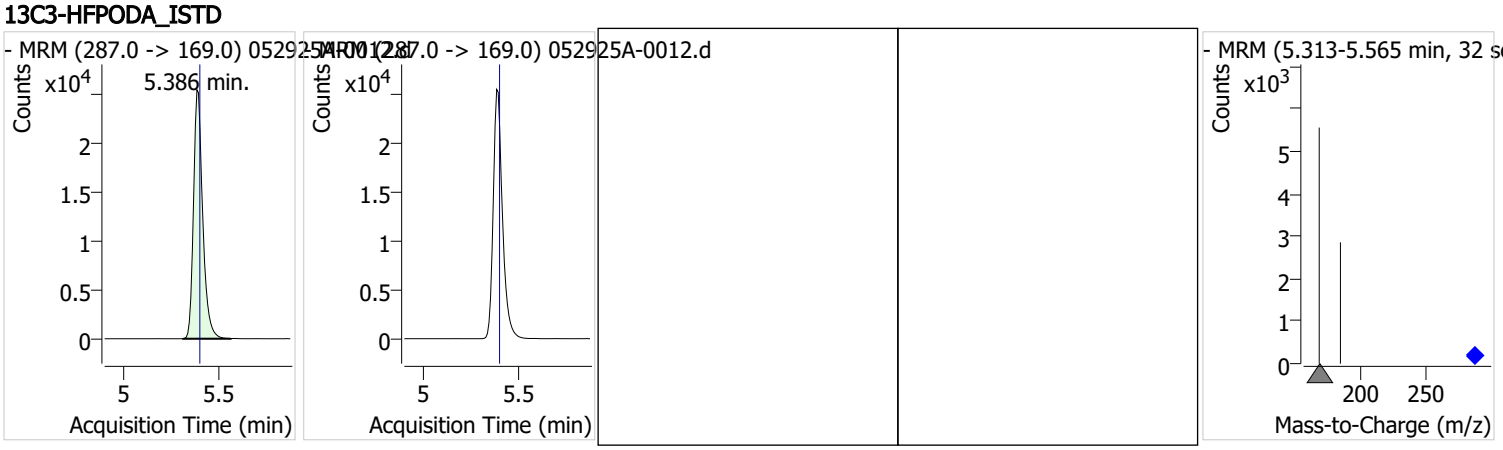
HFPO-DA



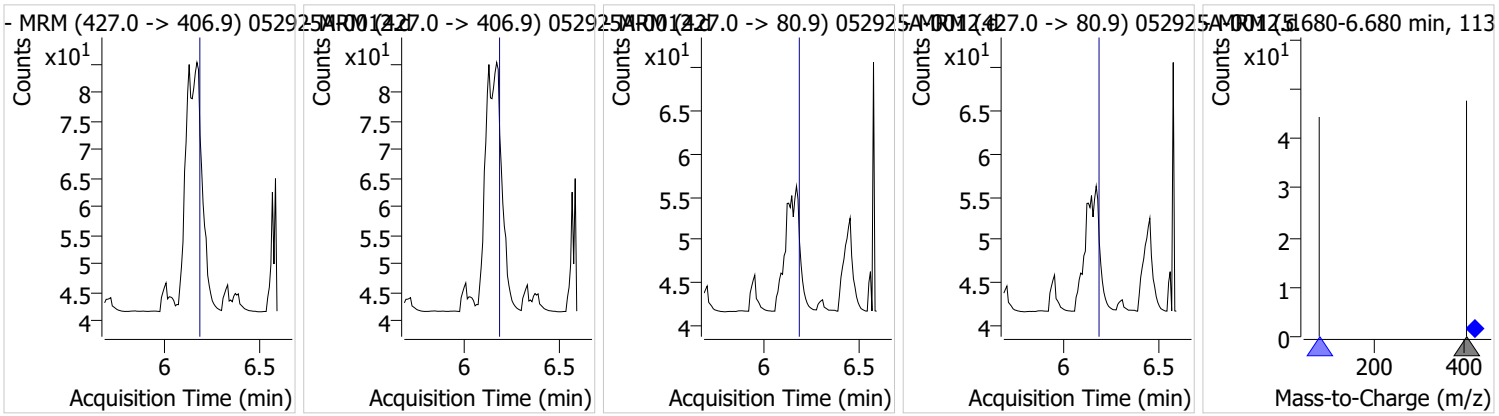
4:2FTS



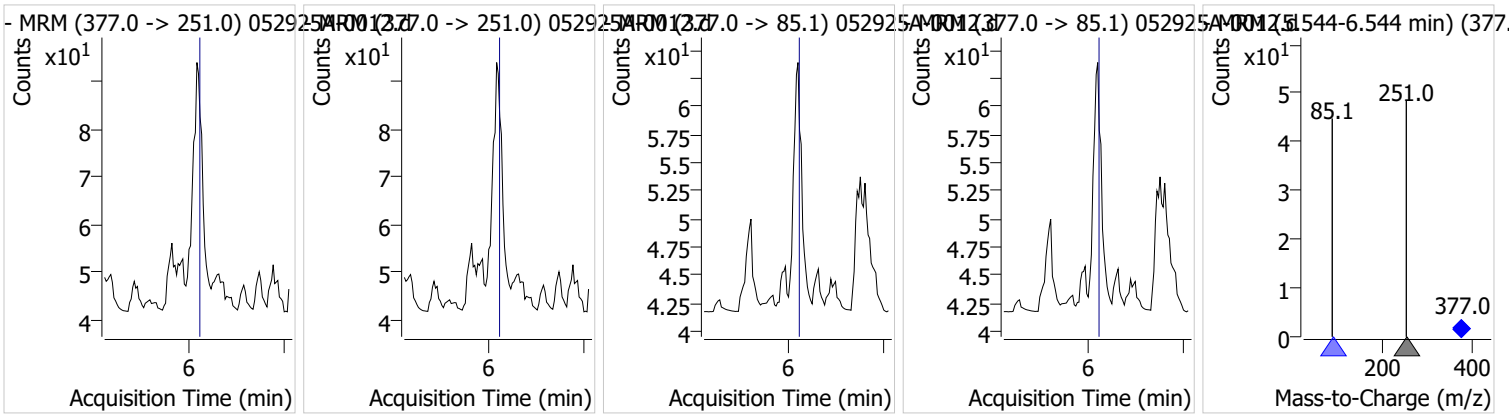
13C3-HFPODA_ISTD



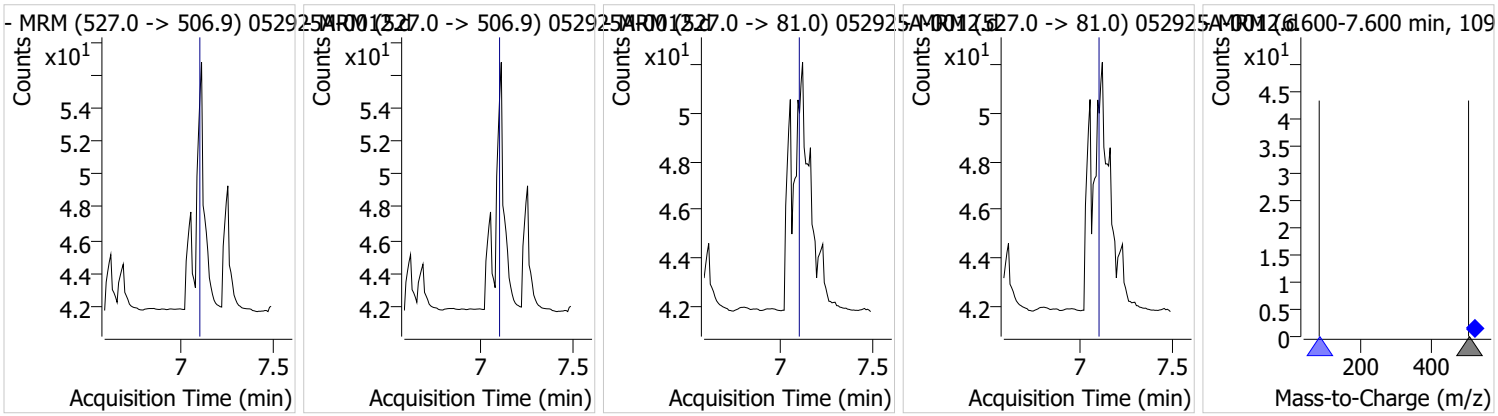
6:2FTS



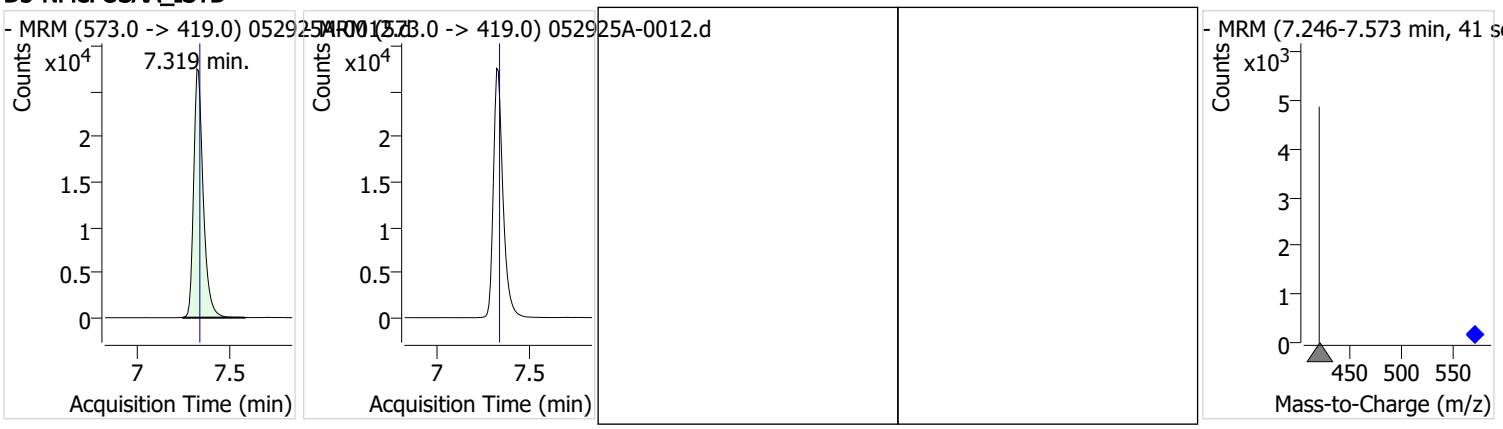
ADONA



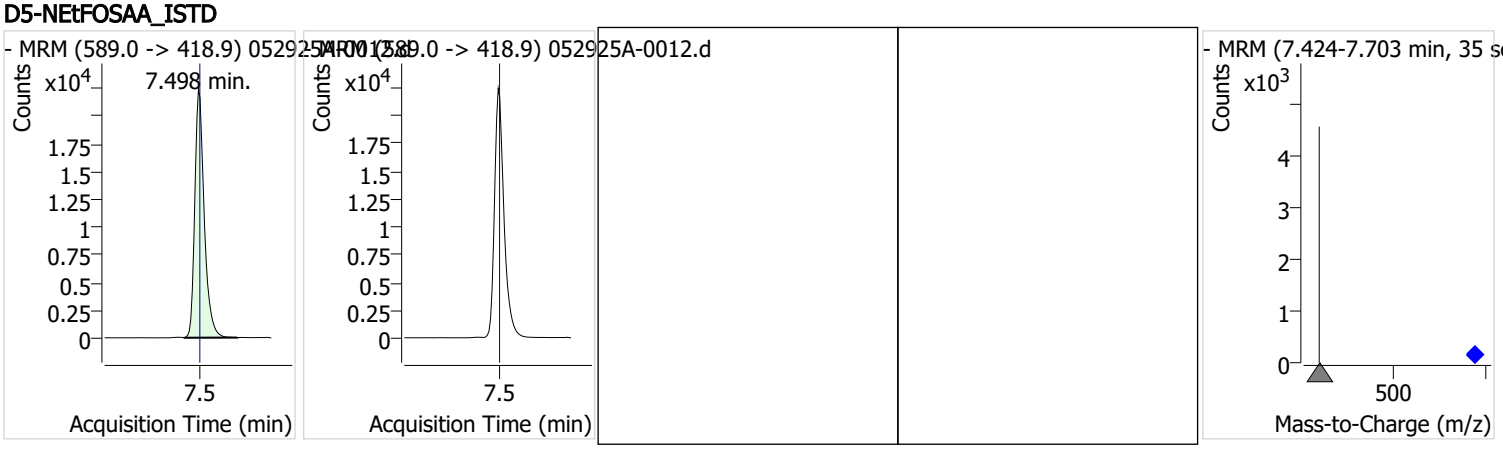
8:2FTS



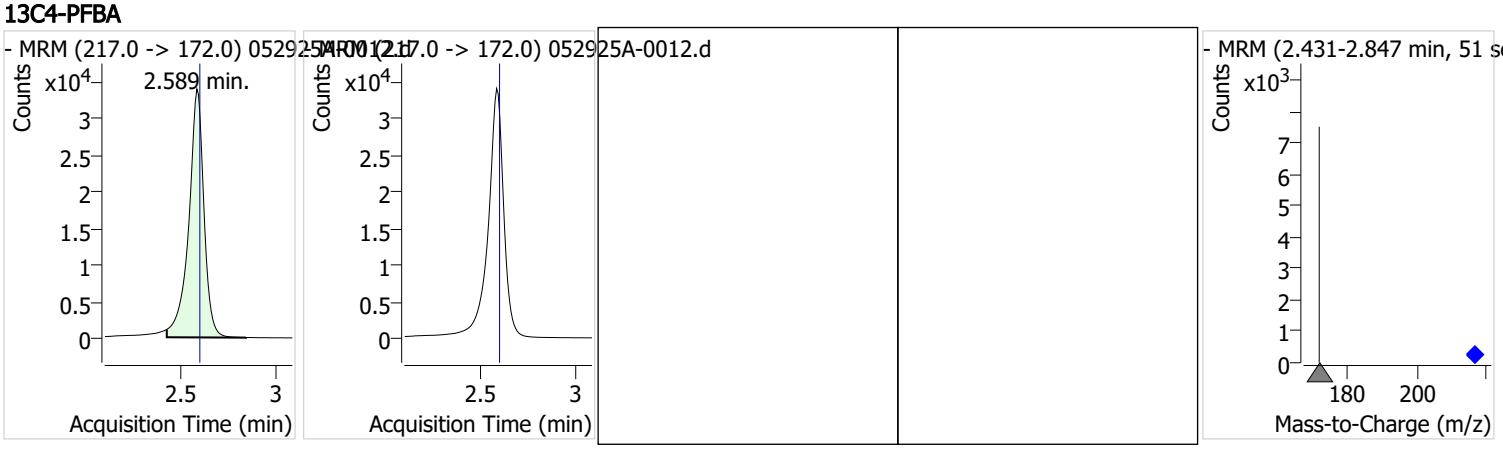
D3-NMeFOSAA_ISTD



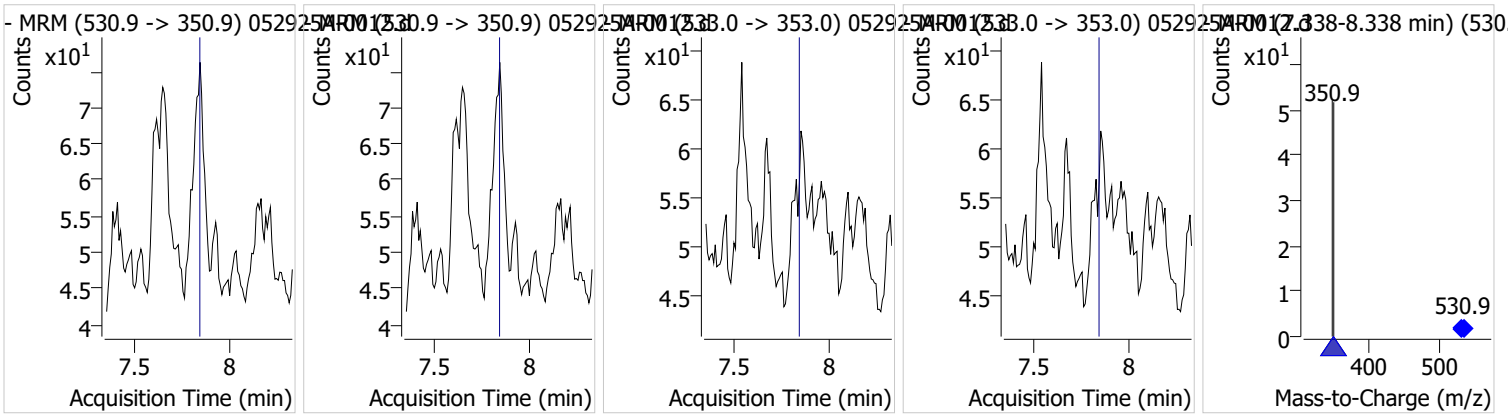
D5-NEtFOSAA_ISTD



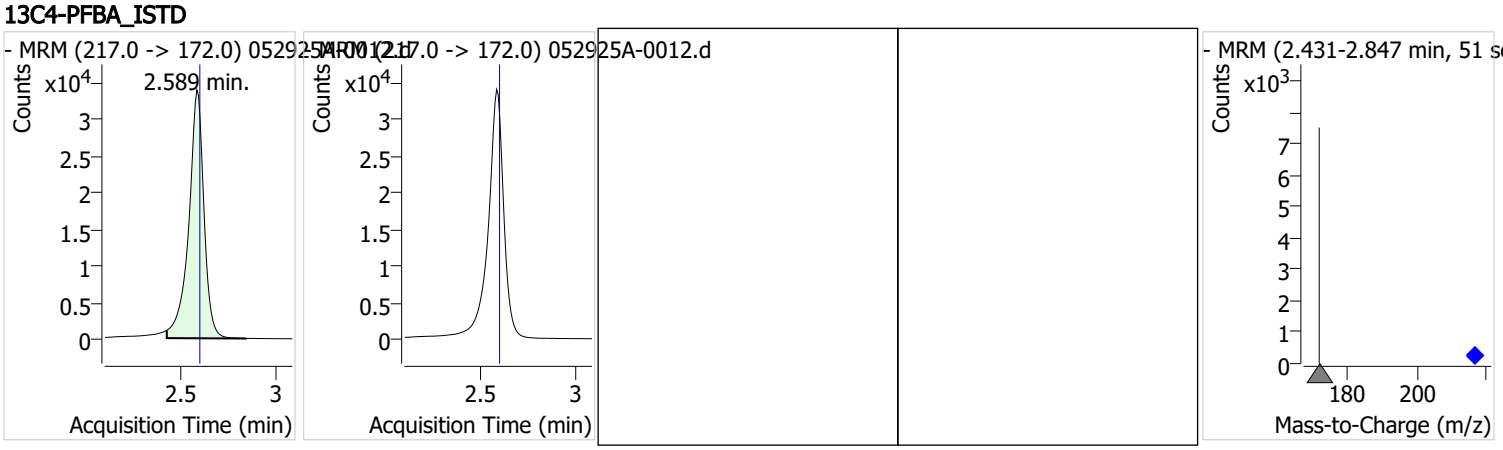
13C4-PFBA



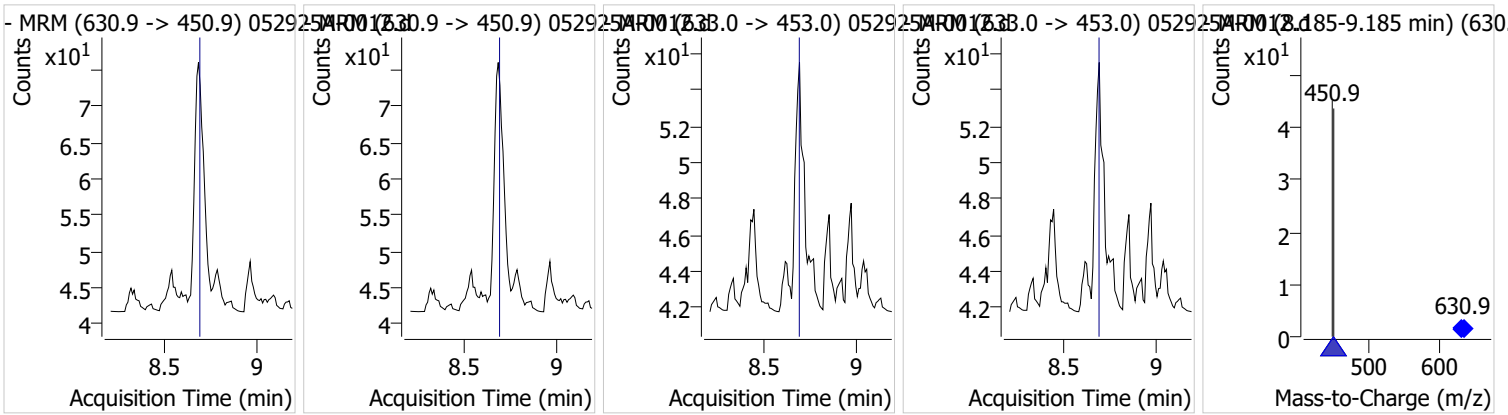
9Cl-PF3ONS



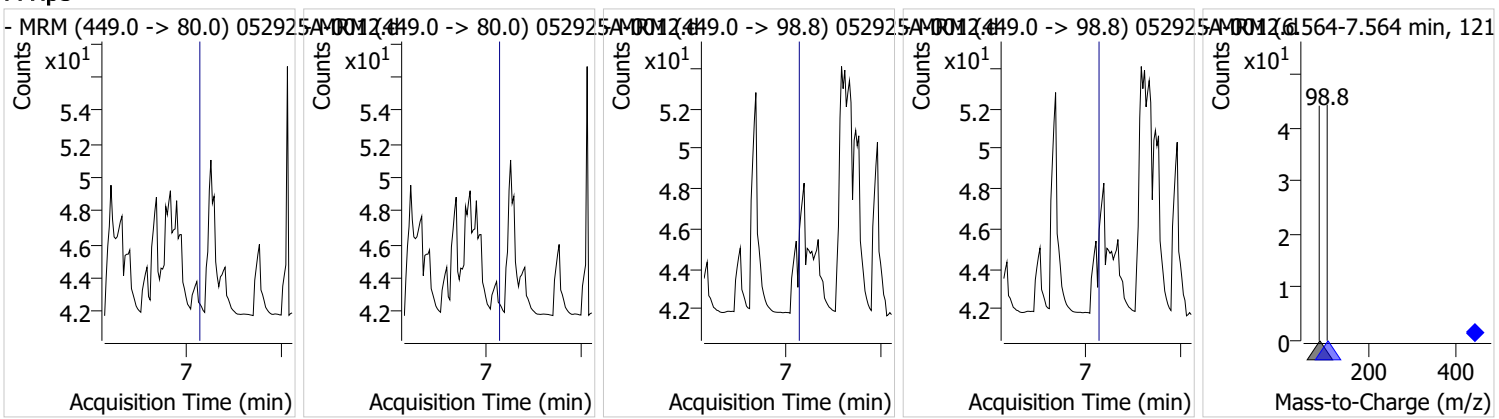
13C4-PFBA_ISTD



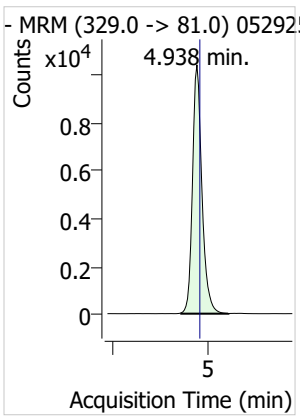
11Cl-PF3OUdS

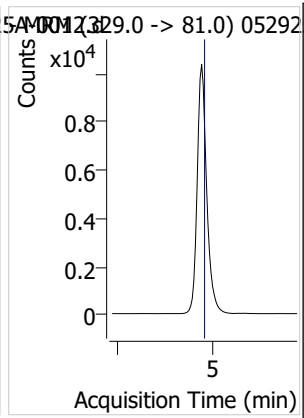


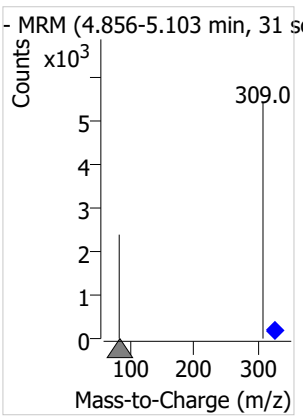
PFHpS



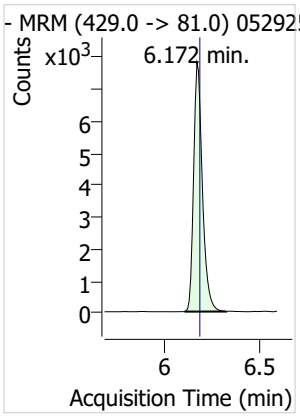
13C2-4:2FTS

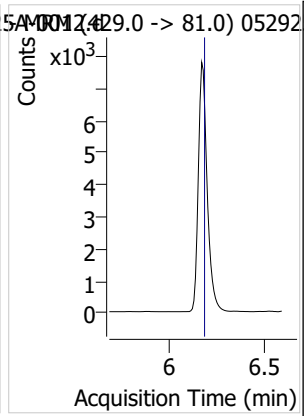


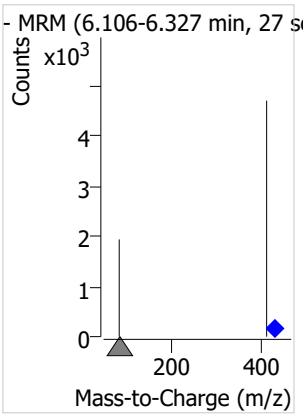




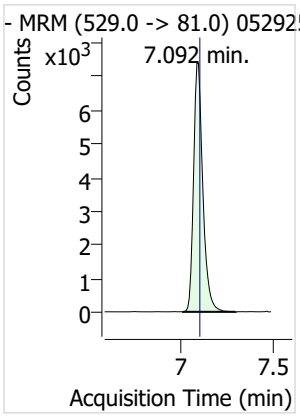
13C2-6:2FTS

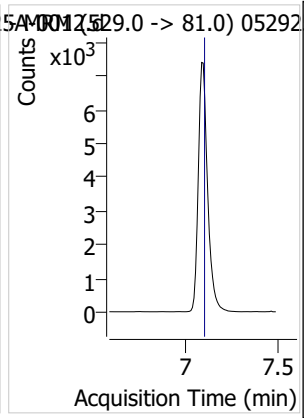


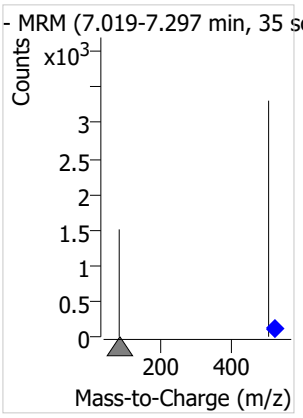




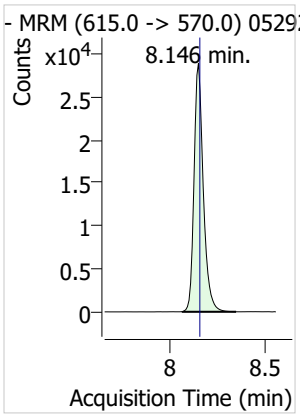
13C2-8:2FTS

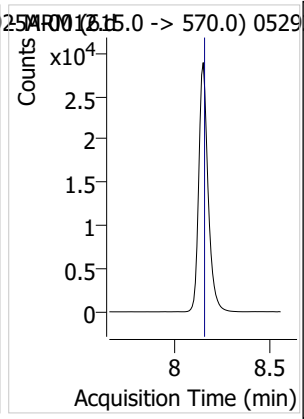


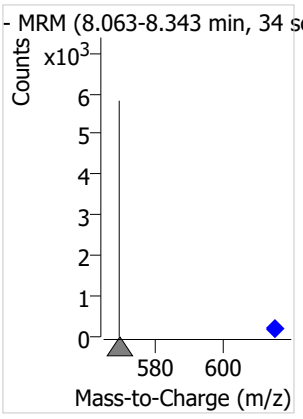




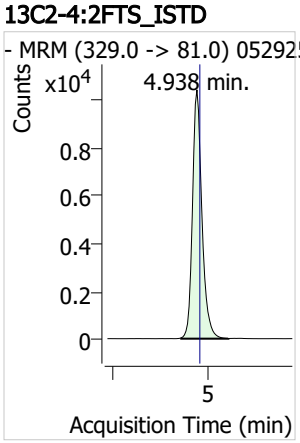
13C2-PFDoA

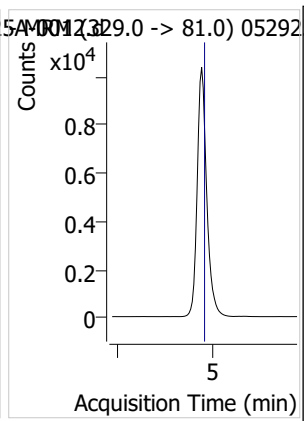


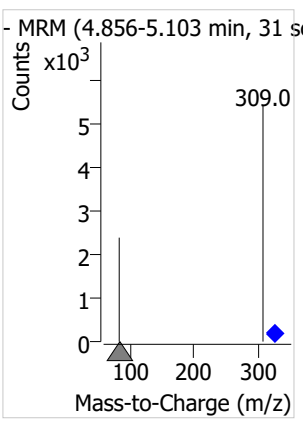




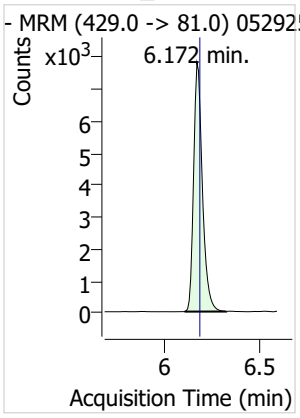
13C2-4:2FTS_ISTD

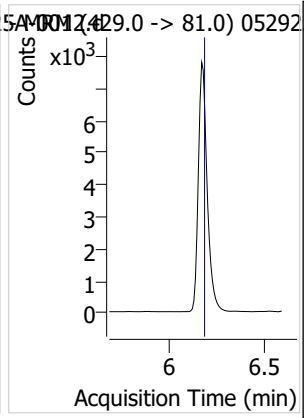


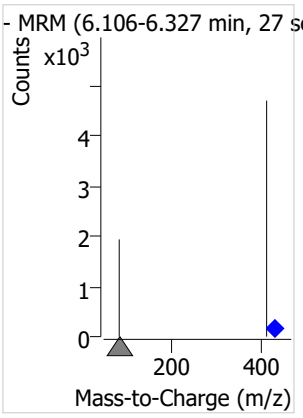




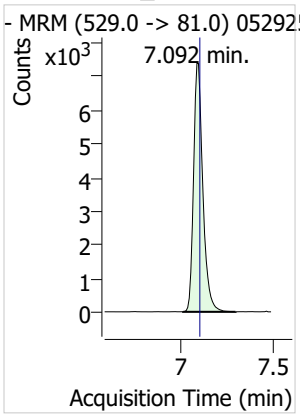
13C2-6:2FTS_ISTD

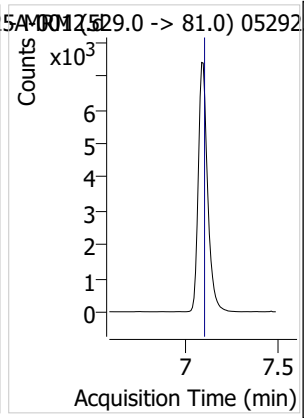


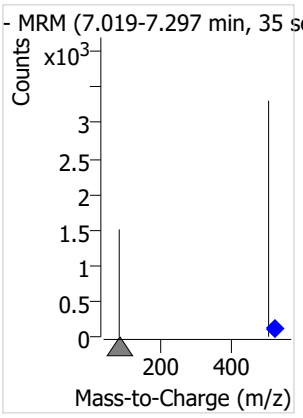




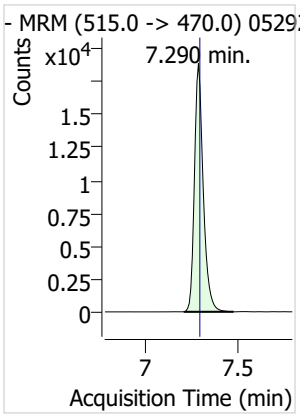
13C2-8:2FTS_ISTD

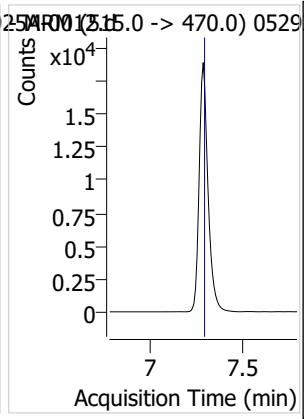


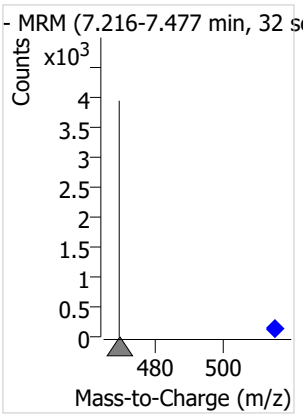




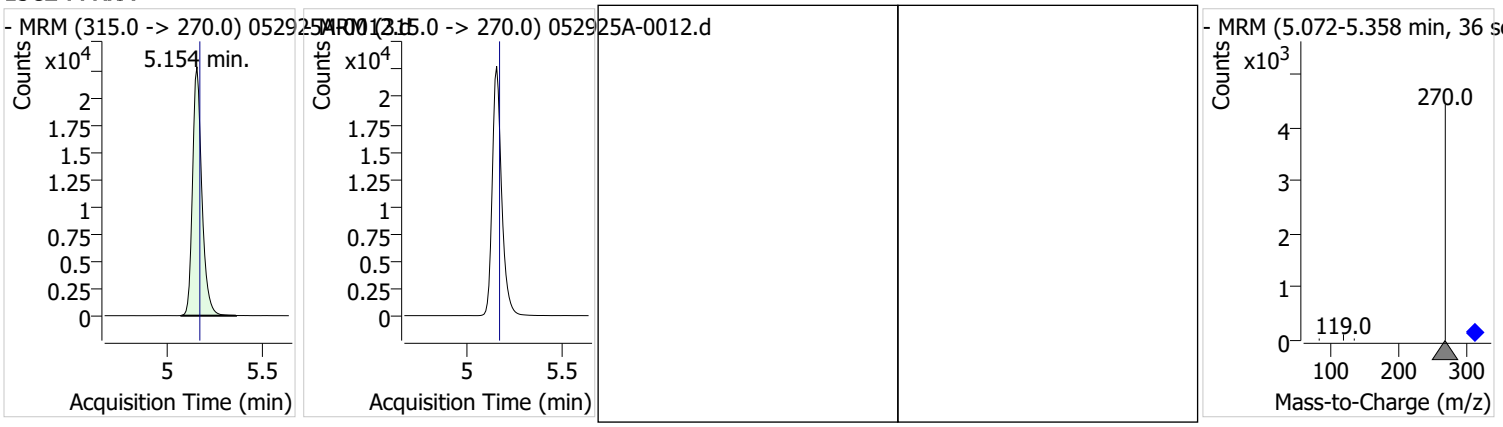
13C2-PFDA



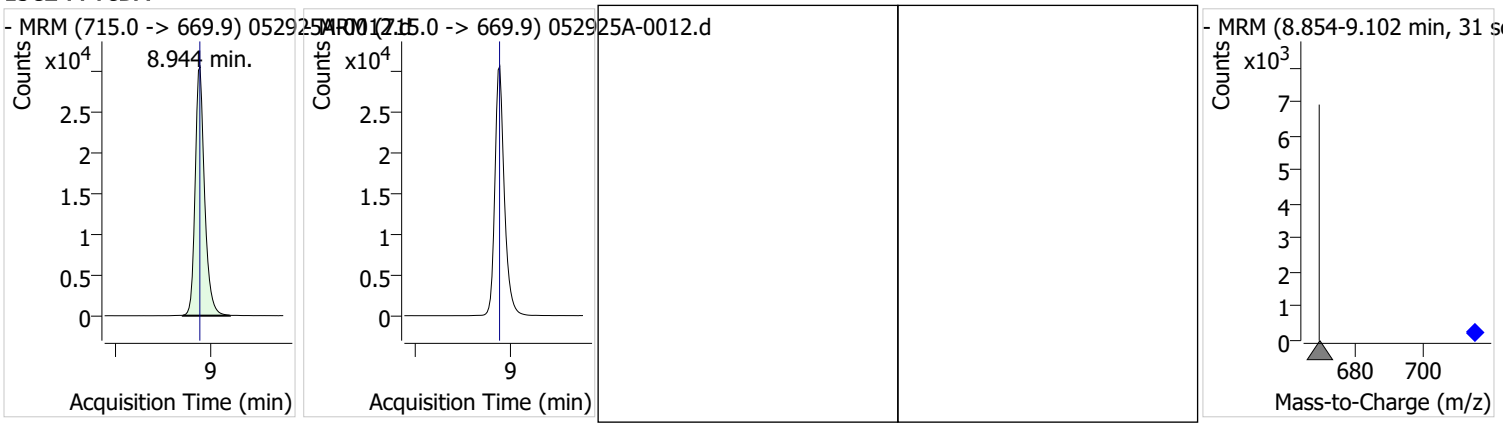




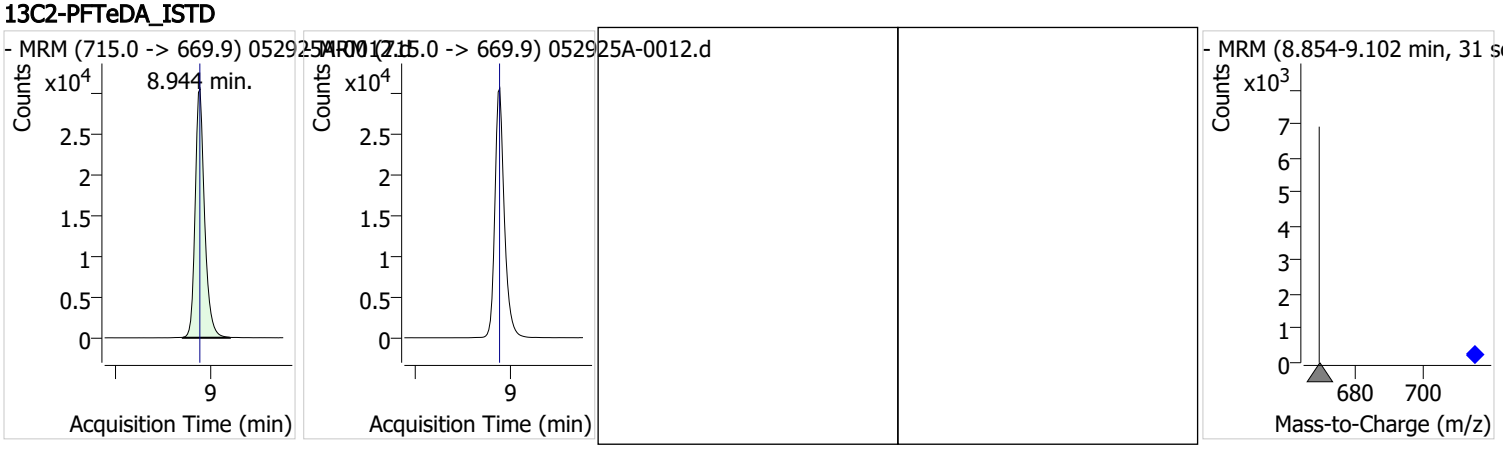
13C2-PFHxA



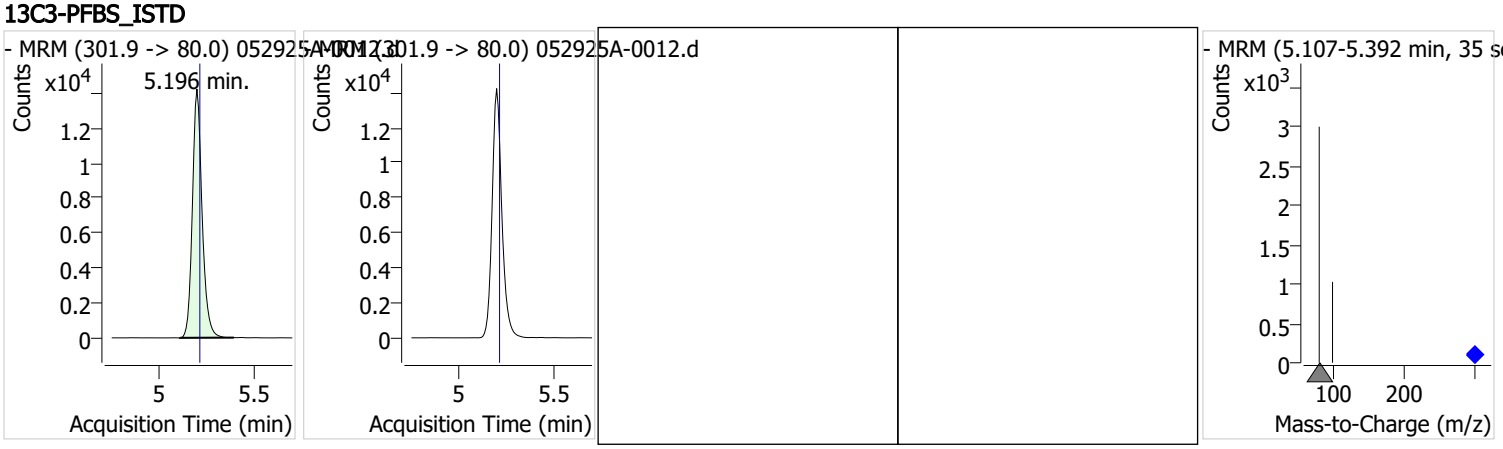
13C2-PFTeDA



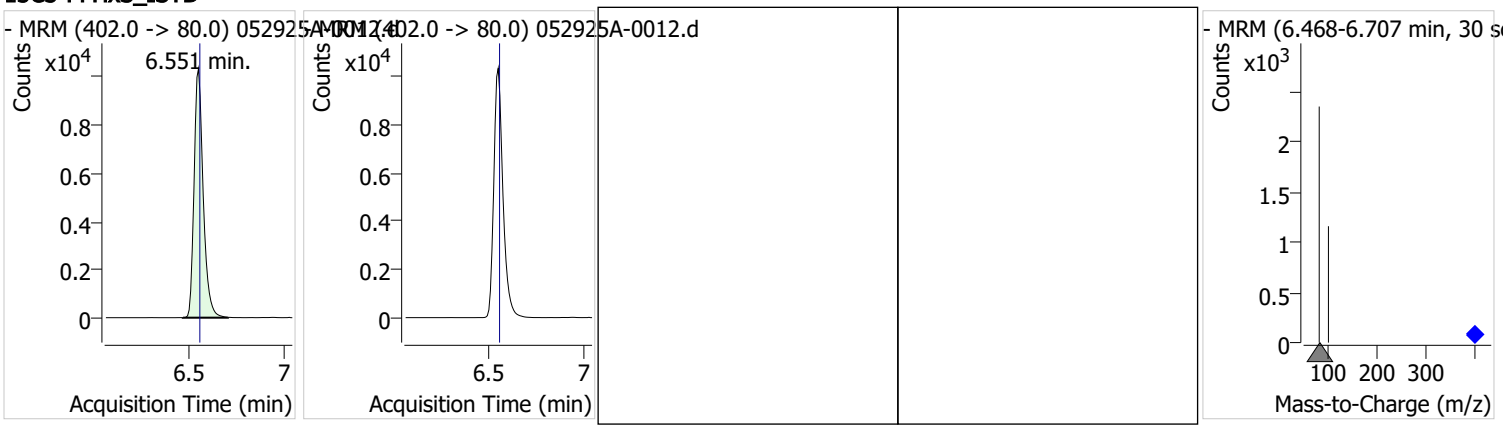
13C2-PFTeDA_ISTD



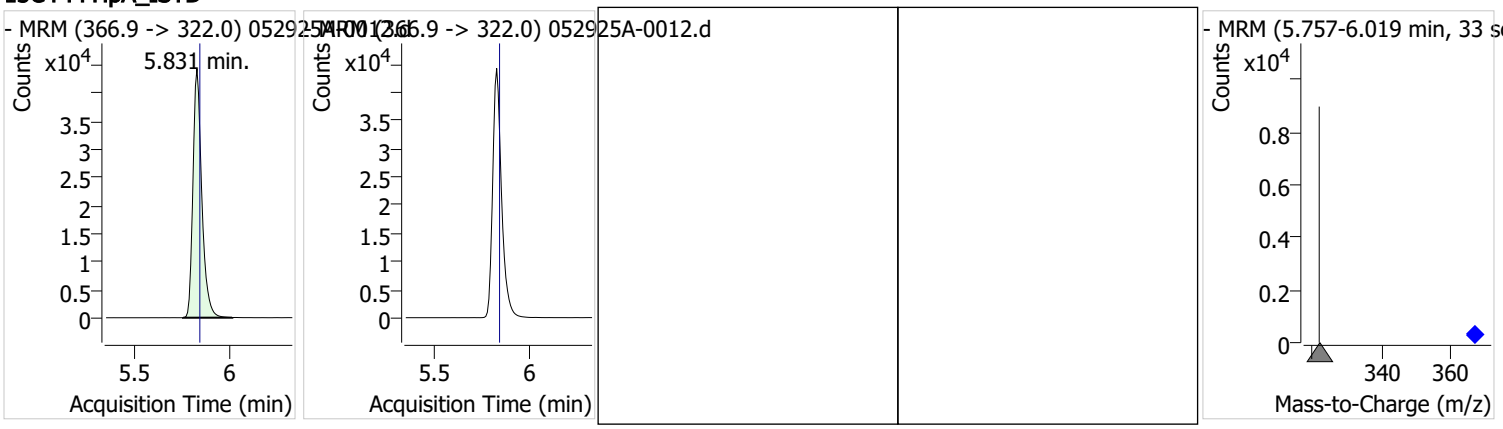
13C3-PFBS_ISTD



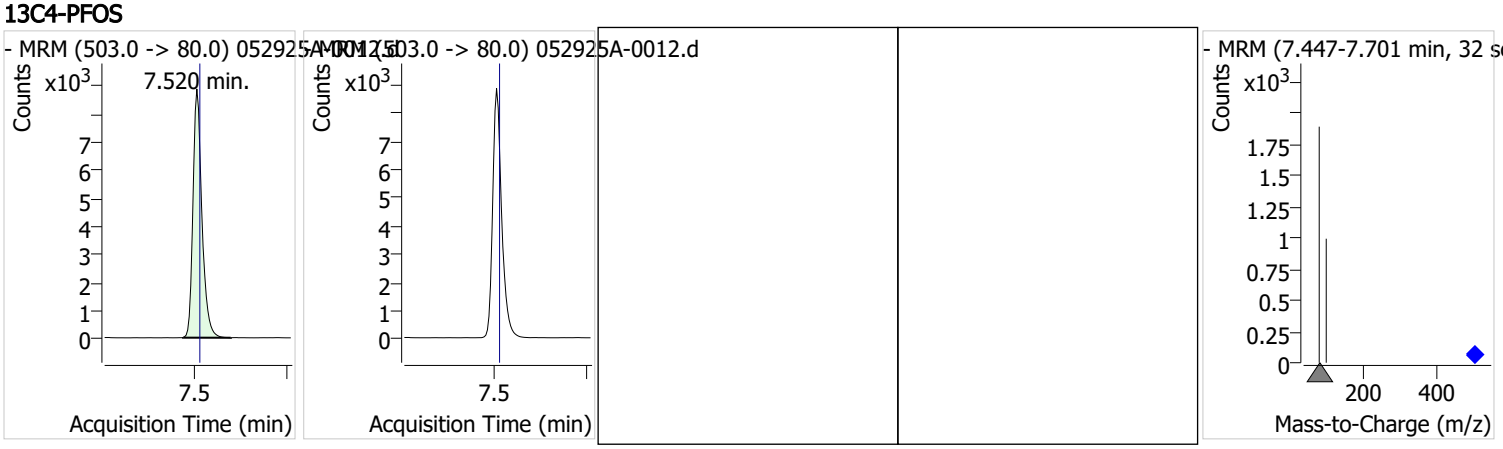
13C3-PFHxS_ISTD



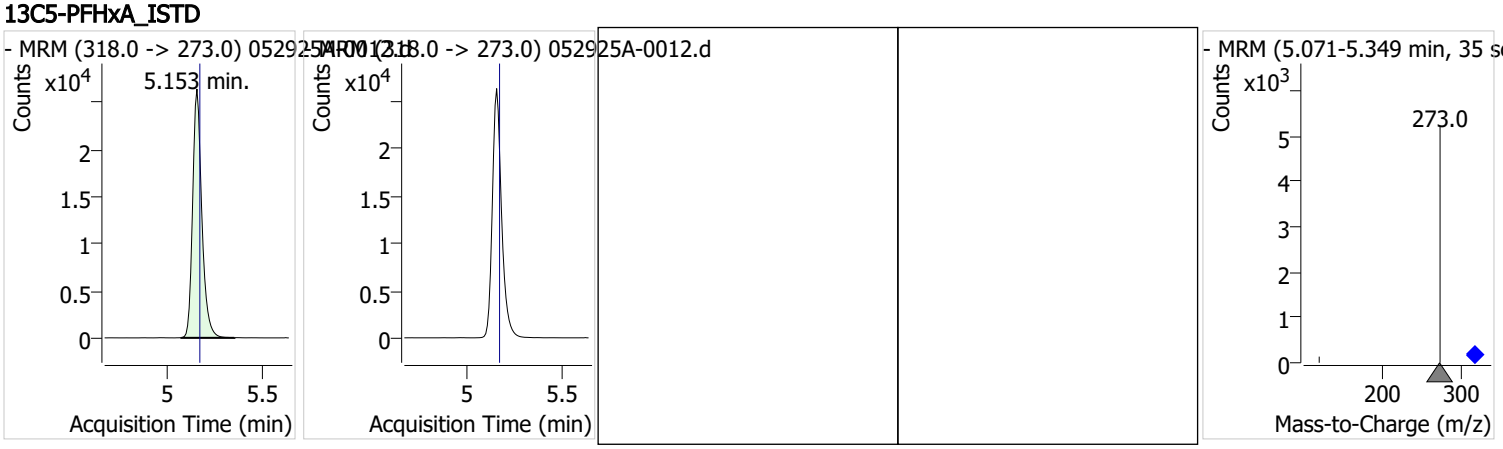
13C4-PFHpA_ISTD



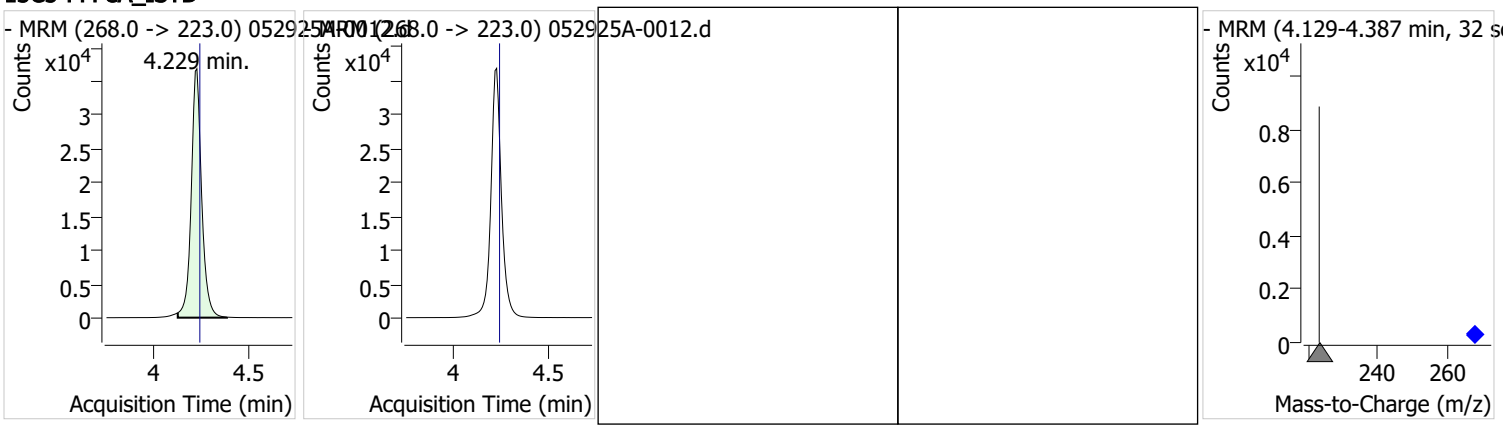
13C4-PFOS



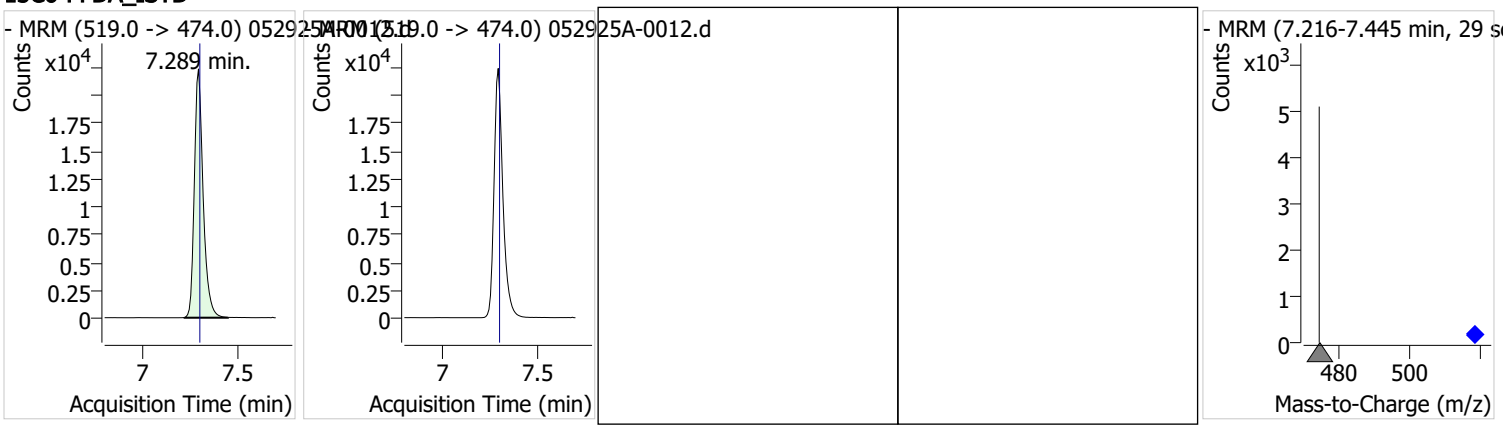
13C5-PFHxA_ISTD



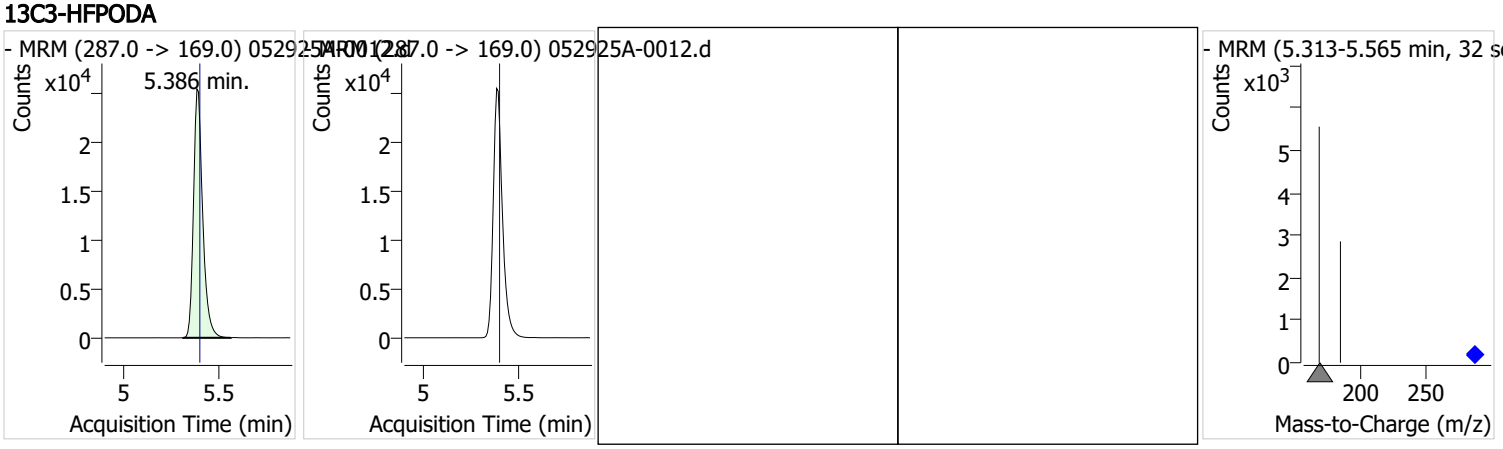
13C5-PFPeA_ISTD



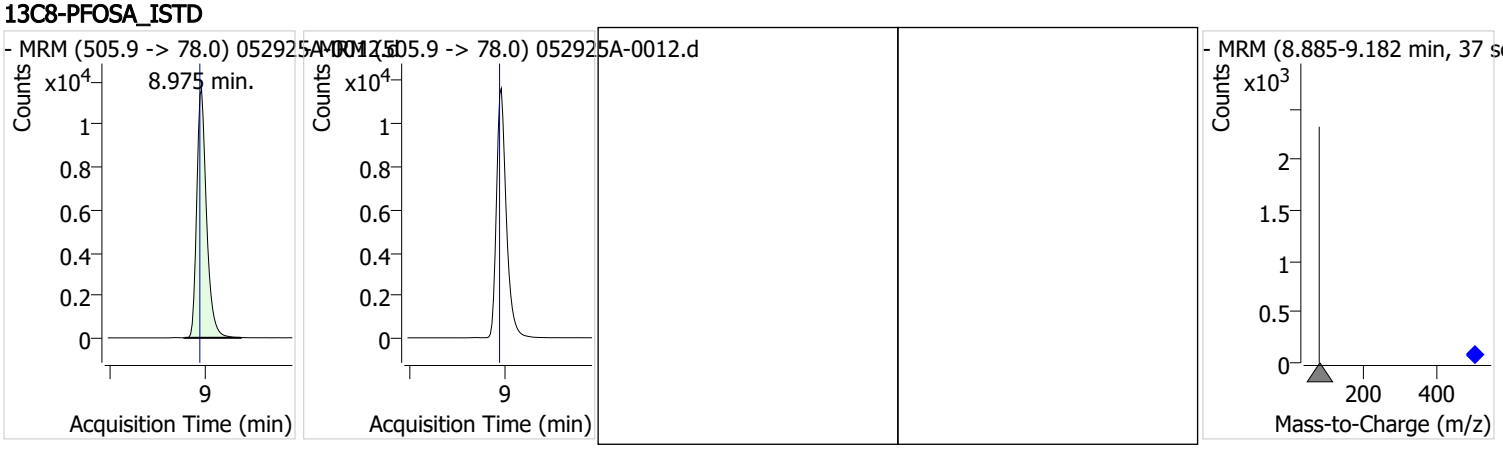
13C6-PFDA_ISTD



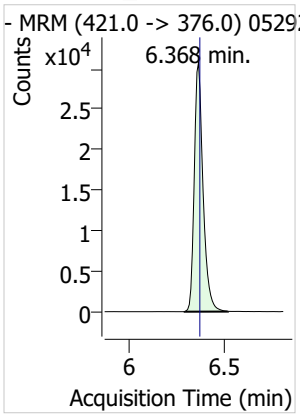
13C3-HFPODA

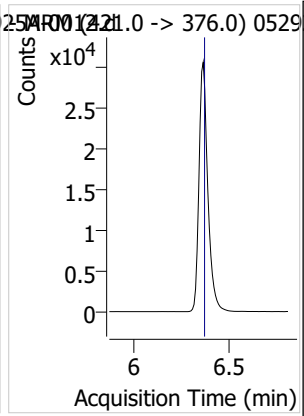


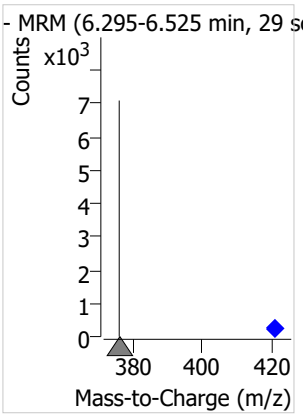
13C8-PFOSA_ISTD



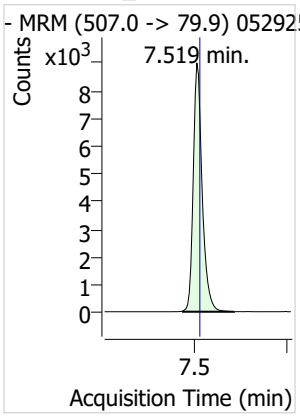
13C8-PFOA_ISTD

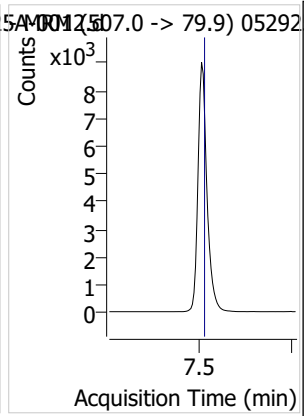


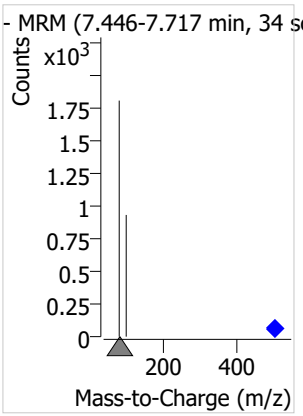




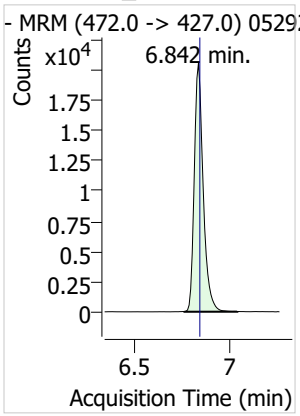
13C8-PFOS_ISTD

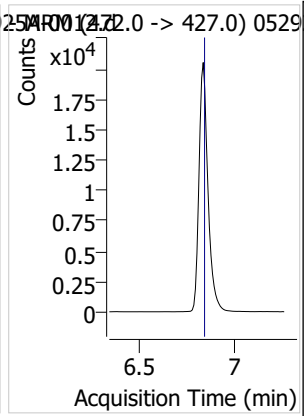


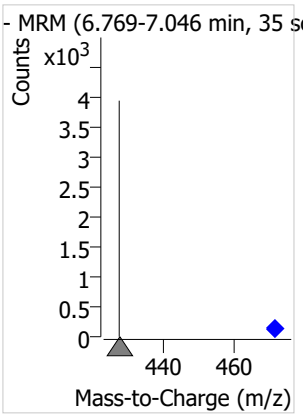




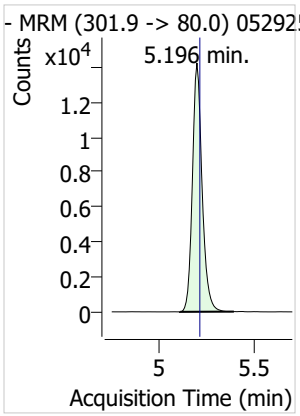
13C9-PFNA_ISTD

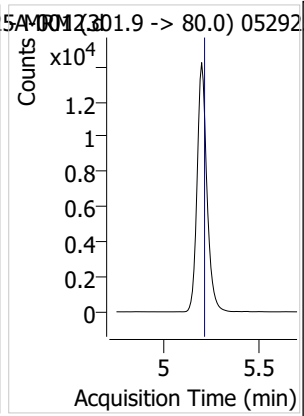


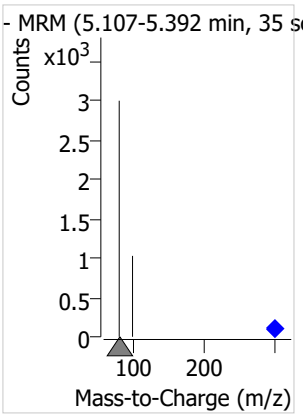




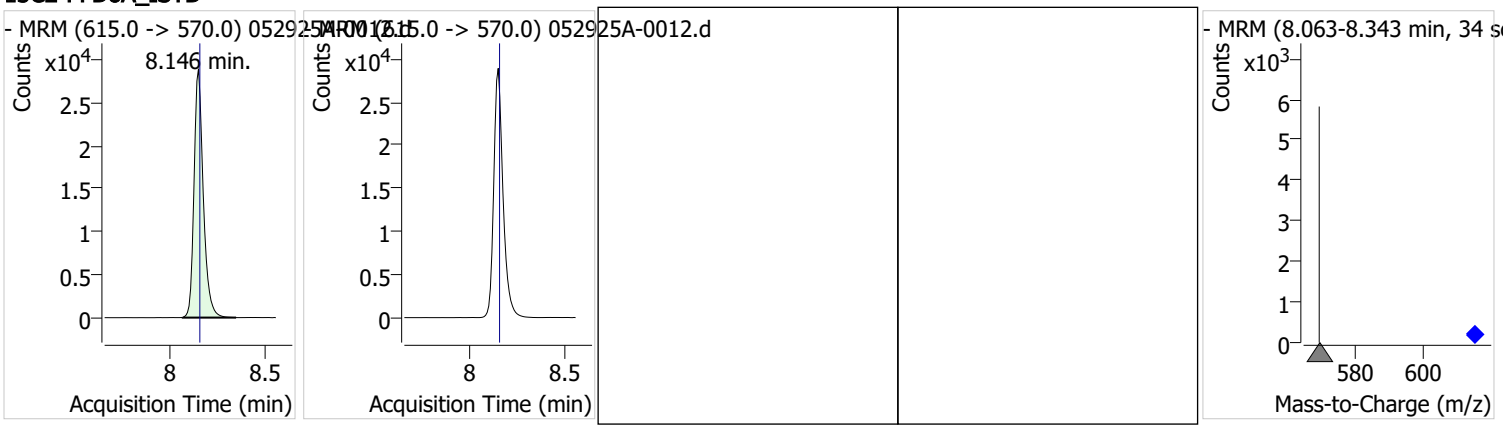
13C3-PFBS



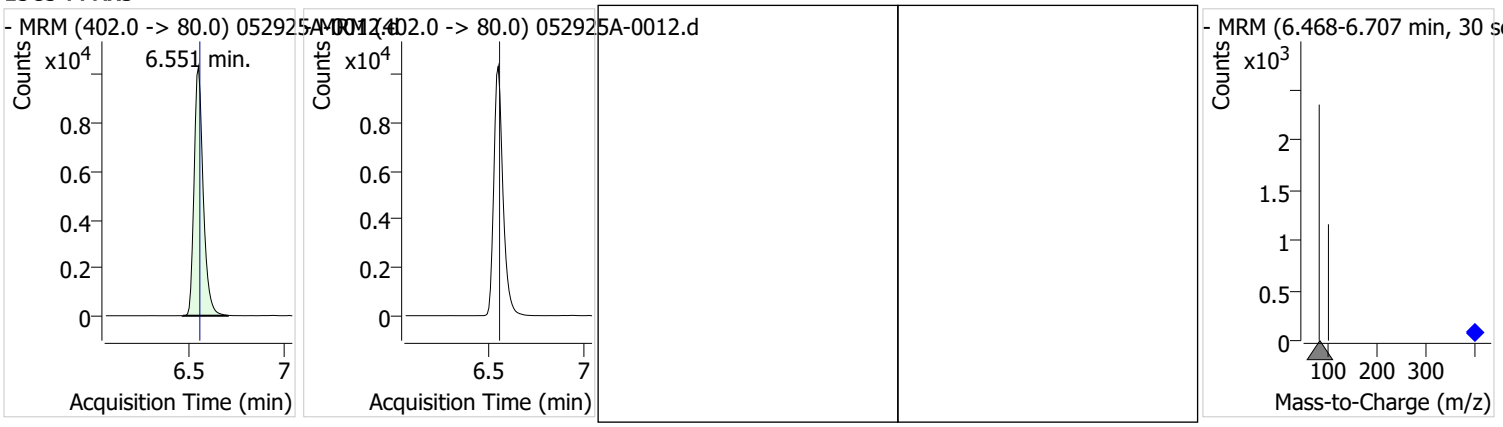




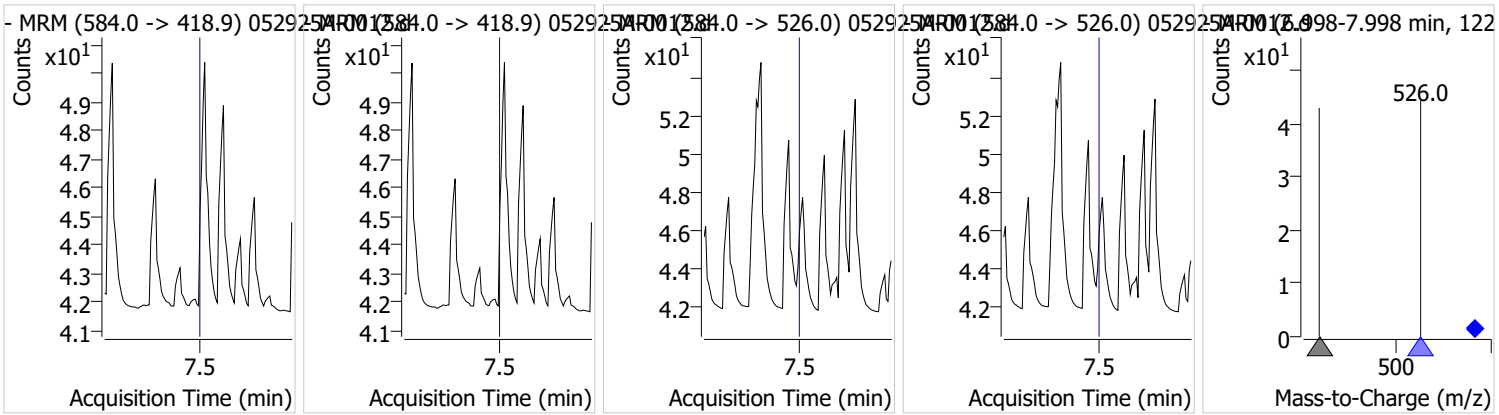
13C2-PFDoA_ISTD



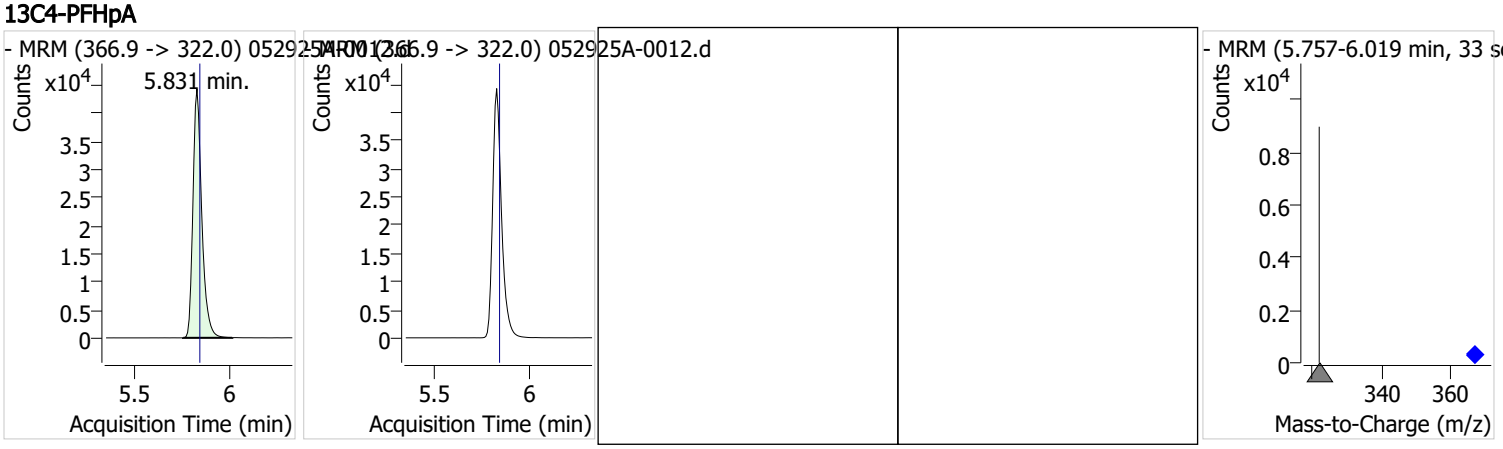
13C3-PFHxS



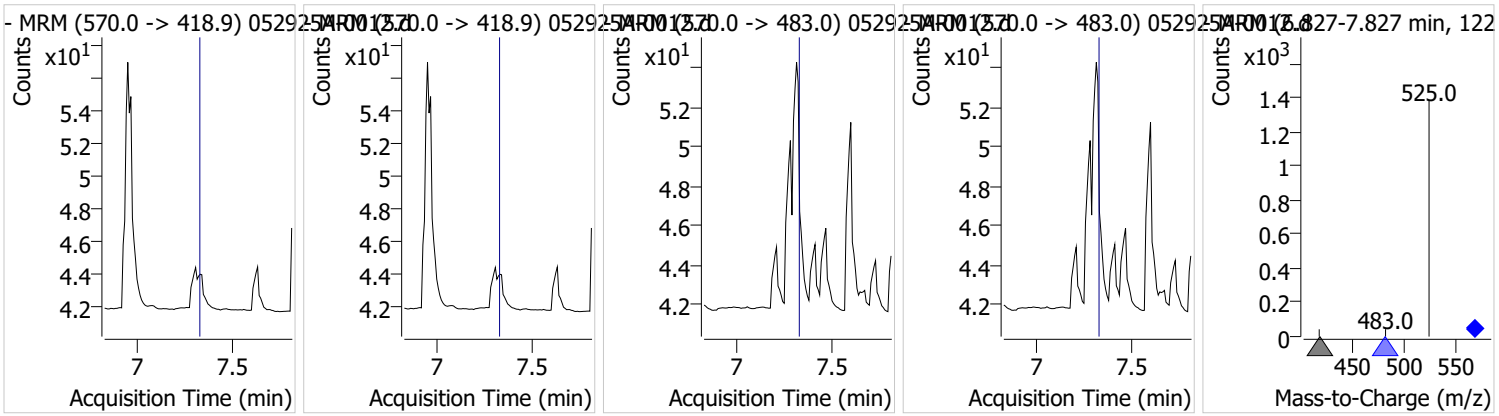
NEtFOSAA



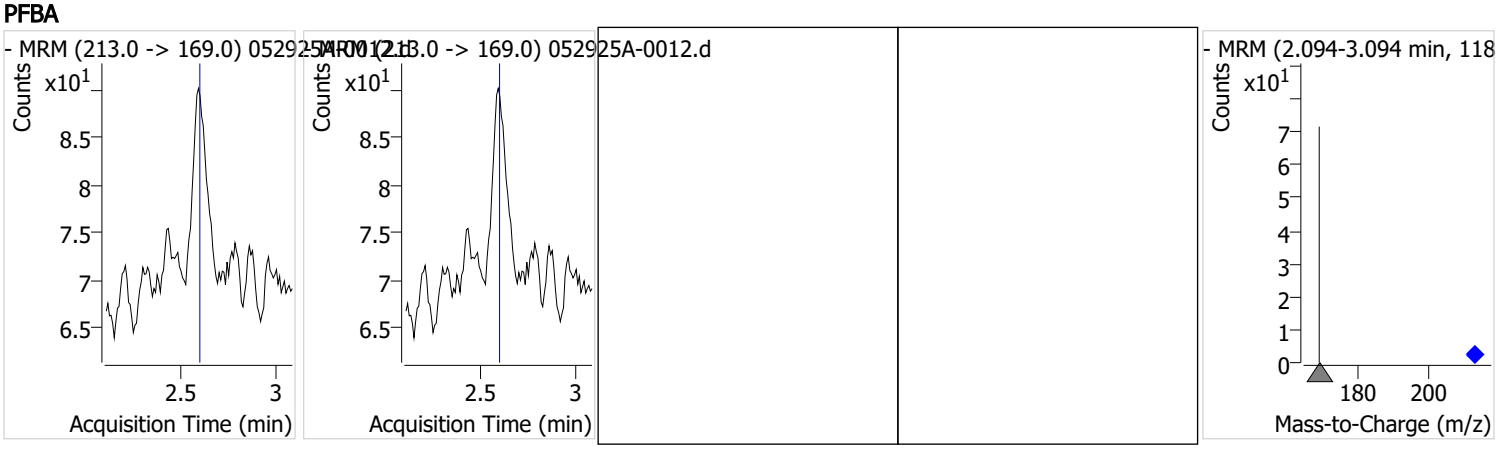
13C4-PFHpA



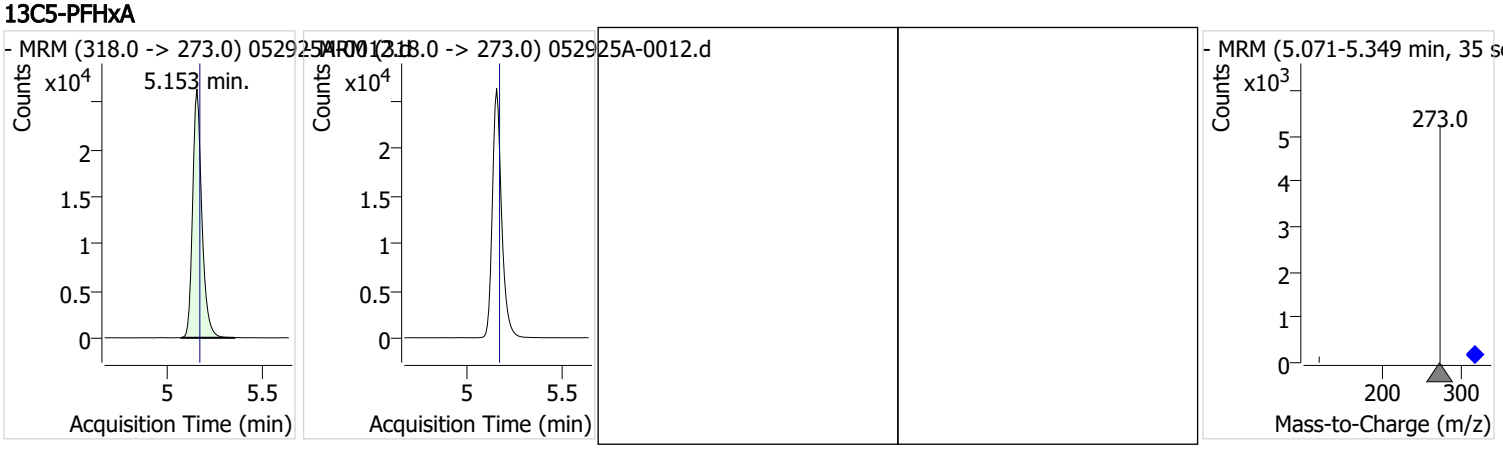
NMeFOSAA



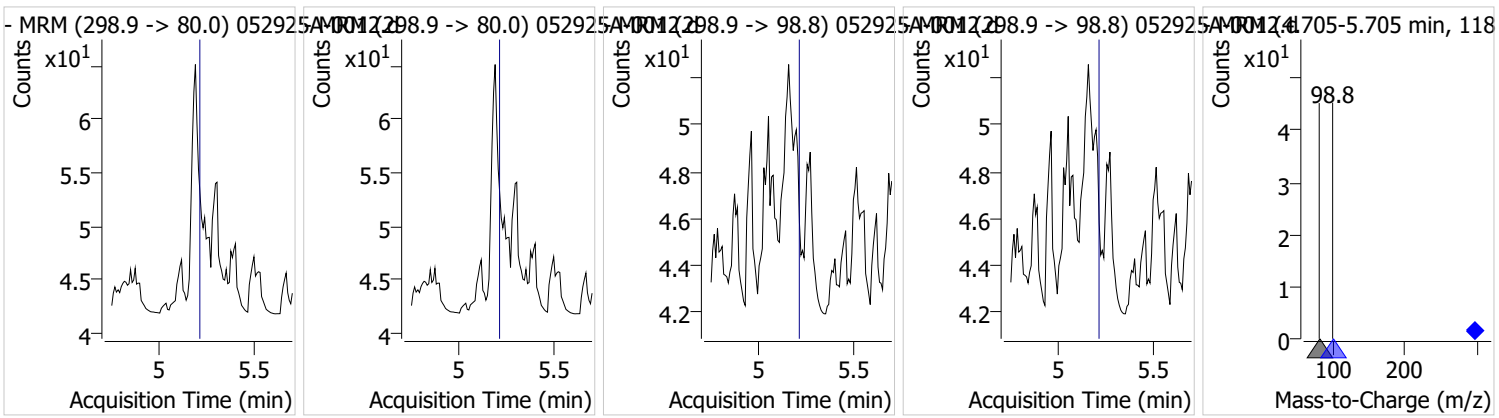
PFBA



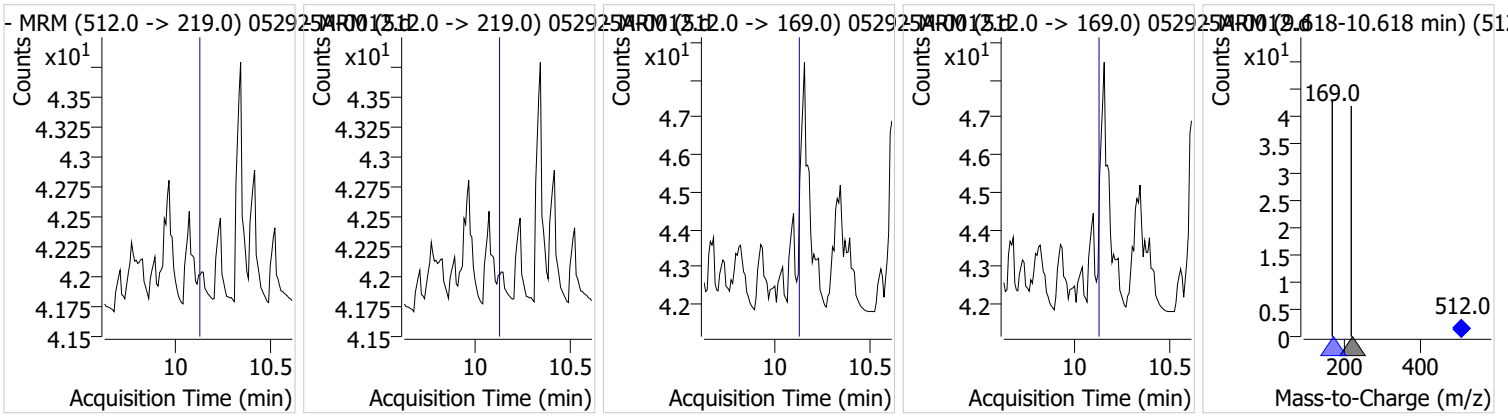
13C5-PFHxA



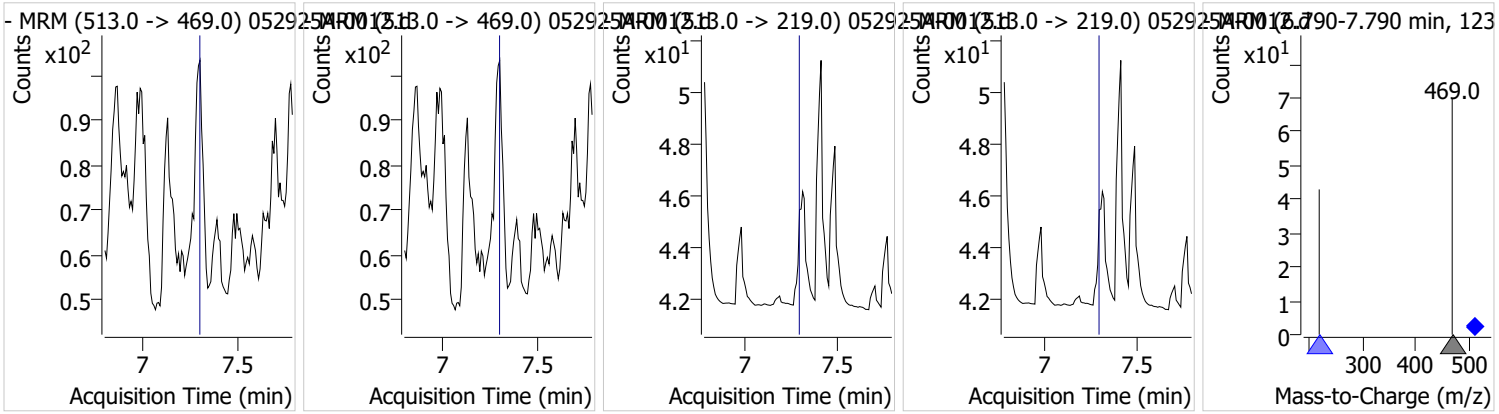
PFBS



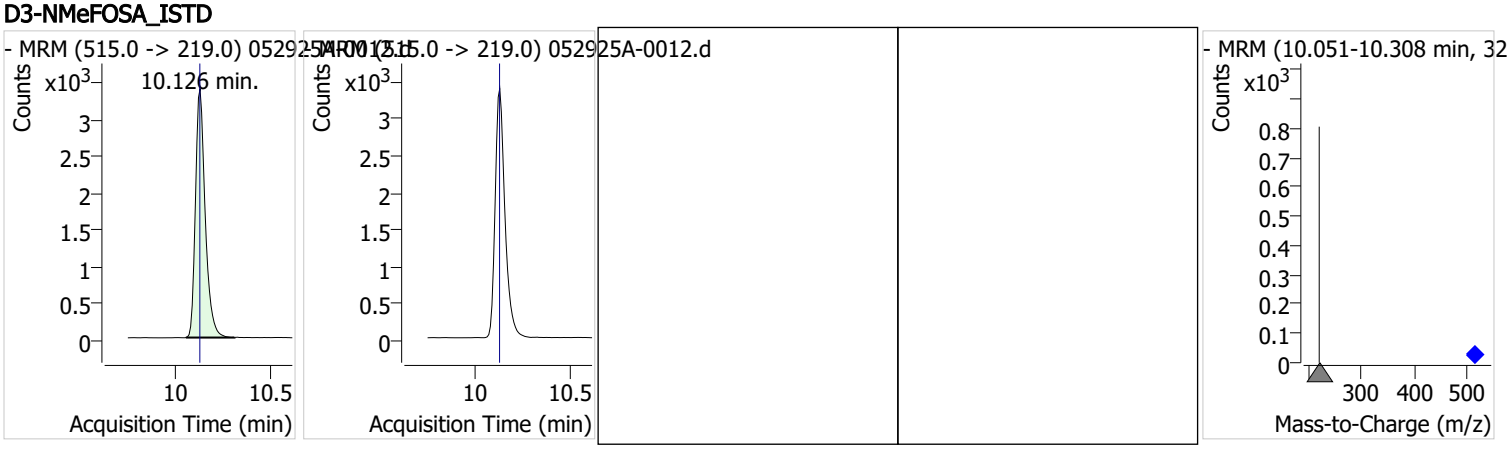
NMeFOSA



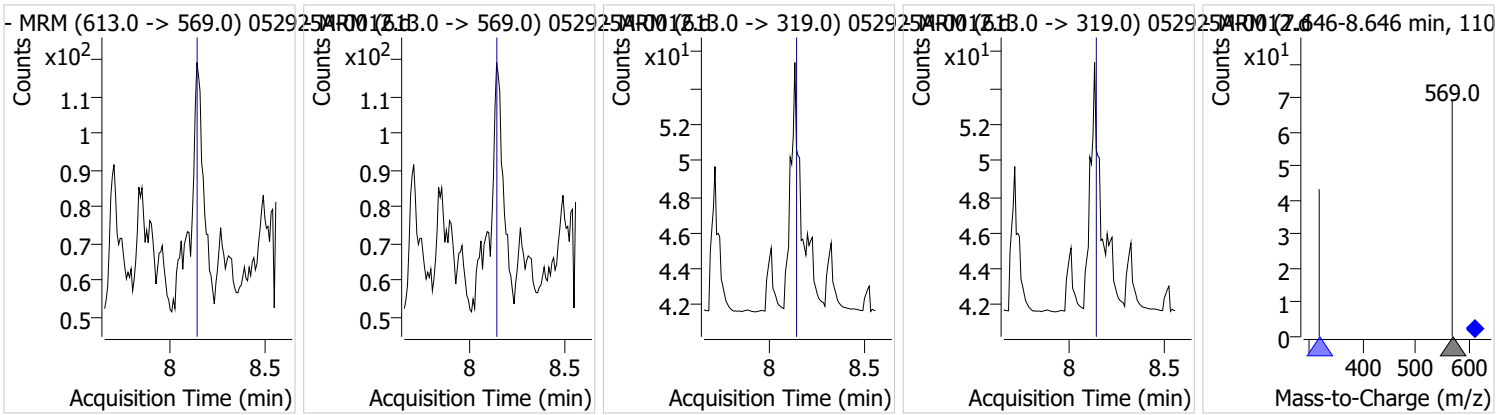
PFDA



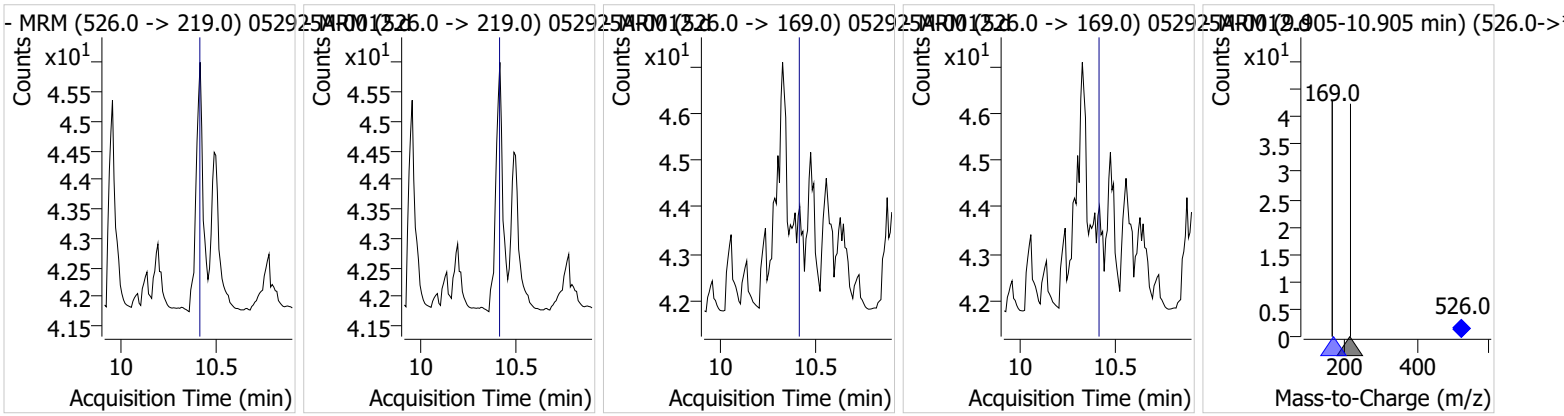
D3-NMeFOSA_ISTD



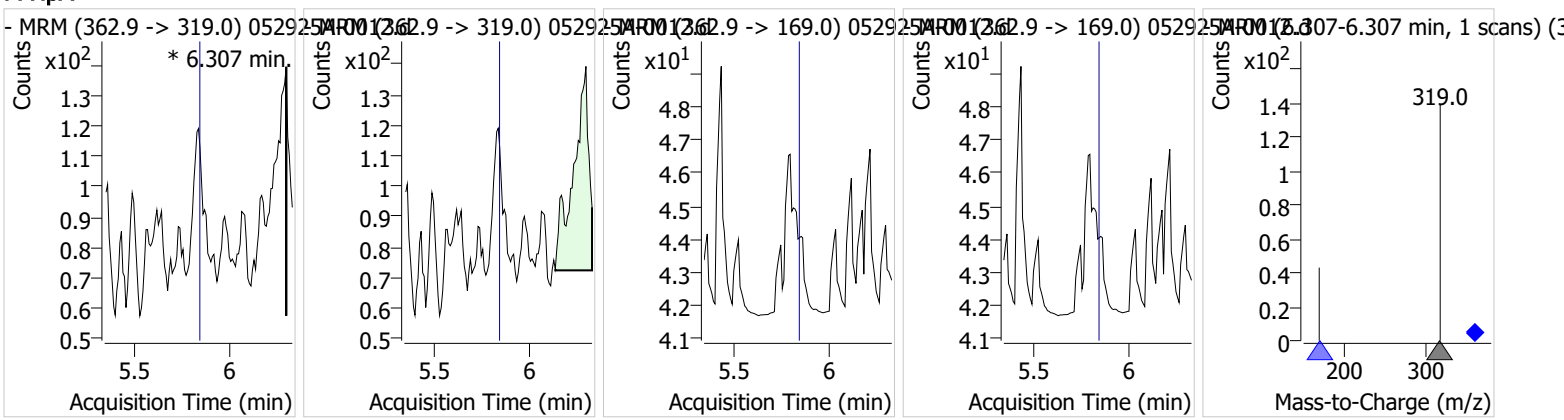
PFDoA



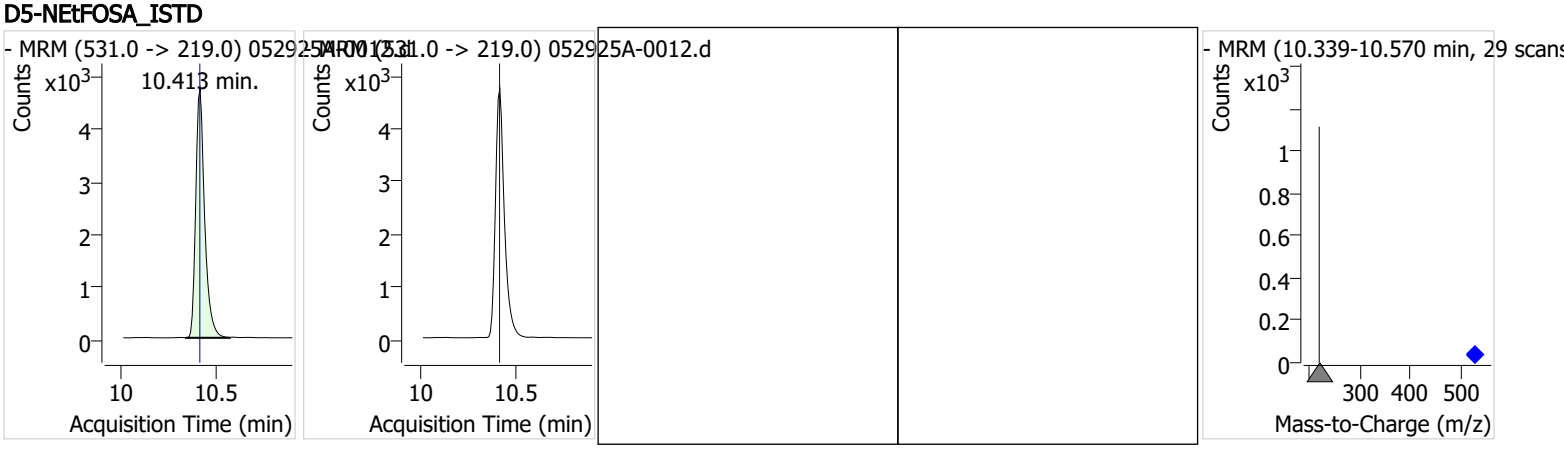
NEtFOSA



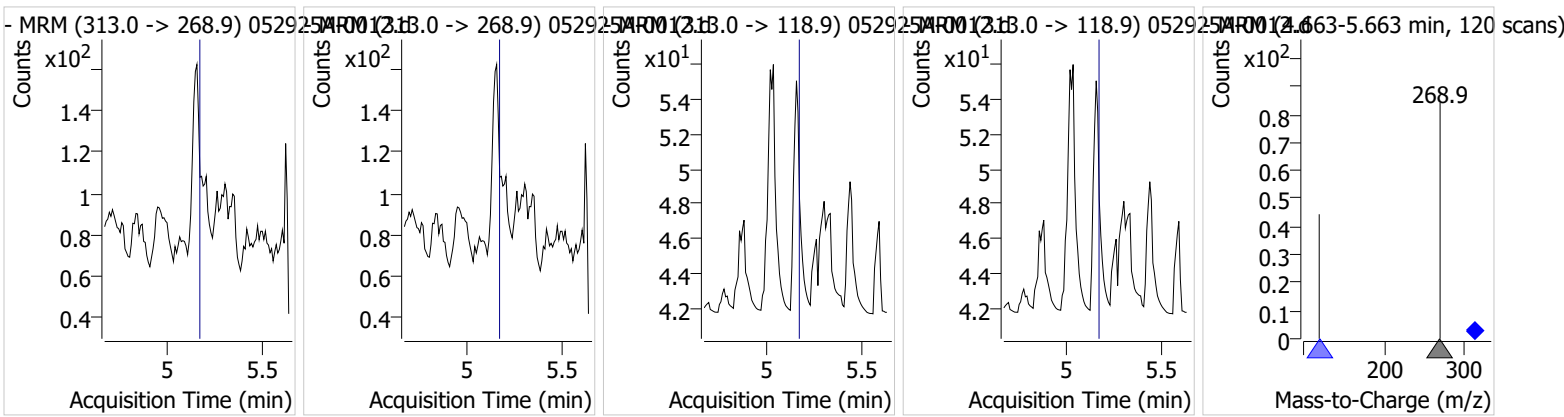
PFHpA



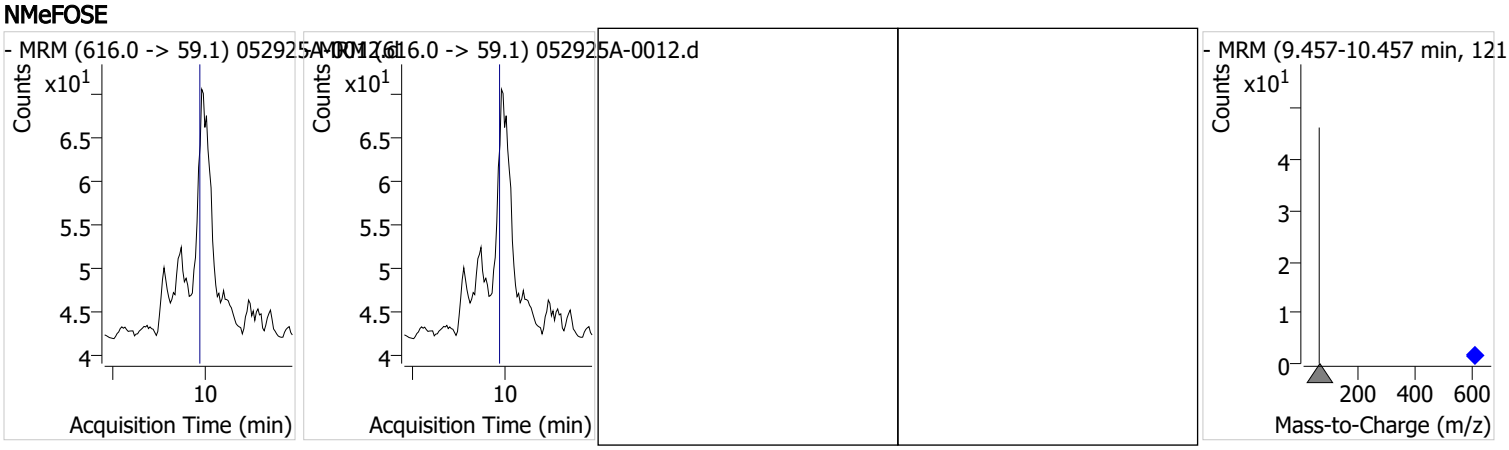
D5-NEtFOSA_ISTD



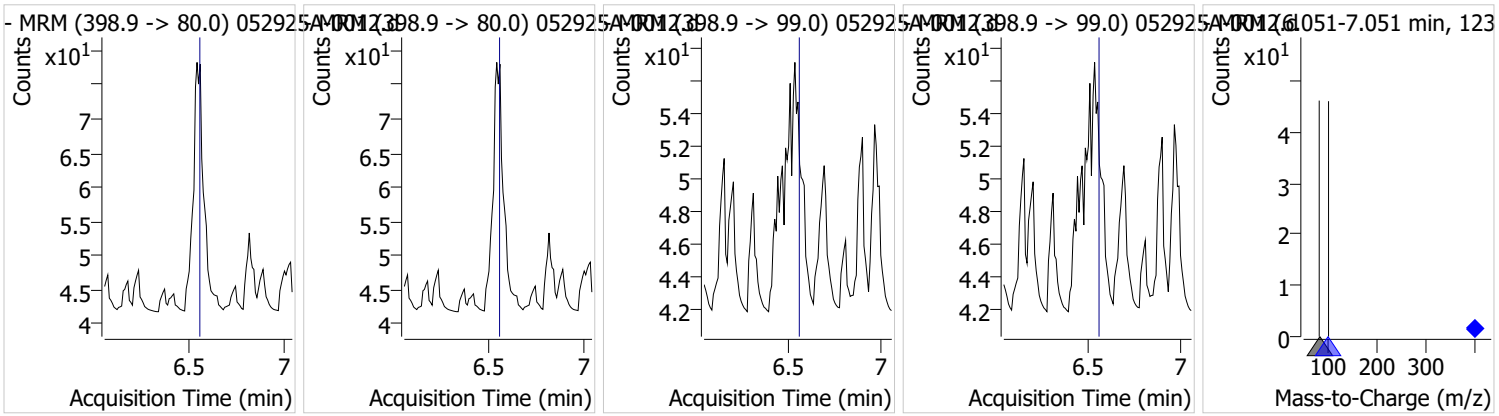
PFHxA



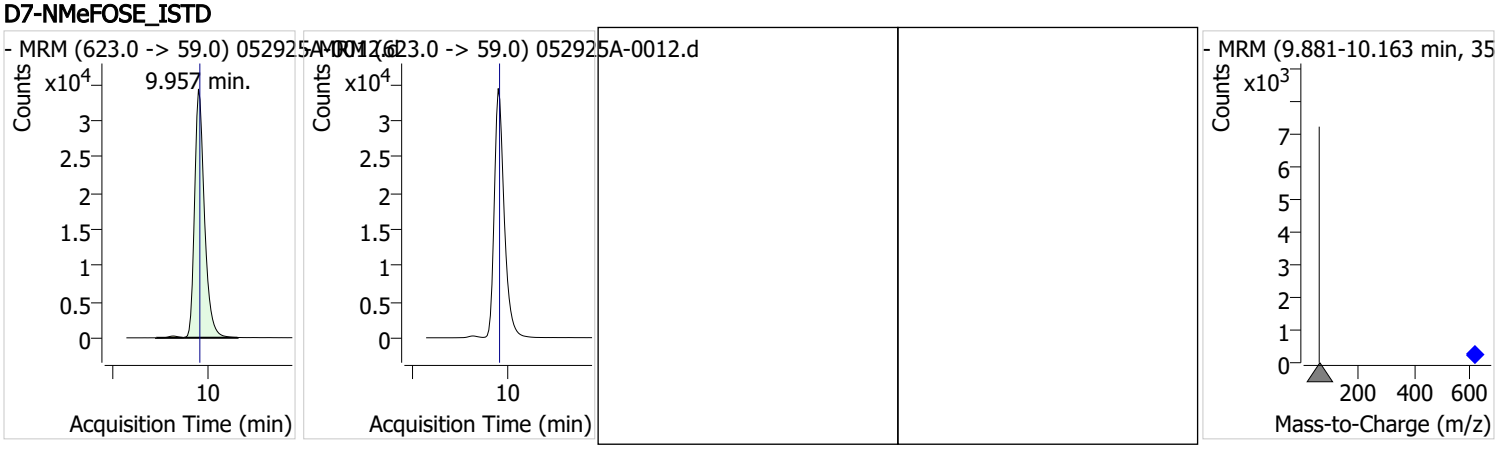
NMeFOSE



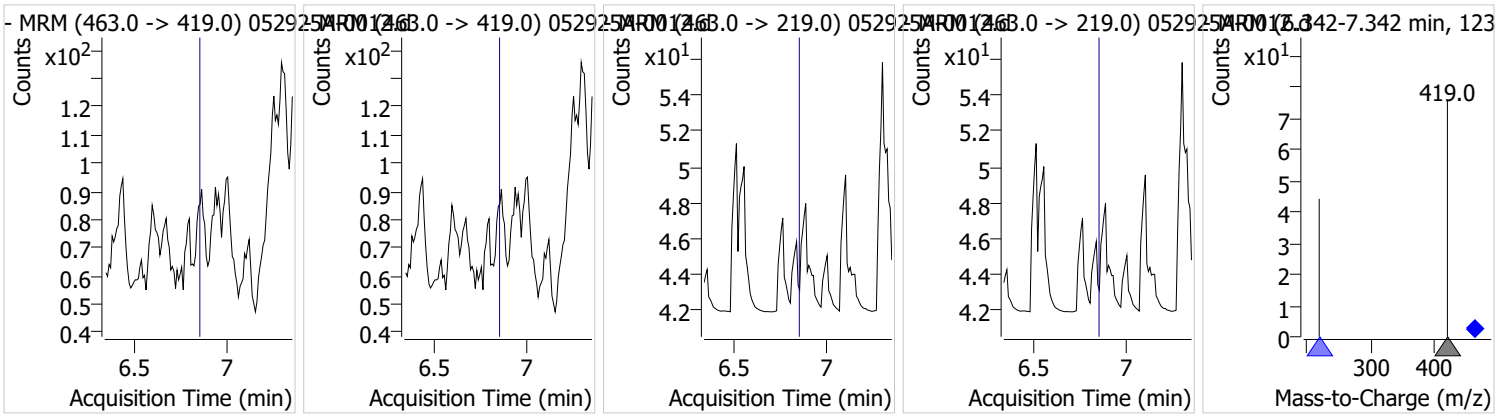
PFHxS



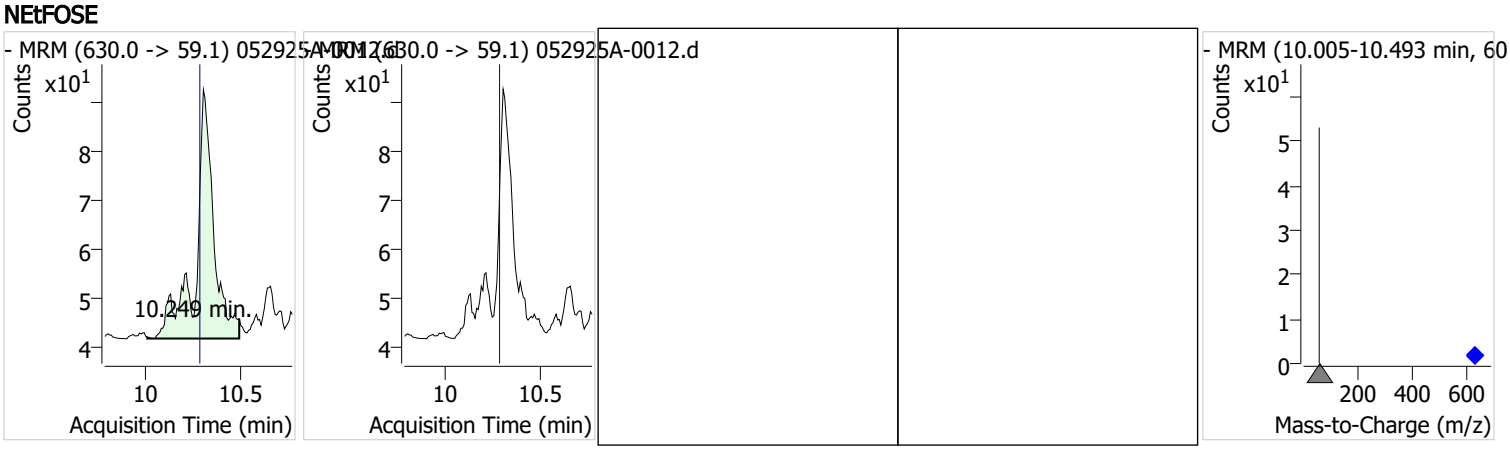
D7-NMeFOSE_ISTD



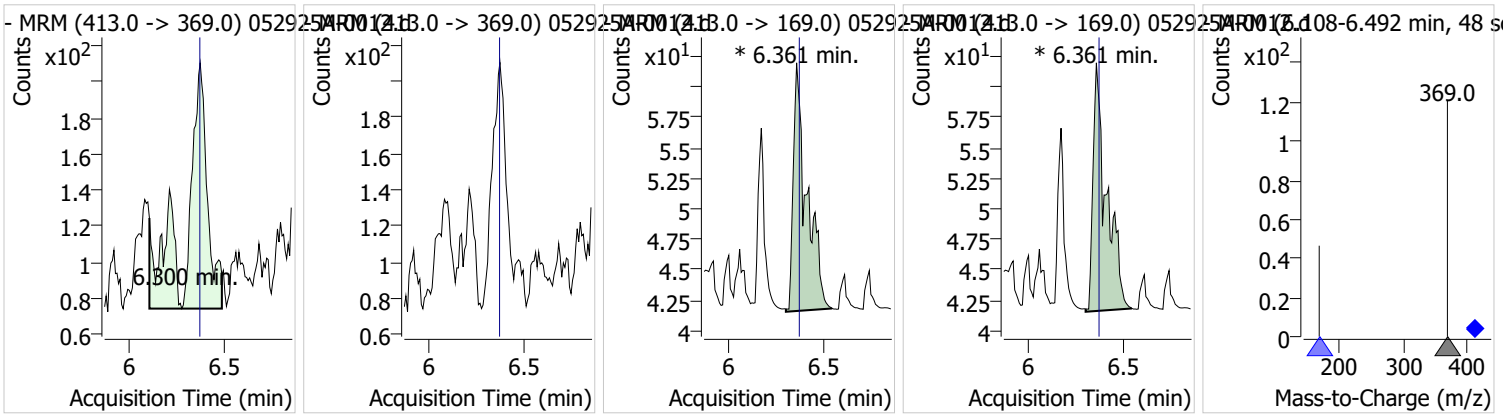
PFNA



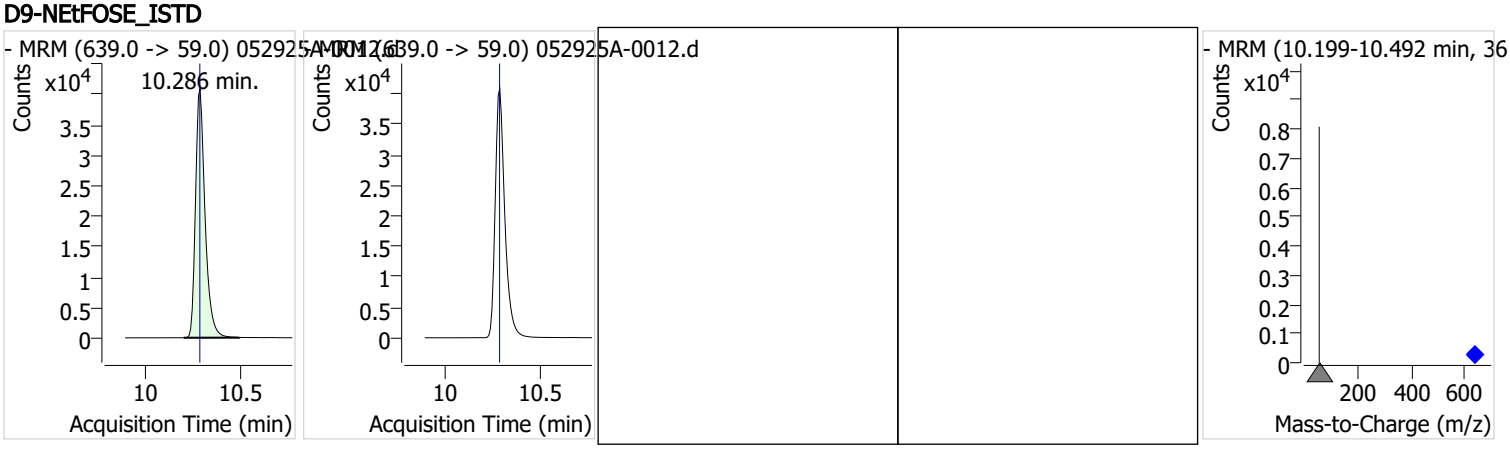
NEtFOSE



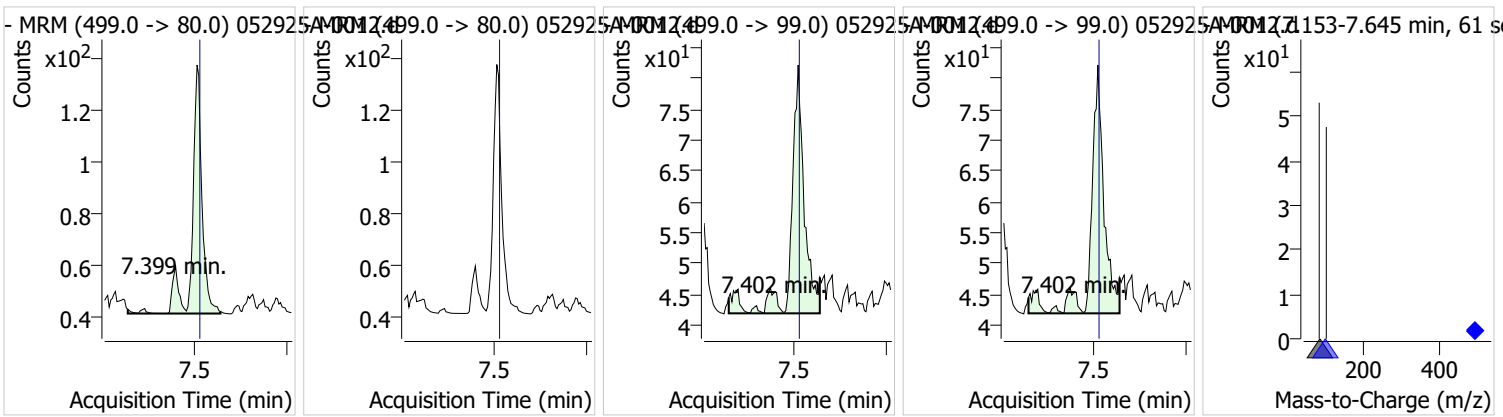
PFOA



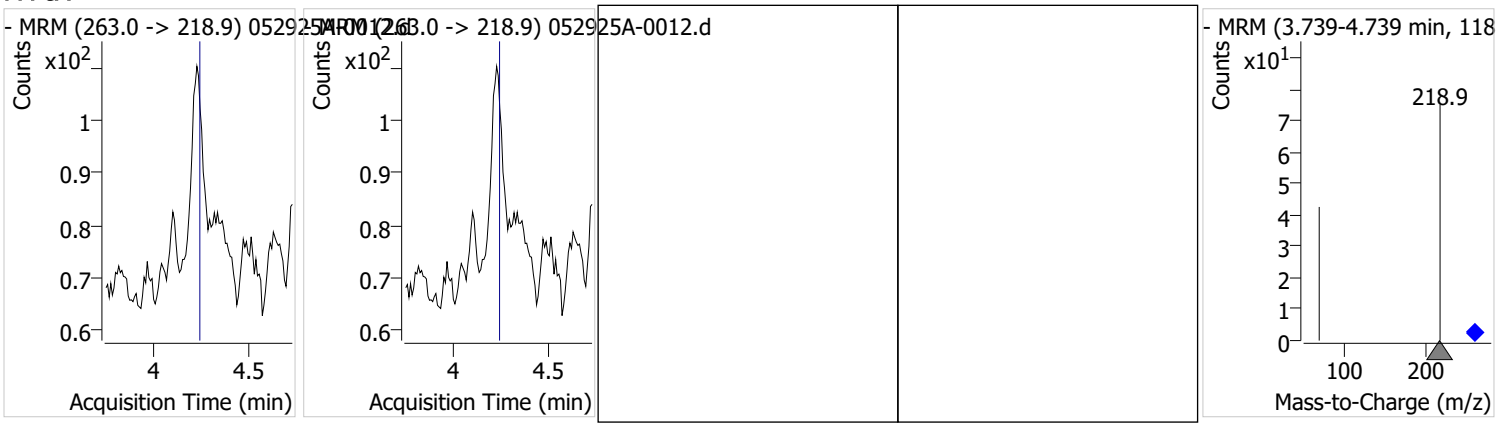
D9-NEtFOSE_ISTD



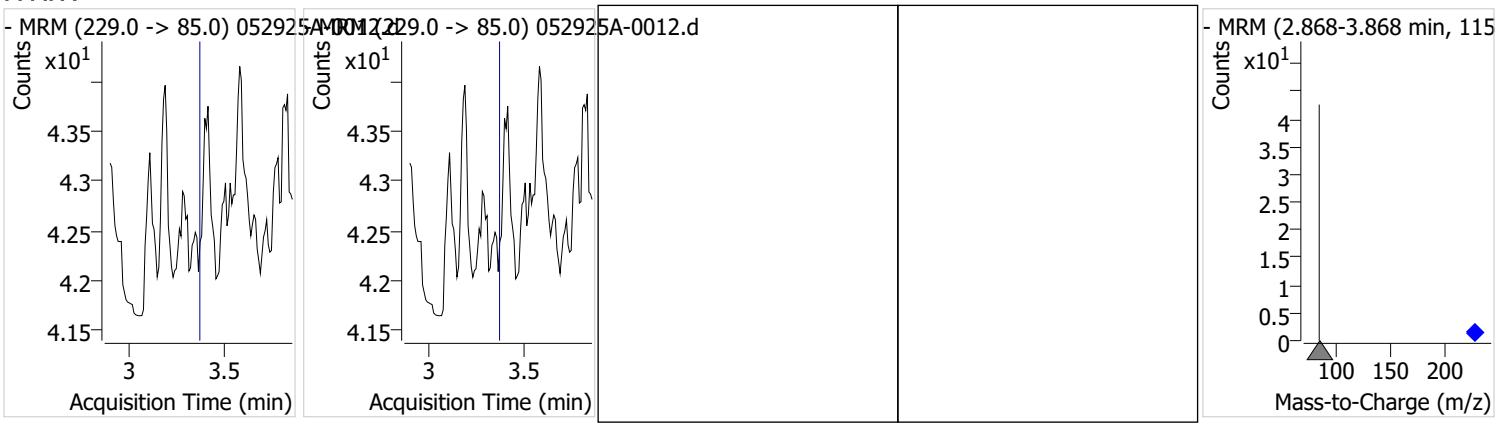
PFOS



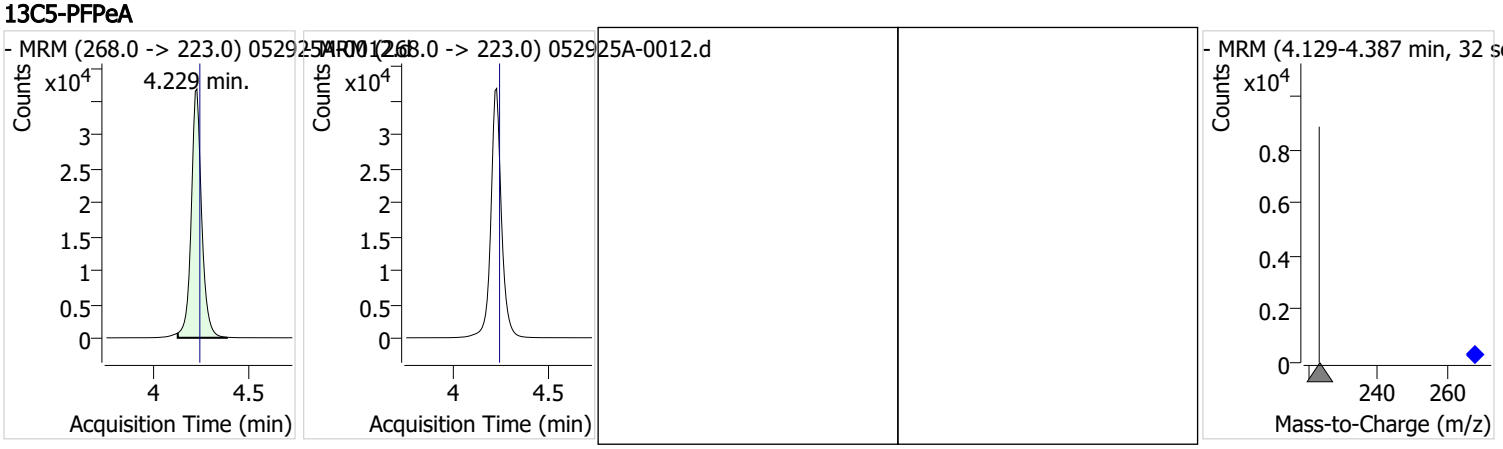
PFPeA



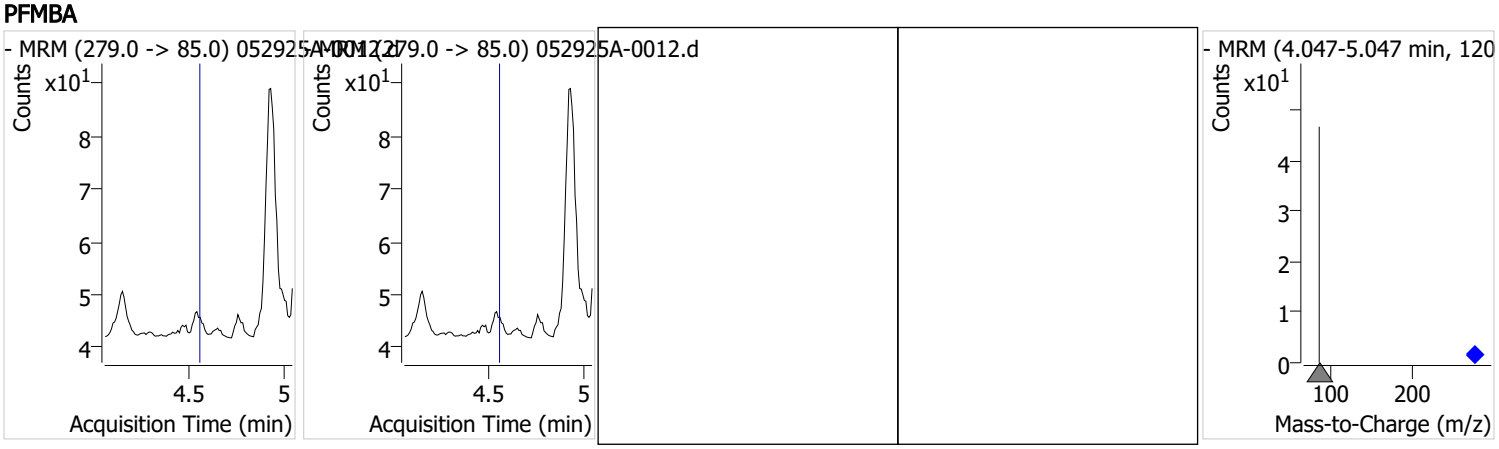
PFMPA



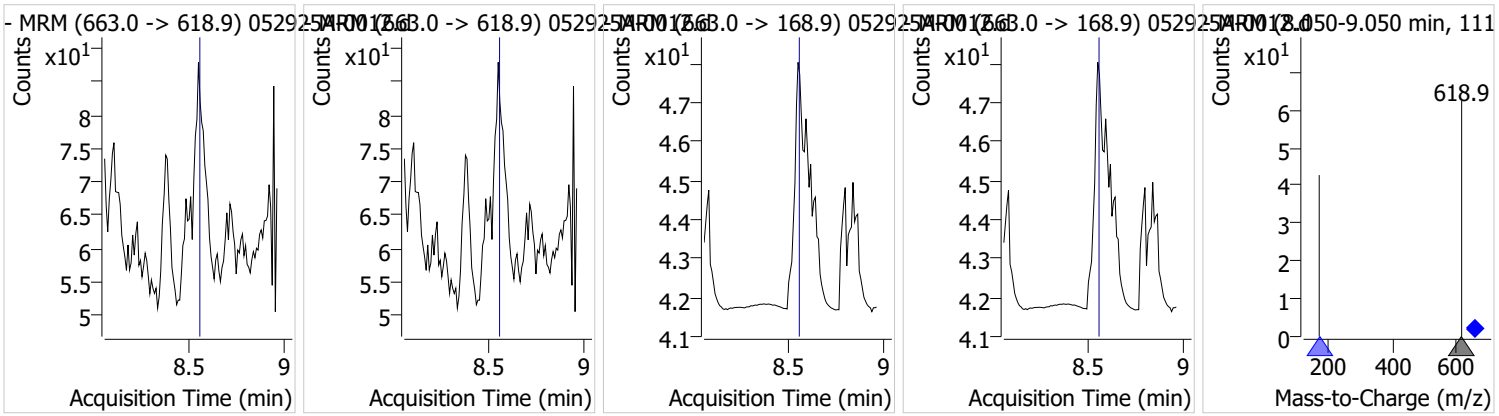
13C5-PFPeA



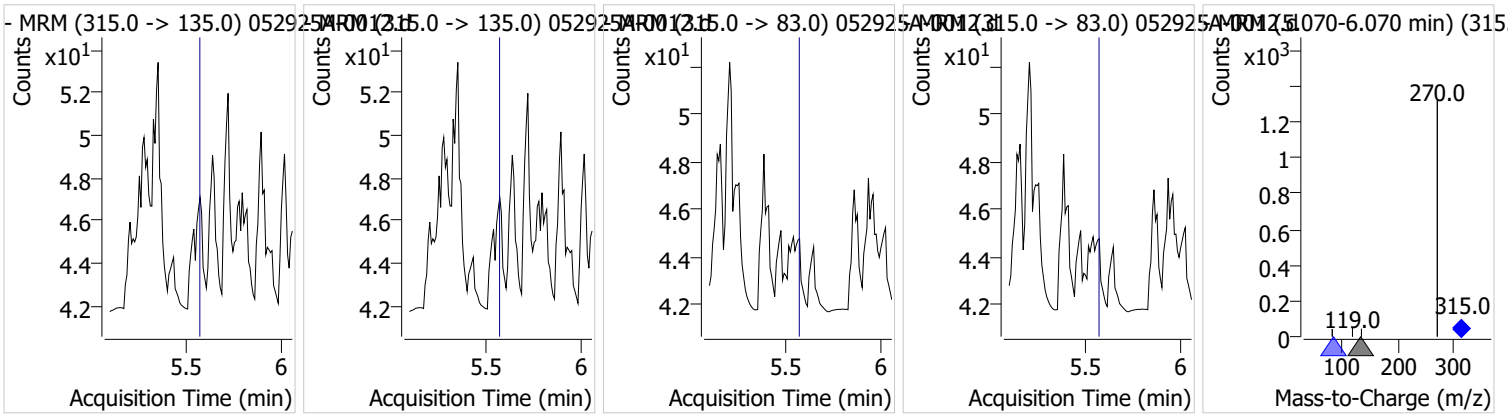
PFMBA



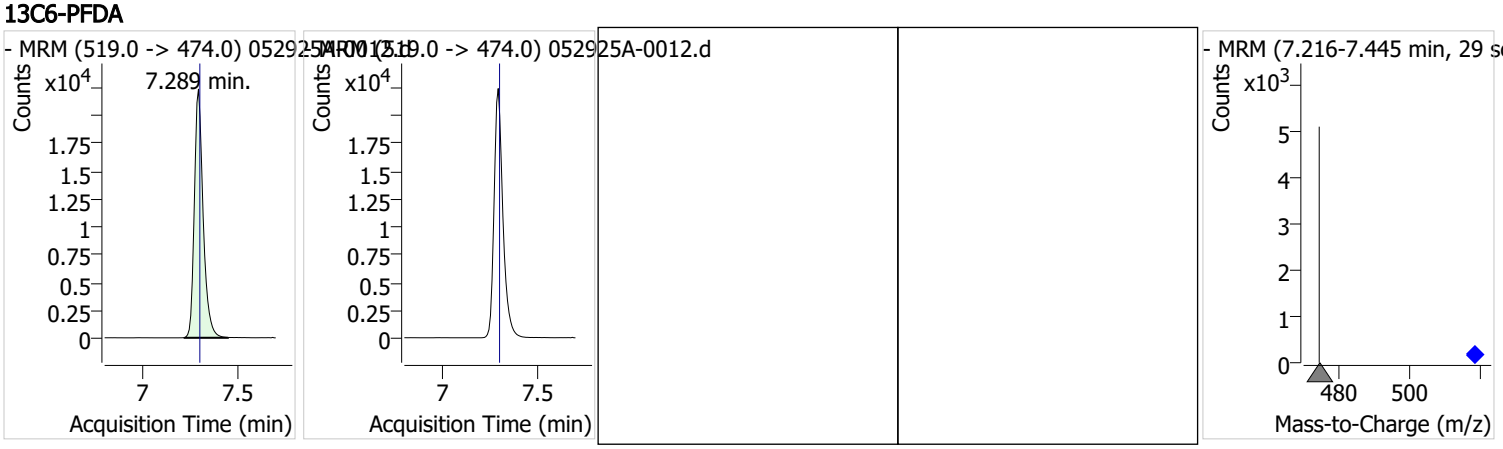
PFTrDA



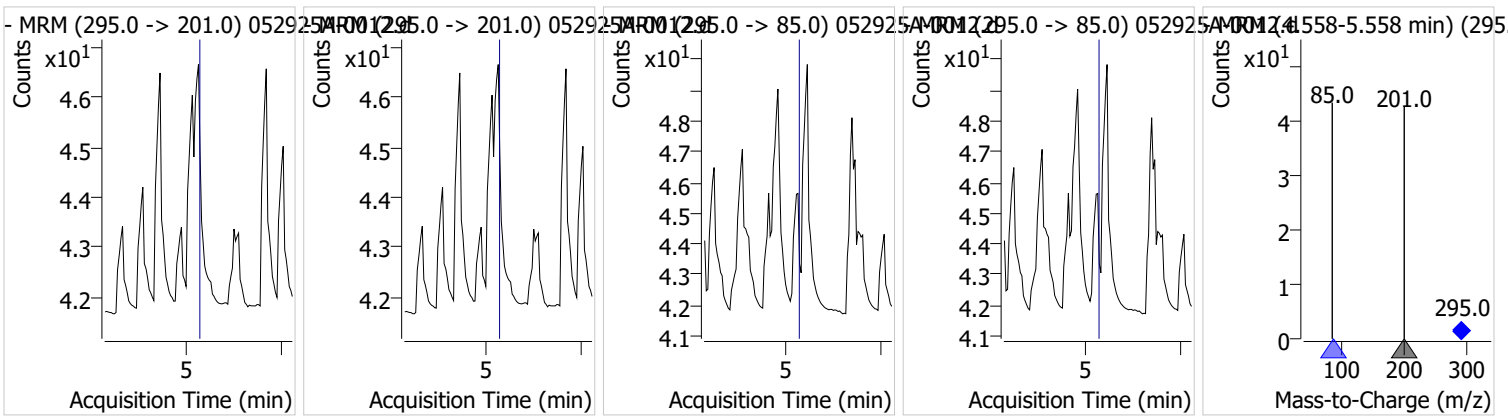
PFEESA



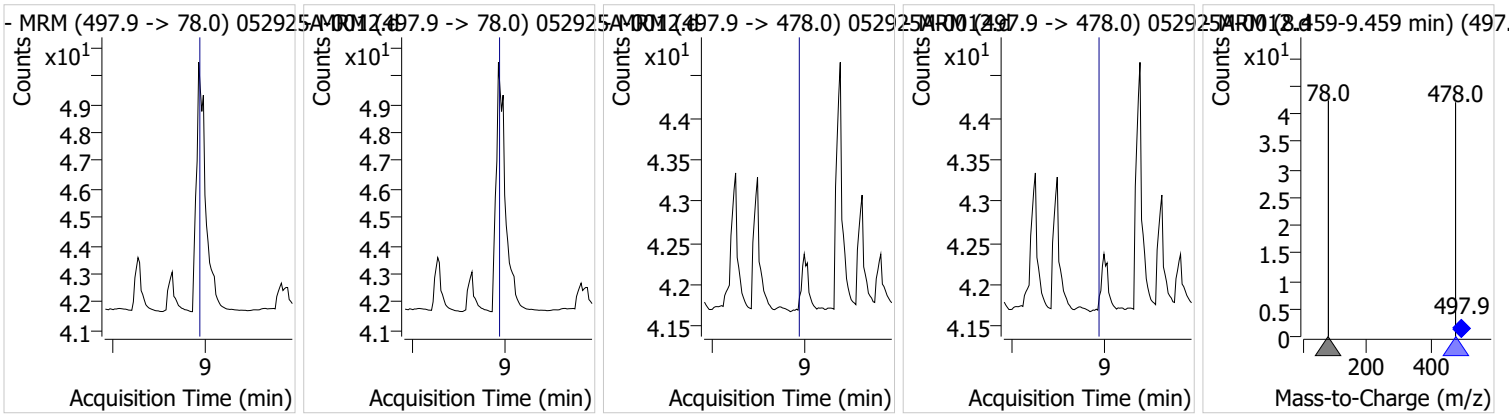
13C6-PFDA



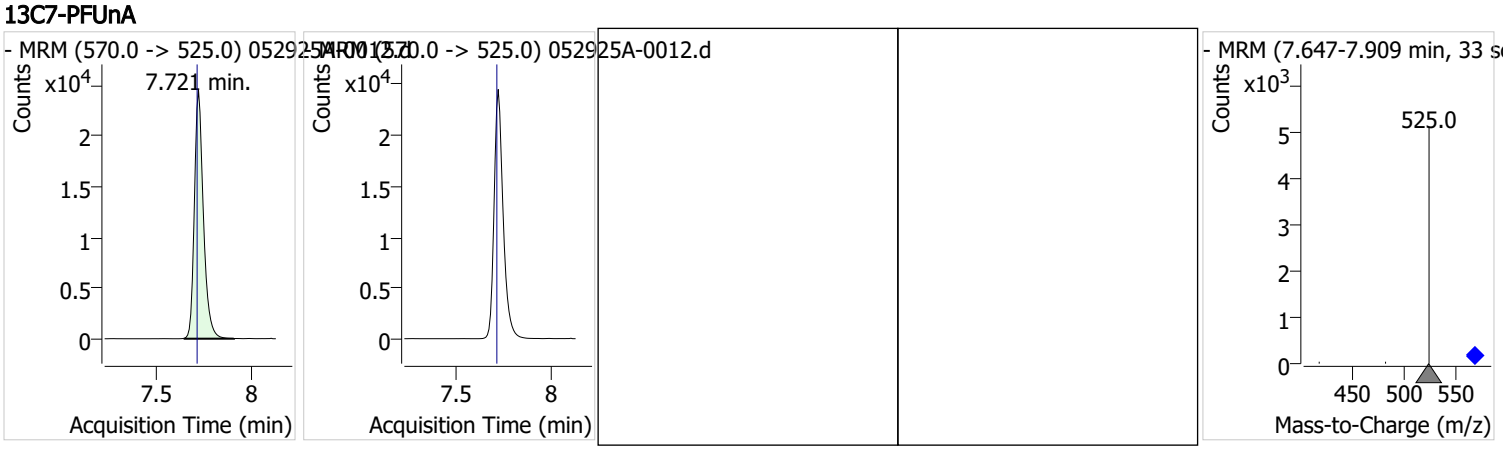
NFDHA



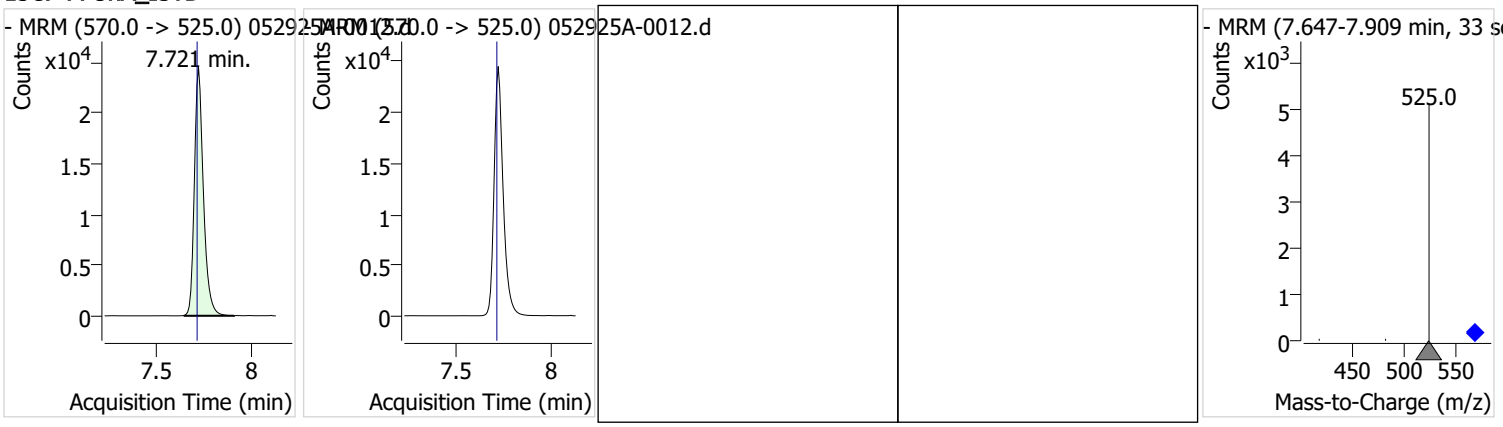
PFOSA



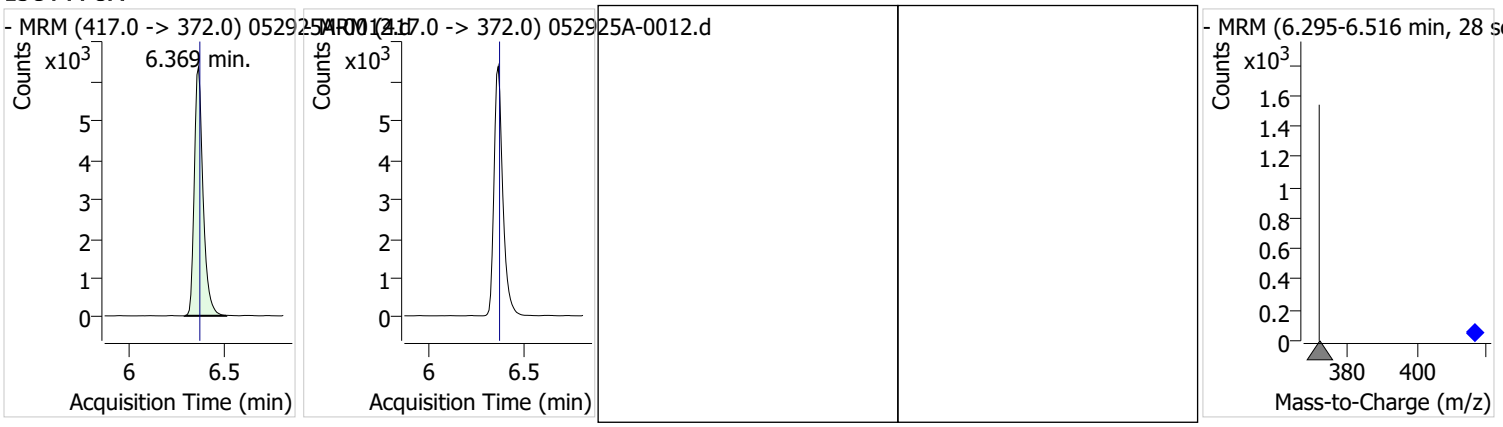
13C7-PFUnA



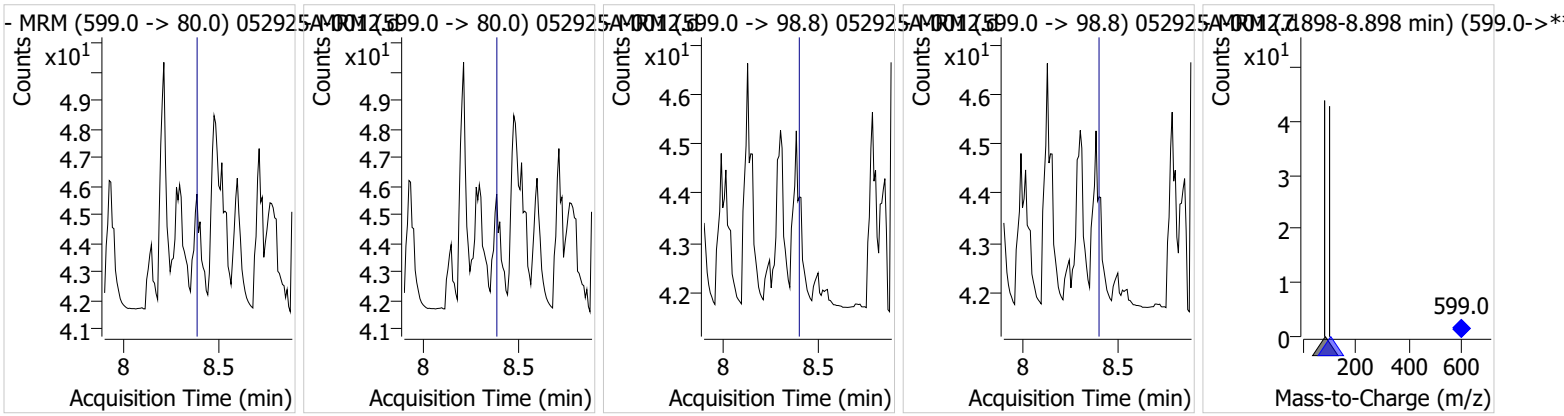
13C7-PFUnA_ISTD



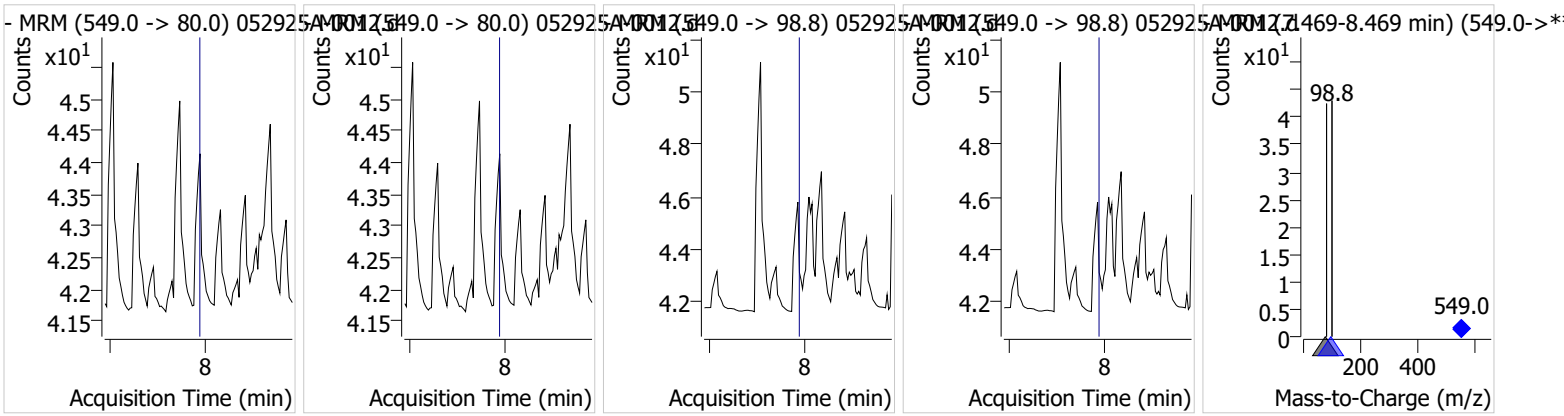
13C4-PFOA



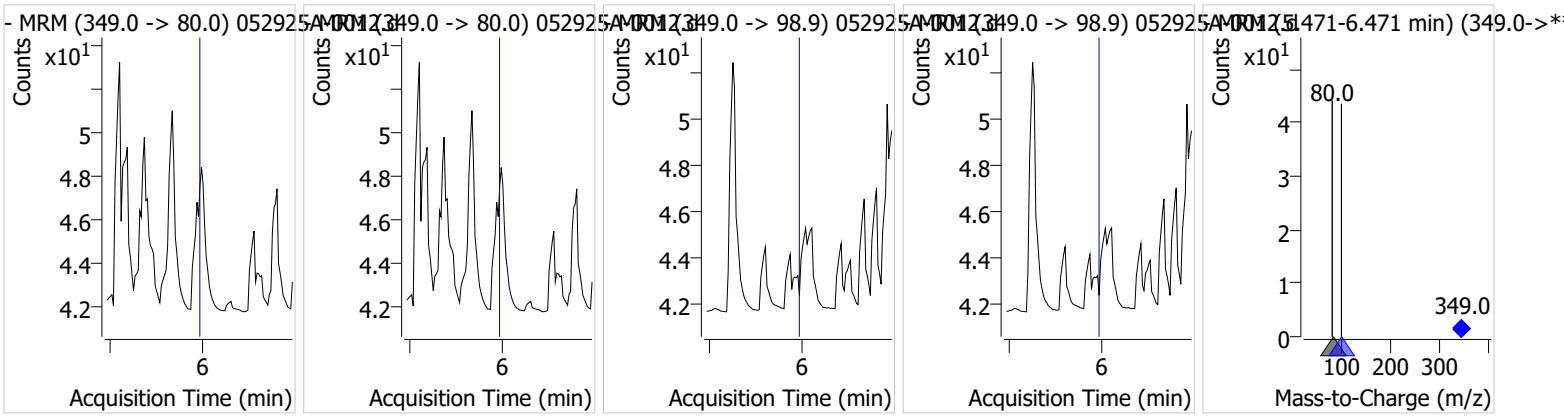
PFDS



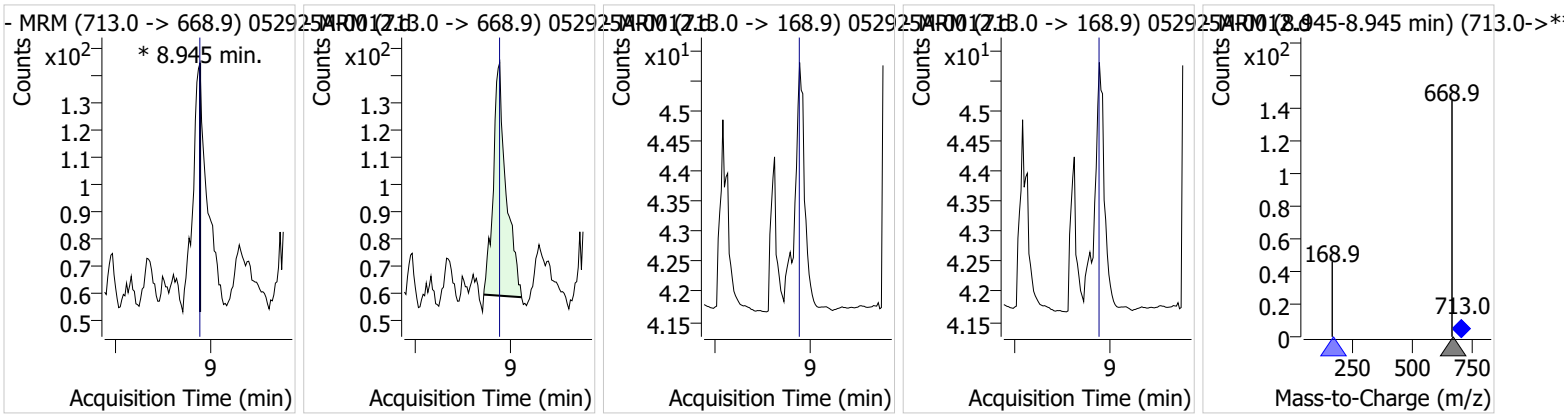
PFNS



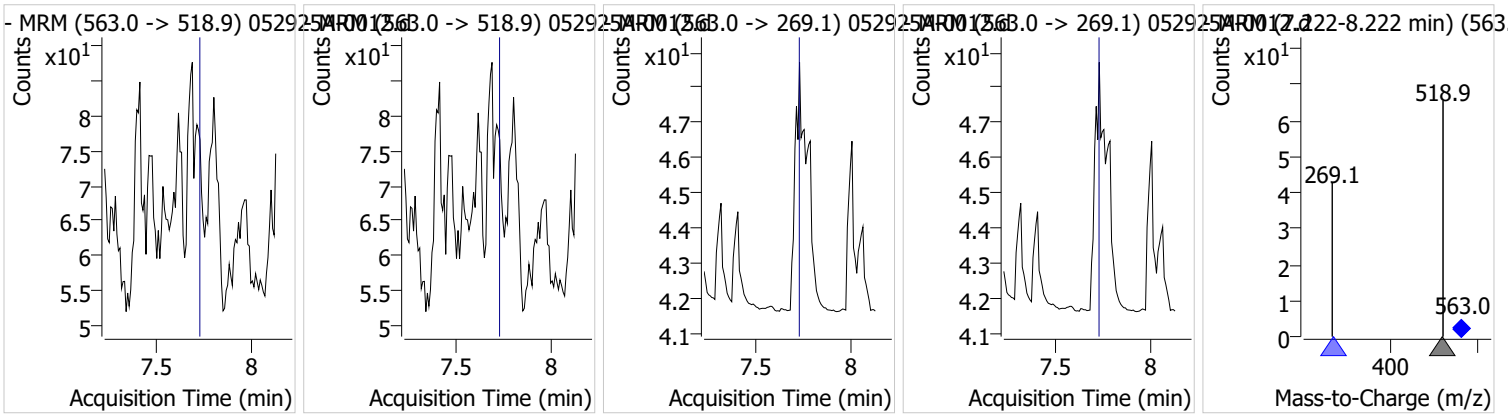
PFPeS



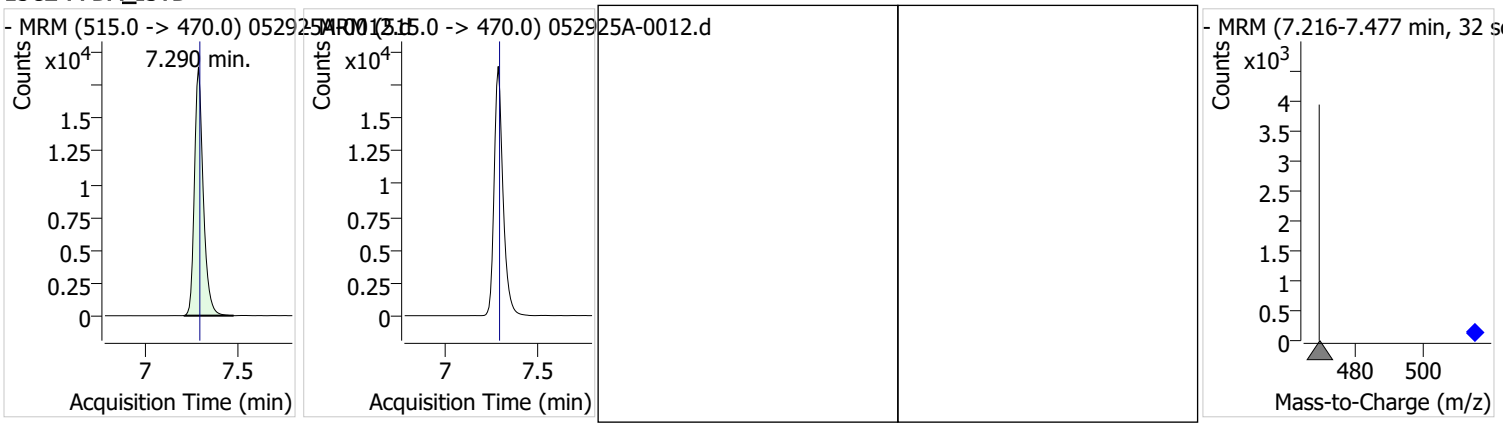
PFTeDA



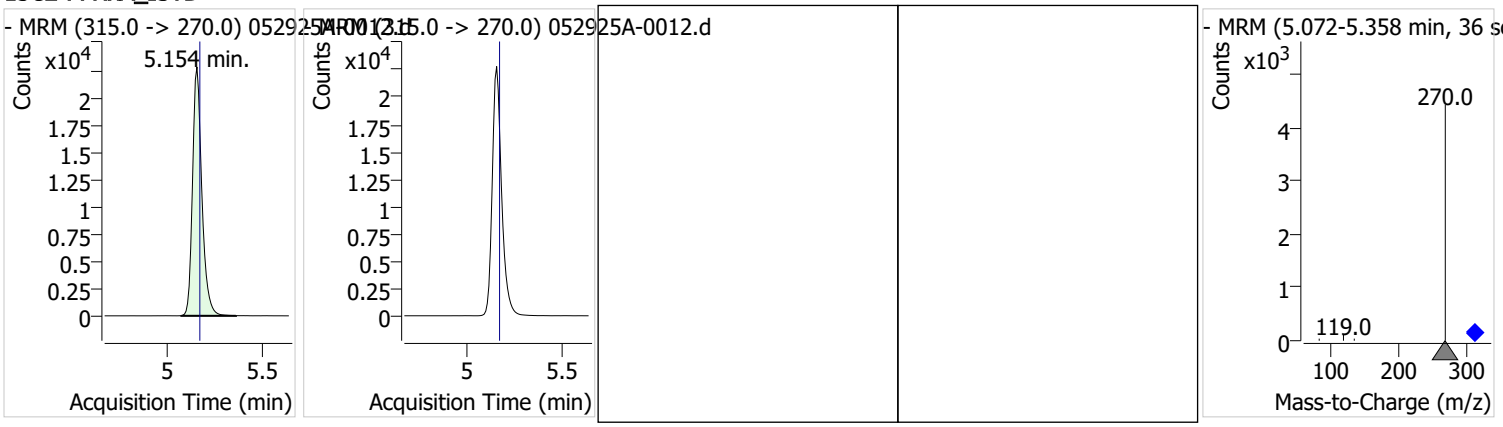
PFUnA



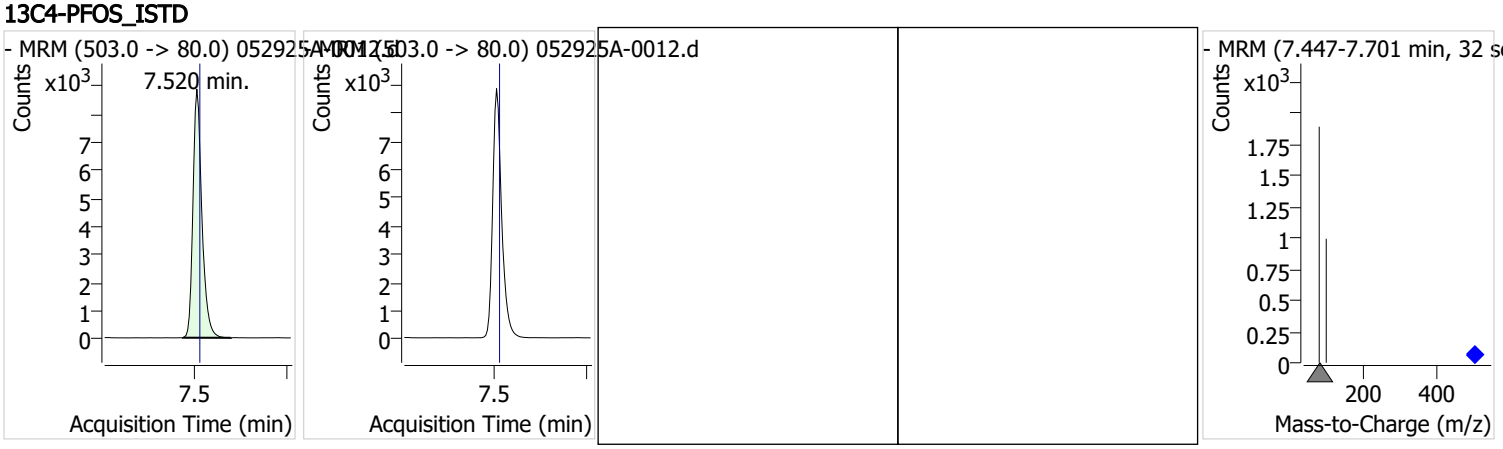
13C2-PFDA_ISTD



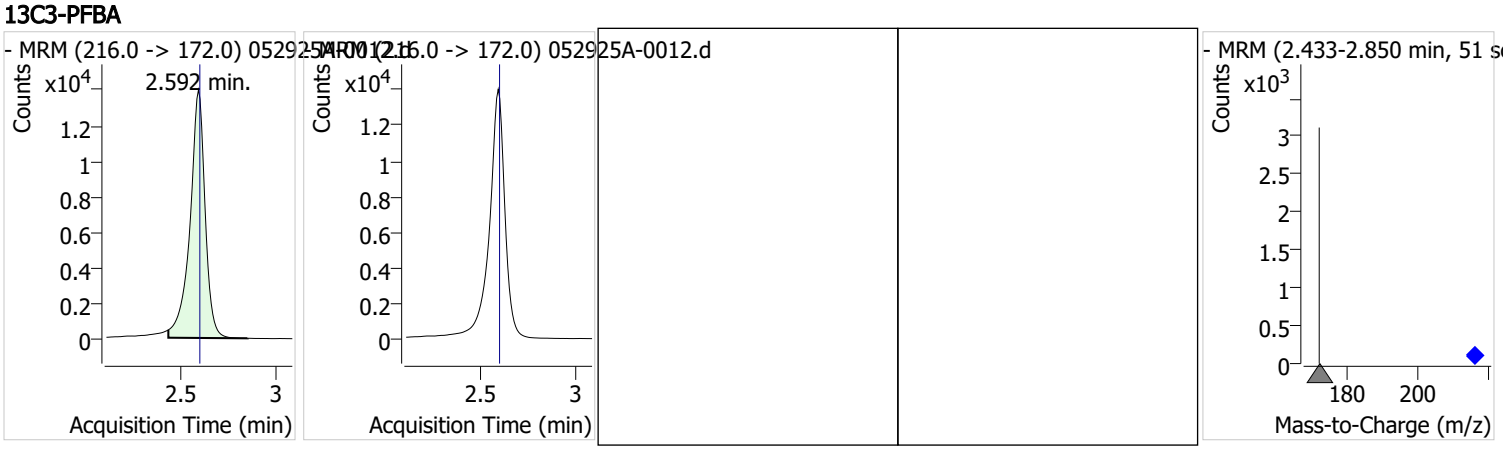
13C2-PFHxA_ISTD



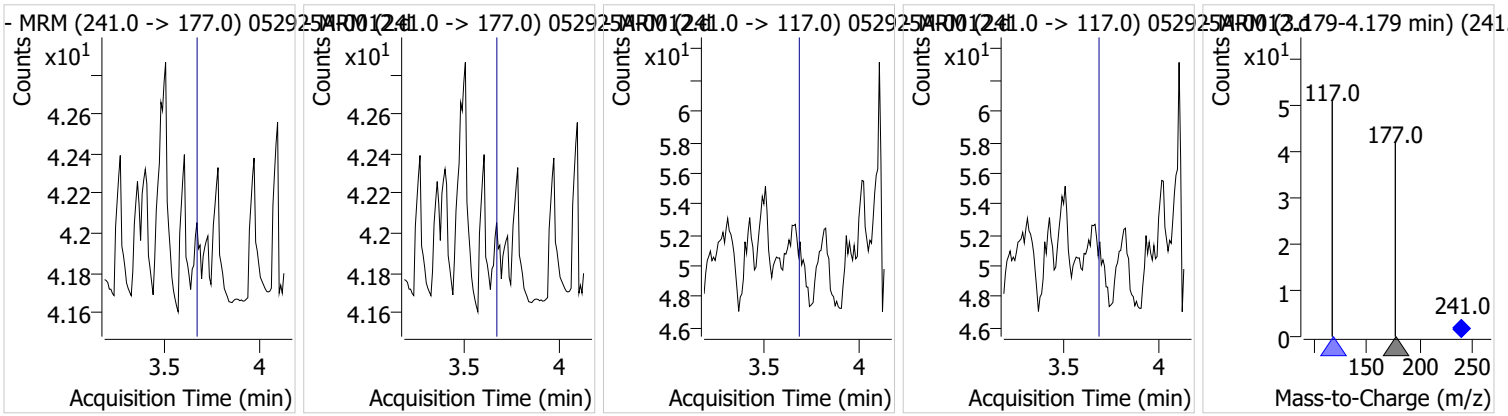
13C4-PFOS_ISTD



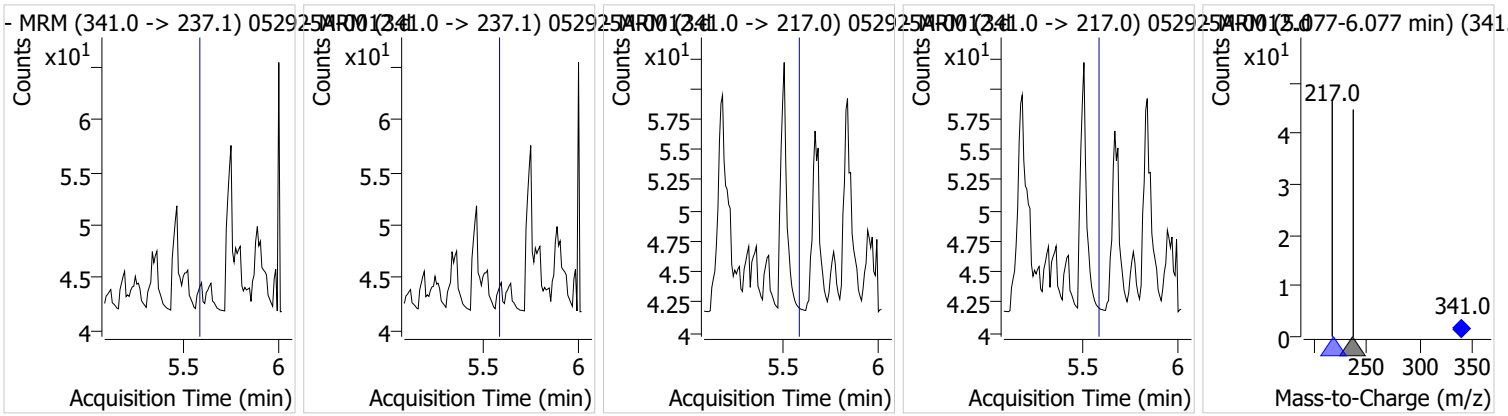
13C3-PFBA



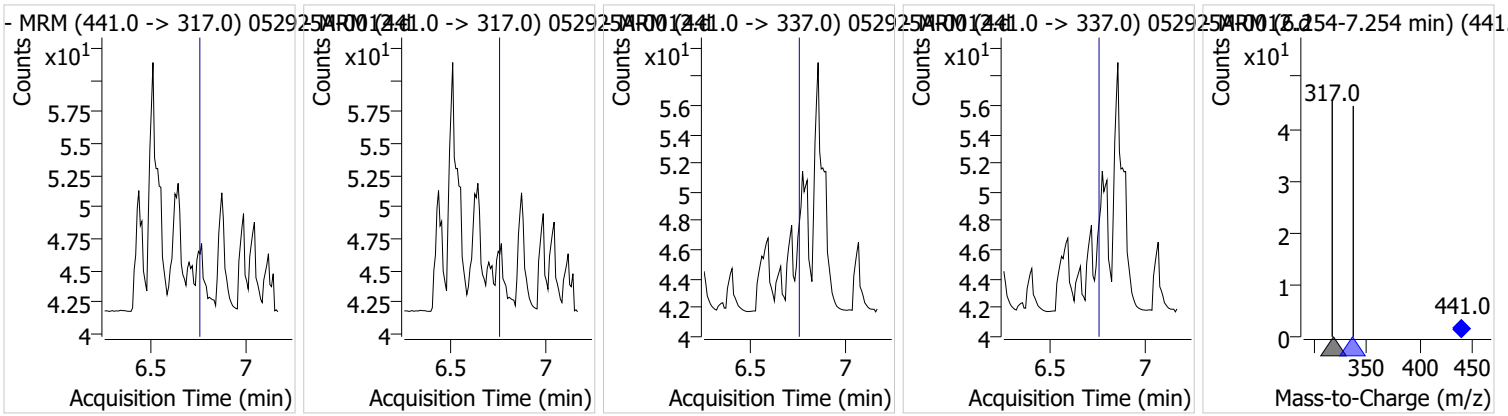
3:3FTCA



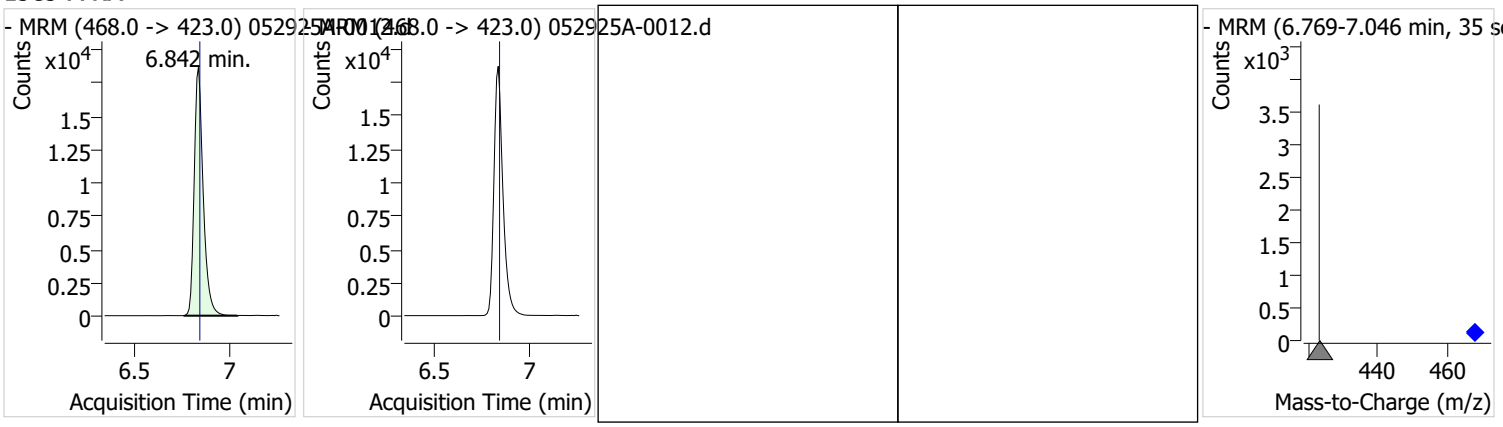
5:3FTCA



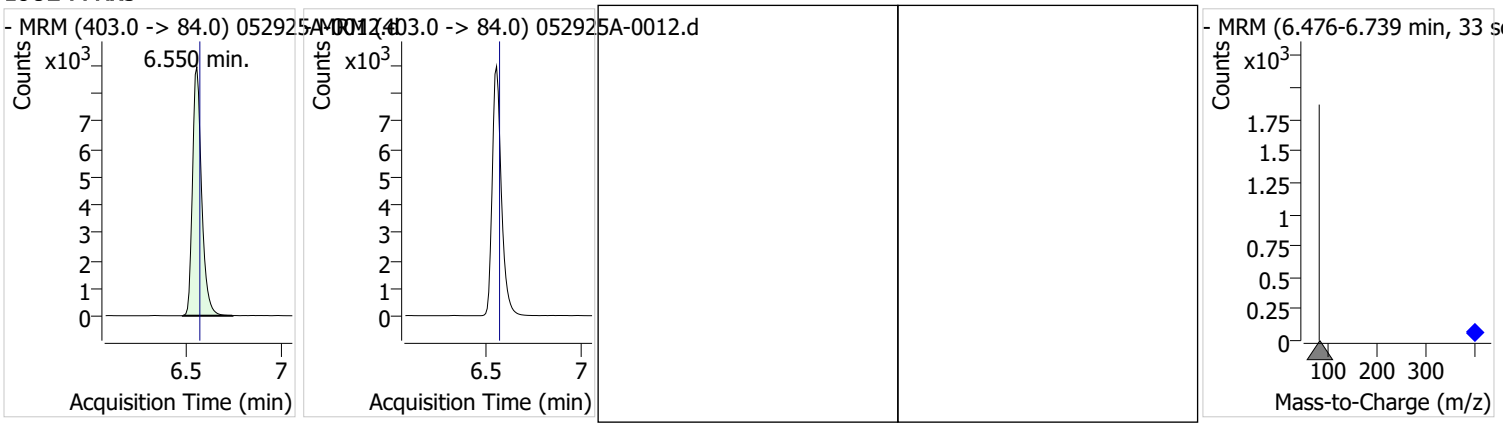
7:3FTCA



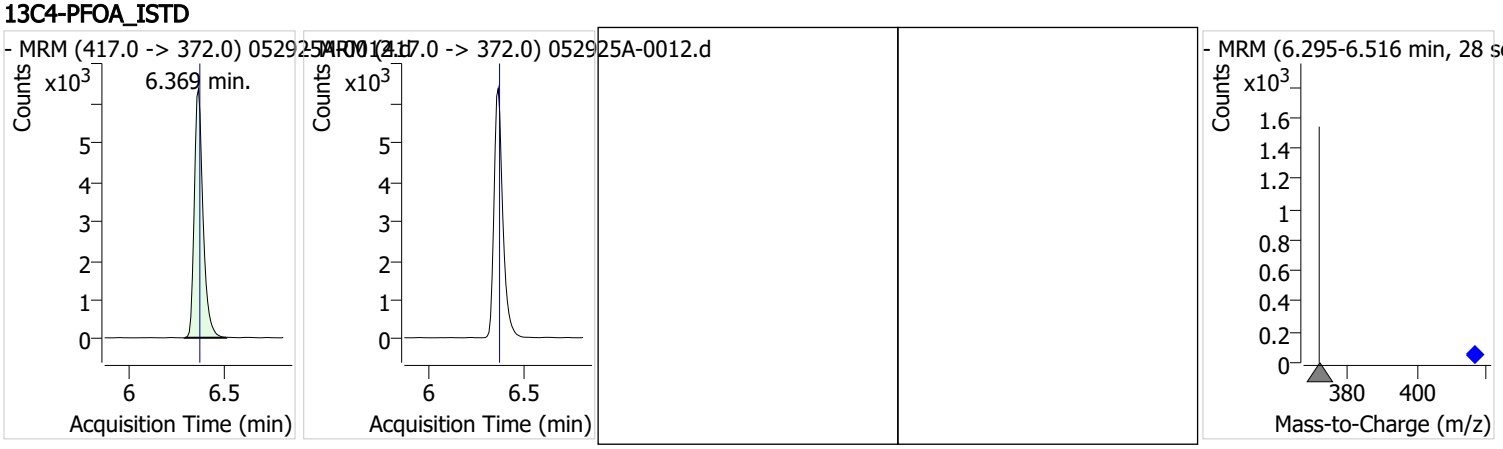
13C5-PFNA



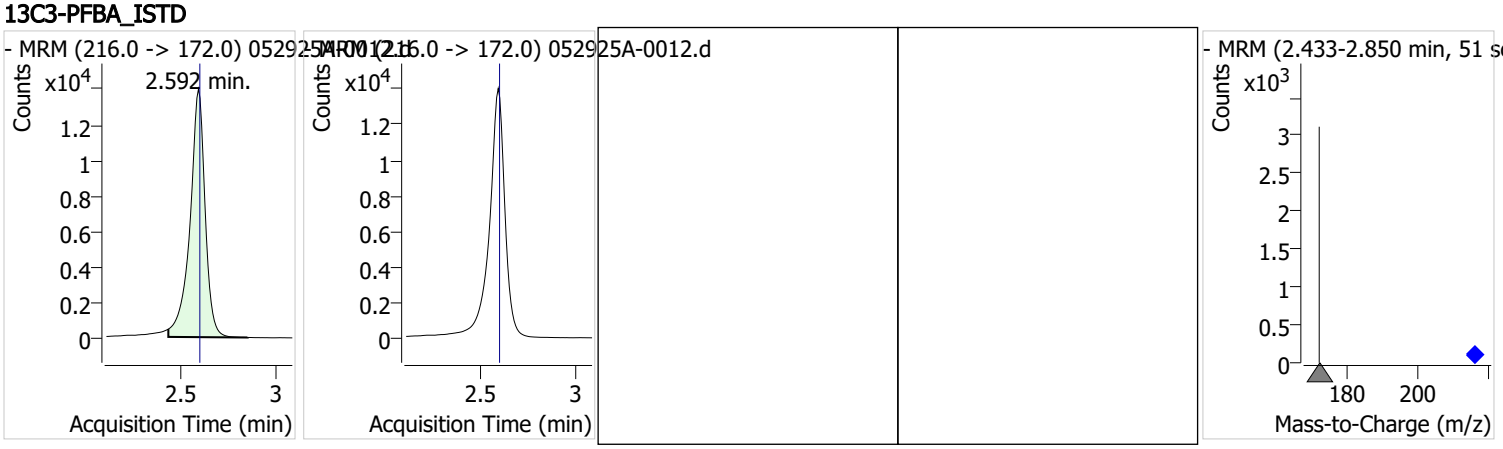
18O2-PFHxS



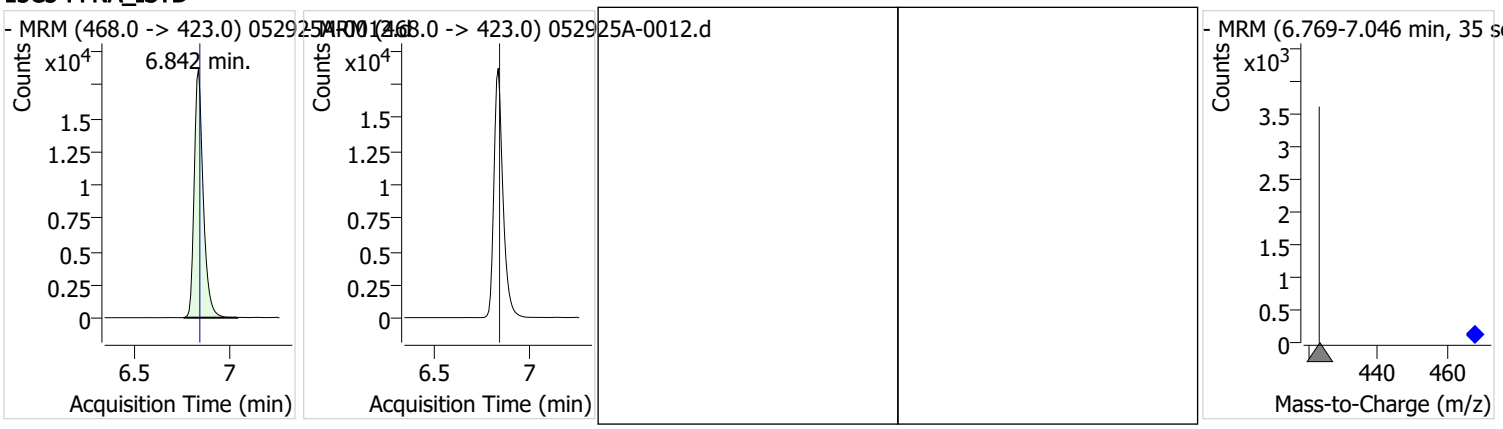
13C4-PFOA_ISTD



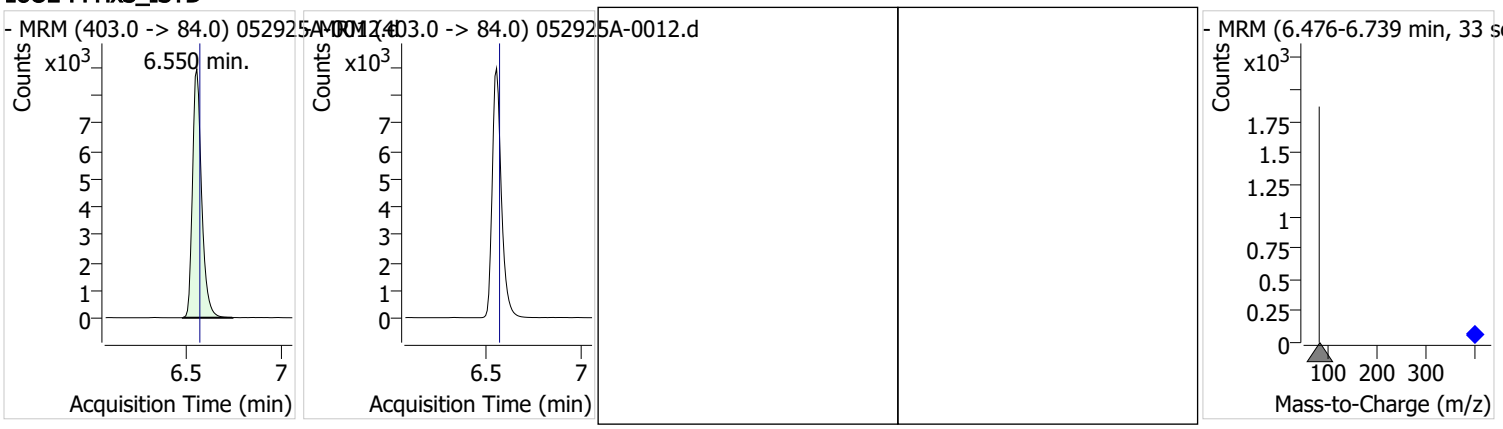
13C3-PFBA_ISTD



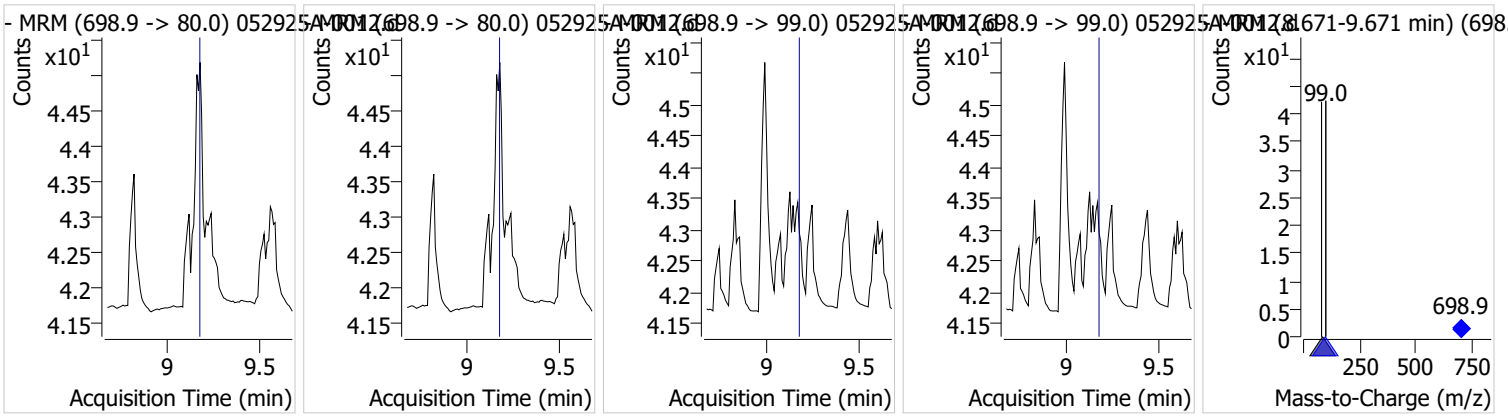
13C5-PFNA_ISTD



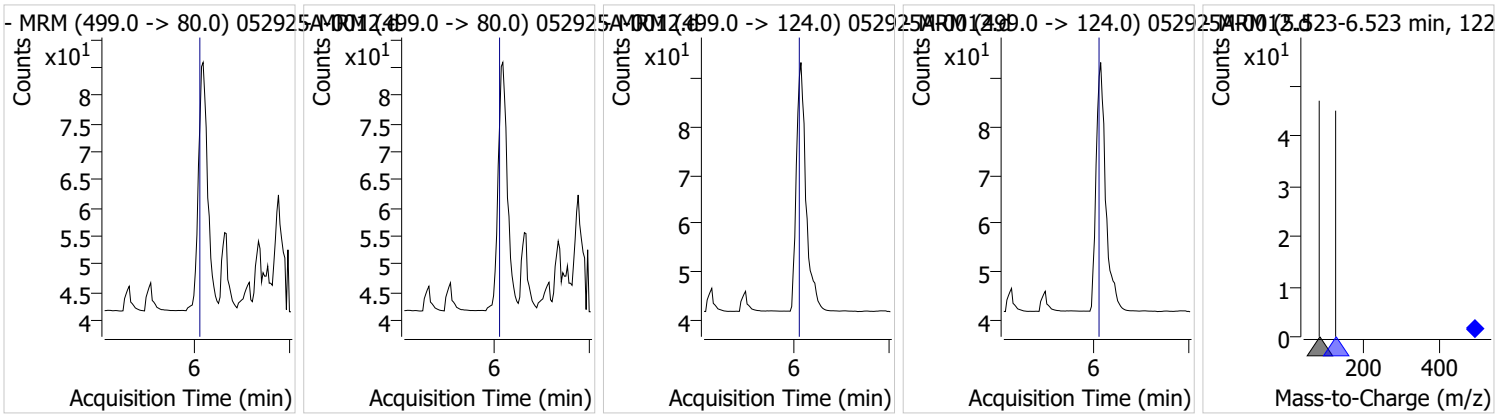
18O2-PFHxS_ISTD



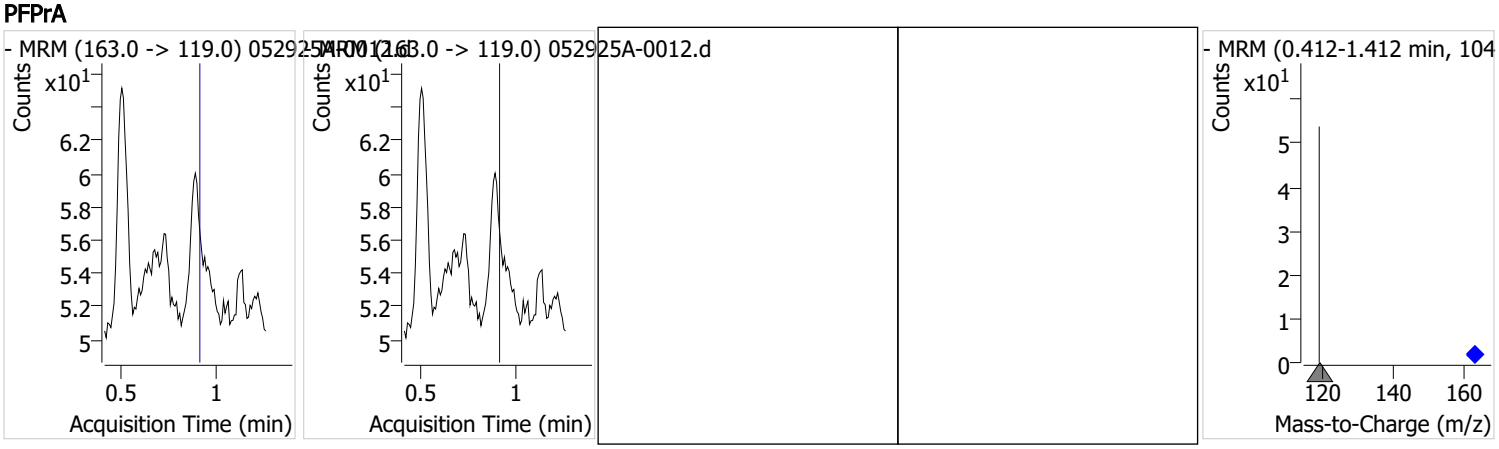
PFDoS



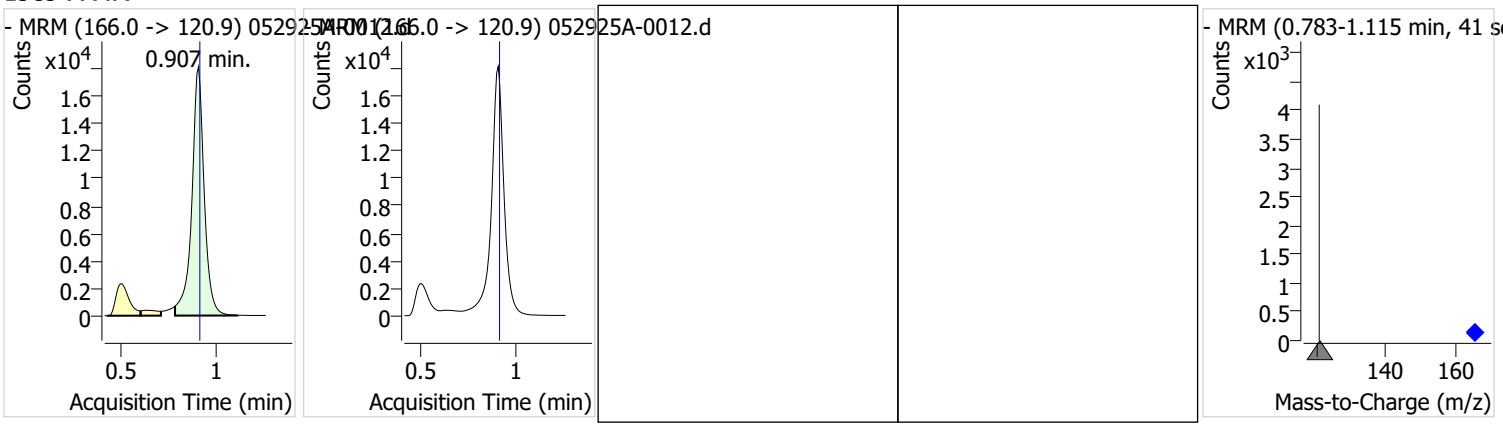
TDCA



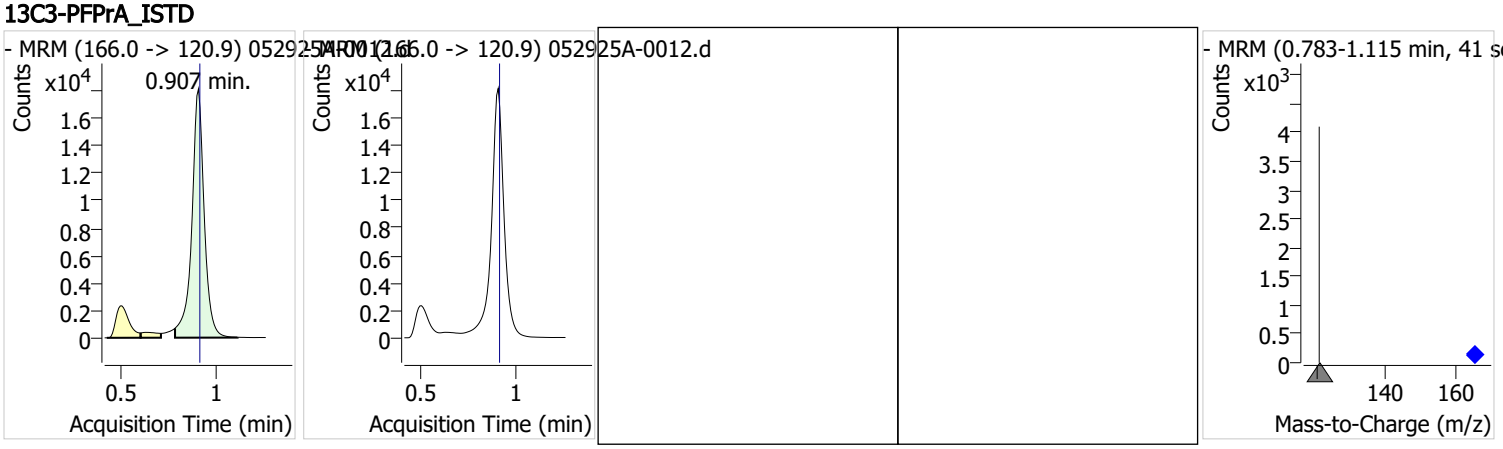
PFPrA



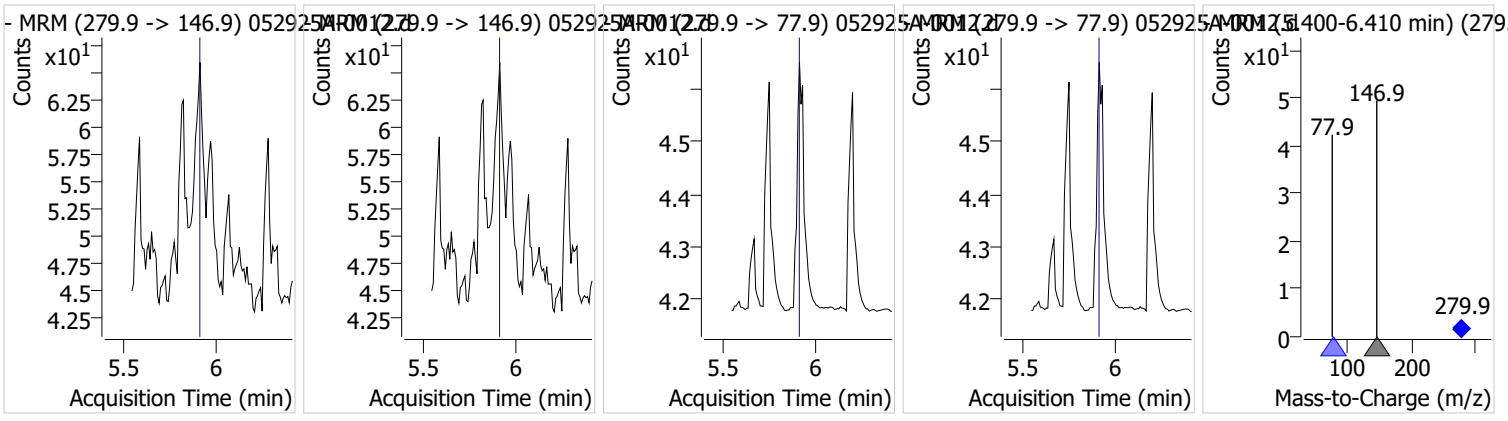
13C3-PFPrA



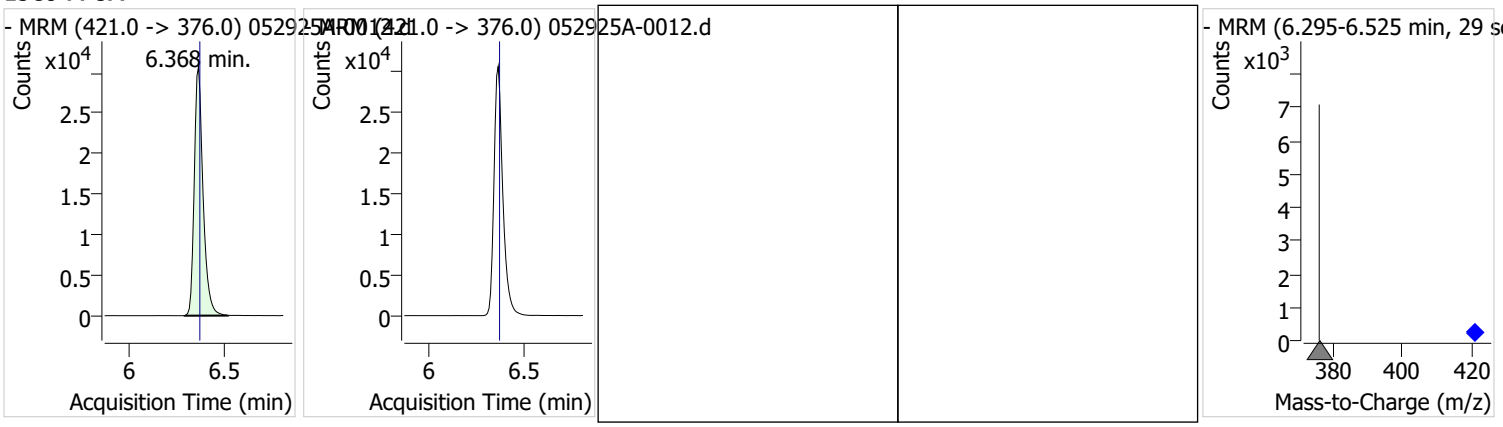
13C3-PFPrA_ISTD



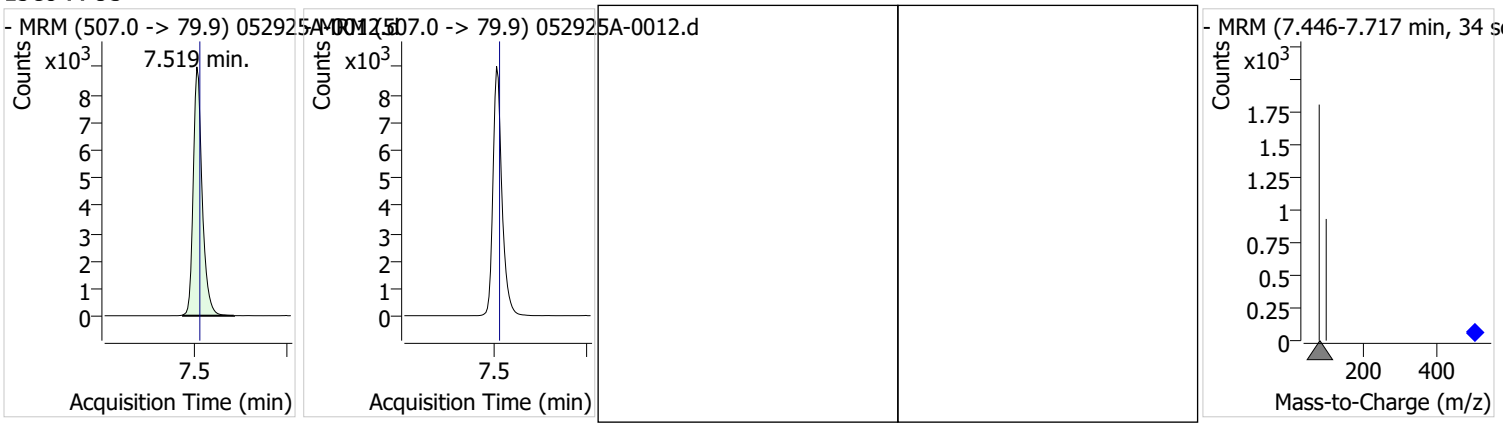
TFSI



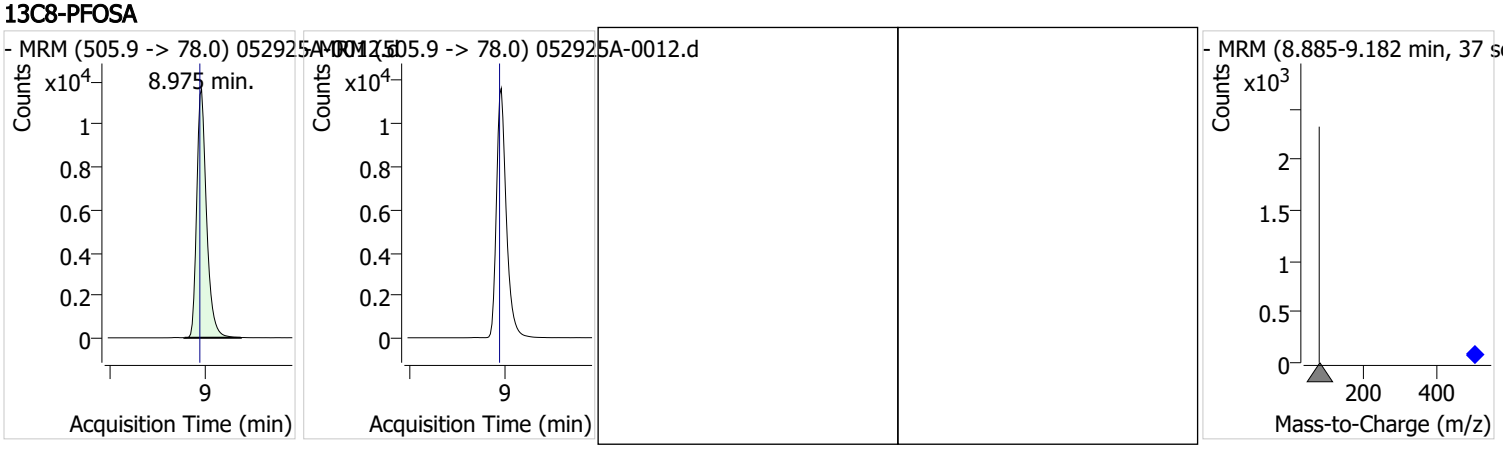
13C8-PFOA



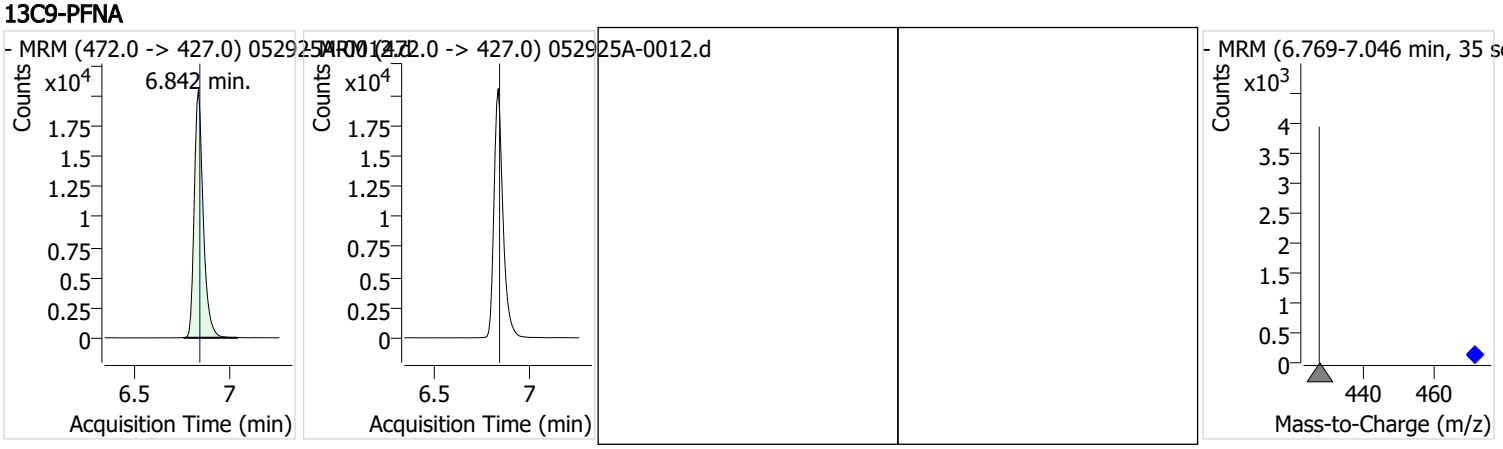
13C8-PFOS



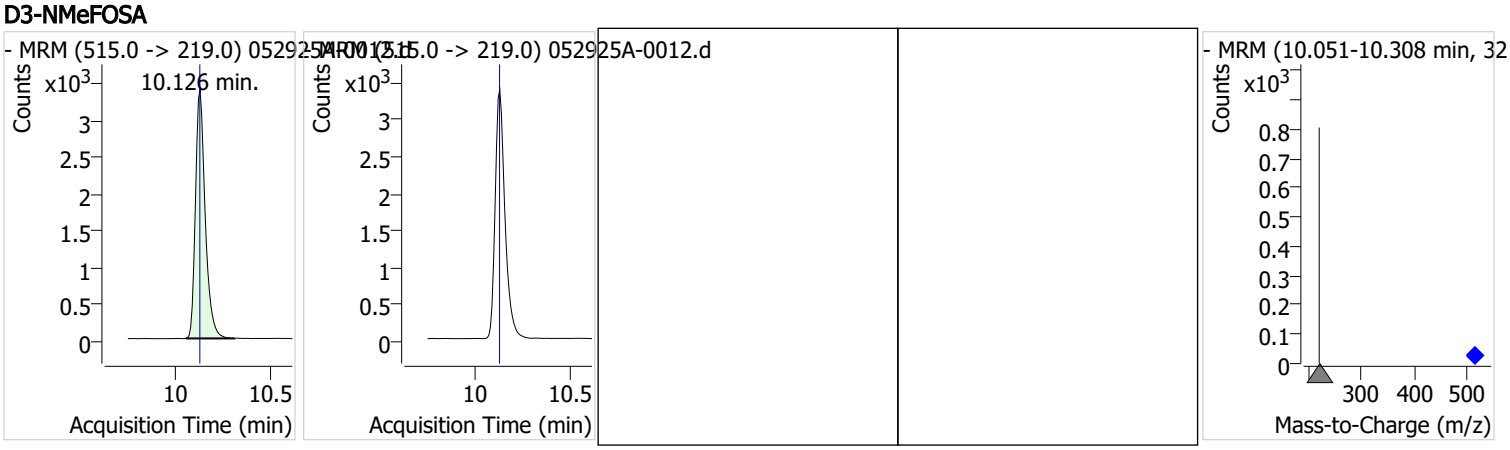
13C8-PFOSA



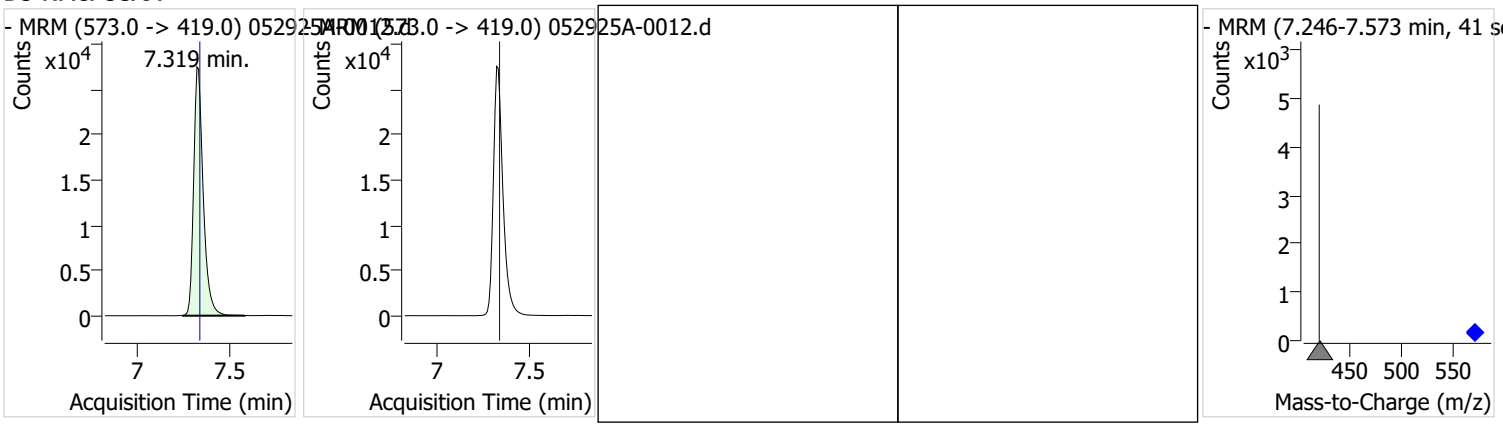
13C9-PFNA



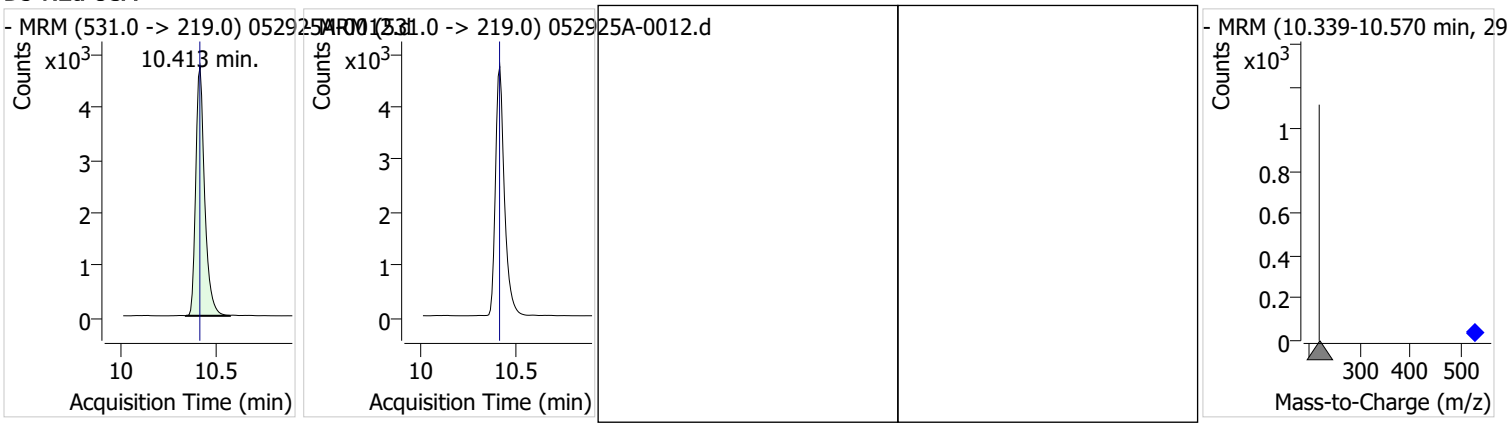
D3-NMeFOSA



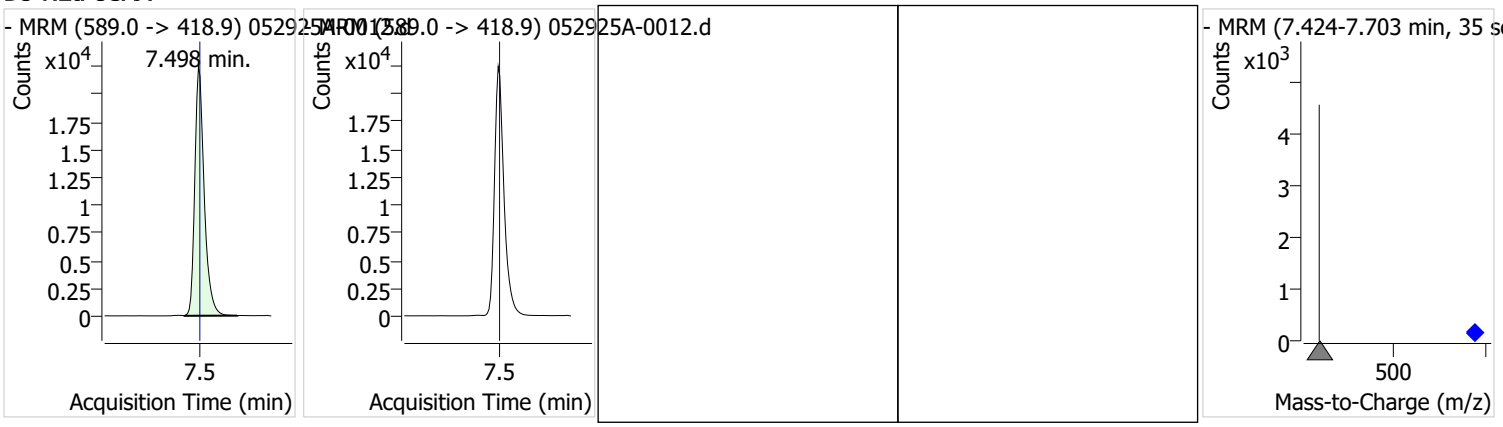
D3-NMeFOSAA



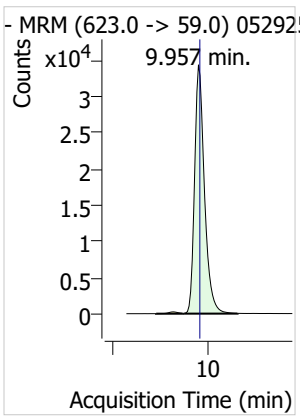
D5-NEtFOSA

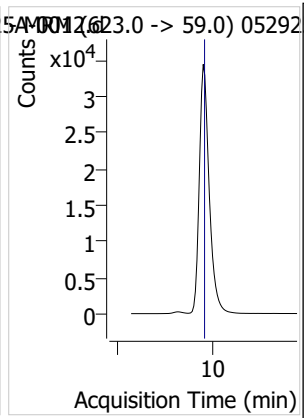


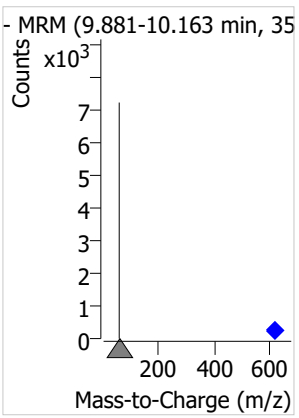
D5-NEtFOSAA



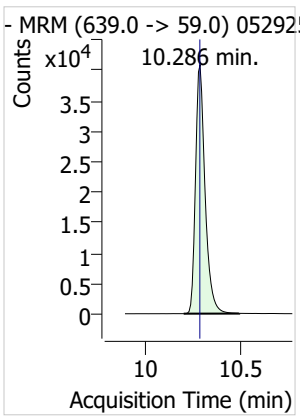
D7-NMeFOSE

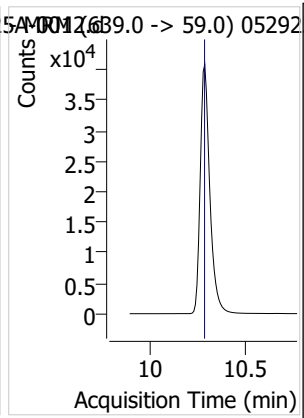


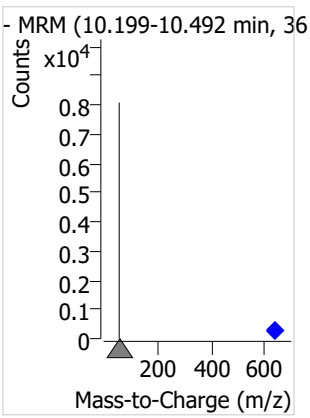




D9-NEtFOSE

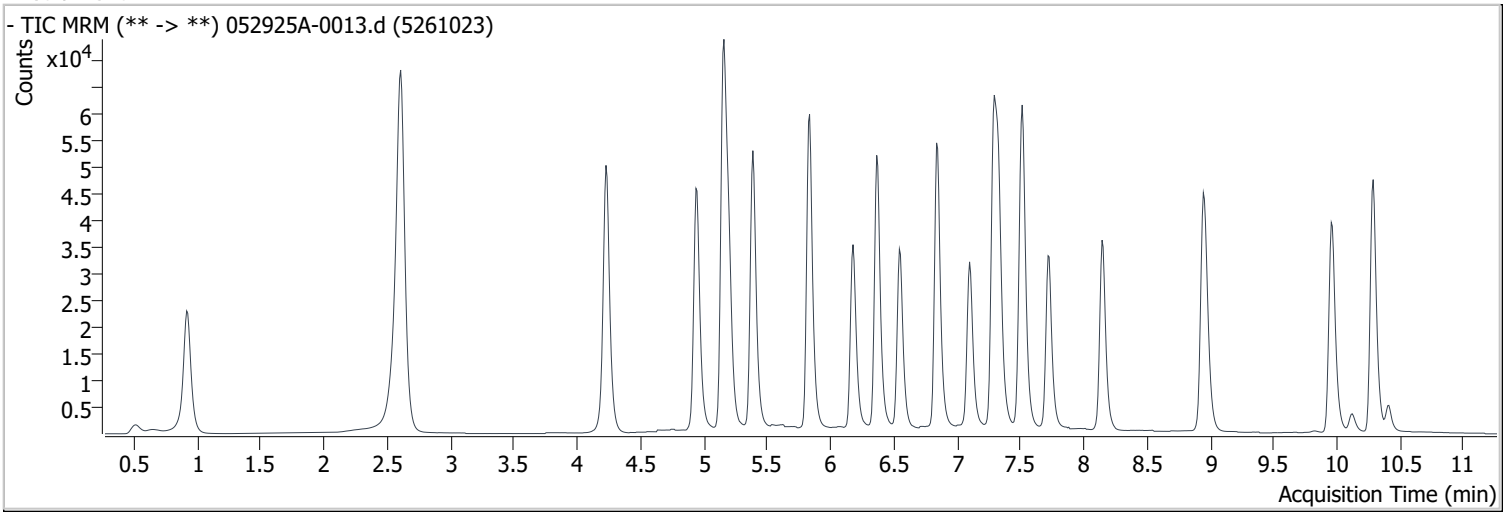






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-B 6320.batch.bin		
Analysis Time	5/30/2025 12:34 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 12:59 PM	**Data File**	052925A-0013.d
Sample Type	Blank	**Sample Name**	5261023
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6367	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	111904	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.938	47702	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	33052	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	192227	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	31122	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	257444	47583.10		13C3-PFBA_ISTD	2.608	109703	9.6420	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.528	38208	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.528	38208	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.528	38208	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.938	47702	13038.40		18O2-PFHxS_ISTD	6.550	41356	6.6987	ng/ml			
13C2-6:2FTS	6.180	33052	100612.33		18O2-PFHxS_ISTD	6.550	41356	6.1602	ng/ml			
13C2-8:2FTS	7.100	31122	9499.06		18O2-PFHxS_ISTD	6.550	41356	5.7788	ng/ml			
13C2-PFDoA	8.146	120219	35548.79		13C2-PFDA_ISTD	7.290	86731	1.1094	ng/ml			
13C2-PFDA	7.290	86731	6373.11					1.7839	ng/ml			
13C2-PFHxA	5.154	107567	3745.23					3.4899	ng/ml			
13C2-PFTeDA	8.944	127164	13287.67		13C2-PFDA_ISTD	7.290	86731	1.0444	ng/ml			
13C4-PFOS	7.529	40549	39230.67					3.6786	ng/ml			
13C3-HFPODA	5.394	111904	16888.92		13C2-PFHxA_ISTD	5.154	107567	9.7369	ng/ml			
13C3-PFBS	5.205	66857	222910.58		18O2-PFHxS_ISTD	6.550	41356	2.3678	ng/ml			
13C3-PFHxS	6.551	45715	60334.61		18O2-PFHxS_ISTD	6.550	41356	2.3911	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.506	99334	-	ng/ml			
584.0 -> 526.0				*								

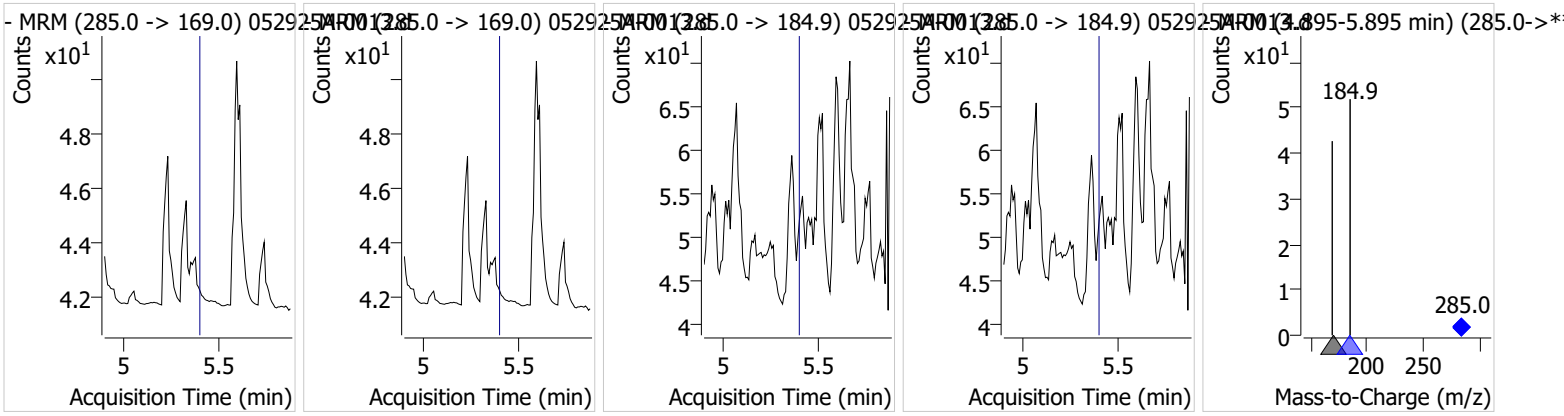
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	192227	5881.61		13C2-PFHxA_ISTD	5.154	107567	2.5165	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.327	127164	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.606	257444	-	ng/ml			
13C5-PFHxA	5.161	120366	12187.82		13C2-PFHxA_ISTD	5.154	107567	2.5207	ng/ml			
PFBS					13C3-PFBS_ISTD	5.205	66857	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.126	11695	-	ng/ml			
512.0 -> 169.0				*								
PFDA	7.200	0	0.00		13C6-PFDA_ISTD	7.289	96100	-	ng/ml	✔	INT	NBH 5/30/25
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.146	120219	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.413	14696	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.839	192227	-	ng/ml			
362.9 -> 169.0				*								
PFHxA					13C5-PFHxA_ISTD	5.161	120366	-	ng/ml			
313.0 -> 118.9				*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	143576	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.551	45715	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	87021	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.286	164001	-	ng/ml			
PFOA	6.300	1058	16.88		13C8-PFOA_ISTD	6.368	135079	0.0166	ng/ml			
413.0 -> 169.0	6.300	156	25.62	14.7								
PFOS	7.399	489	60.65		13C8-PFOS_ISTD	7.528	38208	0.0216	ng/ml			
499.0 -> 99.0	7.402	276	46.77	56.4								
PFPeA	4.231	0	0.00		13C5-PFPeA_ISTD	4.229	185895	-	ng/ml	✔		
PFMPA					13C4-PFBA_ISTD	2.606	257444	-	ng/ml			
13C5-PFPeA	4.229	185895	40196.14		13C2-PFHxA_ISTD	5.154	107567	4.8797	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.229	185895	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.146	120219	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	120366	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	96100	28940.00		13C2-PFDA_ISTD	7.290	86731	1.1767	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	120366	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	51065	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	107855	417027.38		13C2-PFDA_ISTD	7.290	86731	1.1825	ng/ml			
13C4-PFOA	6.369	28385	9715.89					3.4330	ng/ml			
PFDS					13C8-PFOS_ISTD	7.528	38208	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.528	38208	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.551	45715	-	ng/ml			
349.0 -> 98.9				*								

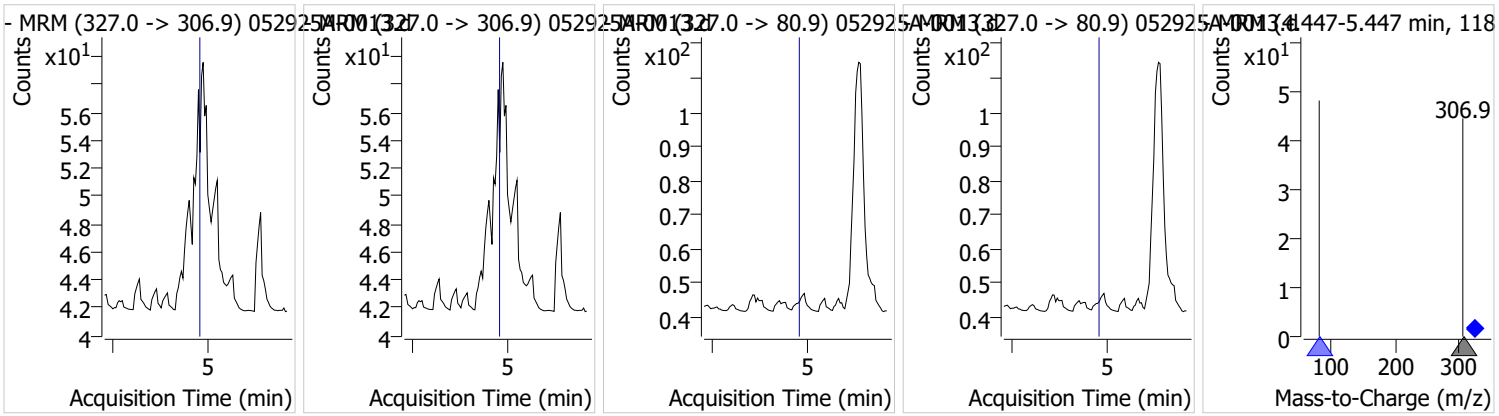
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA					13C2-PFTeDA_ISTD	8.944	127164	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	107855	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.608	109703	5829.39					7.2238	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.229	185895	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	120366	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	87021	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	85176	769051.55					1.8011	ng/ml			
18O2-PFHxS	6.550	41356	67137.94					3.6408	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.528	38208	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.528	38208	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.928	0	0.00		13C3-PFPrA_ISTD	0.916	104903	-	ng/ml	✔	INT	NBH 5/30/25
13C3-PFPrA	0.916	104903	7084.18		13C3-PFBA_ISTD	2.608	109703	8.8394	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	111904	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	135079	125995.20		13C4-PFOA_ISTD	6.369	28385	2.5399	ng/ml			
13C8-PFOS	7.528	38208	11399.67		13C4-PFOS_ISTD	7.529	40549	2.4093	ng/ml			
13C8-PFOSA	8.975	51065	14325.19		13C4-PFOS_ISTD	7.529	40549	2.2394	ng/ml			
13C9-PFNA	6.842	87021	26919.72		13C5-PFNA_ISTD	6.842	85176	1.1563	ng/ml			
D3-NMeFOSA	10.126	11695	3256.72		13C4-PFOS_ISTD	7.529	40549	1.6097	ng/ml			
D3-NMeFOSAA	7.327	127164	11805.76		13C4-PFOS_ISTD	7.529	40549	5.0420	ng/ml			
D5-NEtFOSA	10.413	14696	1102.67		13C4-PFOS_ISTD	7.529	40549	1.6827	ng/ml			
D5-NEtFOSAA	7.506	99334	3845.05		13C4-PFOS_ISTD	7.529	40549	5.1860	ng/ml			
D7-NMeFOSE	9.957	143576	18577.66		13C4-PFOS_ISTD	7.529	40549	20.5848	ng/ml			
D9-NEtFOSE	10.286	164001	10521.55		13C4-PFOS_ISTD	7.529	40549	21.1749	ng/ml			

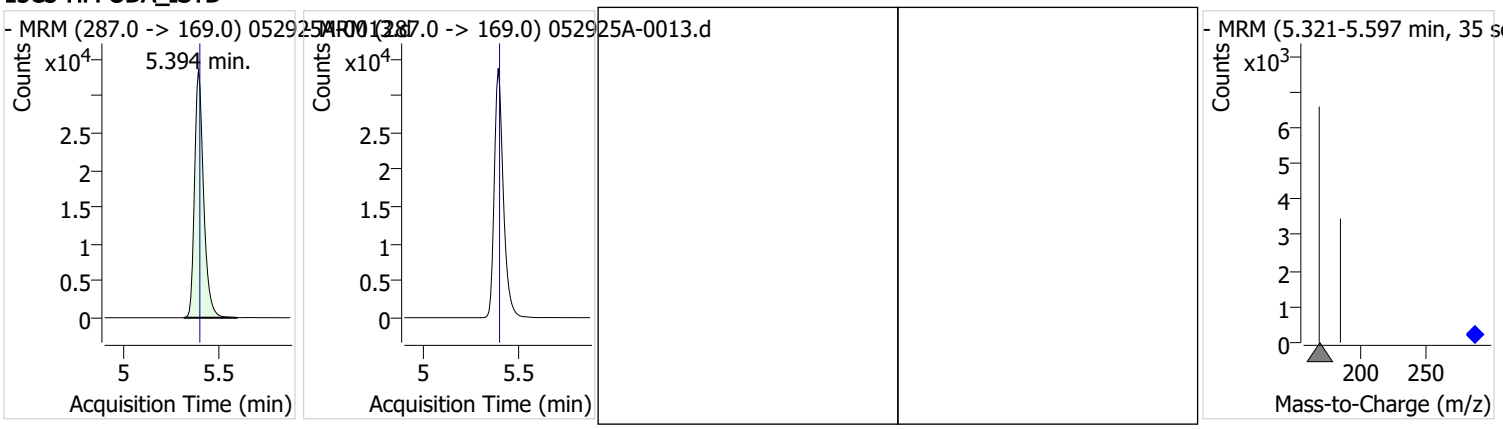
HFPO-DA



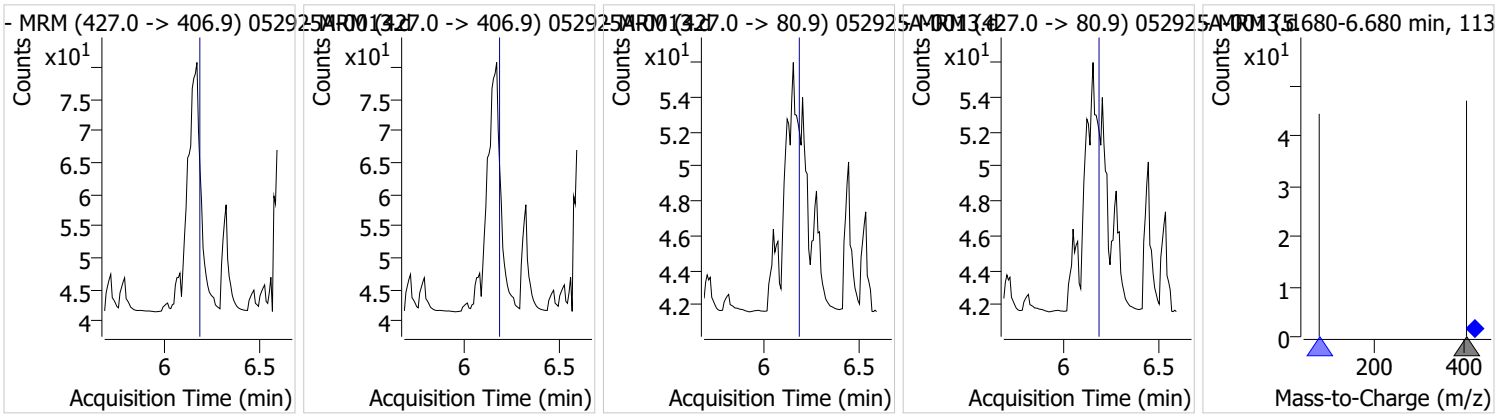
4:2FTS



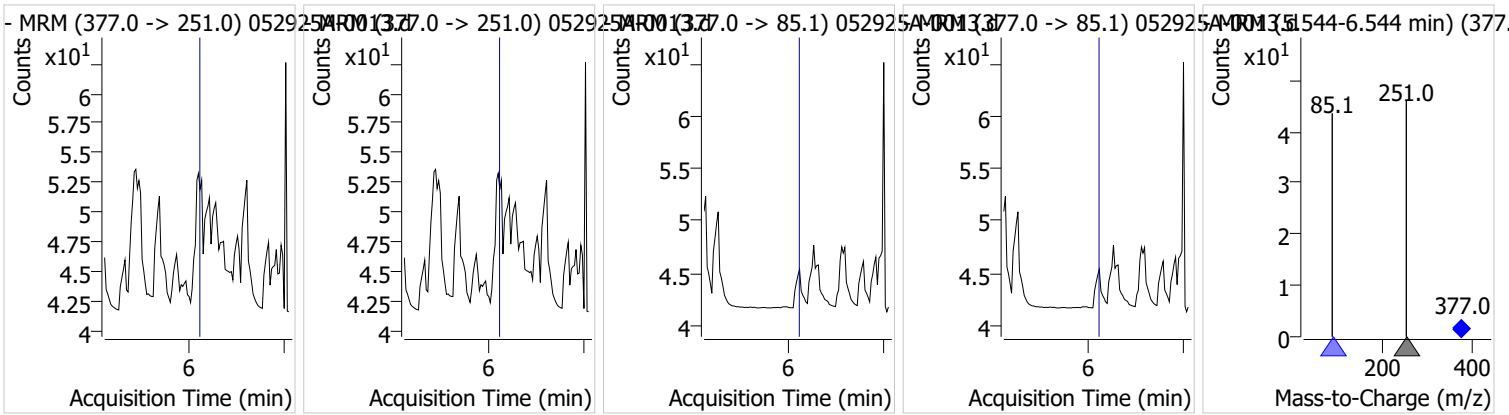
13C3-HFPODA_ISTD



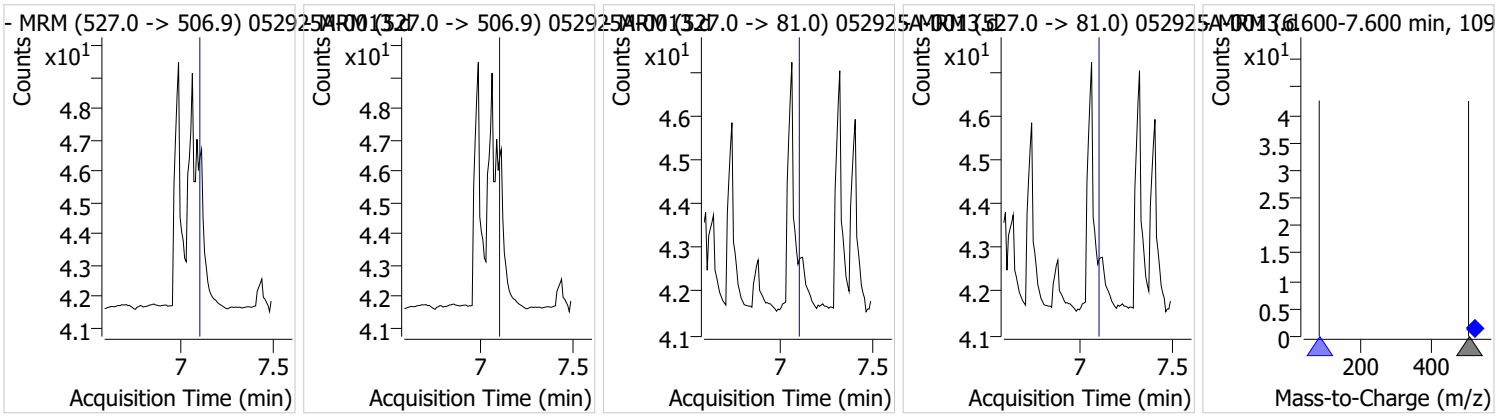
6:2FTS



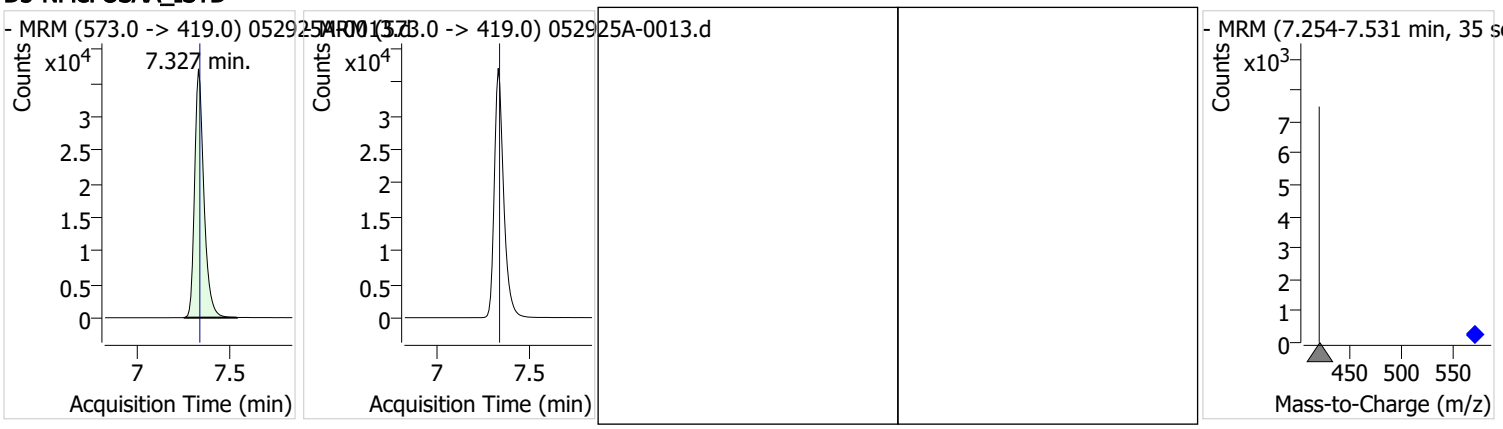
ADONA



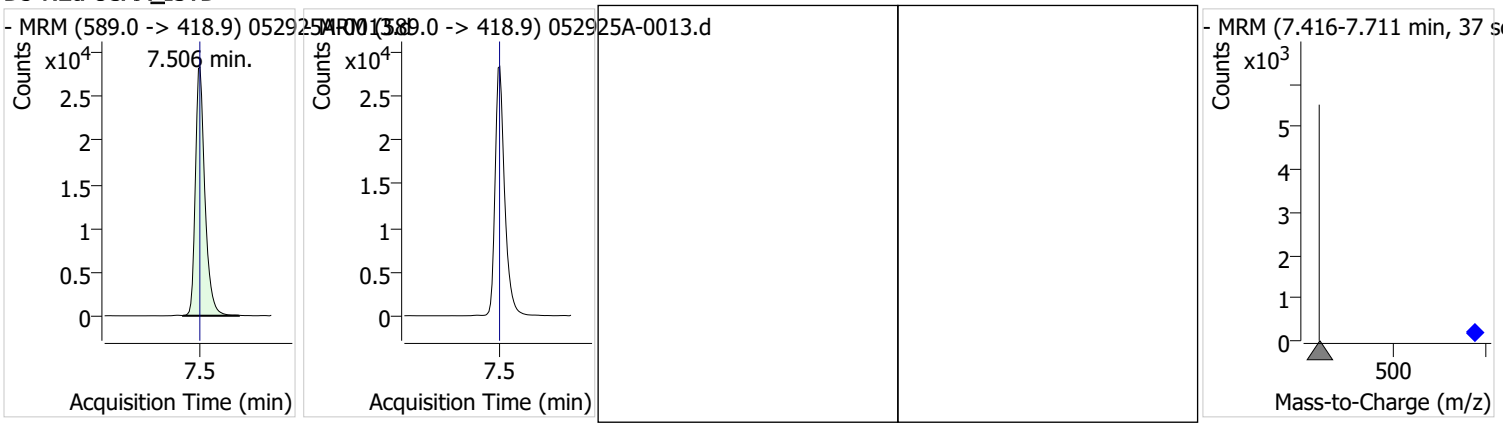
8:2FTS



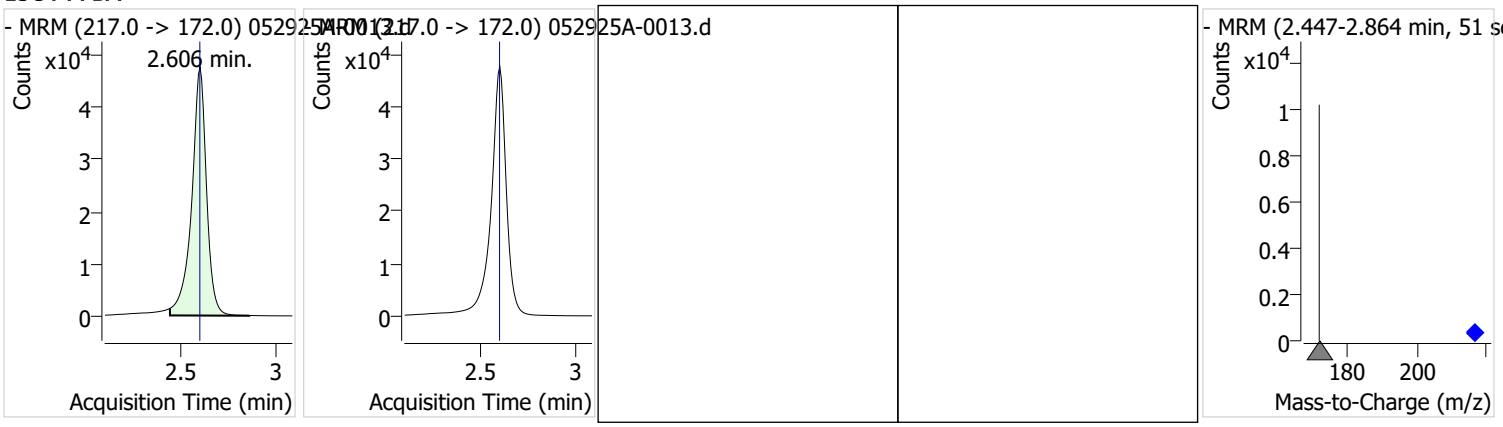
D3-NMeFOSAA_ISTD



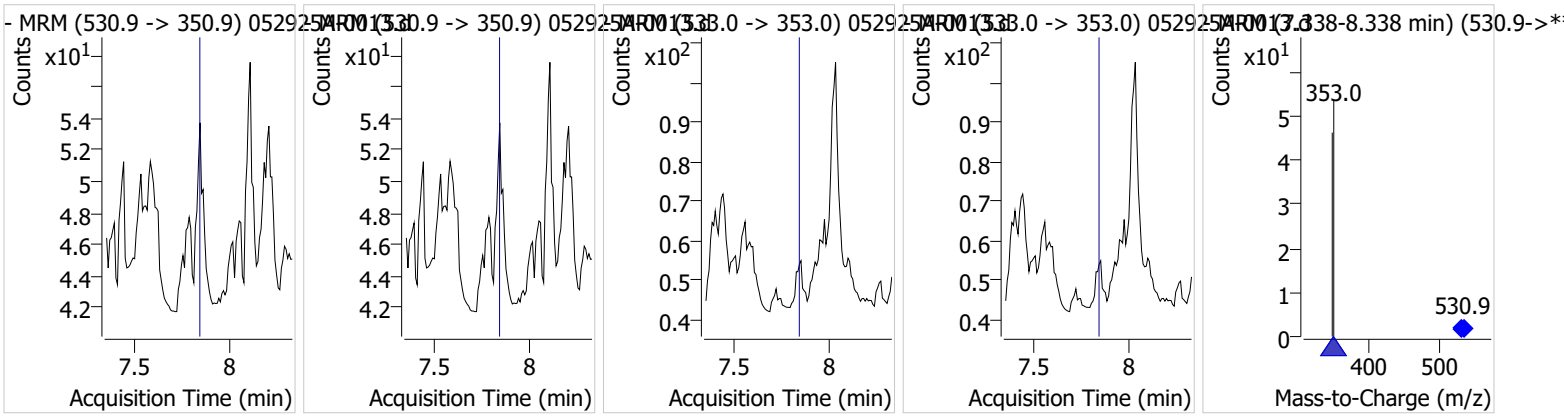
D5-NEtFOSAA_ISTD



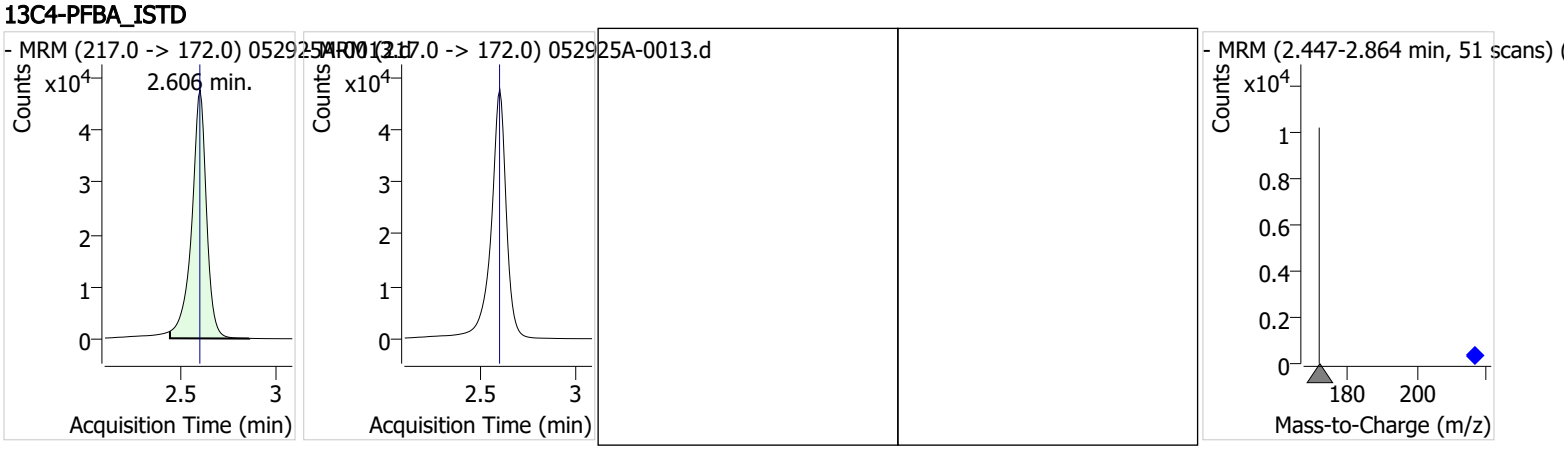
13C4-PFBA



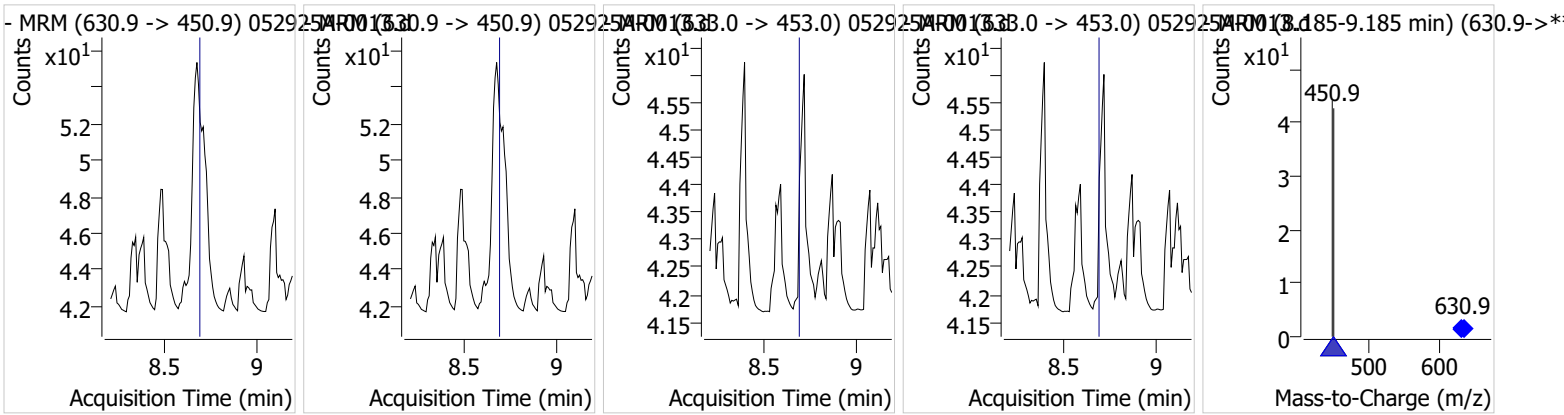
9Cl-PF3ONS



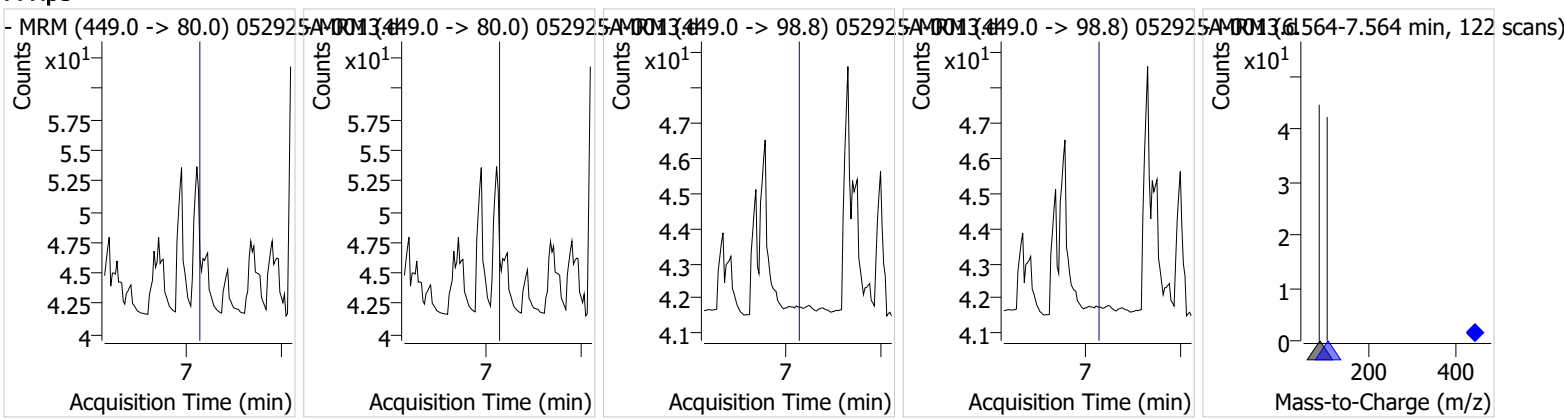
13C4-PFBA_ISTD



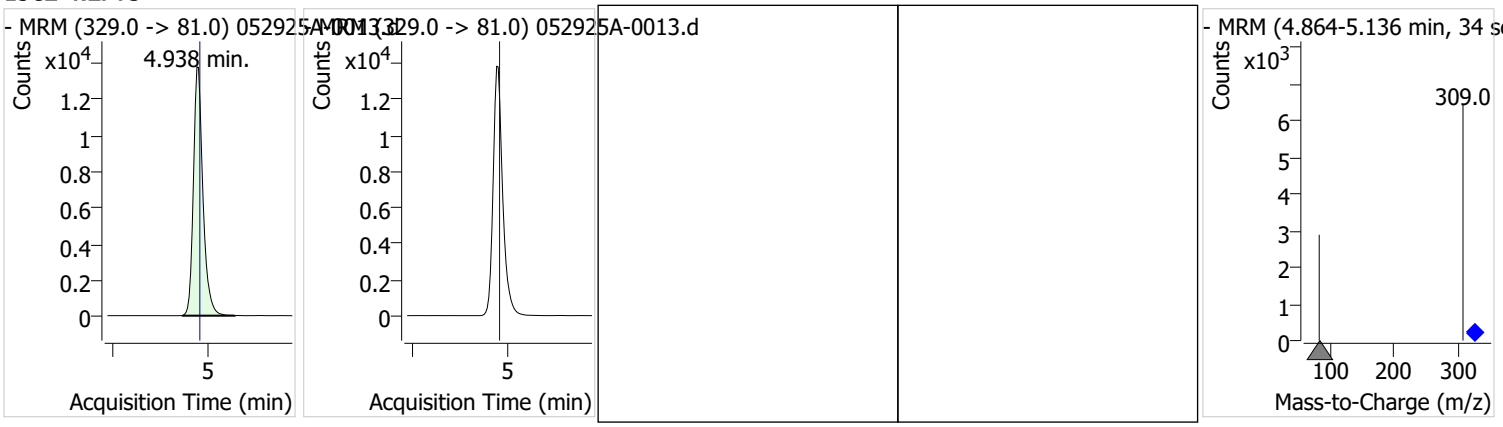
11Cl-PF3OUdS



PFHpS



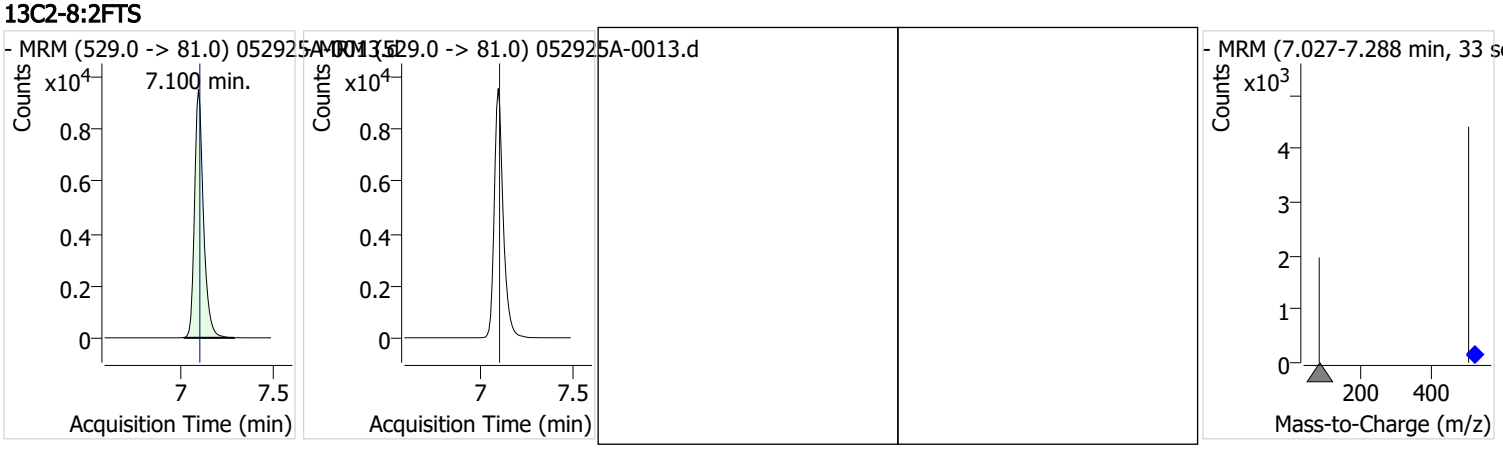
13C2-4:2FTS



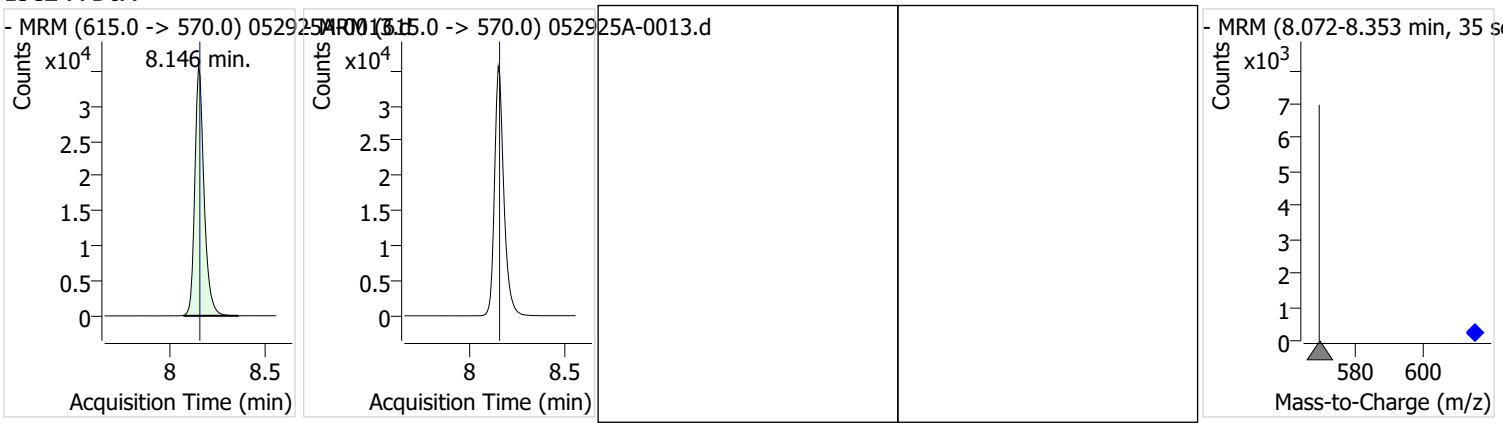
13C2-6:2FTS



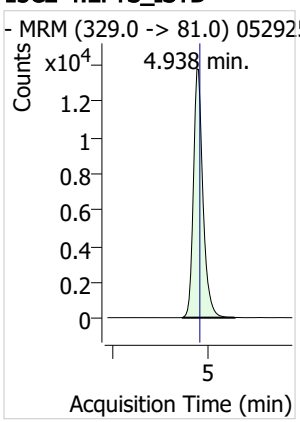
13C2-8:2FTS

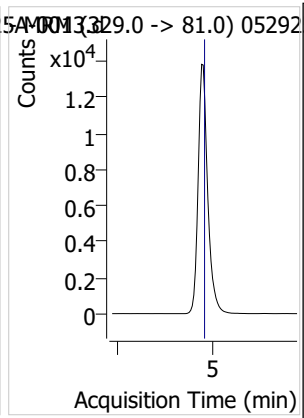


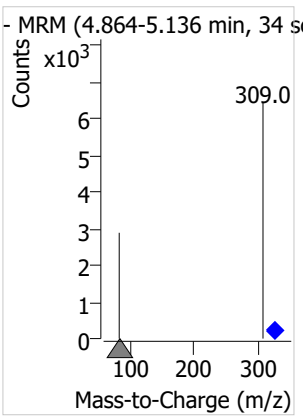
13C2-PFDoA



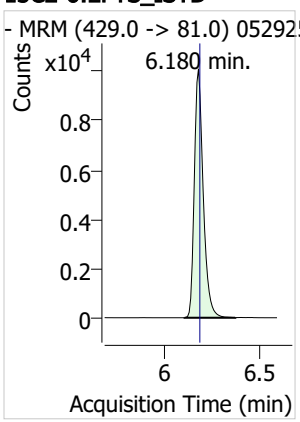
13C2-4:2FTS_ISTD

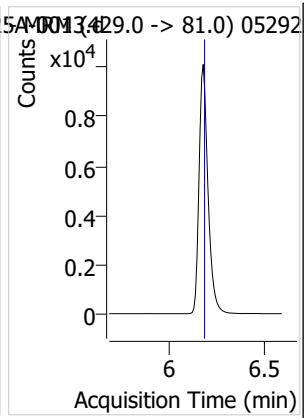


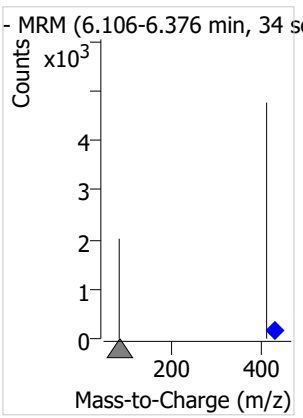




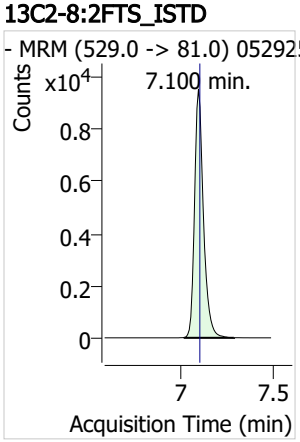
13C2-6:2FTS_ISTD

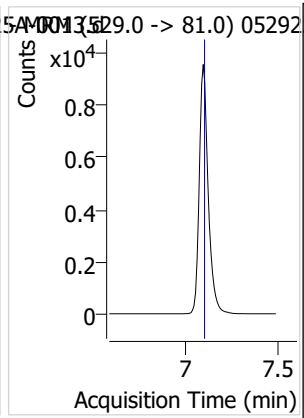


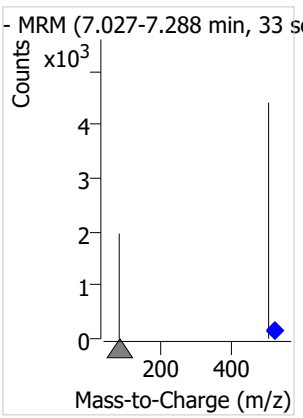




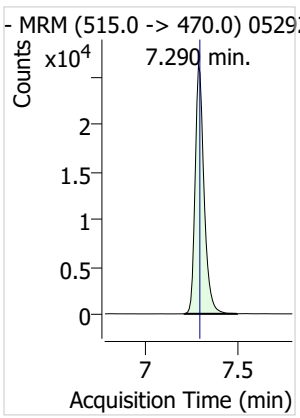
13C2-8:2FTS_ISTD

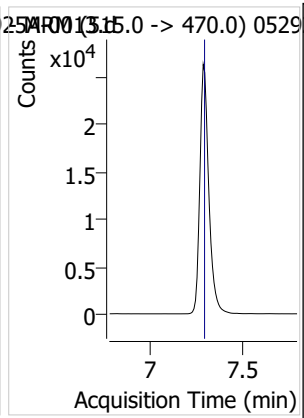


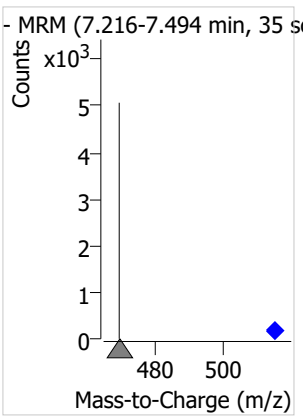




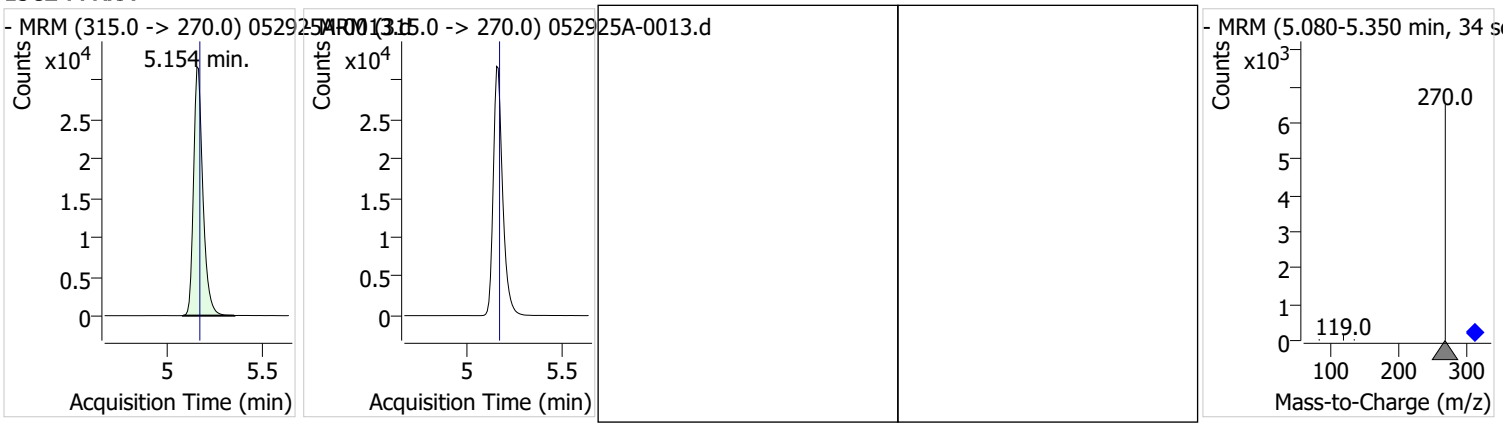
13C2-PFDA



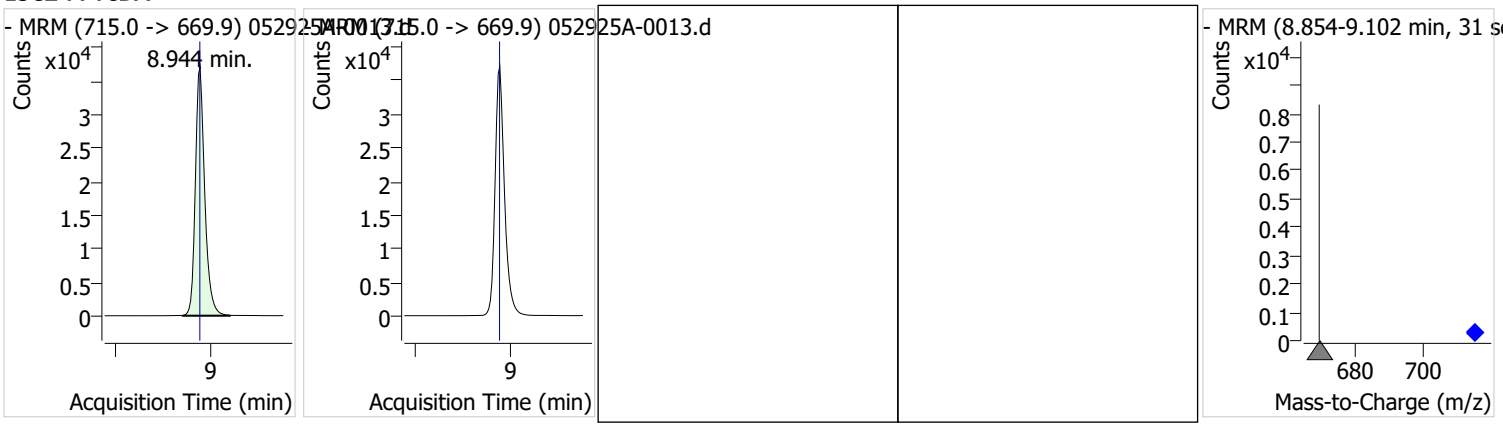




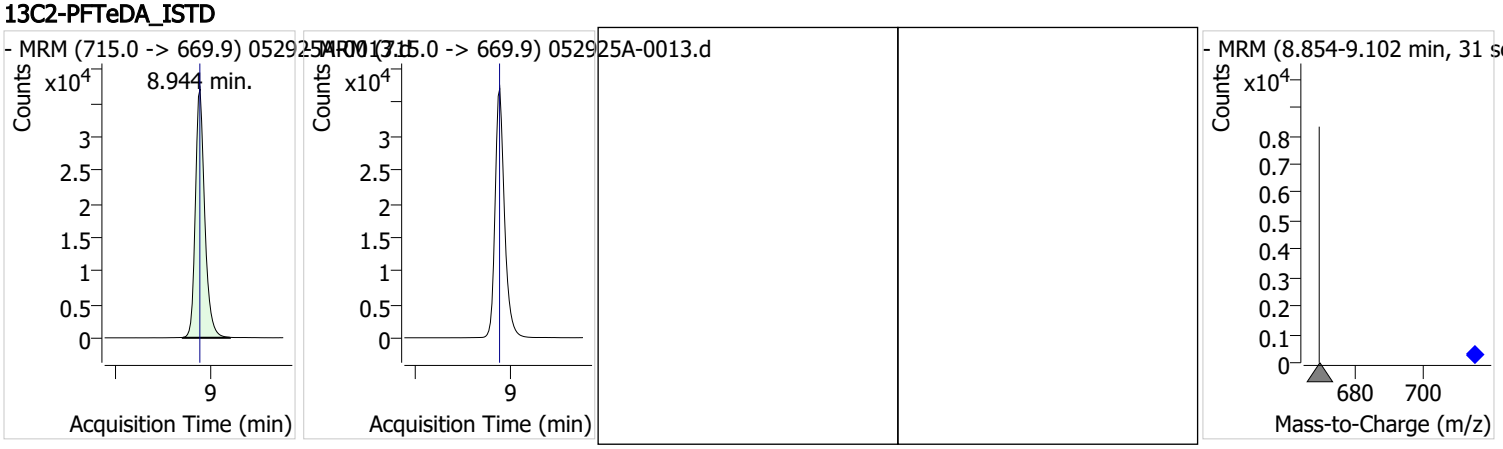
13C2-PFHxA



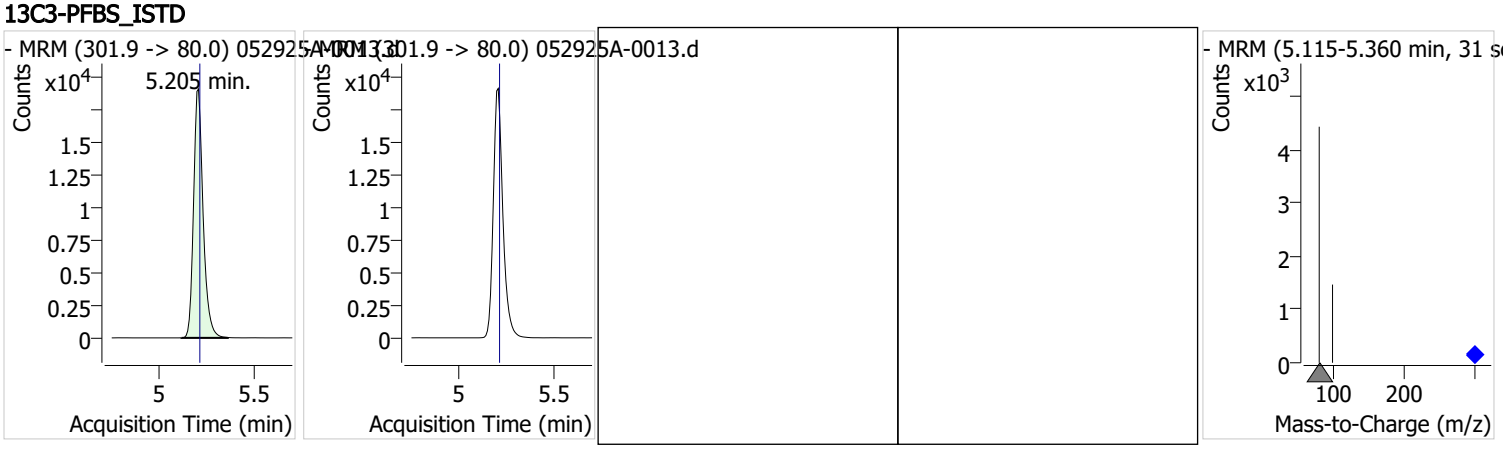
13C2-PFTeDA



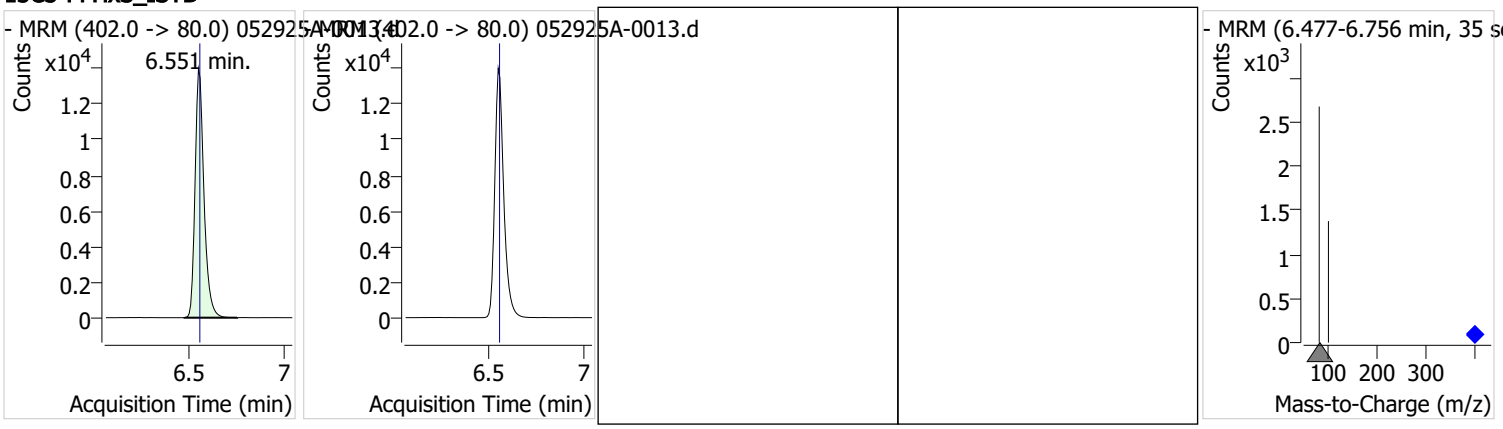
13C2-PFTeDA_ISTD



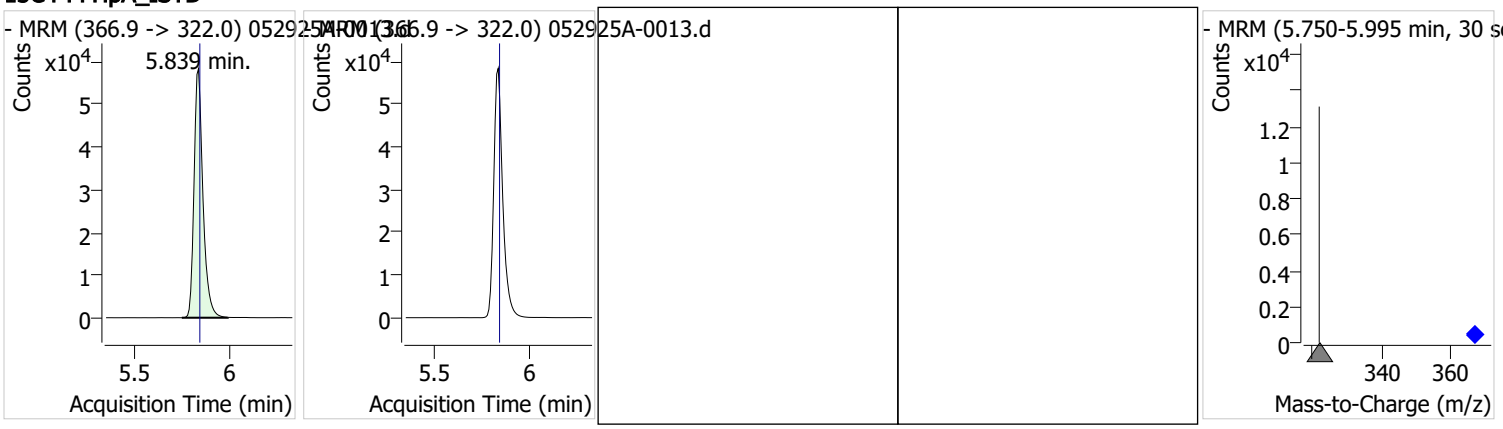
13C3-PFBS_ISTD



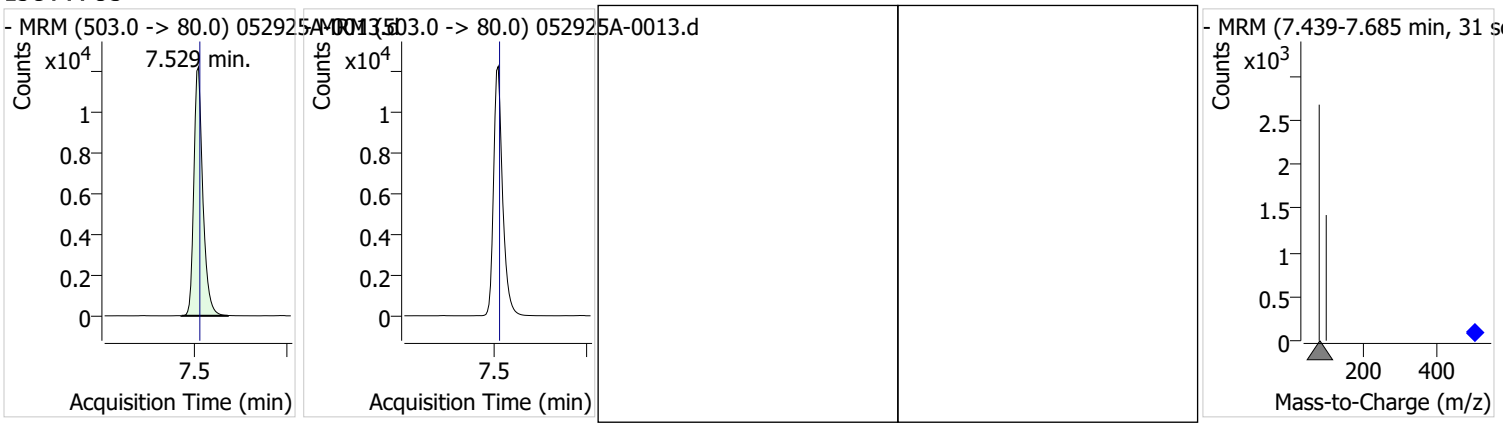
13C3-PFHxS_ISTD



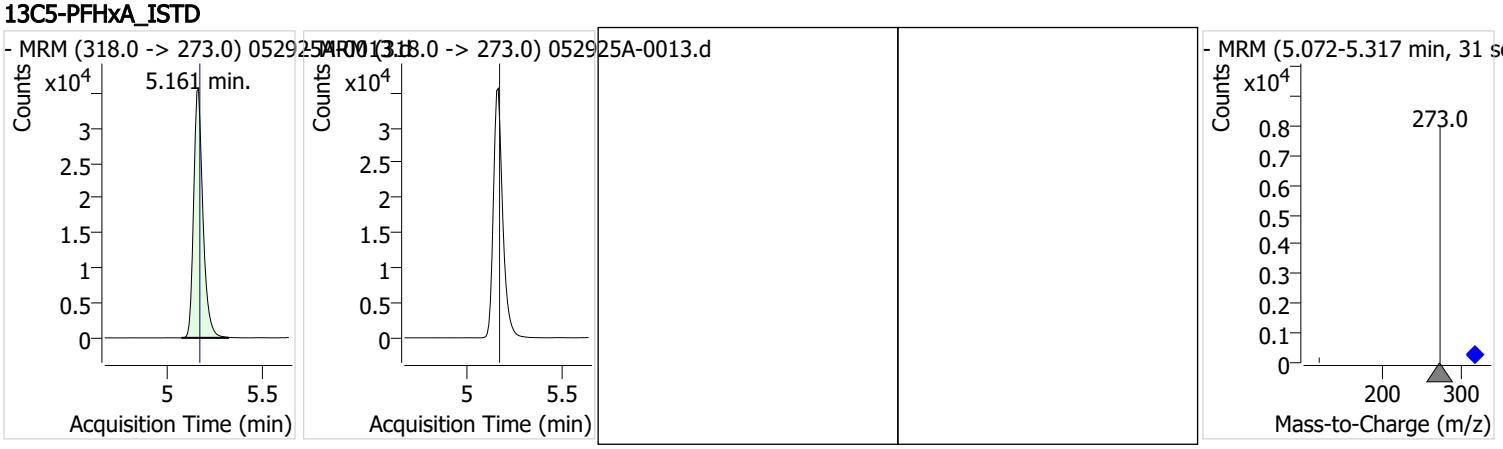
13C4-PFHpA_ISTD



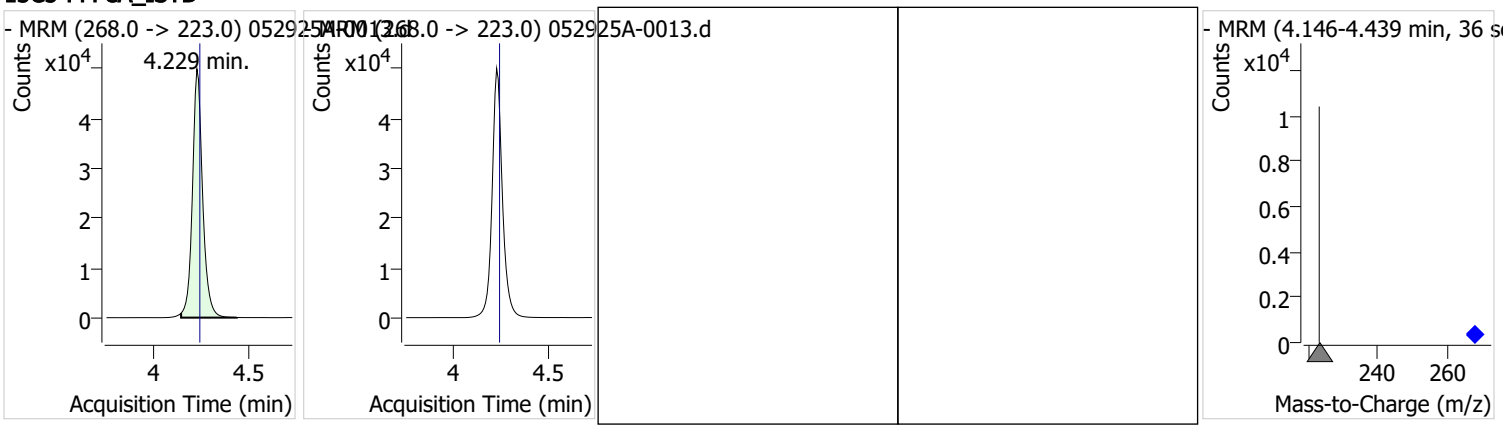
13C4-PFOS



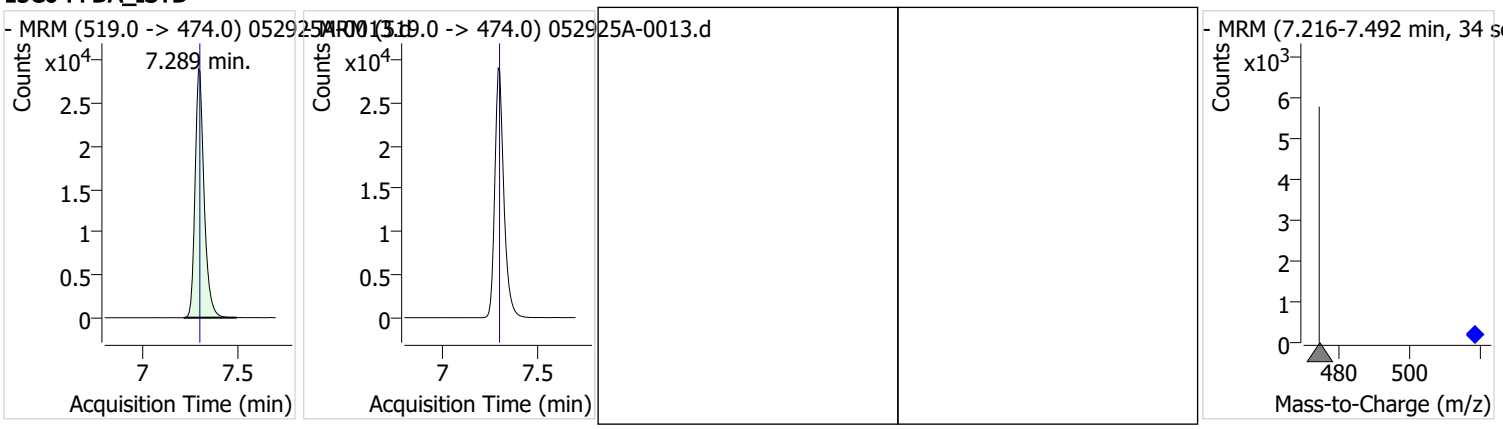
13C5-PFHxA_ISTD



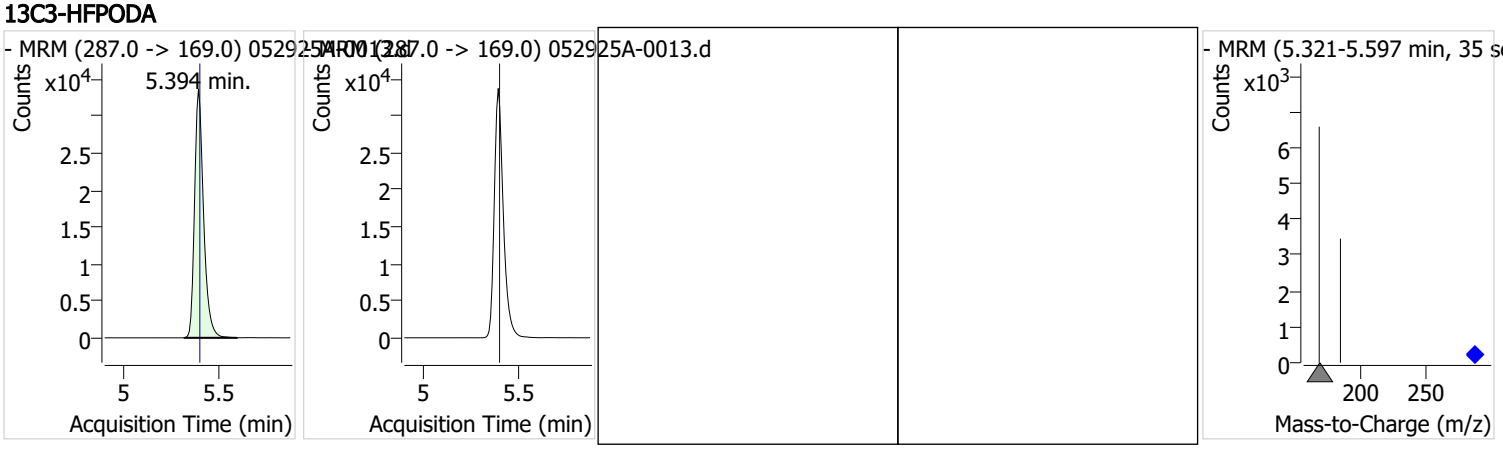
13C5-PFPeA_ISTD



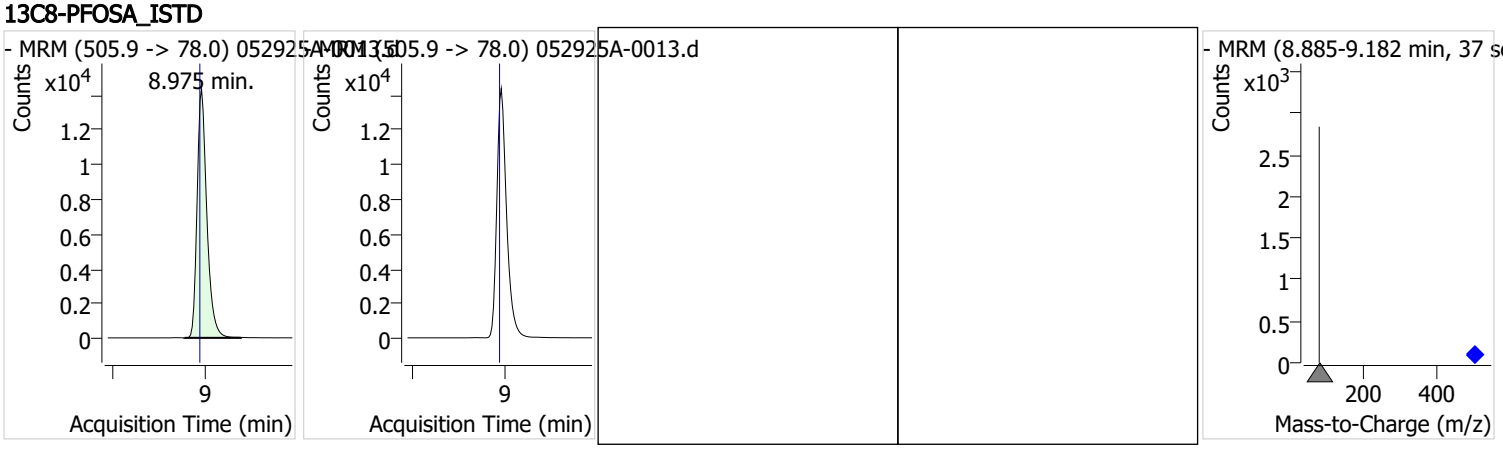
13C6-PFDA_ISTD



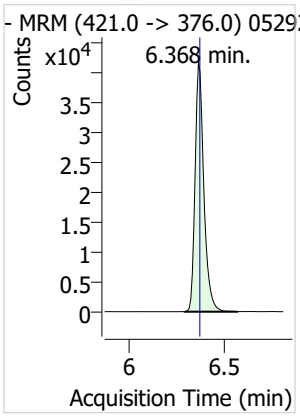
13C3-HFPODA

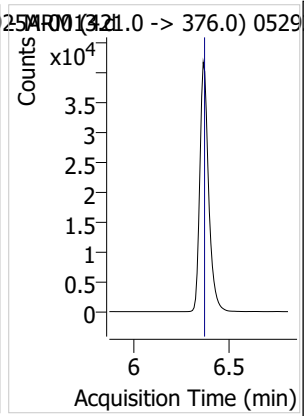


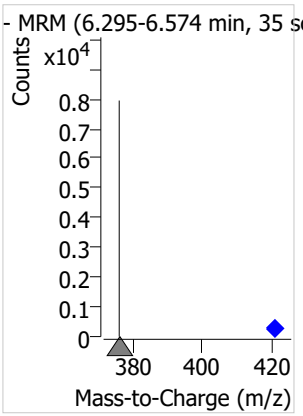
13C8-PFOSA_ISTD



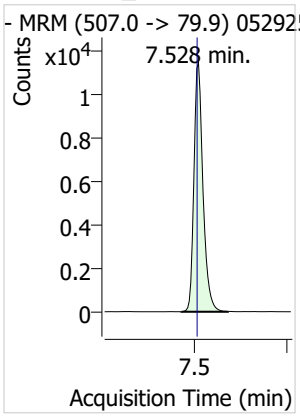
13C8-PFOA_ISTD

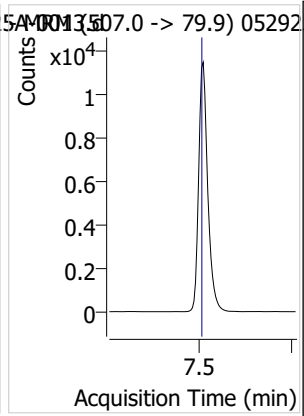


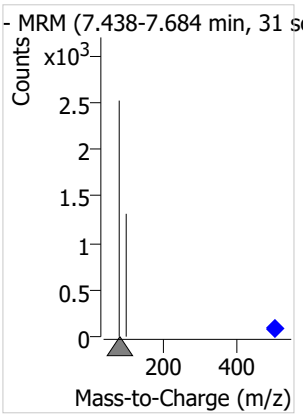




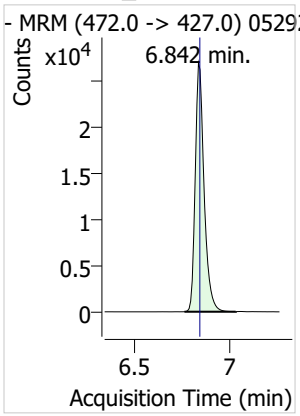
13C8-PFOS_ISTD

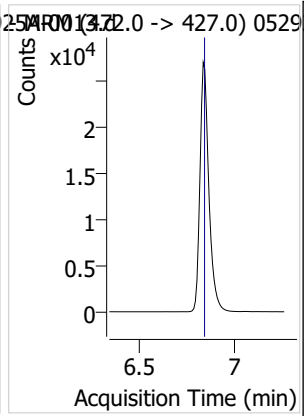


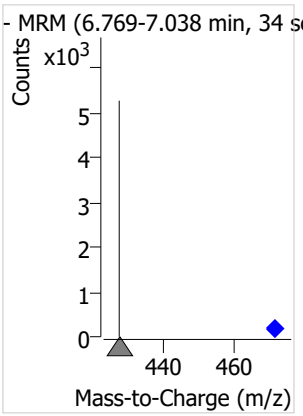




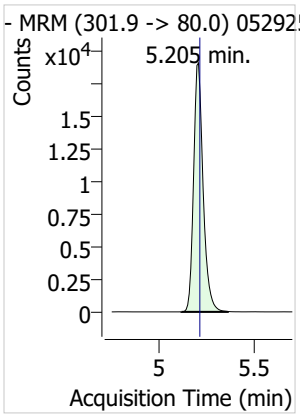
13C9-PFNA_ISTD

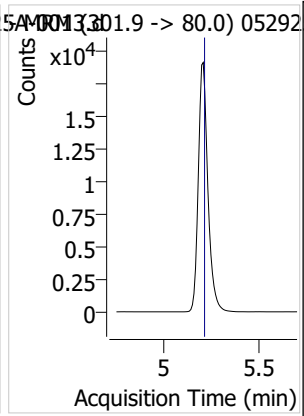


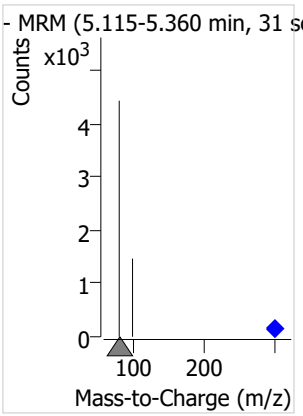




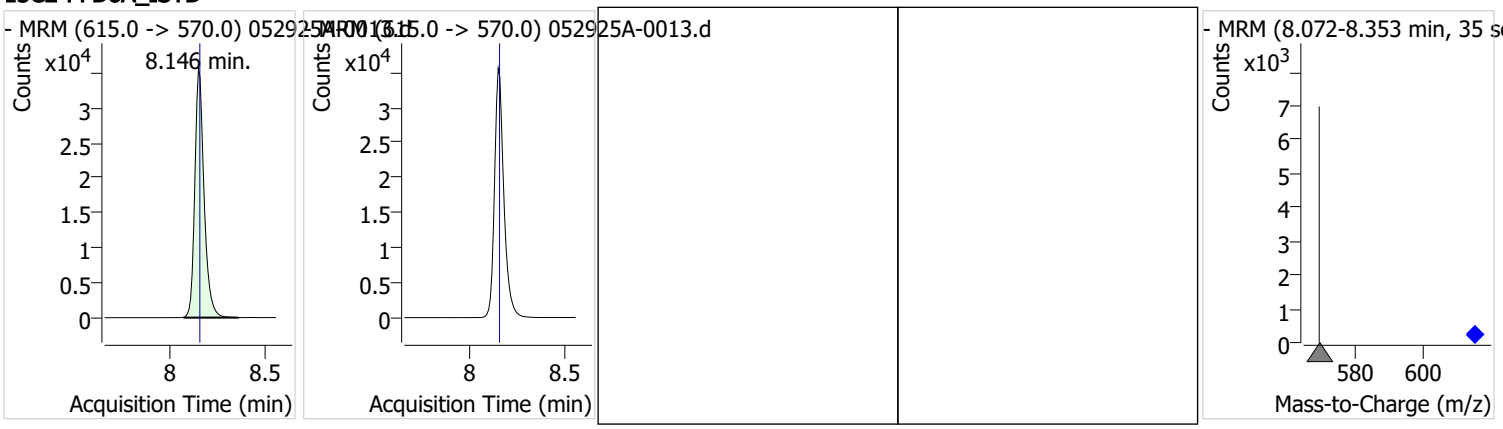
13C3-PFBS



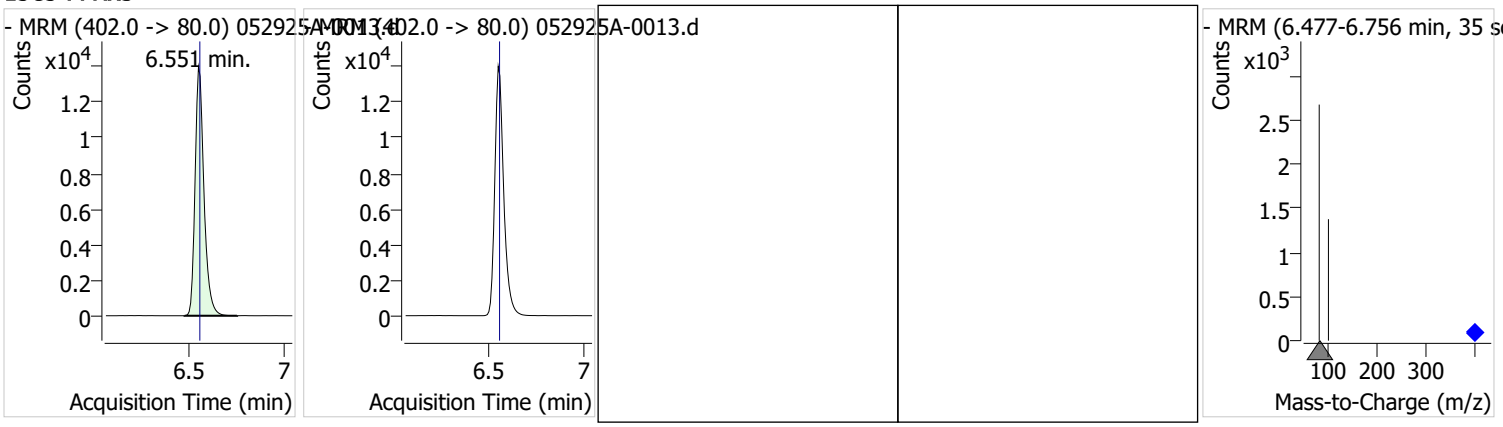




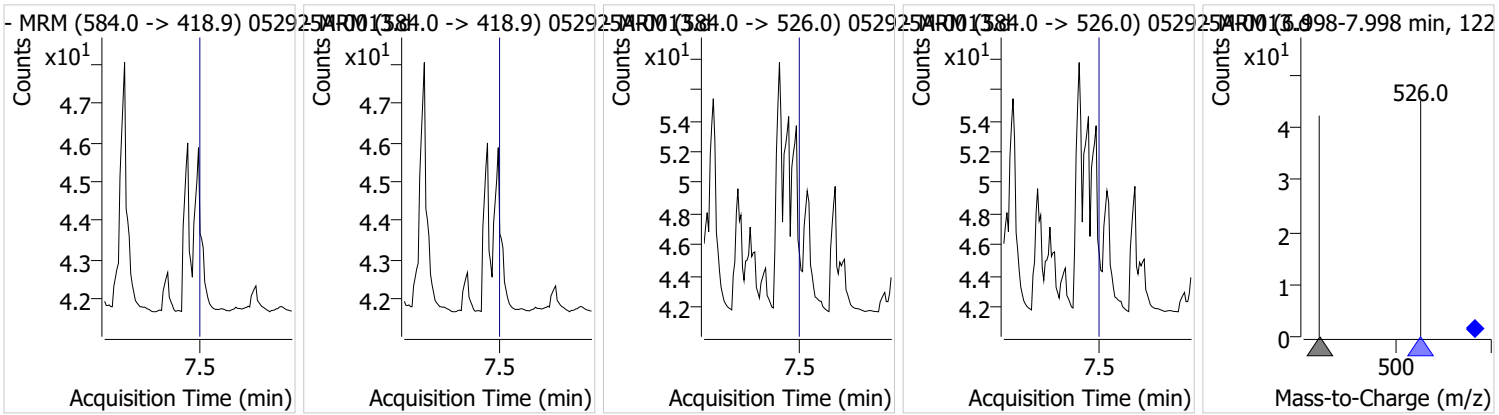
13C2-PFDoA_ISTD



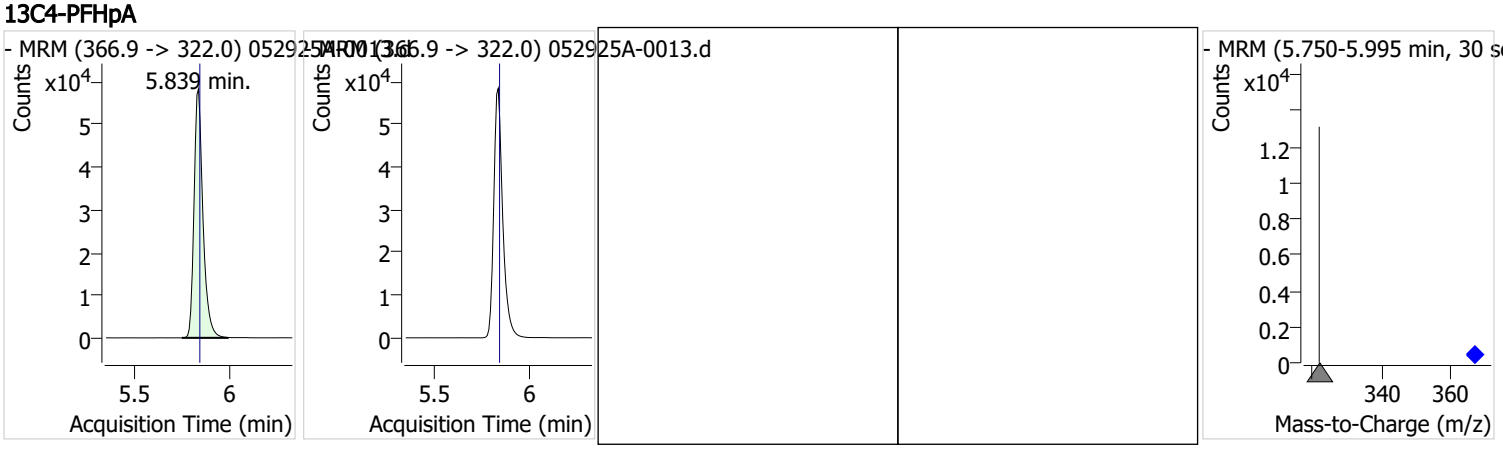
13C3-PFHxS



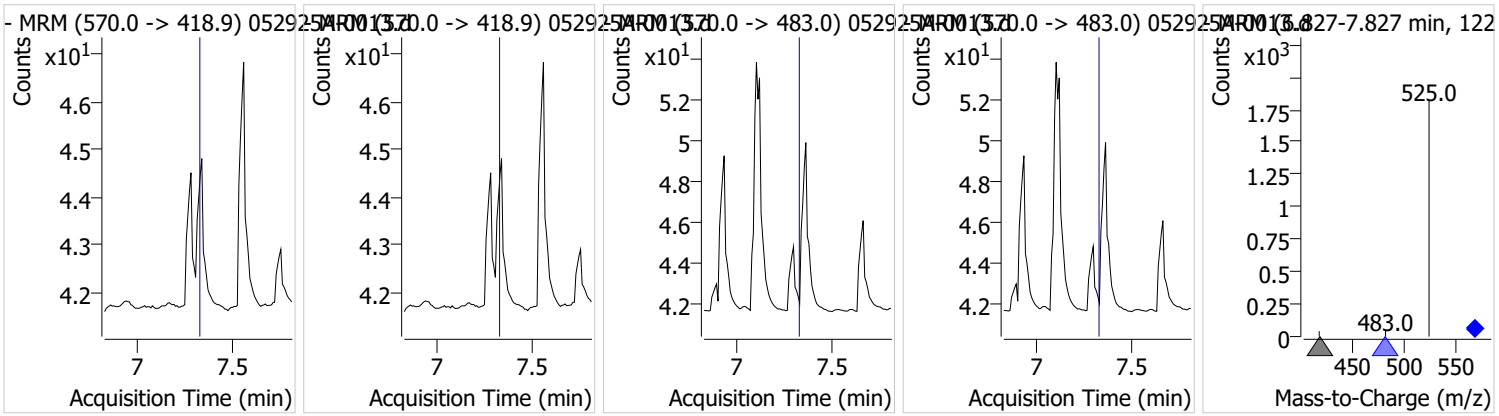
NEtFOSAA



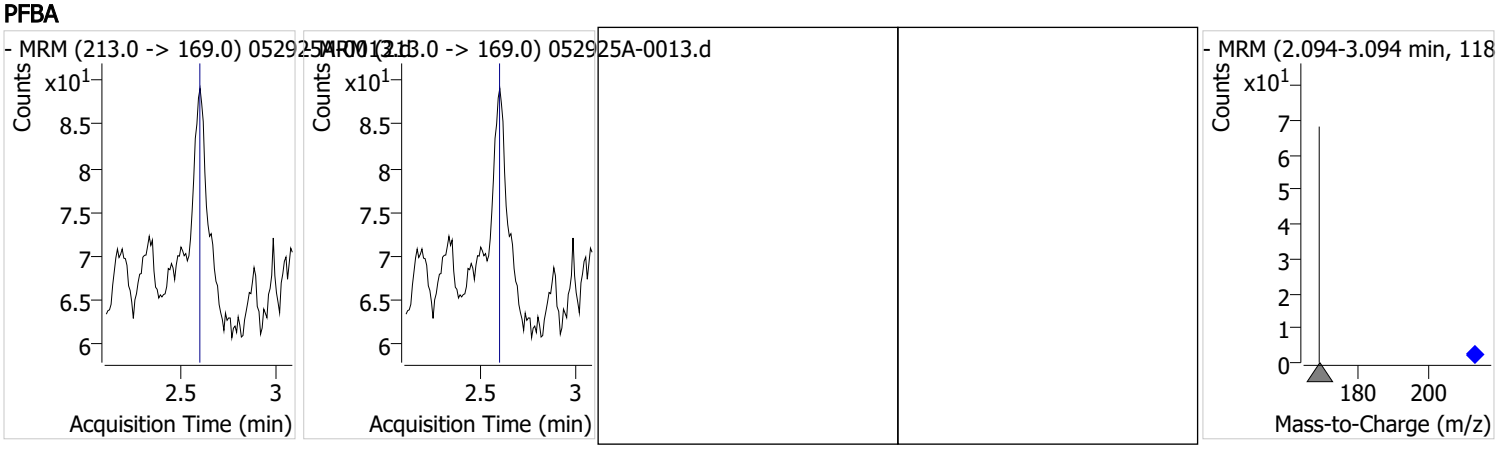
13C4-PFHpA



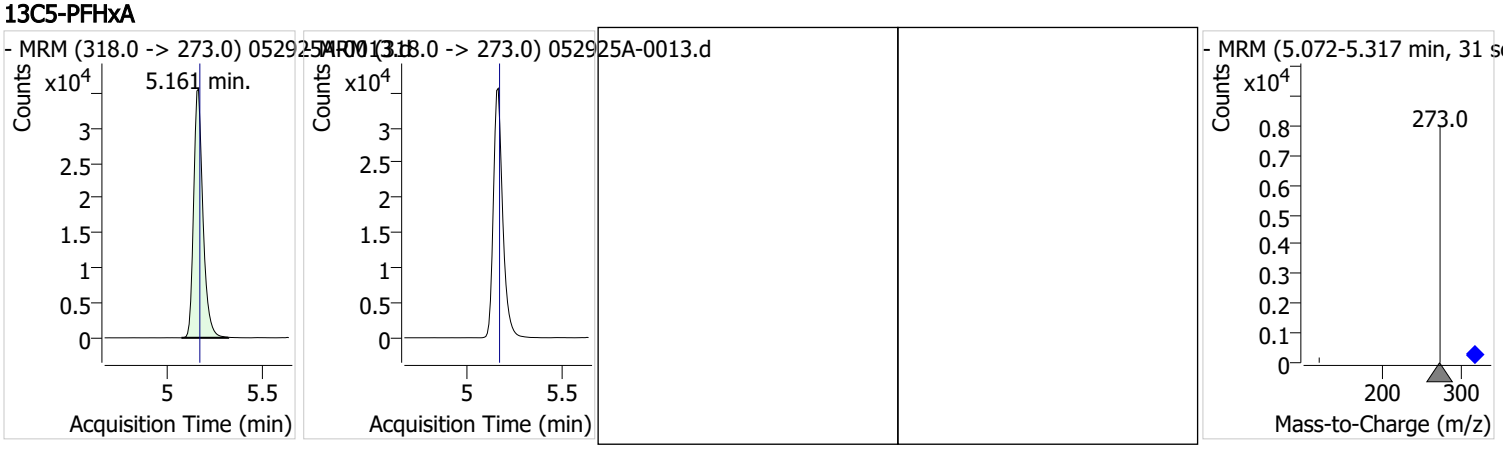
NMeFOSAA



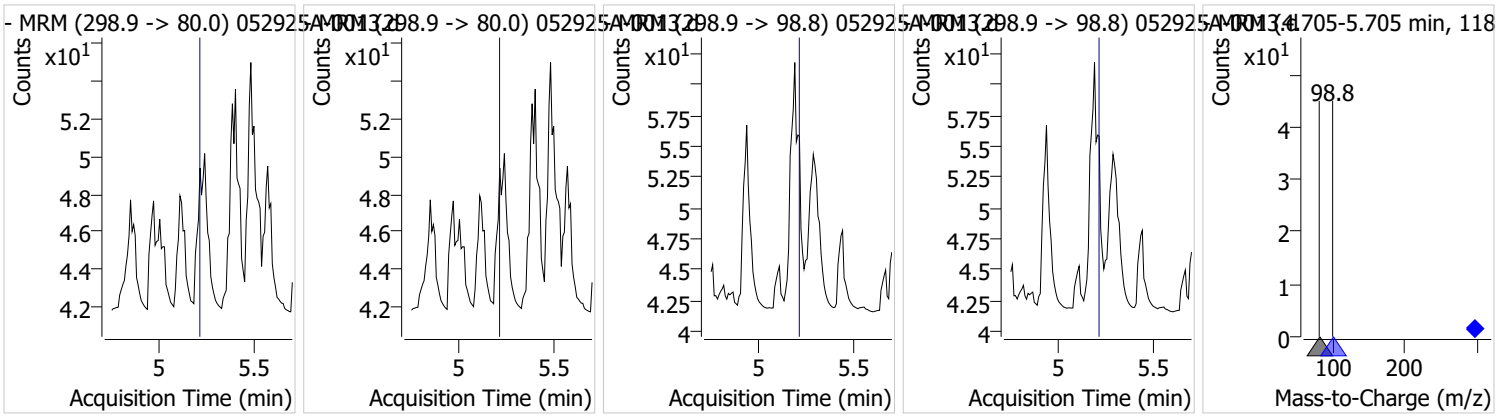
PFBA



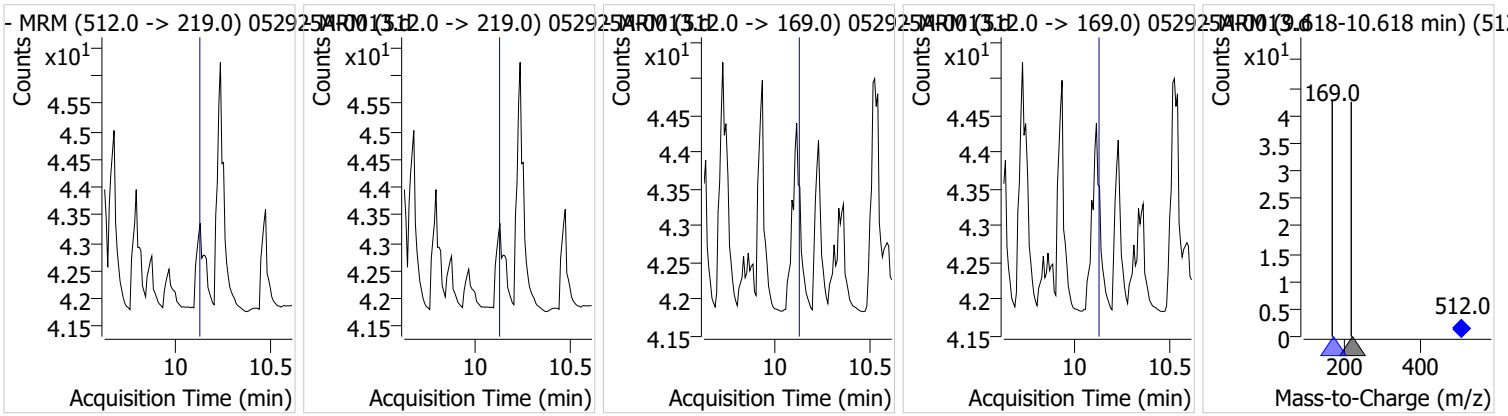
13C5-PFHxA



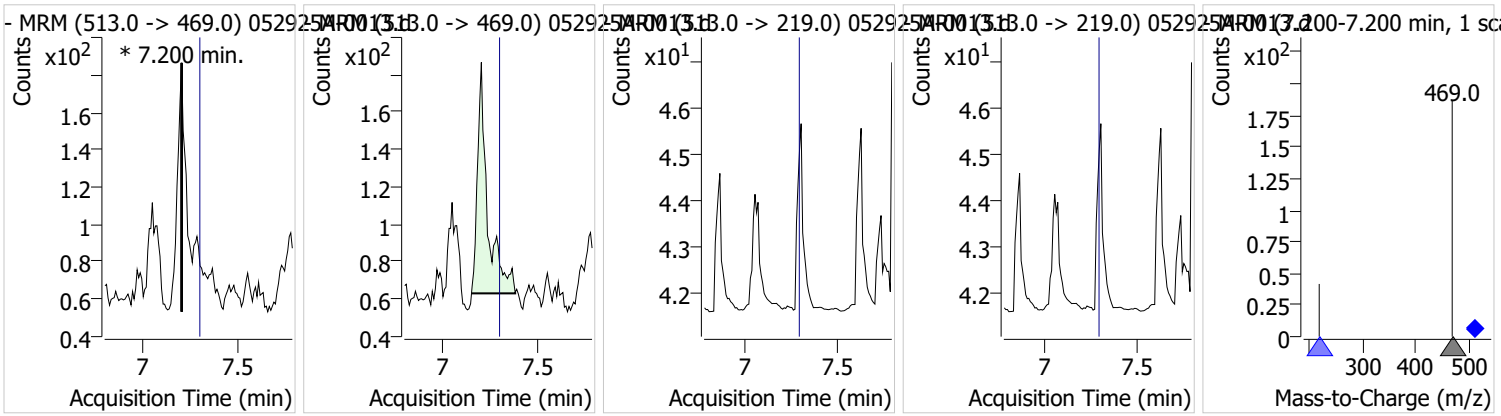
PFBS



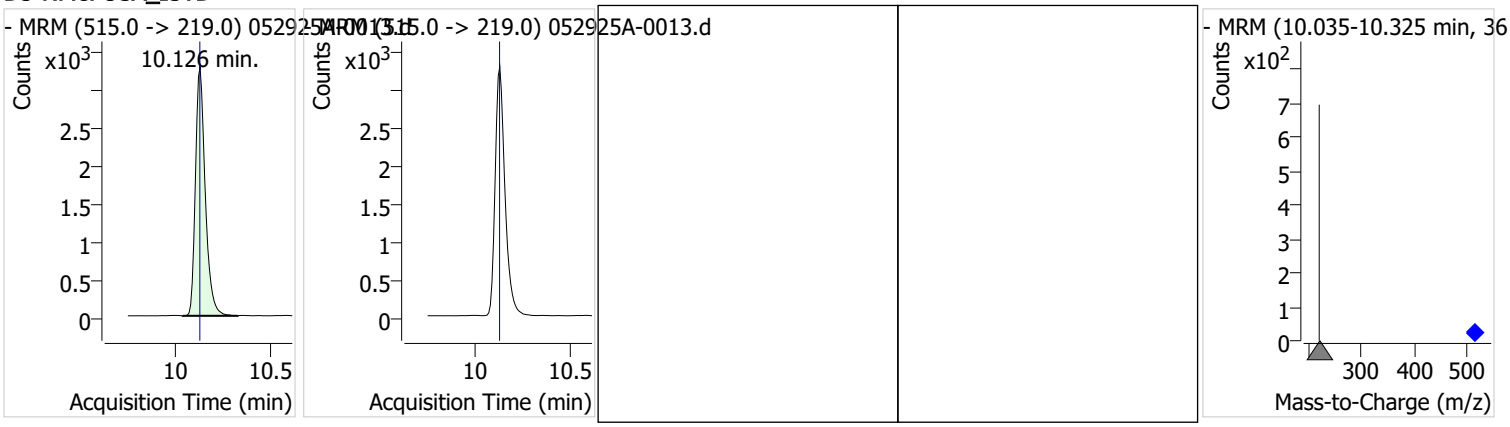
NMeFOSA



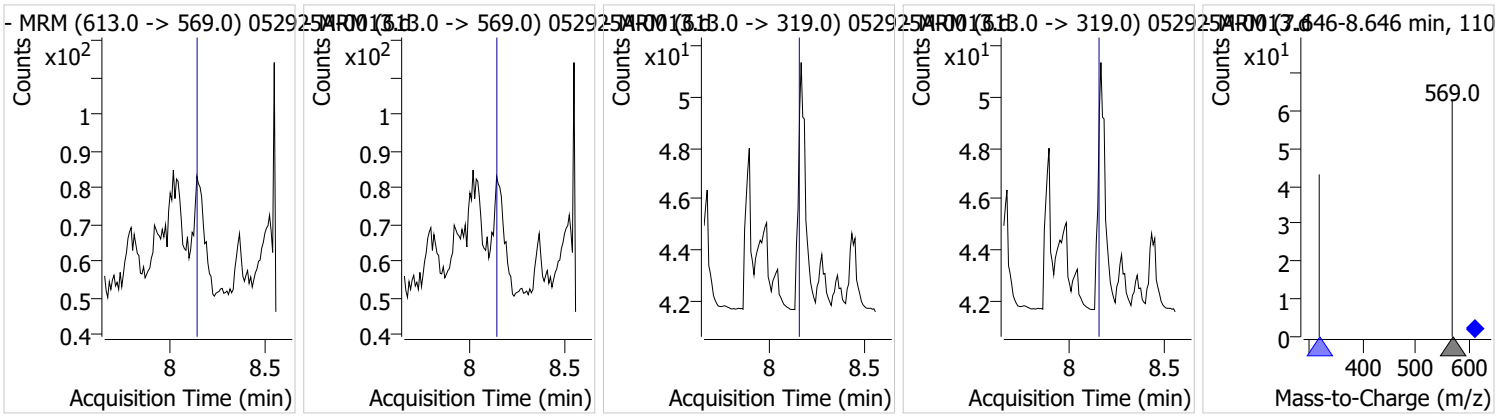
PFDA



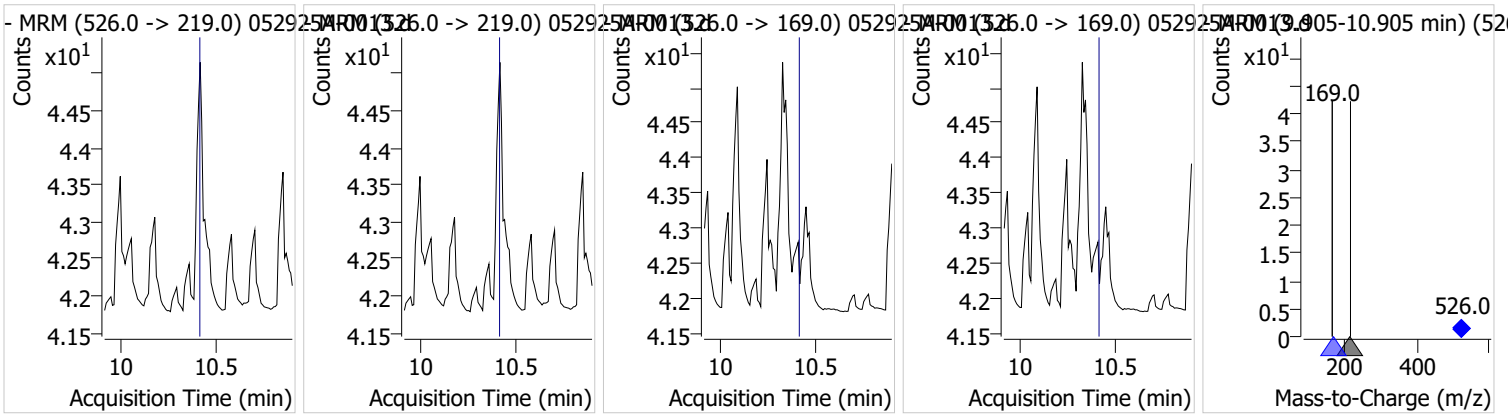
D3-NMeFOSA_ISTD



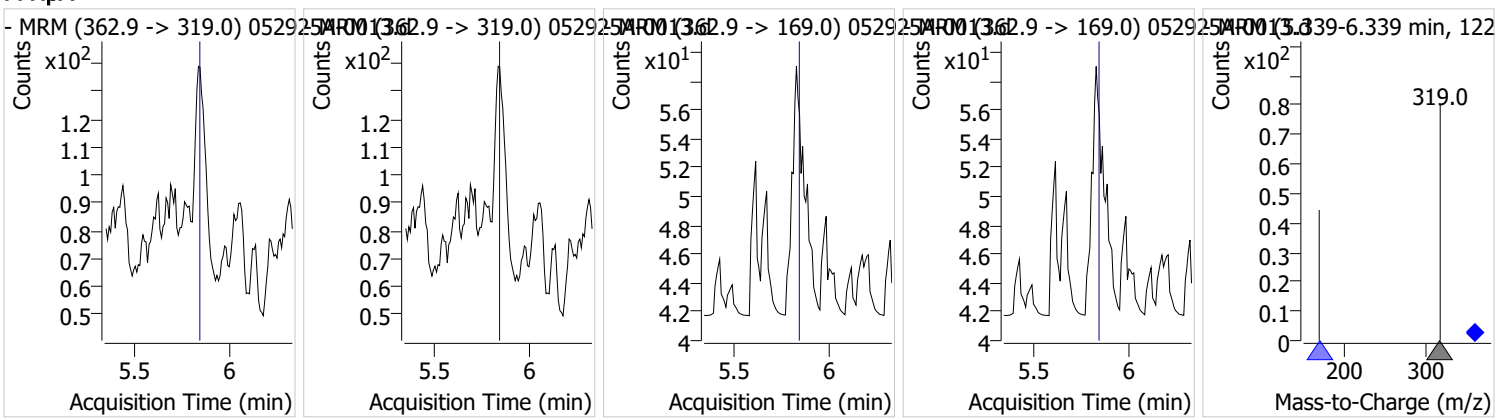
PFDoA



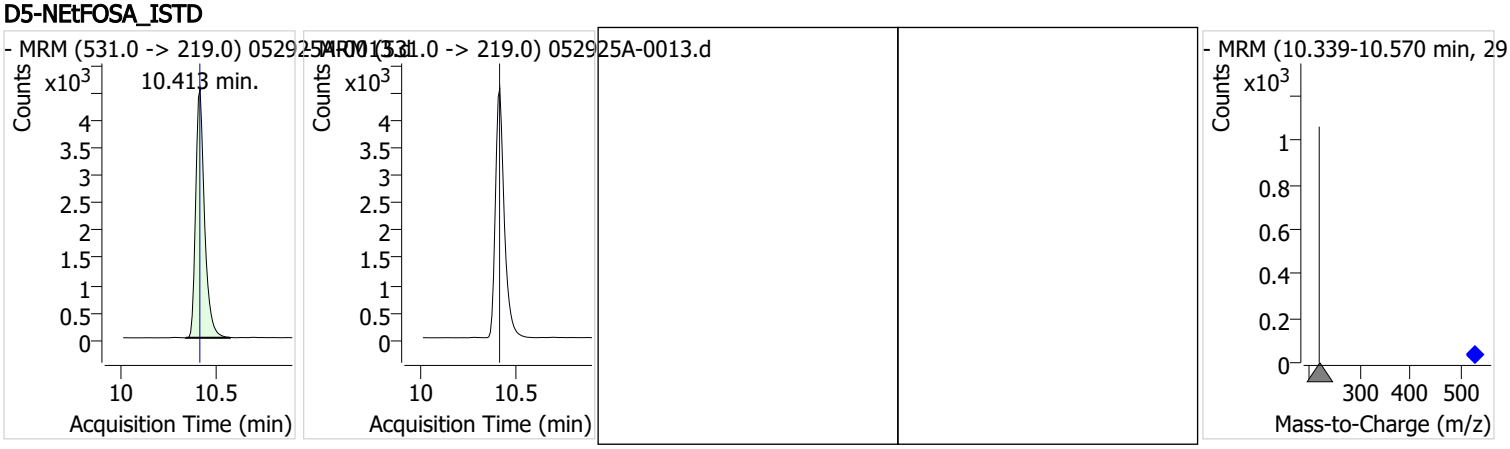
NEtFOSA



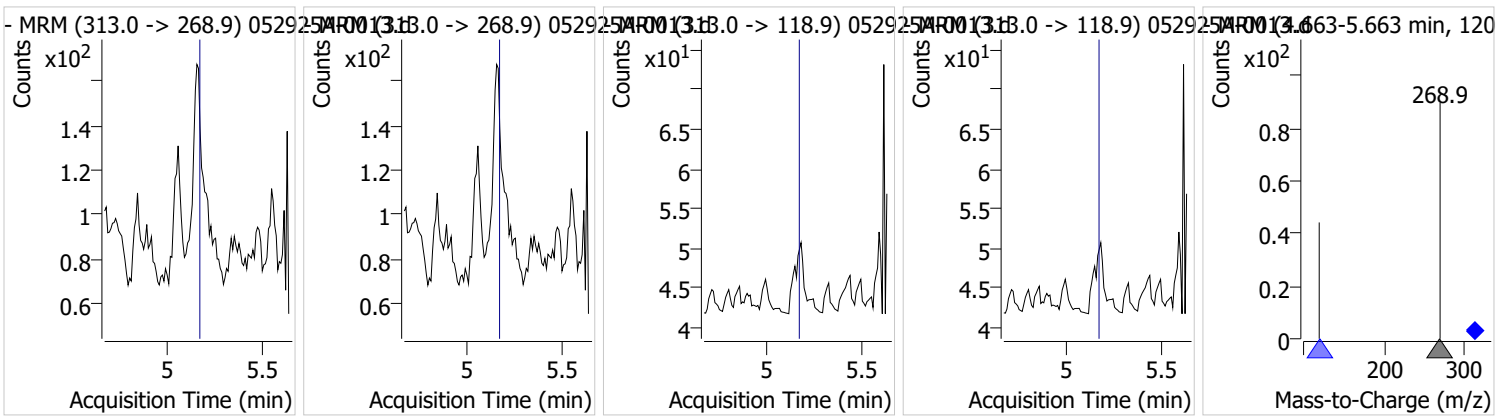
PFHpA



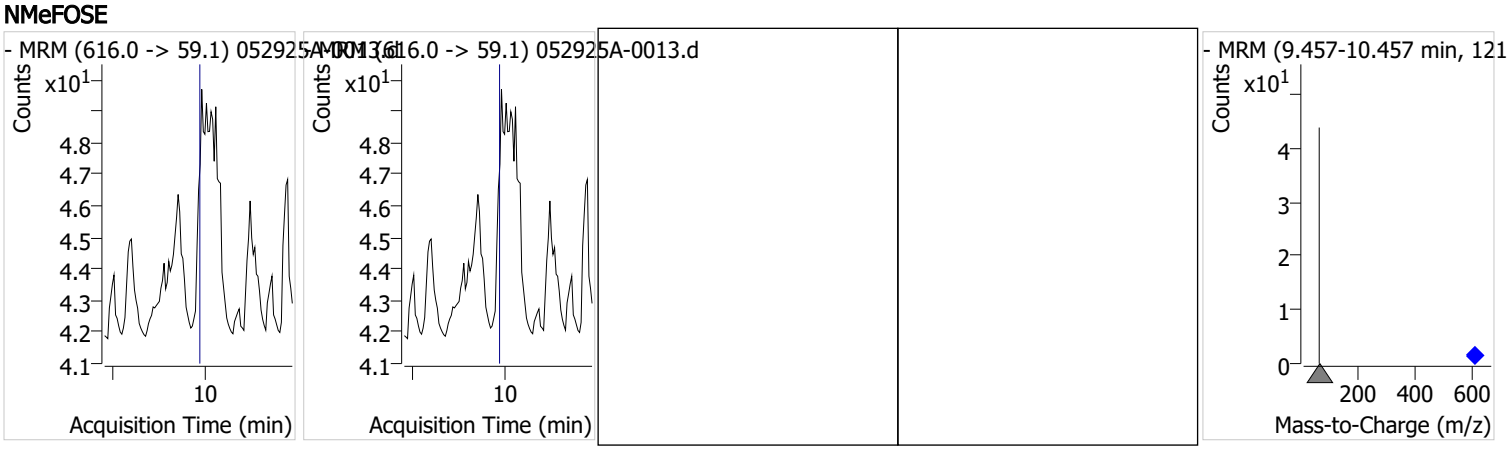
D5-NEtFOSA_ISTD



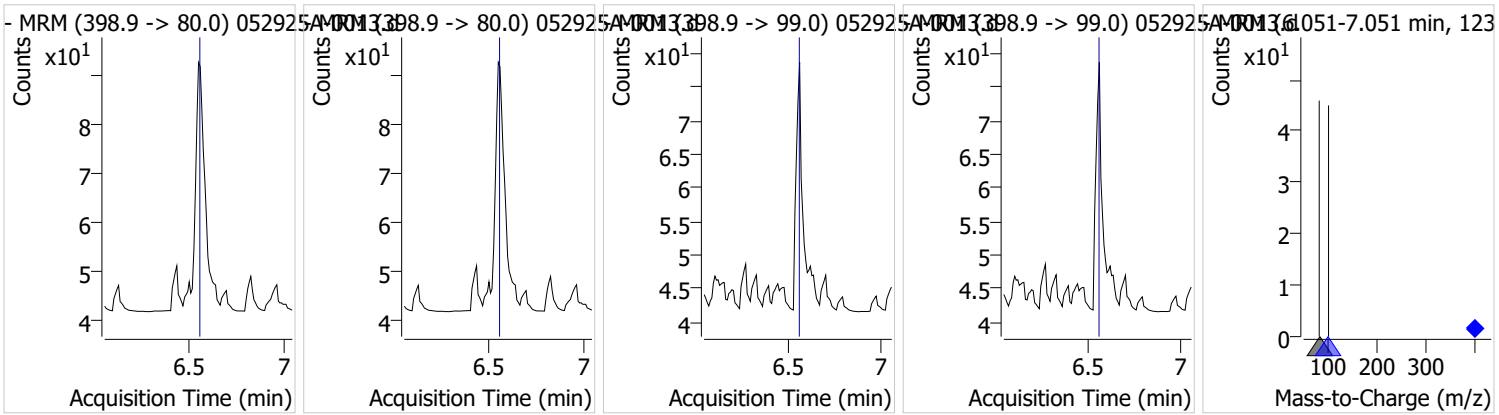
PFHxA



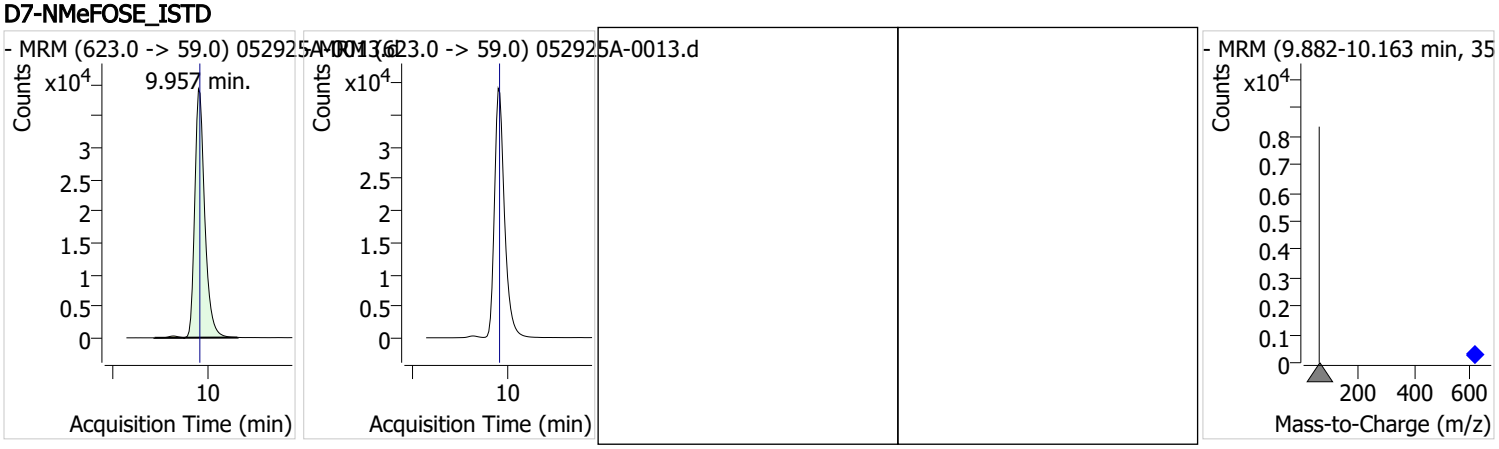
NMeFOSE



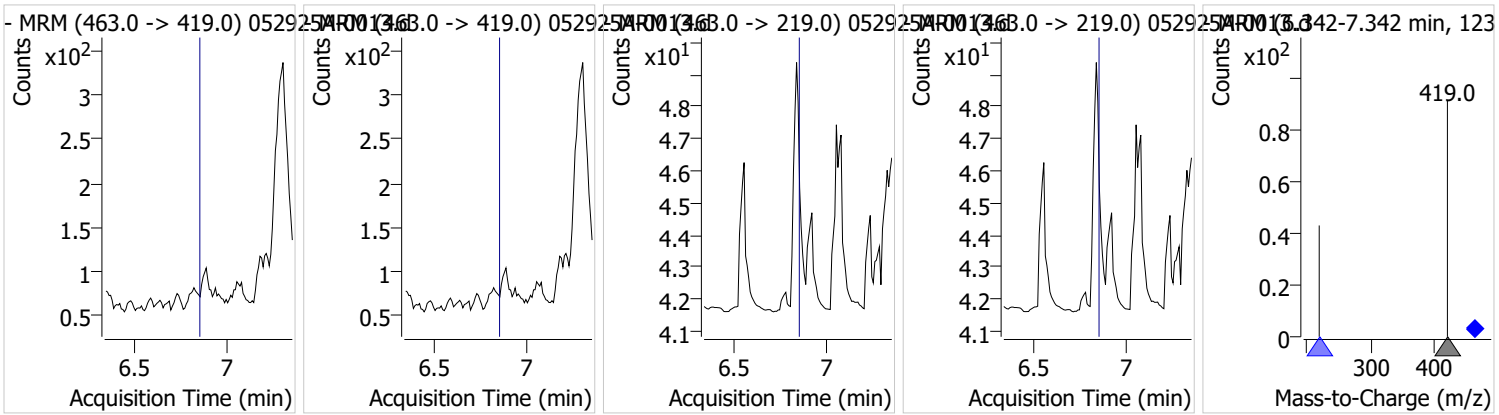
PFHxS



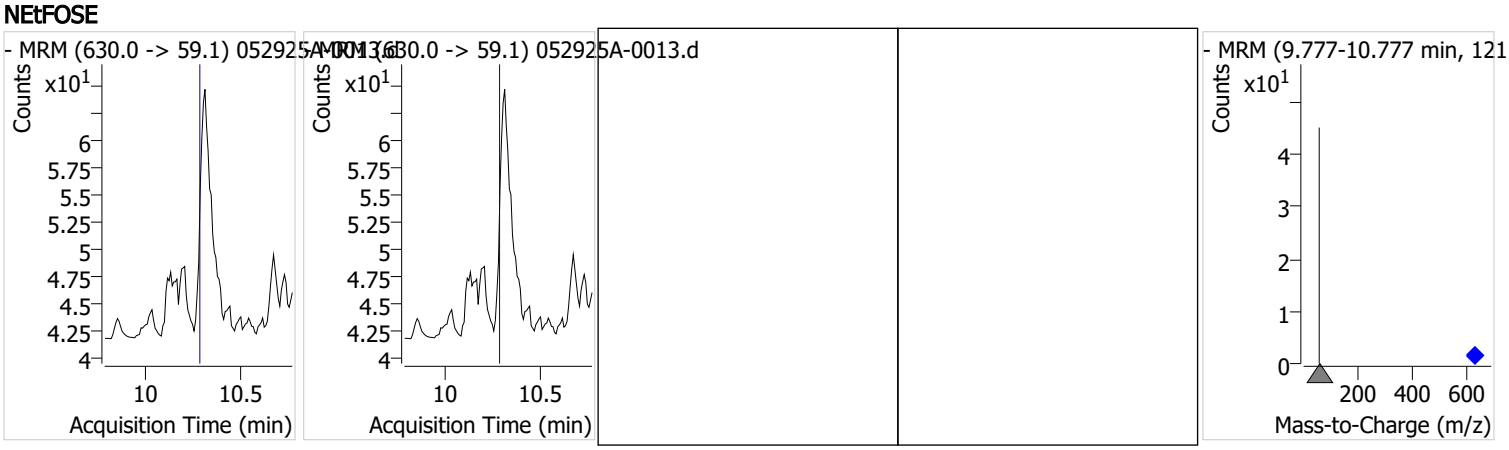
D7-NMeFOSE_ISTD



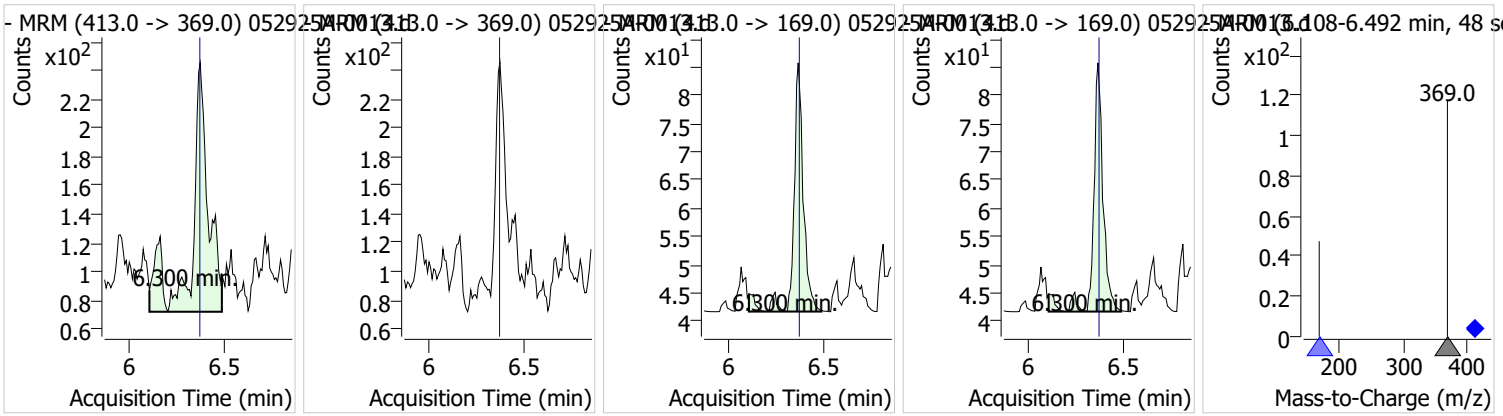
PFNA



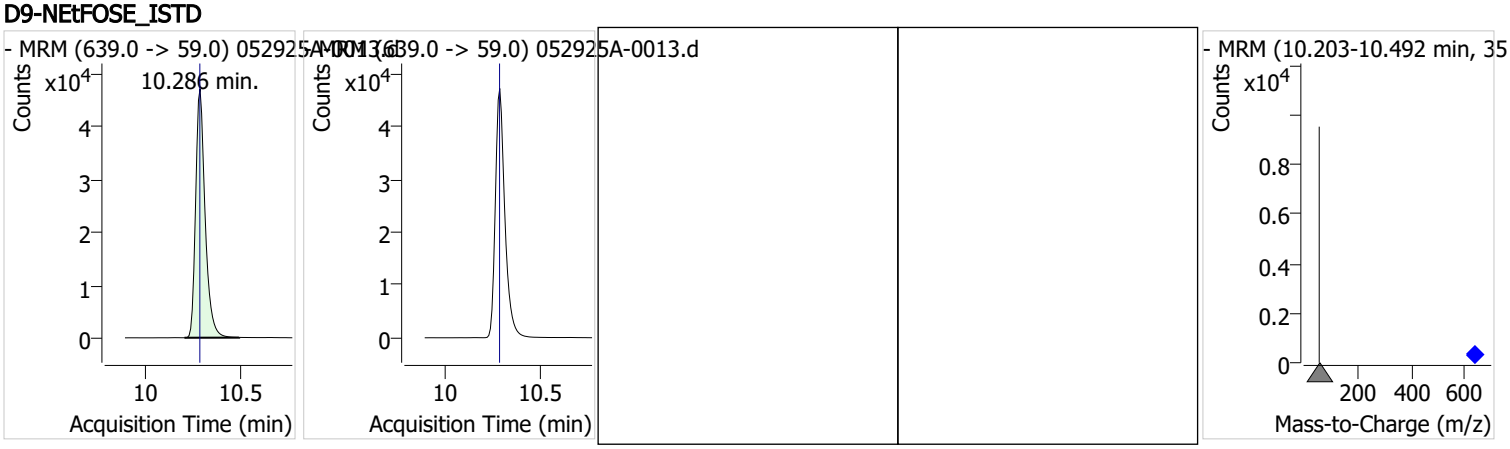
NEtFOSE



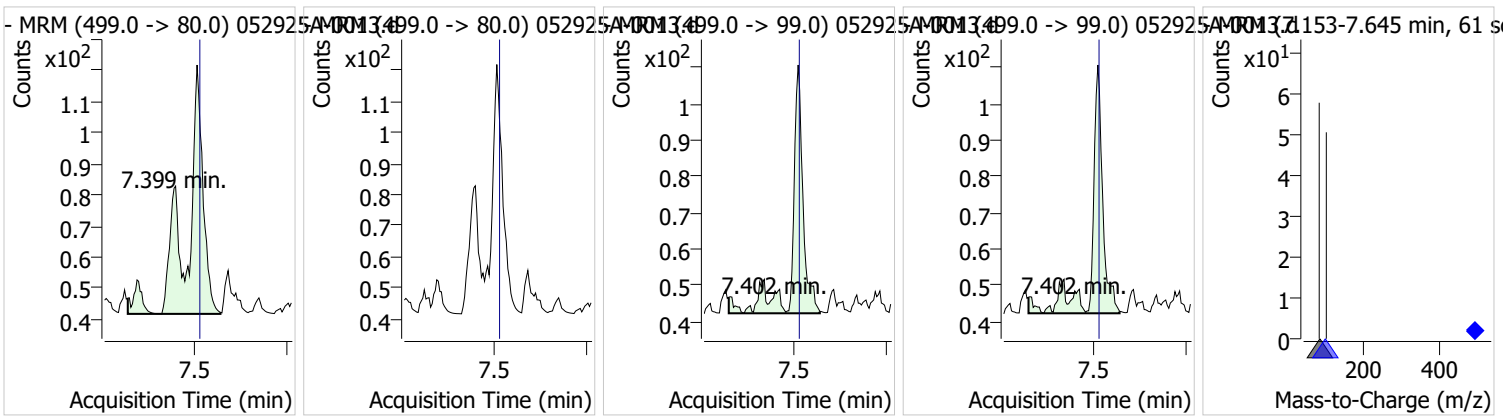
PFOA



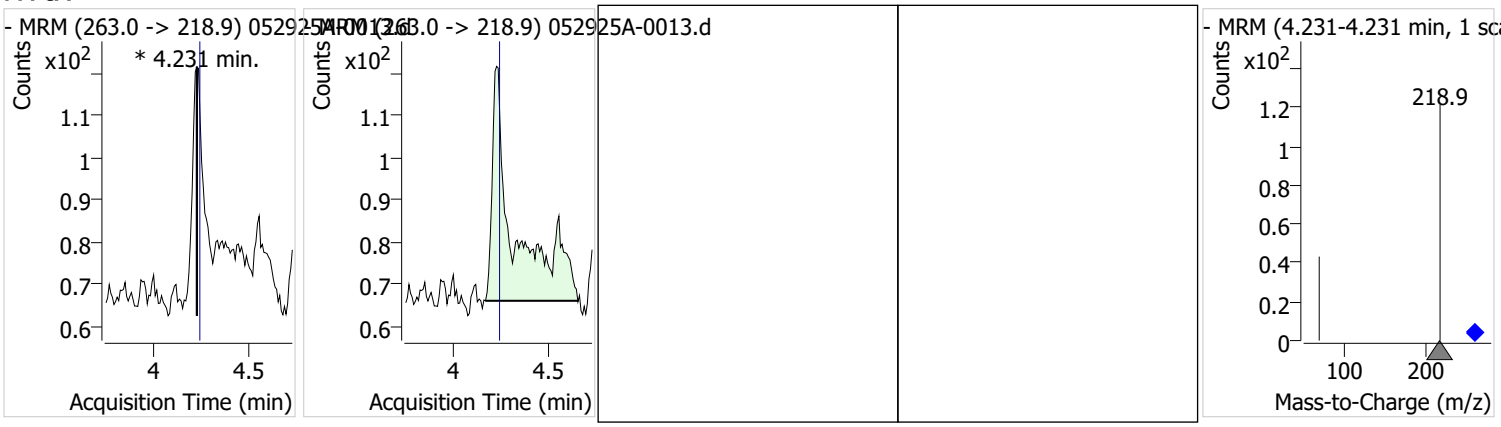
D9-NEtFOSE_ISTD



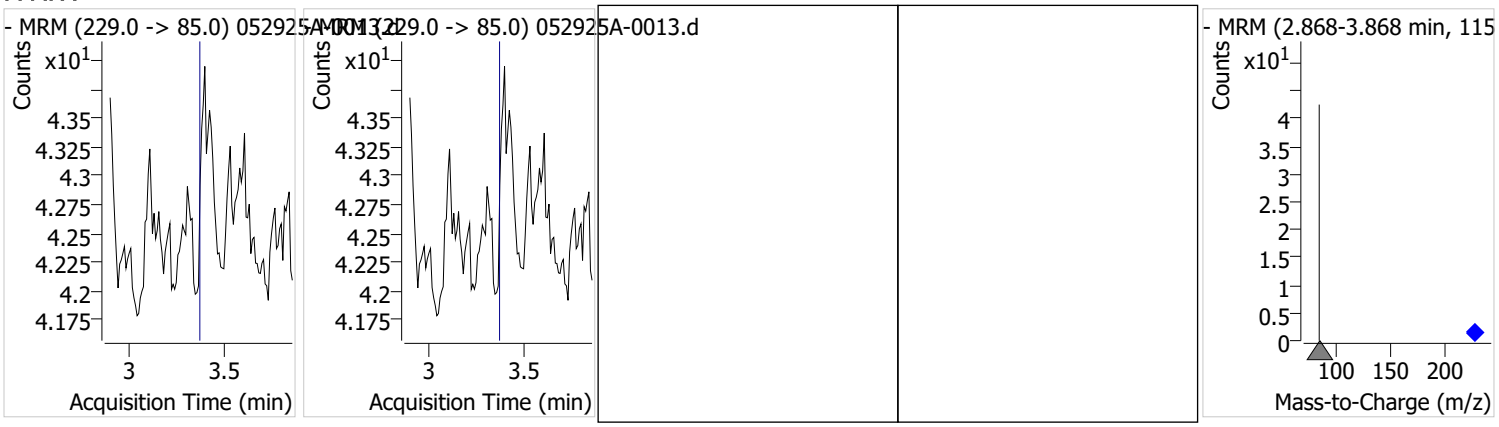
PFOS



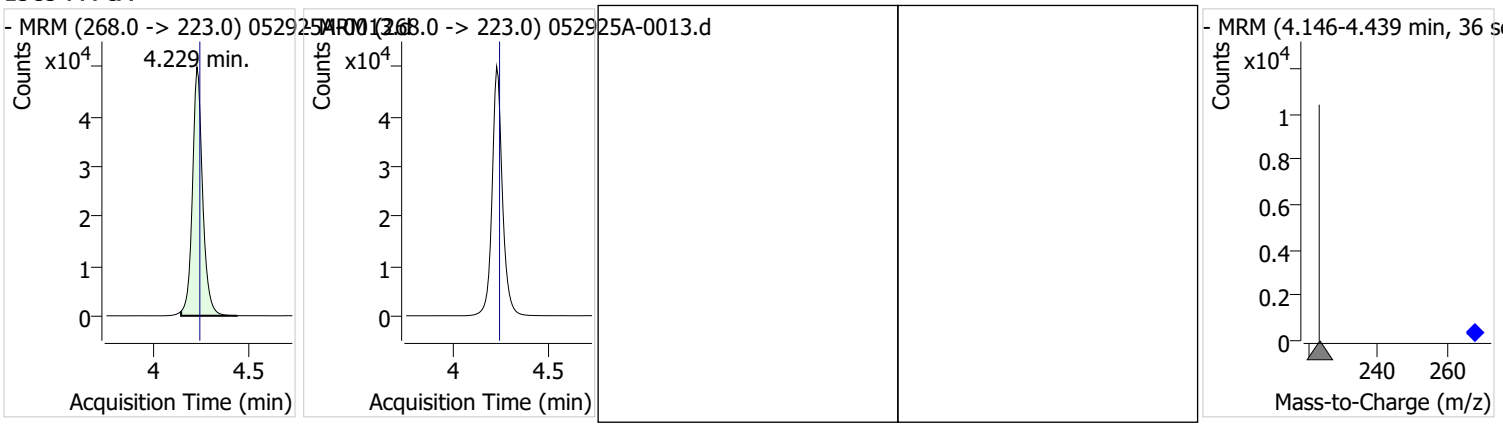
PFPeA



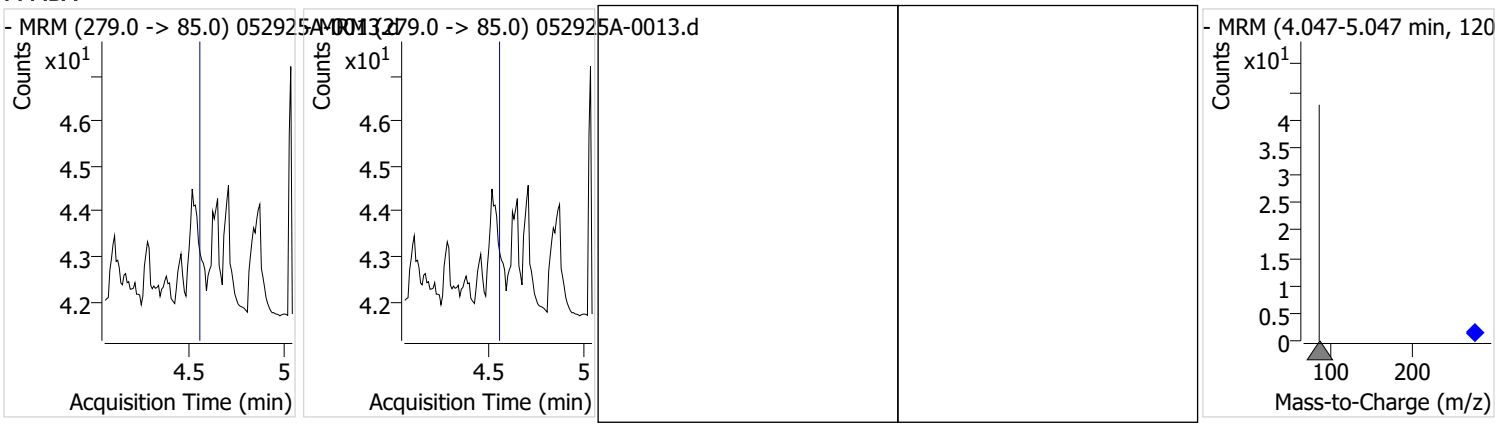
PFMPA



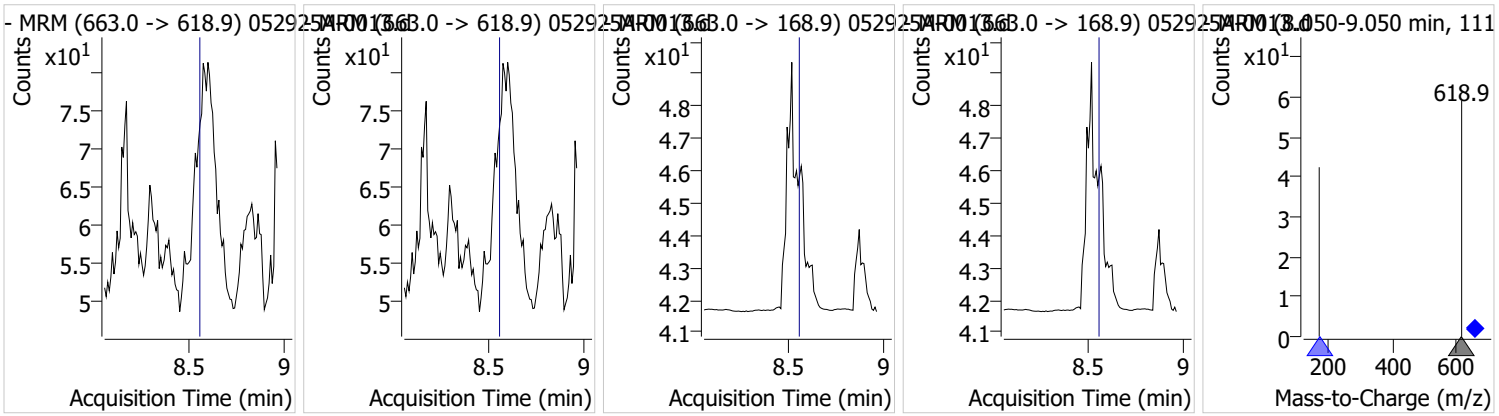
13C5-PFPeA



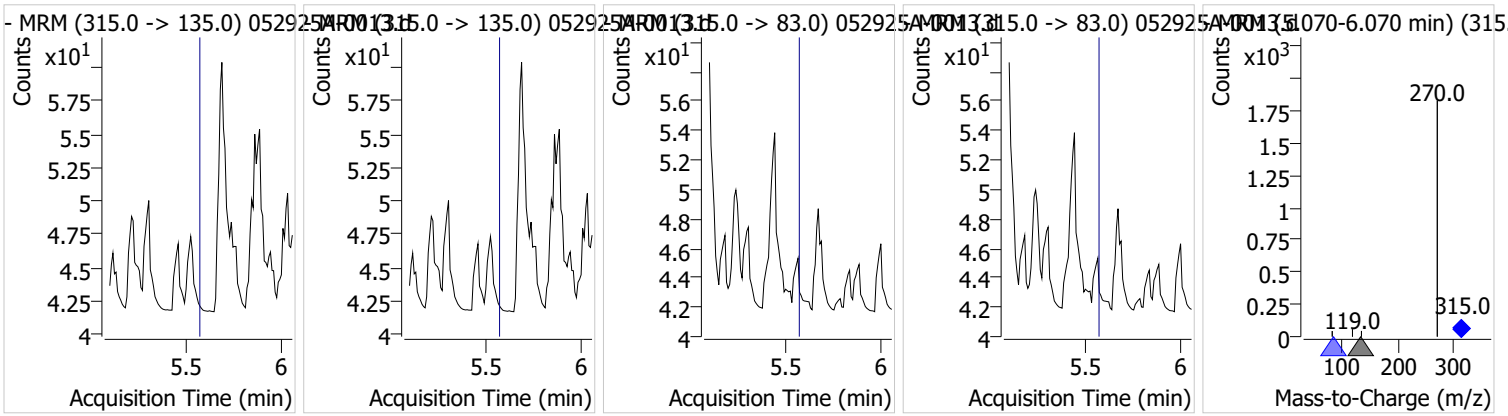
PFMBA



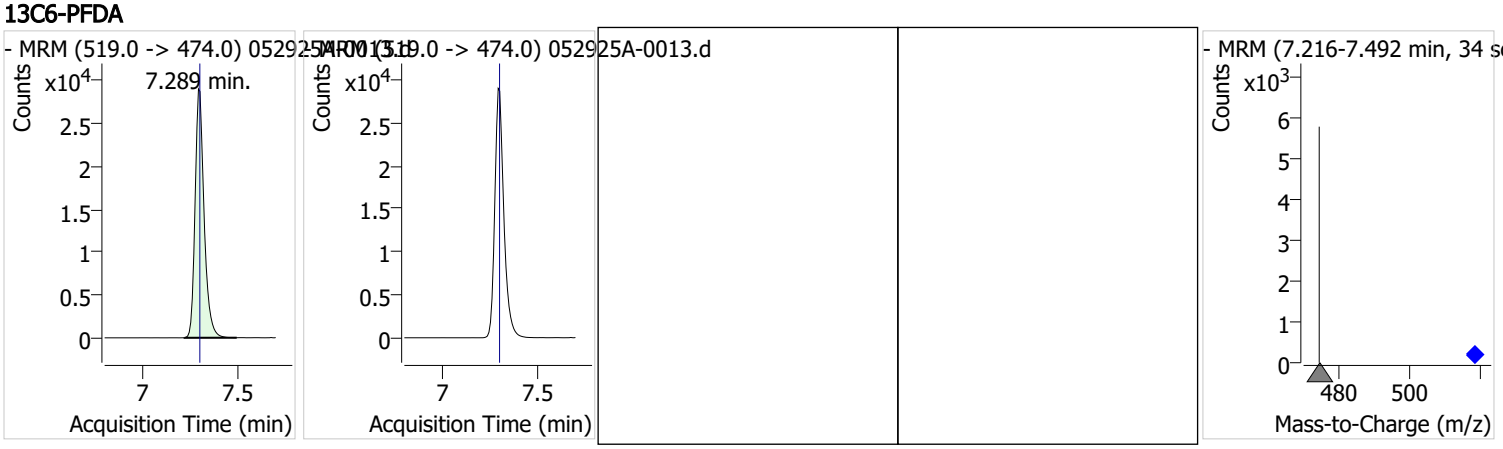
PFTrDA



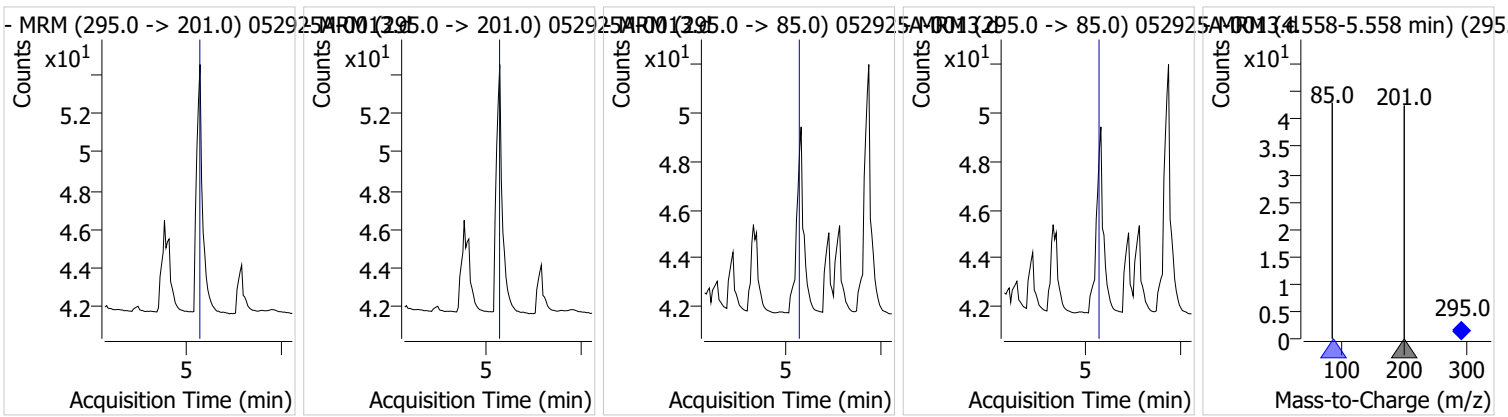
PFEESA



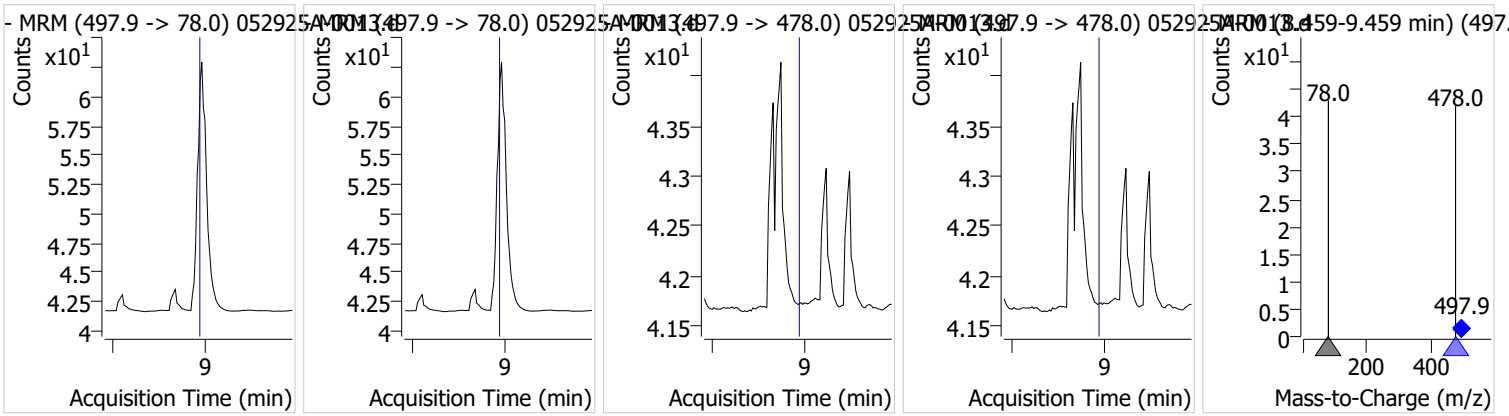
13C6-PFDA



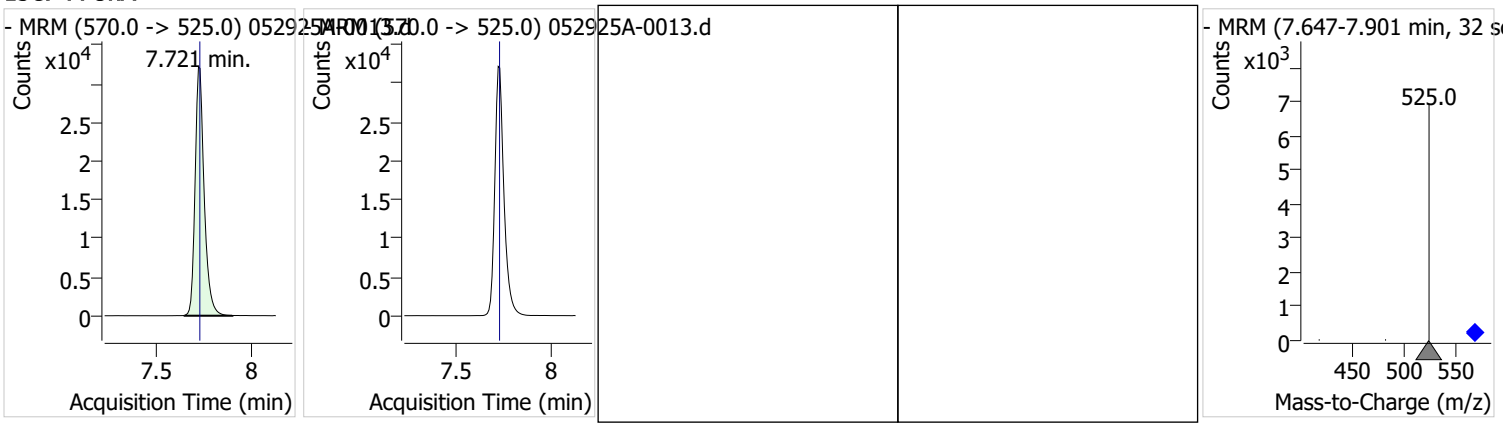
NFDHA



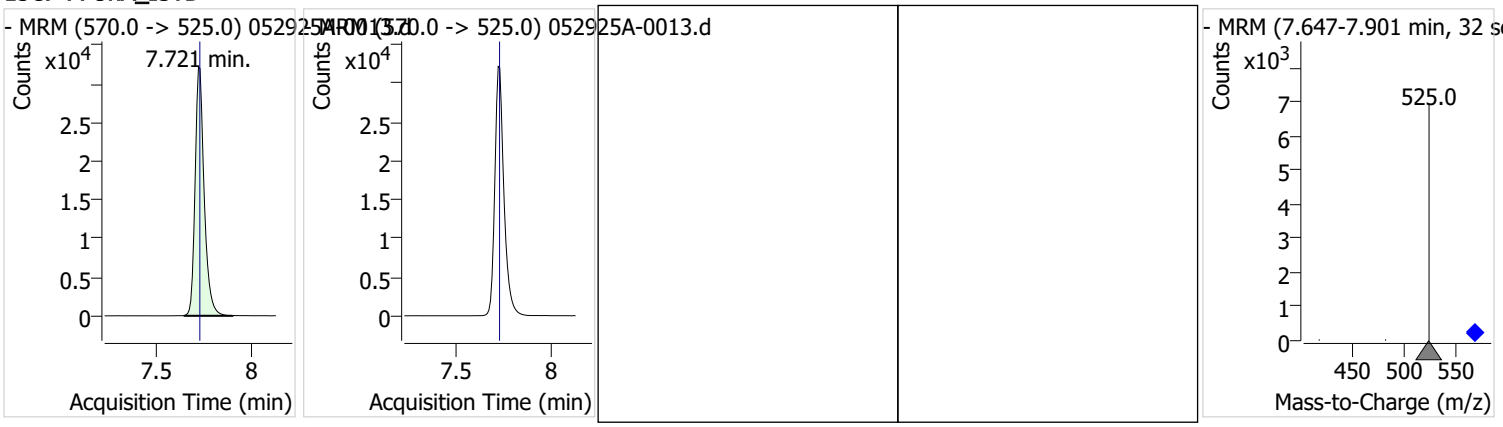
PFOSA



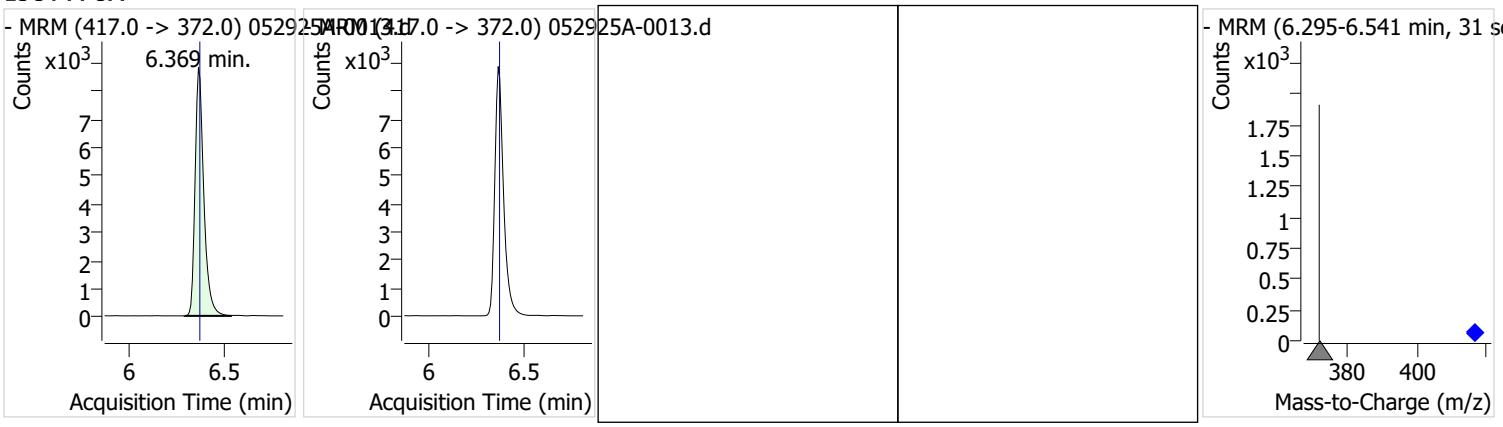
13C7-PFUnA



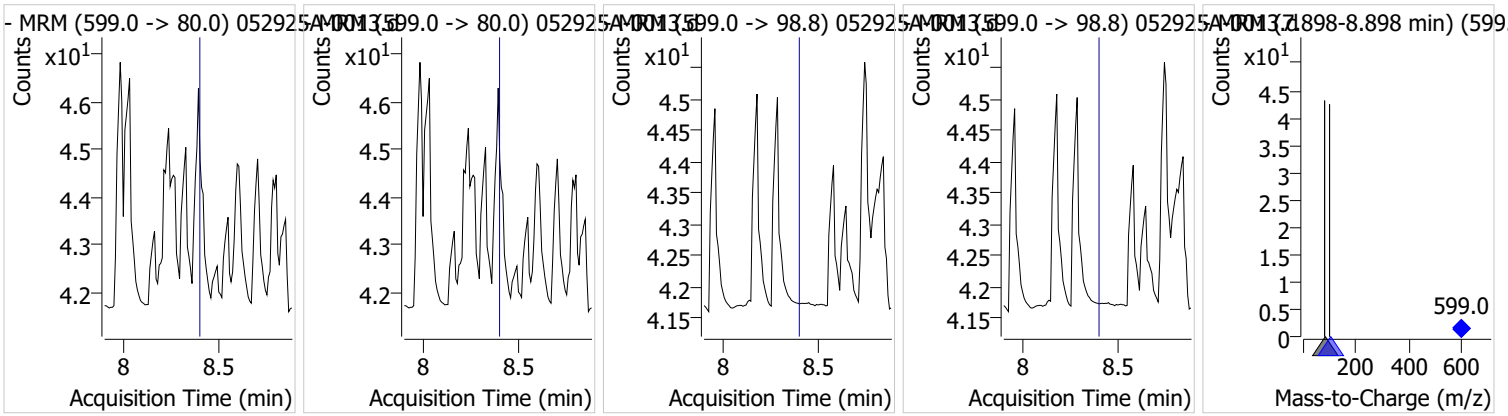
13C7-PFUnA_ISTD



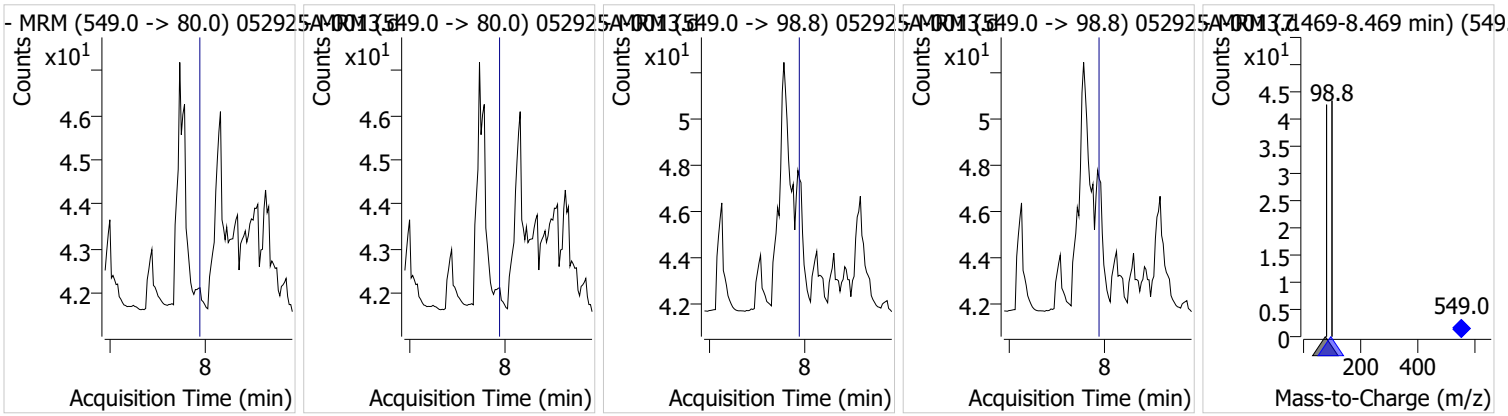
13C4-PFOA



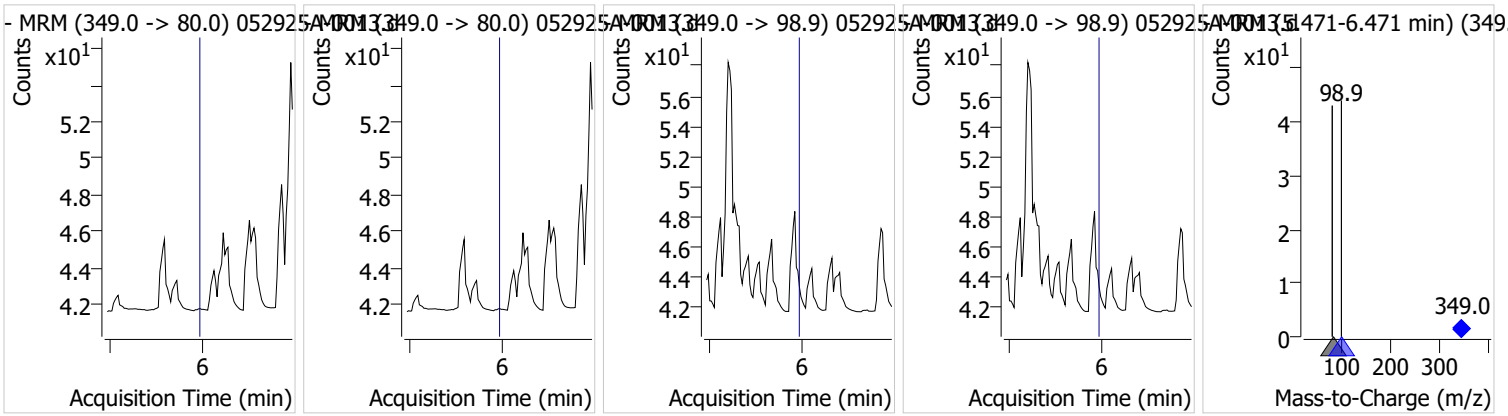
PFDS



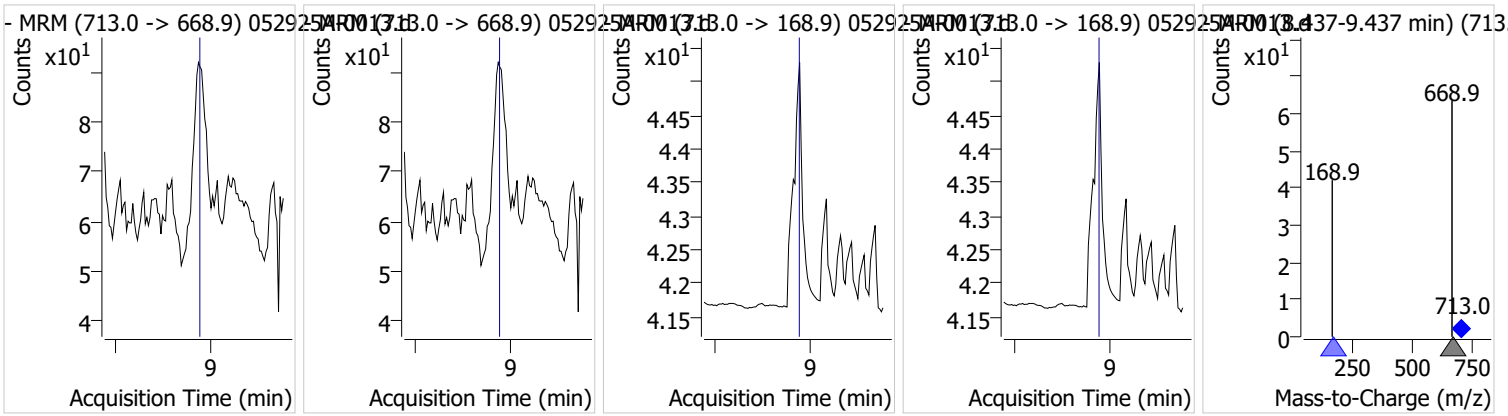
PFNS



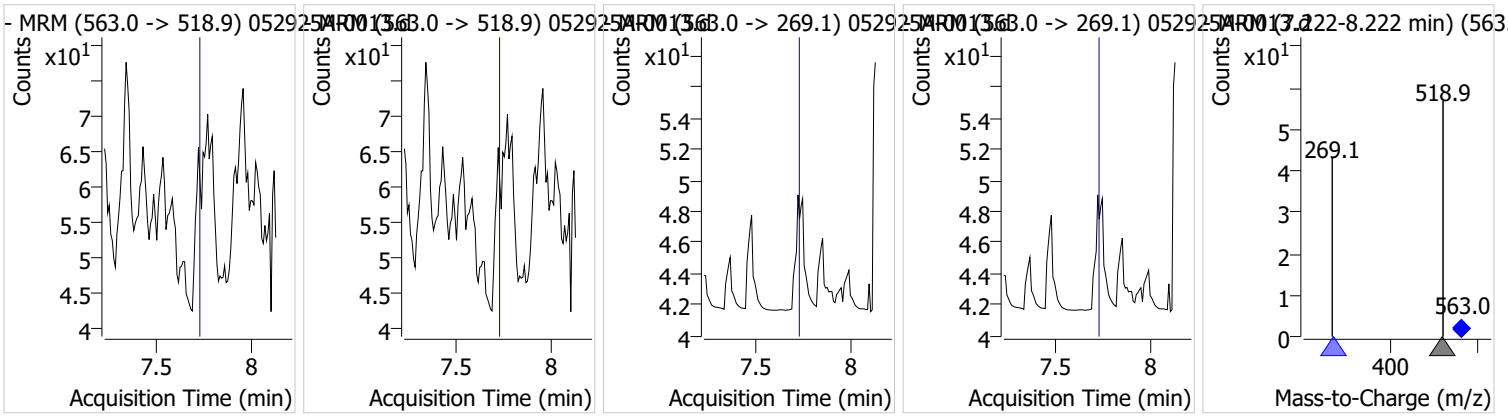
PFPeS



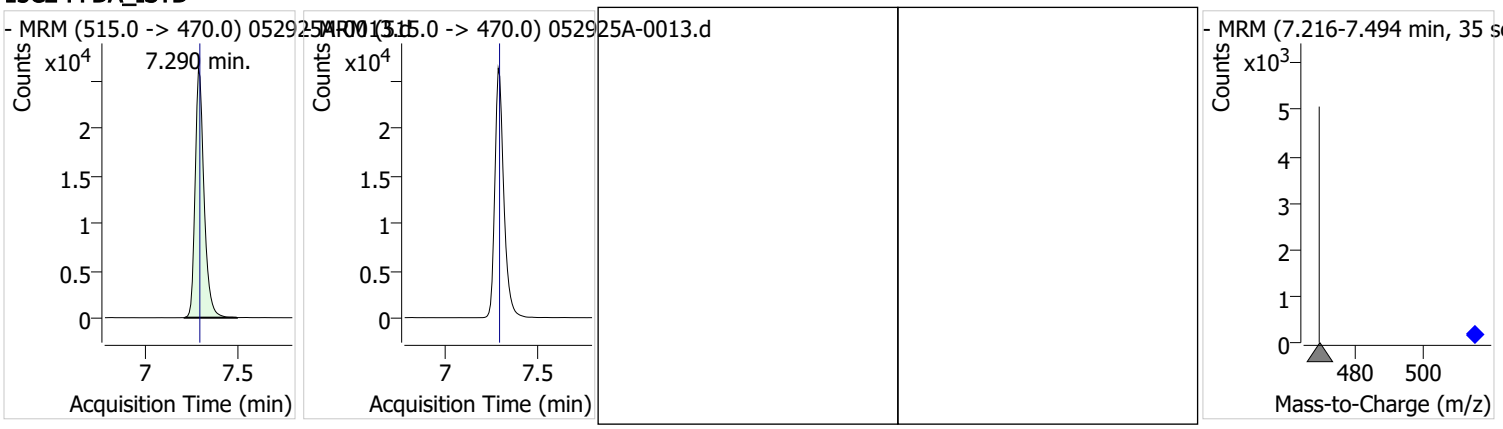
PFTeDA



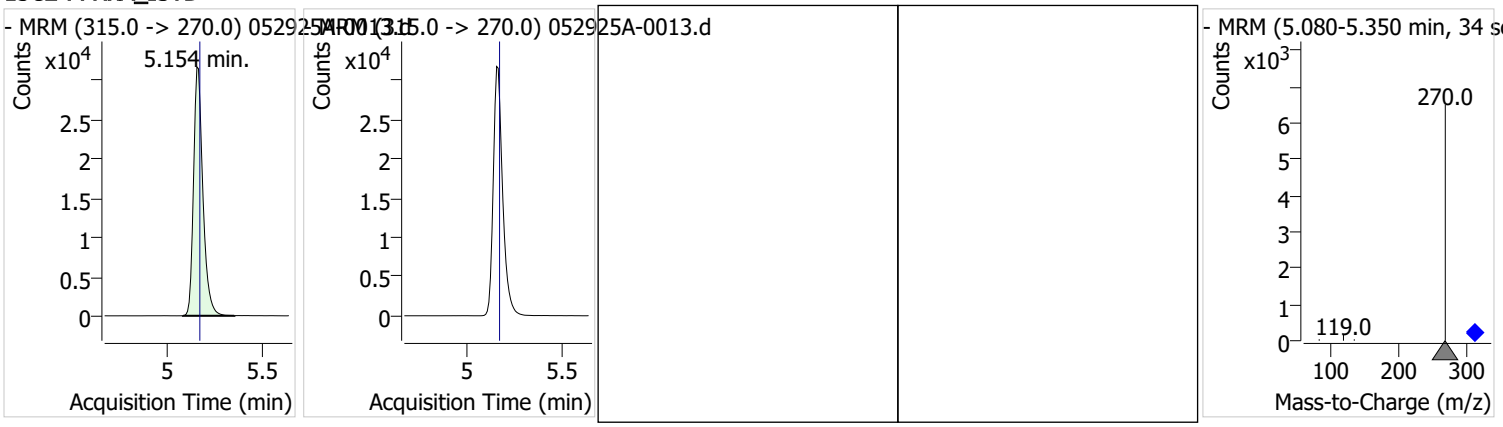
PFUnA



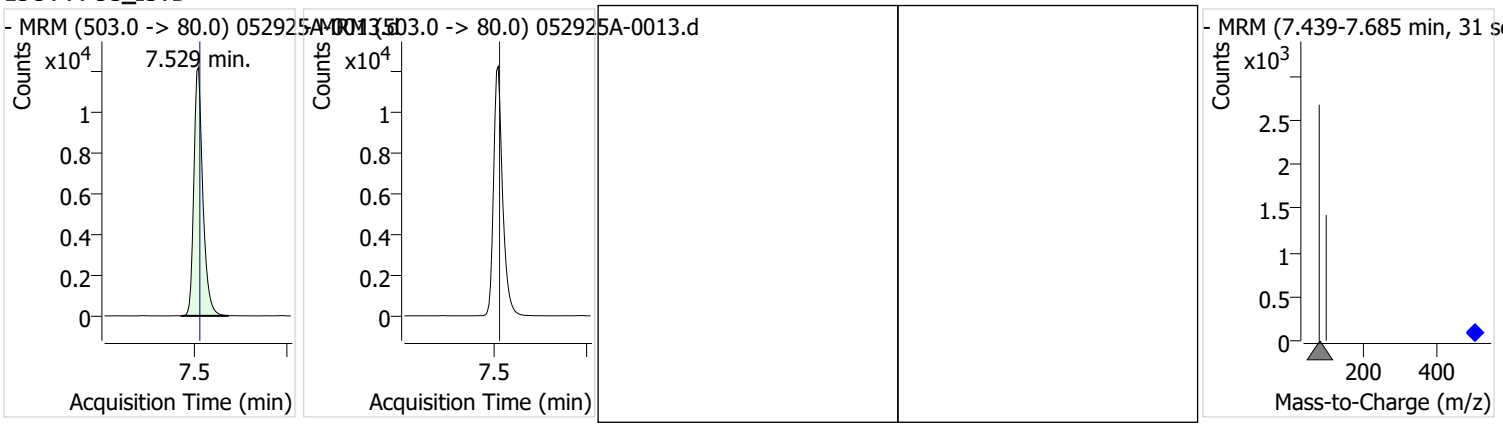
13C2-PFDA_ISTD



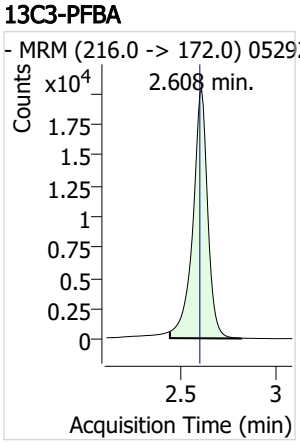
13C2-PFHxA_ISTD

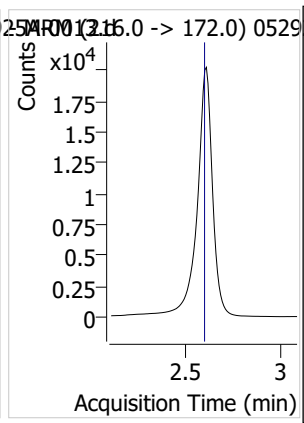


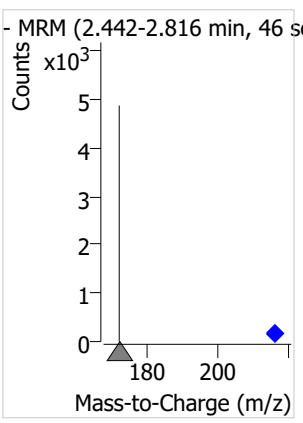
13C4-PFOS_ISTD



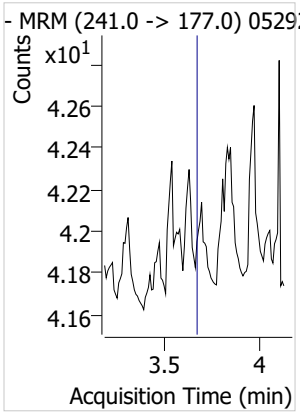
13C3-PFBA

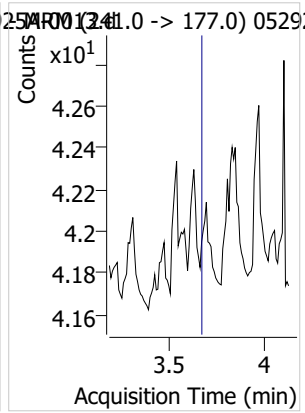


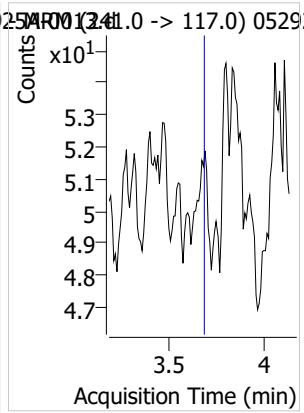


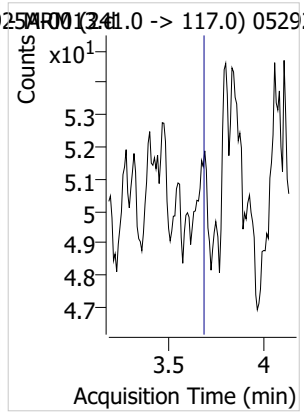


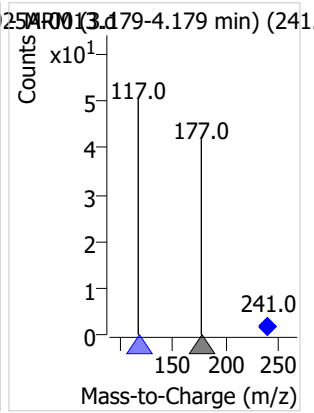
3:3FTCA



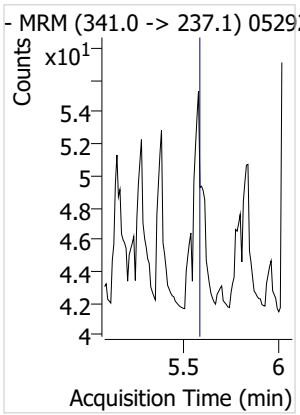


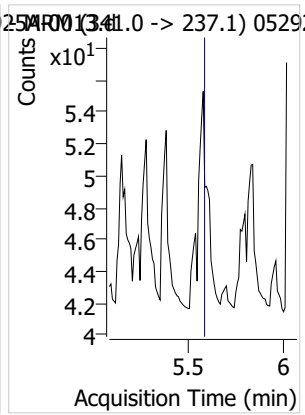


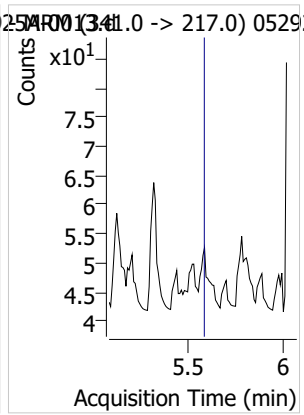


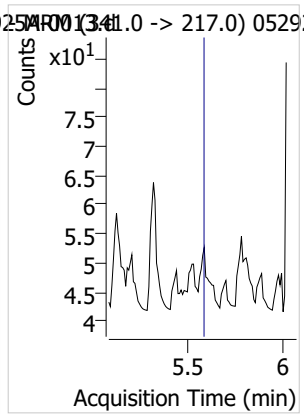


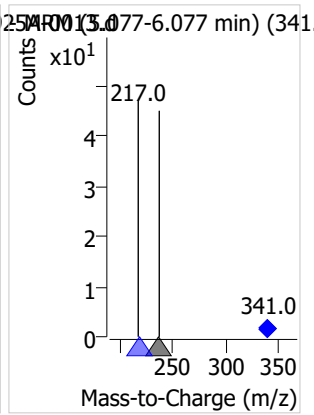
5:3FTCA



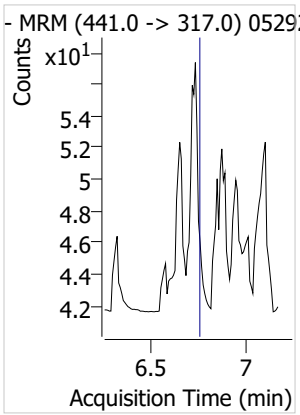


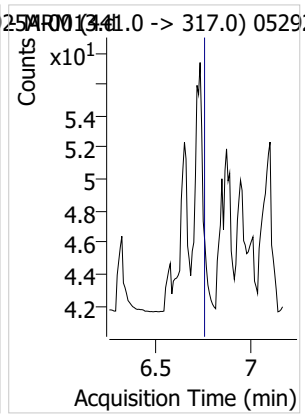


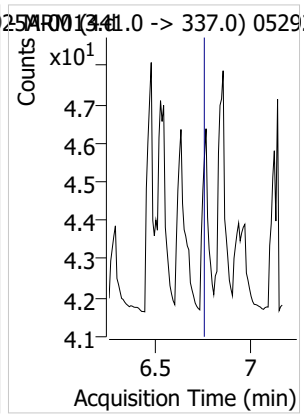


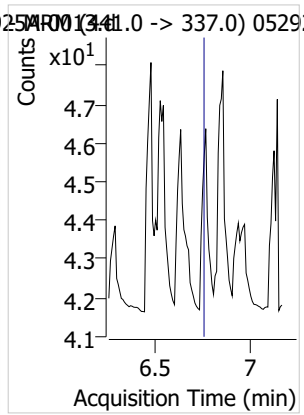


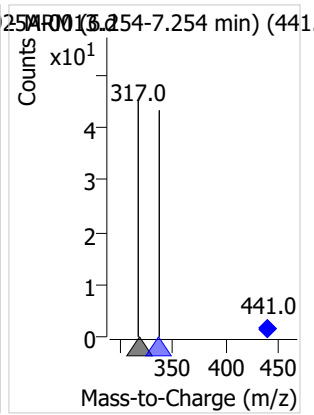
7:3FTCA



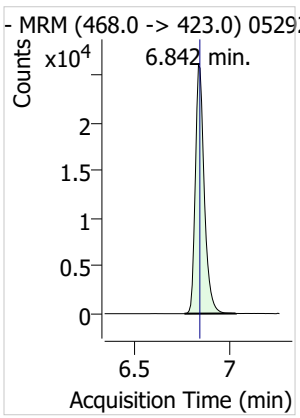


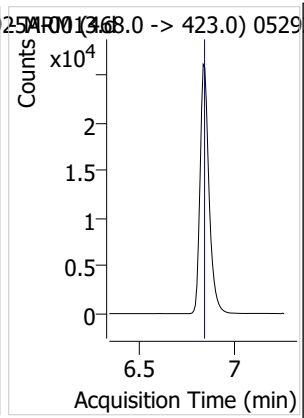


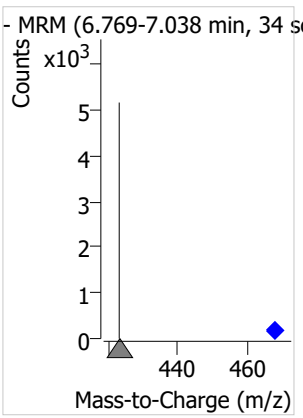




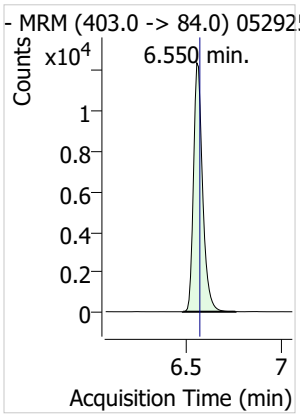
13C5-PFNA

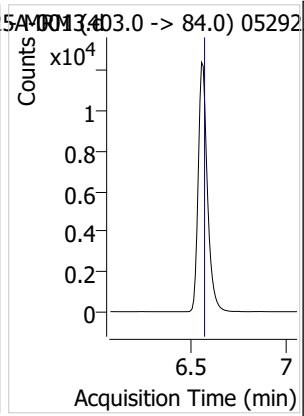


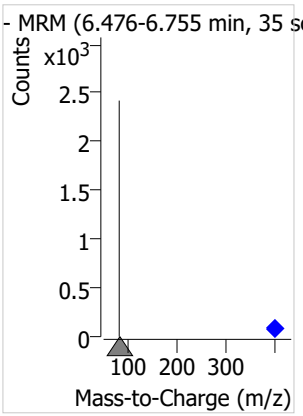




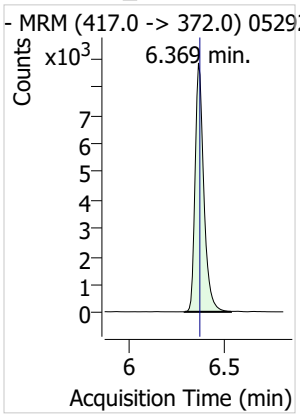
18O2-PFHxS

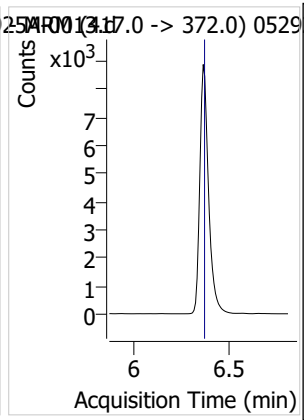


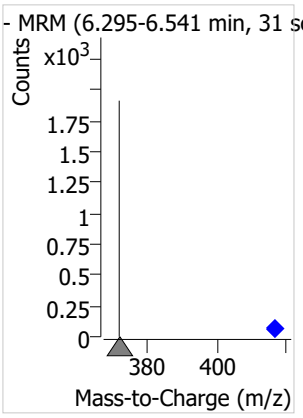




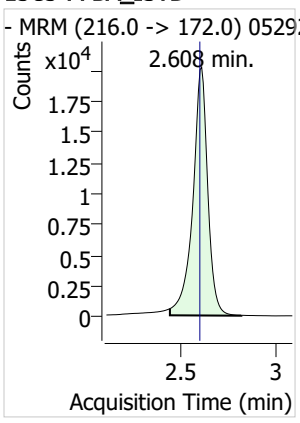
13C4-PFOA_ISTD

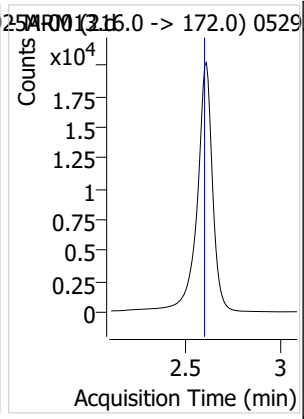


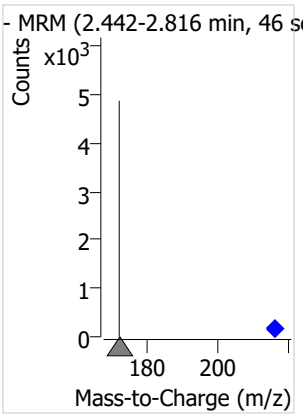




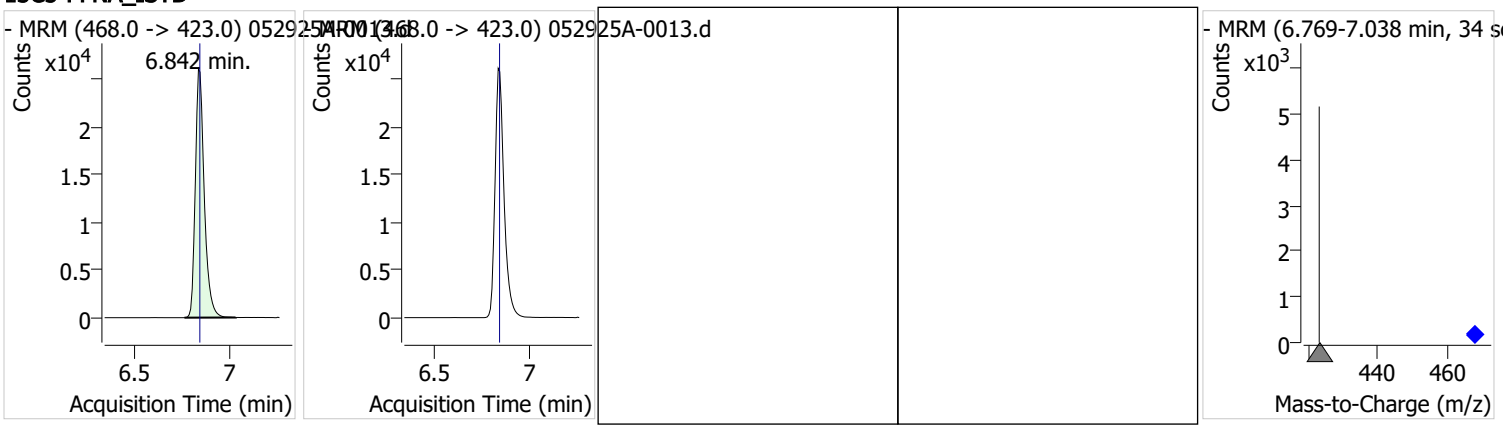
13C3-PFBA_ISTD



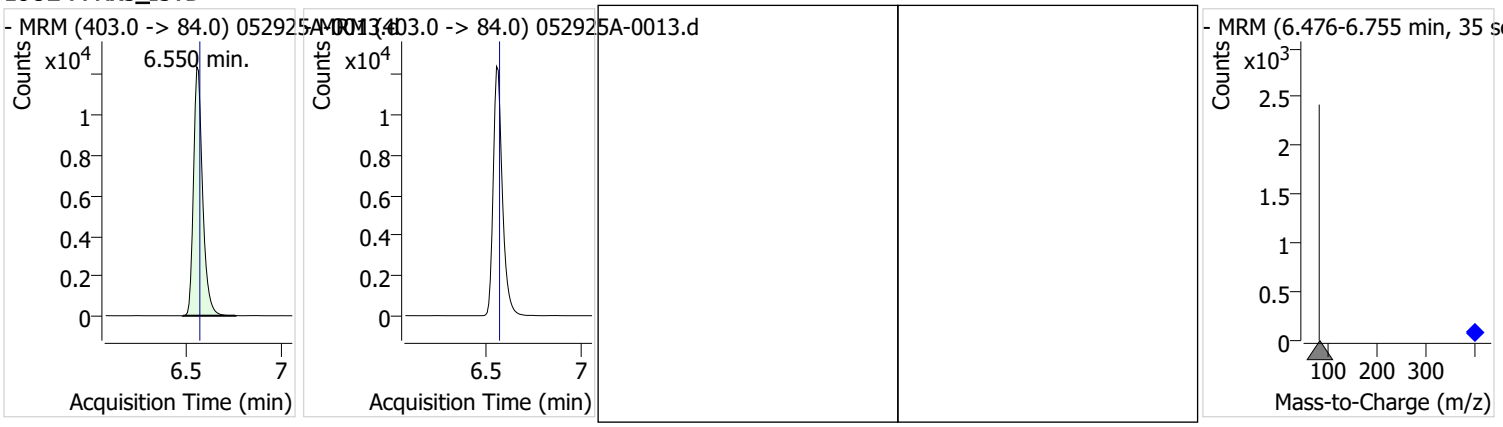




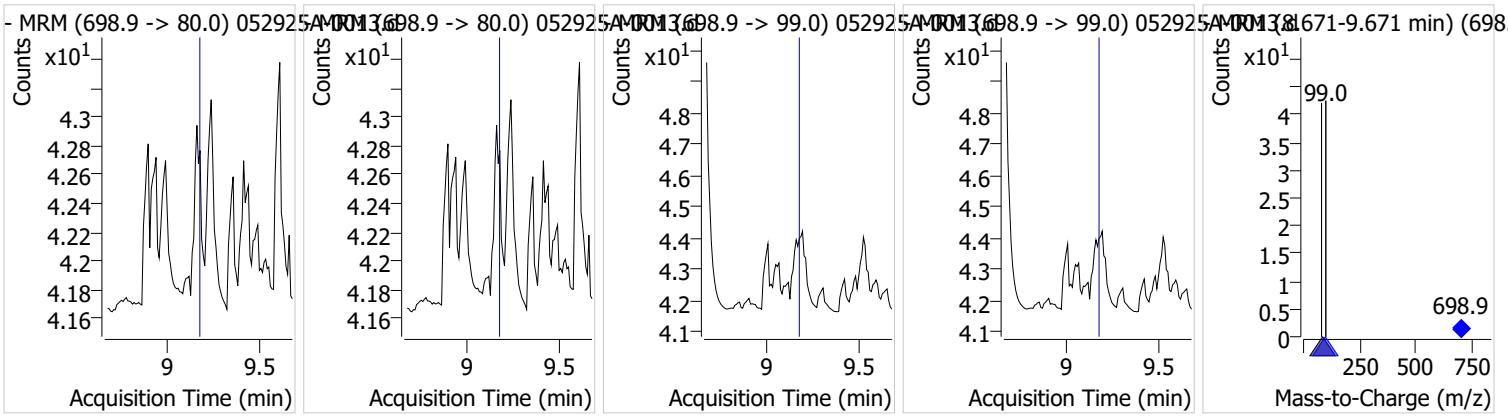
13C5-PFNA_ISTD



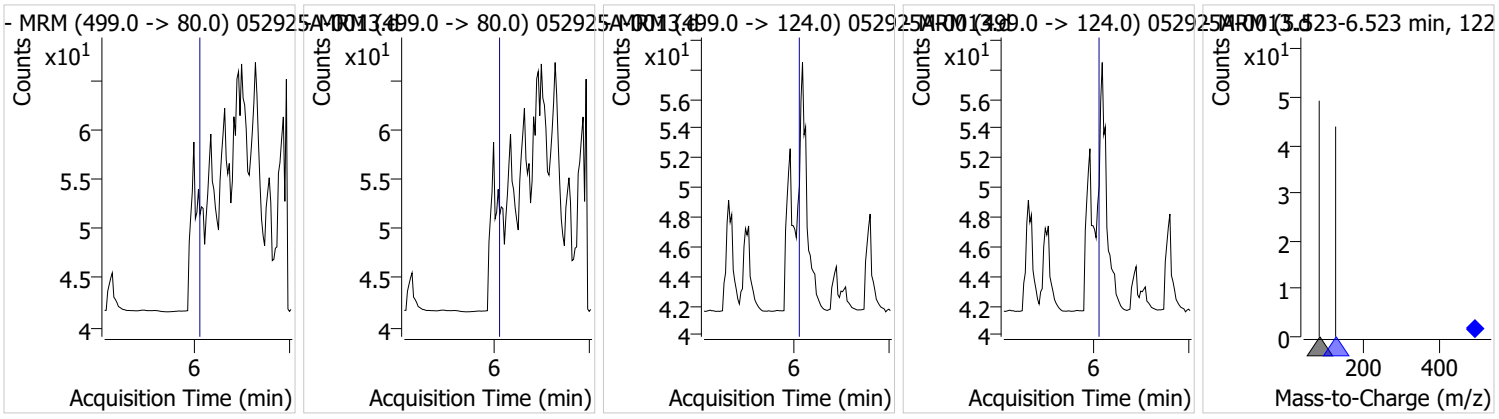
18O2-PFHxS_ISTD



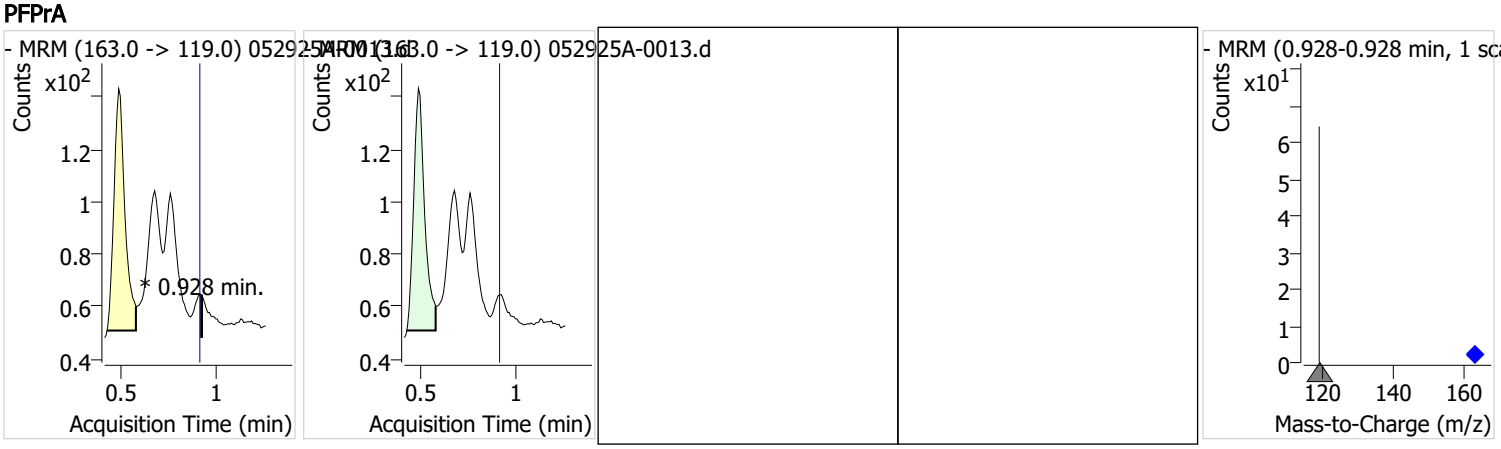
PFDoS



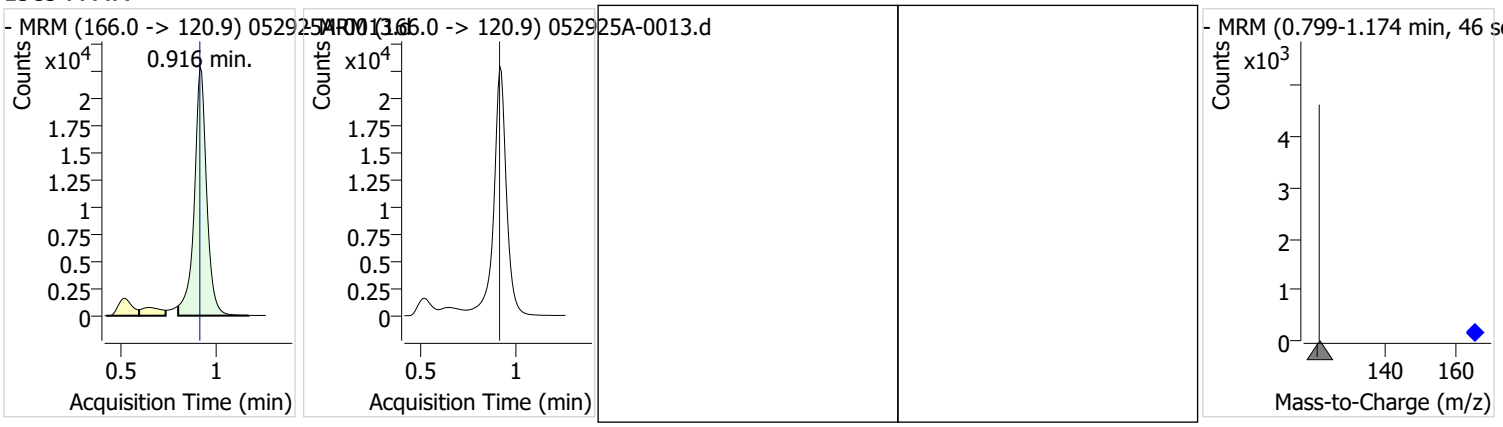
TDCA



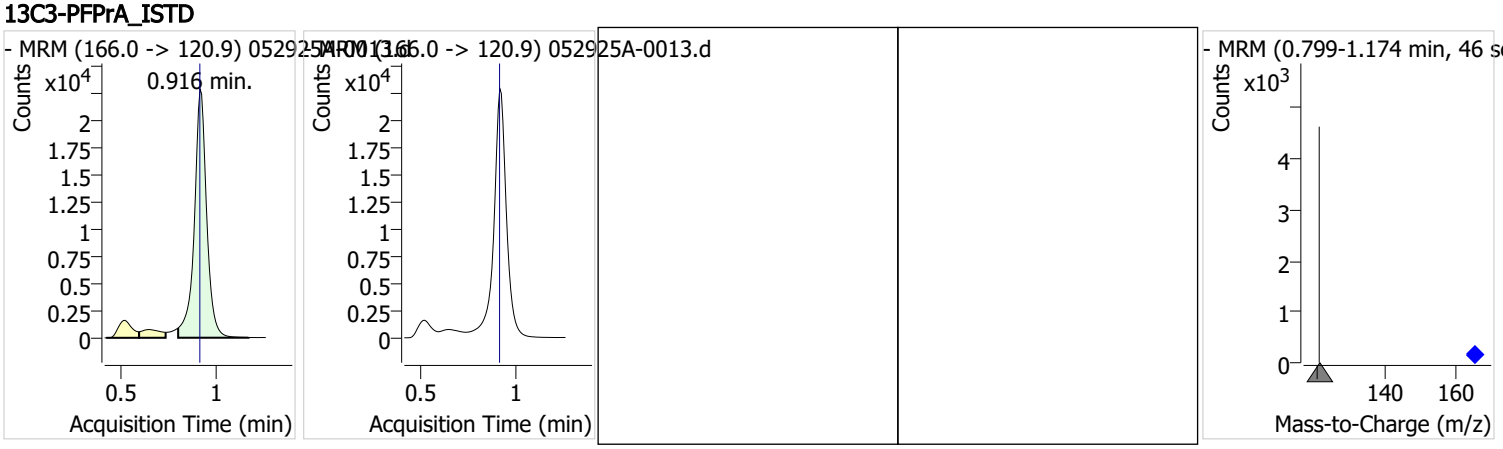
PFPrA



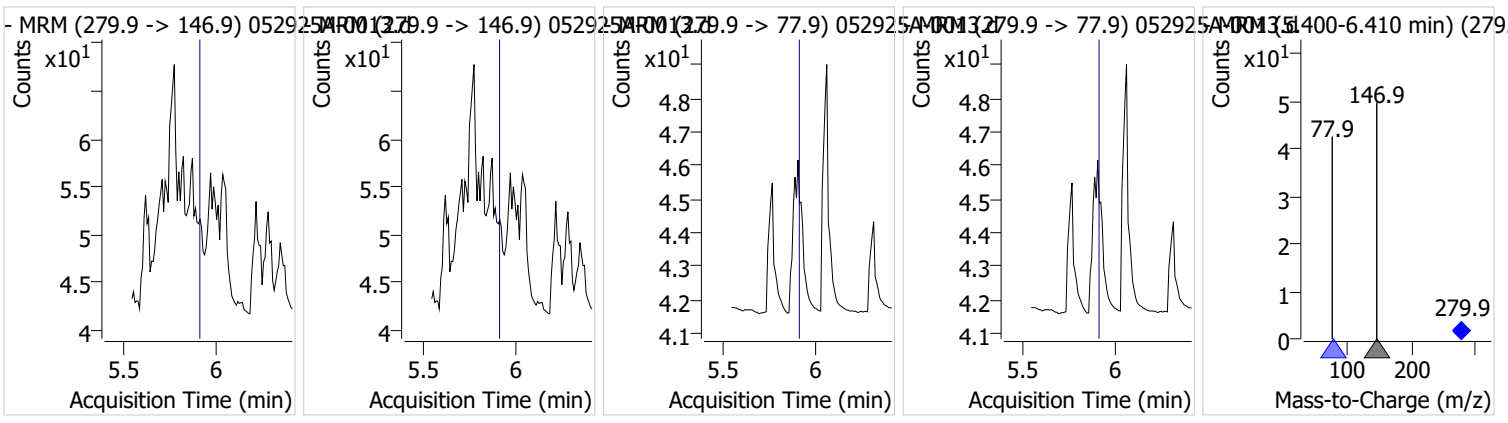
13C3-PFPrA



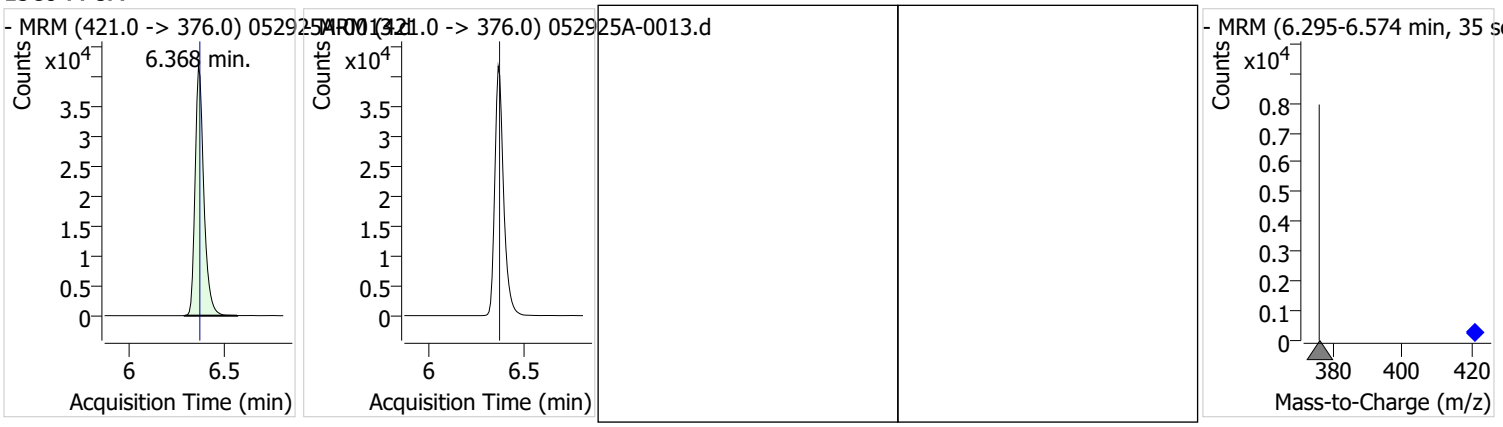
13C3-PFPrA_ISTD



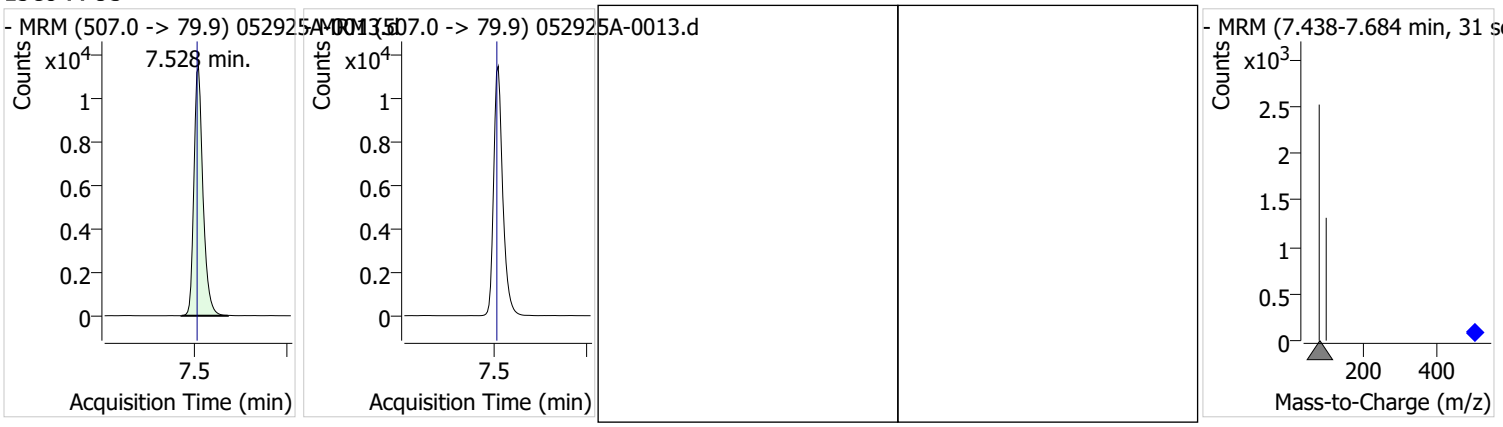
TFSI



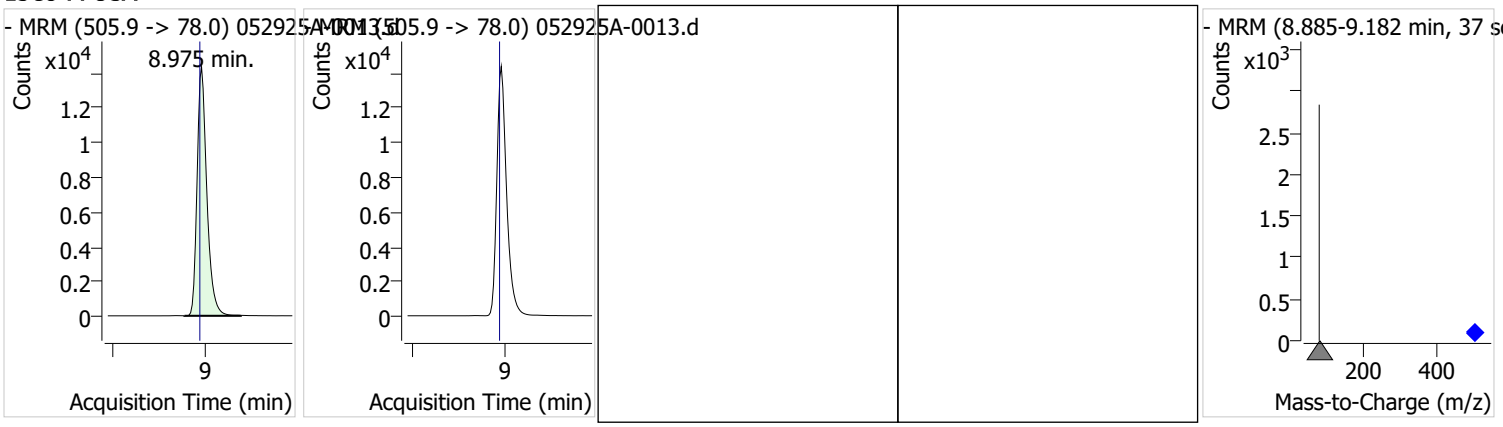
13C8-PFOA



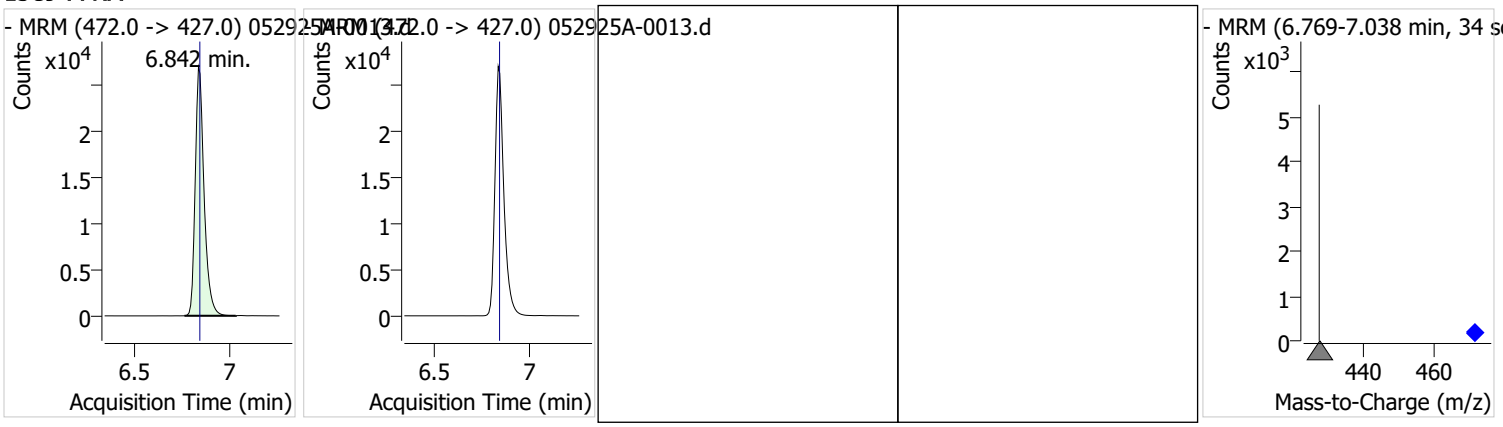
13C8-PFOS



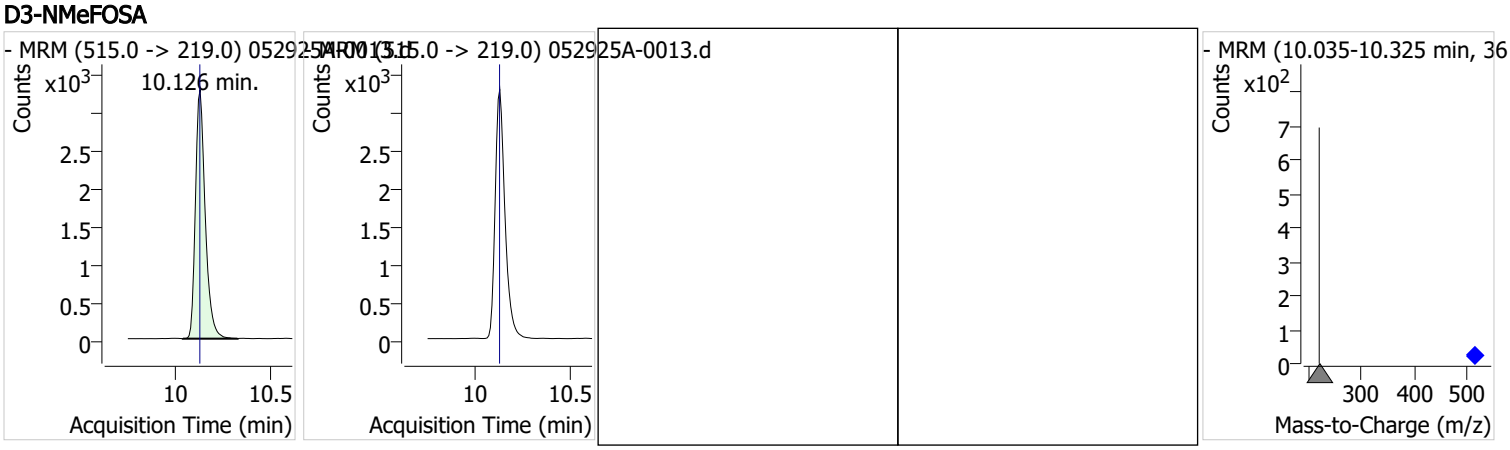
13C8-PFOSA



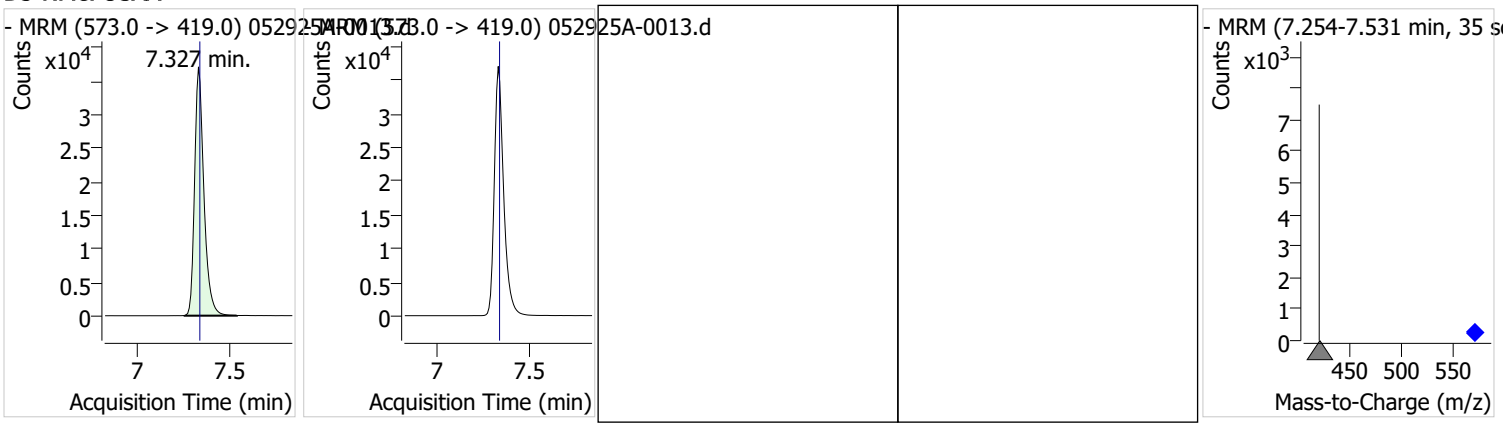
13C9-PFNA



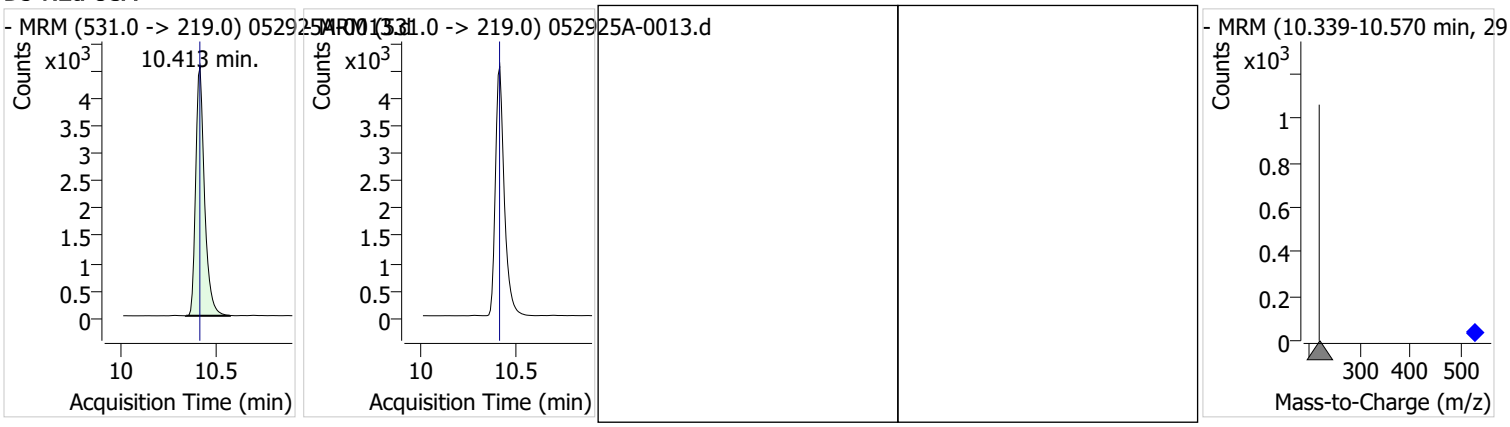
D3-NMeFOSA



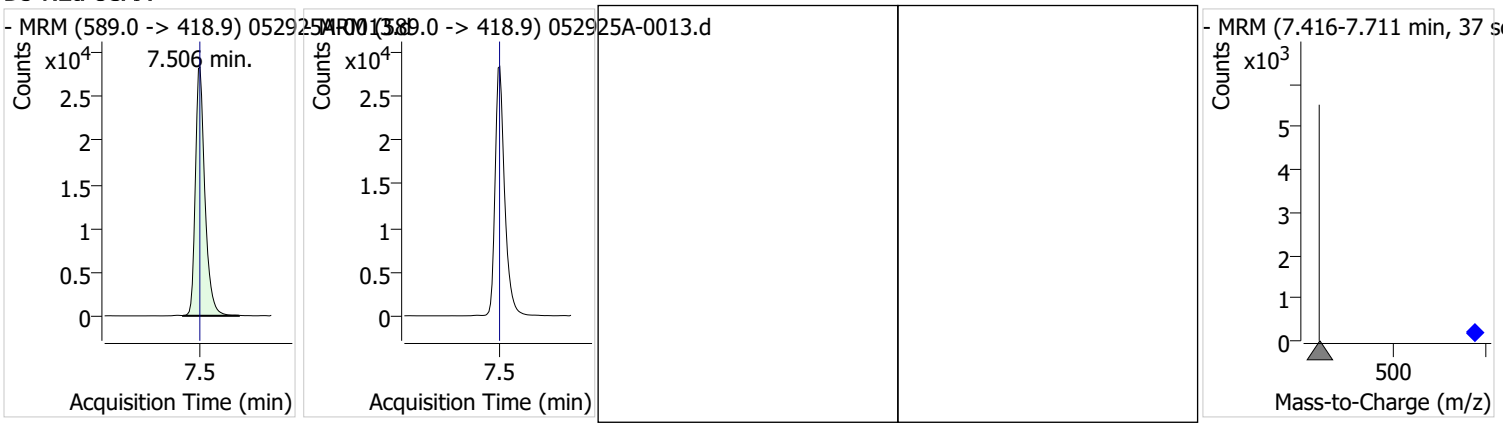
D3-NMeFOSAA



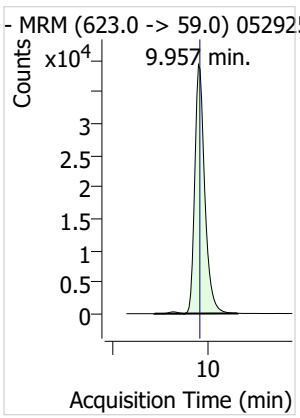
D5-NEtFOSA

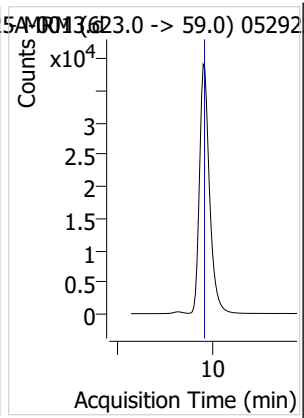


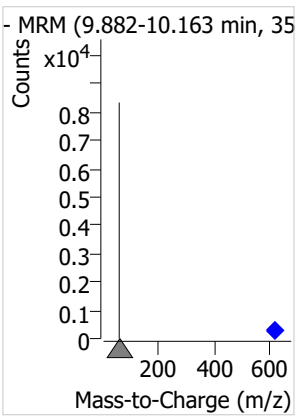
D5-NEtFOSAA



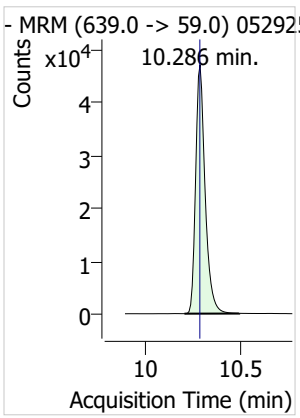
D7-NMeFOSE

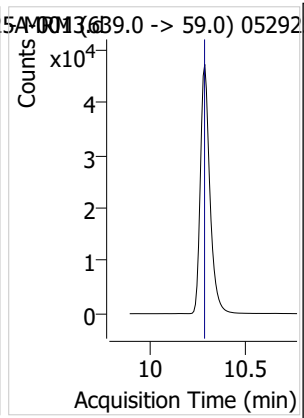


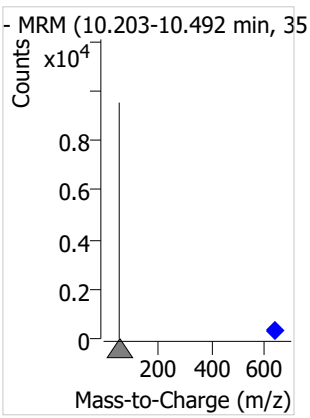




D9-NEtFOSE

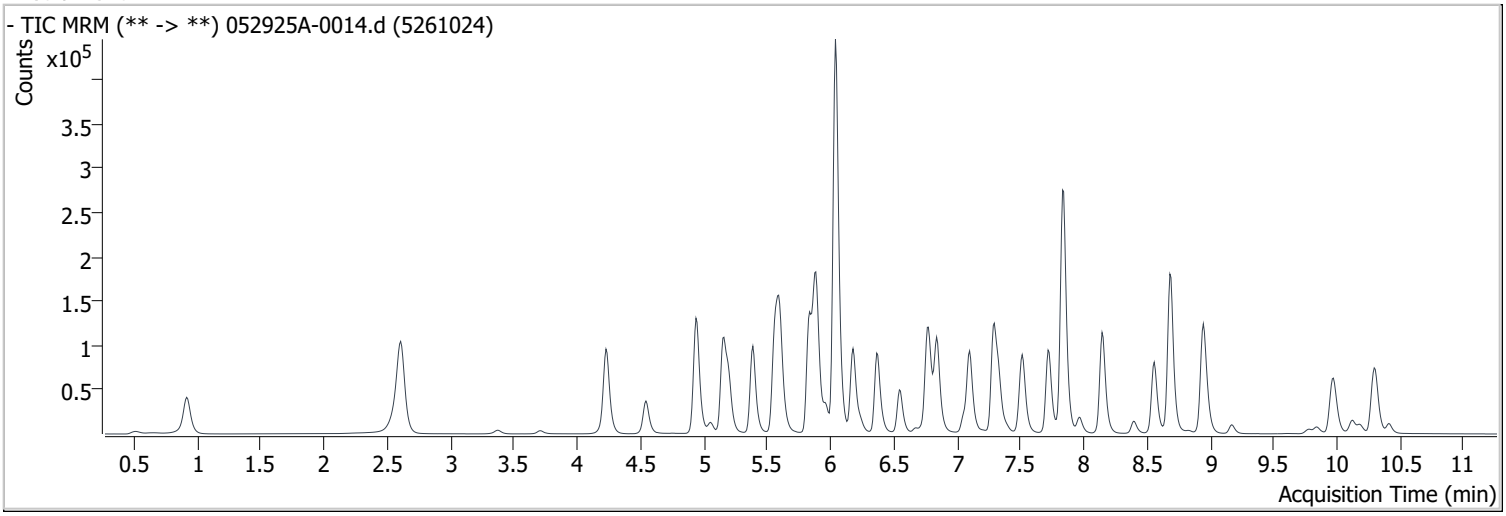






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-B 6320.batch.bin		
Analysis Time	5/30/2025 12:34 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 1:13 PM	**Data File**	052925A-0014.d
Sample Type	QC	**Sample Name**	5261024
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6367	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	95700	16825.08		13C3-HFPODA_ISTD	5.394	108398	8.9937	ng/ml			
285.0 -> 184.9	5.394	58435	1960.94	61.1								
4:2FTS	4.938	228321	46326.87		13C2-4:2FTS_ISTD	4.938	38401	9.0333	ng/ml			
327.0 -> 80.9	4.939	84219	7437.52	36.9								
6:2FTS	6.180	137483	41187.06		13C2-6:2FTS_ISTD	6.180	27955	9.1309	ng/ml			
427.0 -> 80.9	6.181	59690	7168.82	43.4								
ADONA	6.044	1037815	55208.35		13C4-PFHpA_ISTD	5.831	178613	8.9612	ng/ml			
377.0 -> 85.1	6.044	409976	1220329.79	39.5								
8:2FTS	7.100	138041	5898.93		13C2-8:2FTS_ISTD	7.100	27313	9.2204	ng/ml			
527.0 -> 81.0	7.101	59618	70272.46	43.2								
13C4-PFBA	2.606	241415	44351.79		13C3-PFBA_ISTD	2.608	107058	9.2650	ng/ml			
9Cl-PF3ONS	7.838	728528	39874.61		13C8-PFOS_ISTD	7.528	36285	8.8795	ng/ml			
533.0 -> 353.0	7.846	198766	7063.29	27.3								
11Cl-PF3OUdS	8.685	488561	80158.30		13C8-PFOS_ISTD	7.528	36285	8.5051	ng/ml			
633.0 -> 453.0	8.684	121269	10688.51	24.8								
PFHpS	7.055	42961	2083.27		13C8-PFOS_ISTD	7.528	36285	2.1334	ng/ml			
449.0 -> 98.8	7.055	19932	5352.51	46.4								
13C2-4:2FTS	4.938	38401	9028.96		18O2-PFHxS_ISTD	6.559	40194	5.5486	ng/ml			
13C2-6:2FTS	6.180	27955	121959.72		18O2-PFHxS_ISTD	6.559	40194	5.3608	ng/ml			
13C2-8:2FTS	7.100	27313	82542.63		18O2-PFHxS_ISTD	6.559	40194	5.2181	ng/ml			
13C2-PFDoA	8.146	115321	3263.75		13C2-PFDA_ISTD	7.290	85633	1.0779	ng/ml			
13C2-PFDA	7.290	85633	12864.08					1.7613	ng/ml			
13C2-PFHxA	5.154	107011	3414.73					3.4718	ng/ml			
13C2-PFTeDA	8.944	117799	34543.54		13C2-PFDA_ISTD	7.290	85633	0.9799	ng/ml			
13C4-PFOS	7.529	40380	89329.27					3.6632	ng/ml			
13C3-HFPODA	5.394	108398	33078.93		13C2-PFHxA_ISTD	5.154	107011	9.4808	ng/ml			
13C3-PFBS	5.196	62696	8839.88		18O2-PFHxS_ISTD	6.559	40194	2.2847	ng/ml			
13C3-PFHxS	6.551	44109	52961.56		18O2-PFHxS_ISTD	6.559	40194	2.3738	ng/ml			
NEtFOSAA	7.434	37955	1727.93		D5-NEtFOSAA_ISTD	7.506	92094	2.1169	ng/ml			

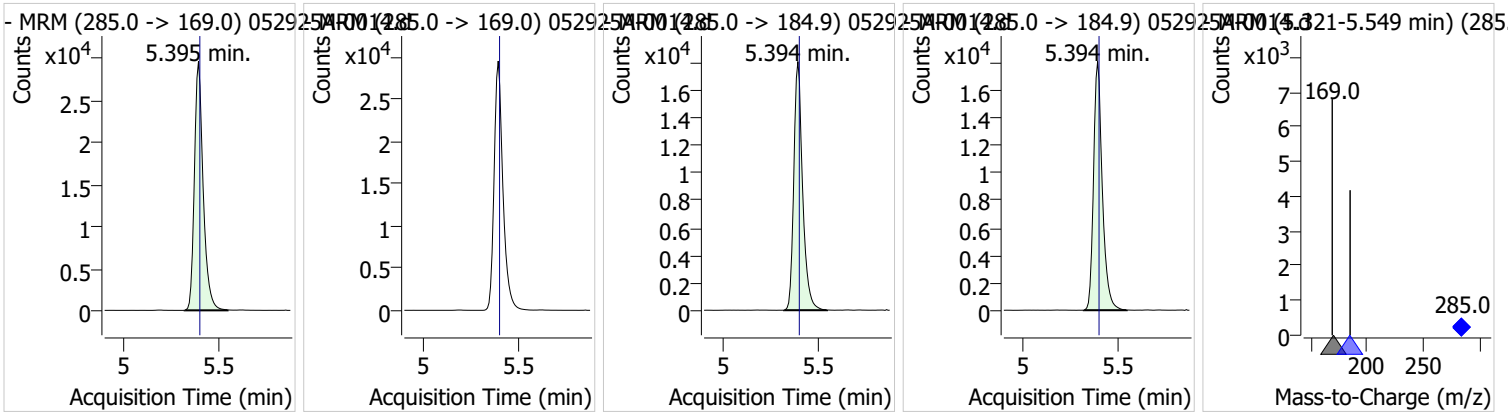
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
584.0 -> 526.0	7.433	35407	1384.44	93.3								
13C4-PFHpA	5.831	178613	8248.70		13C2-PFHxA_ISTD	5.154	107011	2.3504	ng/ml			
NMeFOSAA	7.247	18990	3818.15		D3-NMeFOSAA_ISTD	7.327	122905	2.0787	ng/ml			
570.0 -> 483.0	7.246	23443	1495.08	123.4								
PFBA	2.611	219506	40158.39		13C4-PFBA_ISTD	2.606	241415	9.1242	ng/ml			
13C5-PFHxA	5.153	112874	10344.66		13C2-PFHxA_ISTD	5.154	107011	2.3761	ng/ml			
PFBS	5.197	67437	25695.73		13C3-PFBS_ISTD	5.196	62696	2.0394	ng/ml			
298.9 -> 98.8	5.197	23874	1566.44	35.4								
NMeFOSA	10.073	11798	995.21		D3-NMeFOSA_ISTD	10.126	10950	2.2635	ng/ml			
512.0 -> 169.0	10.074	16796	1725.72	142.4								
PFDA	7.290	173111	7168.01		13C6-PFDA_ISTD	7.289	96122	2.2009	ng/ml			
513.0 -> 219.0	7.290	30892	147933.97	17.8								
PFDoA	8.146	241796	6580.01		13C2-PFDoA_ISTD	8.146	115321	2.3279	ng/ml			
613.0 -> 319.0	8.147	27249	7969.67	11.3								
NEtFOSA	10.377	14539	1344.71		D5-NEtFOSA_ISTD	10.413	14368	2.0684	ng/ml			
526.0 -> 169.0	10.377	20506	2568.36	141.0								
PFHpA	5.831	183653	4752.11		13C4-PFHpA_ISTD	5.831	178613	2.2920	ng/ml			
362.9 -> 169.0	5.831	29907	5920.76	16.3								
PFHxA	5.155	115126	2068.31		13C5-PFHxA_ISTD	5.153	112874	2.1862	ng/ml			
313.0 -> 118.9	5.155	3494	2828.76	3.0								
NMeFOSE	9.899	152861	2736.58		D7-NMeFOSE_ISTD	9.957	138097	22.4865	ng/ml			
PFHxS	6.498	44988	5441.15		13C3-PFHxS_ISTD	6.551	44109	2.0187	ng/ml			
398.9 -> 99.0	6.498	19264	2100.59	42.8								
PFNA	6.789	129975	2303.05		13C9-PFNA_ISTD	6.842	85161	2.1810	ng/ml			
463.0 -> 219.0	6.789	40485	1589.14	31.1								
NEtFOSE	10.249	186931	1886.15		D9-NEtFOSE_ISTD	10.286	156205	22.0875	ng/ml			
PFOA	6.300	132928	2941.41		13C8-PFOA_ISTD	6.368	126359	2.2271	ng/ml			
413.0 -> 169.0	6.300	39297	5323.57	29.6								
PFOS	7.399	41616	2407.75		13C8-PFOS_ISTD	7.528	36285	1.9401	ng/ml			
499.0 -> 99.0	7.402	19995	4028.12	48.0								
PFPeA	4.231	180466	6020.76		13C5-PFPeA_ISTD	4.229	175320	4.5721	ng/ml			
PFMPA	3.377	18369	1798.34		13C4-PFBA_ISTD	2.606	241415	4.3986	ng/ml			
13C5-PFPeA	4.229	175320	8528.36		13C2-PFHxA_ISTD	5.154	107011	4.6260	ng/ml			
PFMBA	4.547	133272	36839.82		13C5-PFPeA_ISTD	4.229	175320	4.5769	ng/ml			
PFTrDA	8.559	252143	23320.23		13C2-PFDoA_ISTD	8.146	115321	2.0788	ng/ml			
663.0 -> 168.9	8.559	22318	6569.61	8.9								
PFEESA	5.562	363787	8291.52		13C5-PFHxA_ISTD	5.153	112874	4.0318	ng/ml			
315.0 -> 83.0	5.562	25588	1303.27	7.0								
13C6-PFDA	7.289	96122	11489.80		13C2-PFDA_ISTD	7.290	85633	1.1921	ng/ml			
NFDHA	5.058	27717	8227.02		13C5-PFHxA_ISTD	5.153	112874	4.5394	ng/ml			
295.0 -> 85.0	5.058	9230	3866.89	33.3								
PFOSA	8.899	46232	2098.02		13C8-PFOSA_ISTD	8.975	48116	2.1844	ng/ml			
497.9 -> 478.0	8.902	1320	451.10	2.9								
13C7-PFUnA	7.721	102417	30750.38		13C2-PFDA_ISTD	7.290	85633	1.1373	ng/ml			
13C4-PFOA	6.369	29199	6288.65					3.5313	ng/ml			
PFDS	8.398	30480	8893.22		13C8-PFOS_ISTD	7.528	36285	1.9976	ng/ml			
599.0 -> 98.8	8.397	15619	14310.35	51.2								
PFNS	7.969	38629	32500.49		13C8-PFOS_ISTD	7.528	36285	2.0593	ng/ml			
549.0 -> 98.8	7.968	17572	2225.85	45.5								
PFPeS	5.971	56384	307269.29		13C3-PFHxS_ISTD	6.551	44109	2.0382	ng/ml			
349.0 -> 98.9	5.971	24858	7570.44	44.1								

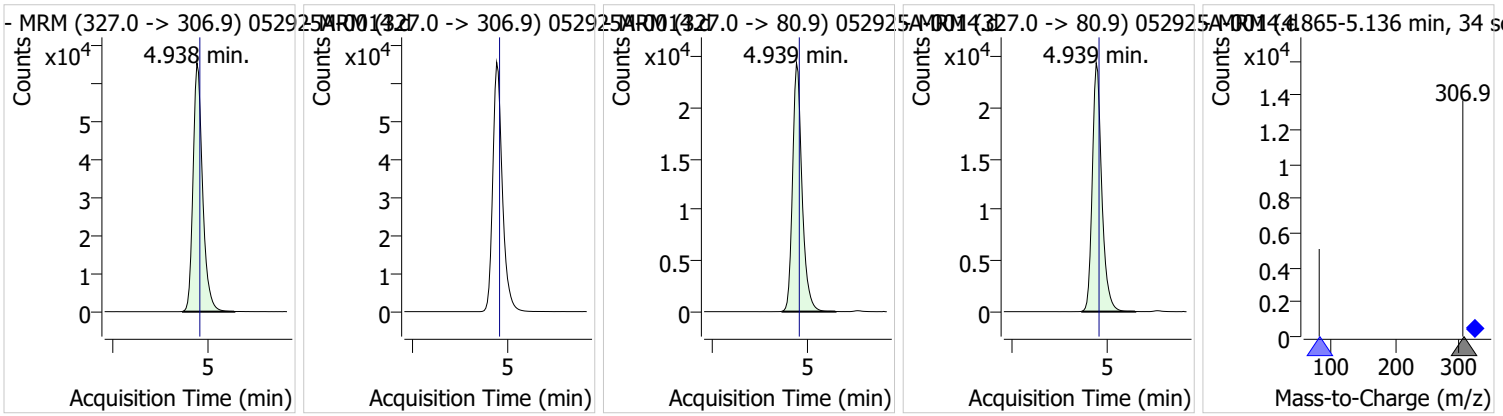
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA	8.945	248064	26478.60		13C2-PFTeDA_ISTD	8.944	117799	2.2815	ng/ml			
713.0 -> 168.9	8.946	14037	1812.62	5.7								
PFUnA	7.722	180920	1549.70		13C7-PFUnA_ISTD	7.721	102417	2.1153	ng/ml			
563.0 -> 269.1	7.722	32234	115279.78	17.8								
13C3-PFBA	2.608	107058	1253.70					7.0496	ng/ml			
3:3FTCA	3.712	9812	924.56		13C5-PFPeA_ISTD	4.229	175320	9.8837	ng/ml			
241.0 -> 117.0	3.706	5266	639.13	53.7								
5:3FTCA	5.601	212766	19286.59		13C5-PFHxA_ISTD	5.153	112874	50.5057	ng/ml			
341.0 -> 217.0	5.602	194698	357890.29	91.5								
7:3FTCA	6.770	228259	56991.93		13C9-PFNA_ISTD	6.842	85161	50.1015	ng/ml			
441.0 -> 337.0	6.778	244146	4916.27	107.0								
13C5-PFNA	6.842	82003	24970.40					1.7340	ng/ml			
18O2-PFHxS	6.559	40194	78118.24					3.5384	ng/ml			
PFDoS	9.171	21186	42342.23		13C8-PFOS_ISTD	7.528	36285	2.0654	ng/ml			
698.9 -> 99.0	9.170	12012	84108.89	56.7								
TDCA					13C8-PFOS_ISTD	7.528	36285	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.920	83783	11291.74		13C3-PFPrA_ISTD	0.916	106155	8.9822	ng/ml			
13C3-PFPrA	0.916	106155	19161.42		13C3-PFBA_ISTD	2.608	107058	9.1658	ng/ml			
TFSI	5.891	371578	21824.64		13C3-HFPODA_ISTD	5.394	108398	4.4310	ng/ml			
279.9 -> 77.9	5.892	261679	1391634.53	70.4								
13C8-PFOA	6.368	126359	38837.98		13C4-PFOA_ISTD	6.369	29199	2.3098	ng/ml			
13C8-PFOS	7.528	36285	5656.75		13C4-PFOS_ISTD	7.529	40380	2.2976	ng/ml			
13C8-PFOSA	8.975	48116	13454.12		13C4-PFOS_ISTD	7.529	40380	2.1189	ng/ml			
13C9-PFNA	6.842	85161	9808.00		13C5-PFNA_ISTD	6.842	82003	1.1754	ng/ml			
D3-NMeFOSA	10.126	10950	6863.83		13C4-PFOS_ISTD	7.529	40380	1.5135	ng/ml			
D3-NMeFOSAA	7.327	122905	5605.22		13C4-PFOS_ISTD	7.529	40380	4.8935	ng/ml			
D5-NEtFOSA	10.413	14368	5373.76		13C4-PFOS_ISTD	7.529	40380	1.6521	ng/ml			
D5-NEtFOSAA	7.506	92094	26127.50		13C4-PFOS_ISTD	7.529	40380	4.8281	ng/ml			
D7-NMeFOSE	9.957	138097	18429.70		13C4-PFOS_ISTD	7.529	40380	19.8822	ng/ml			
D9-NEtFOSE	10.286	156205	44281.85		13C4-PFOS_ISTD	7.529	40380	20.2529	ng/ml			

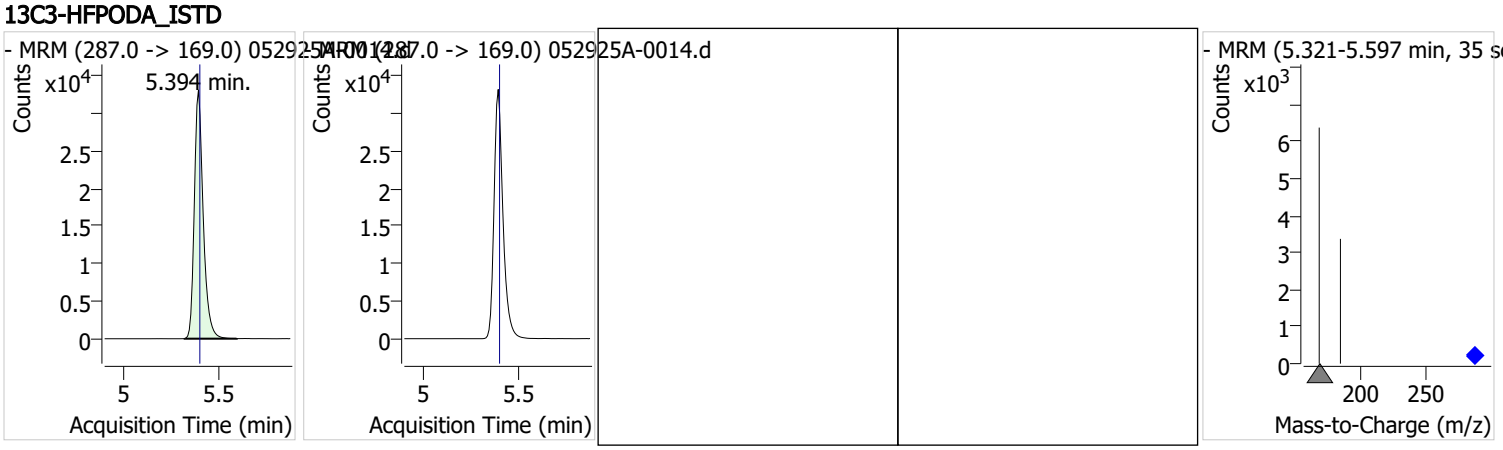
HFPO-DA



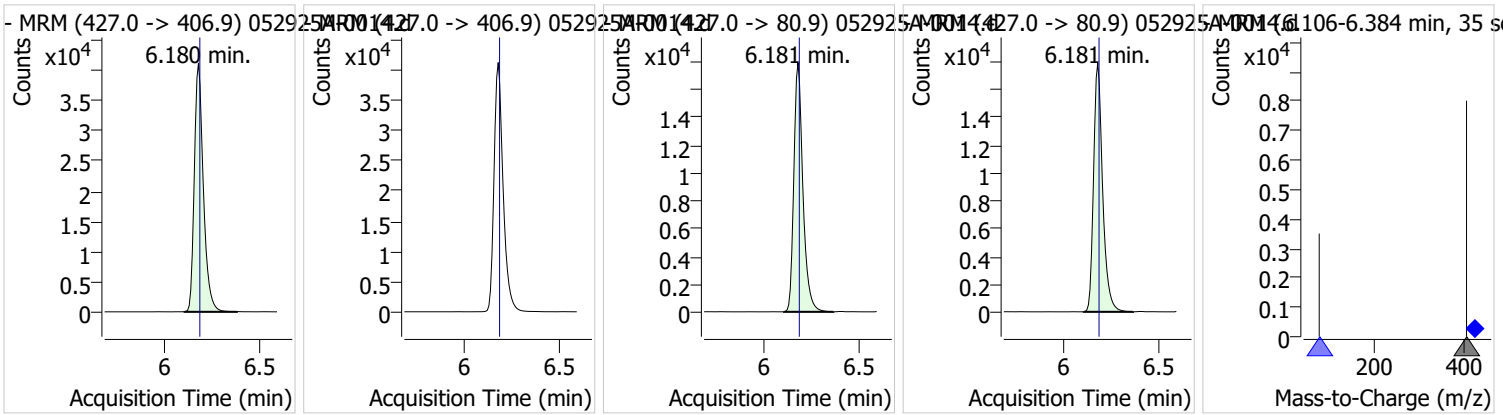
4:2FTS



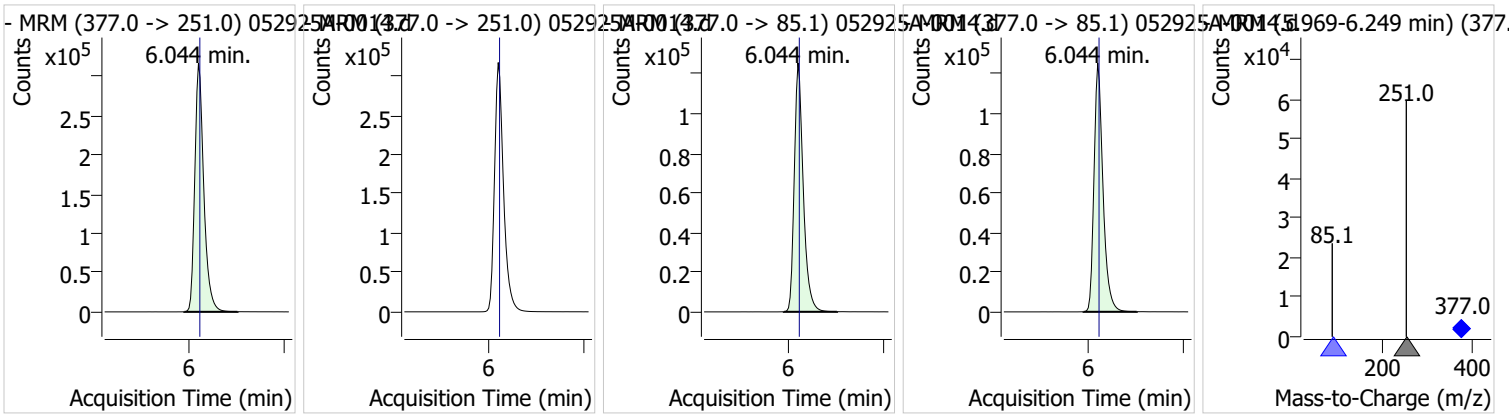
13C3-HFPODA_ISTD



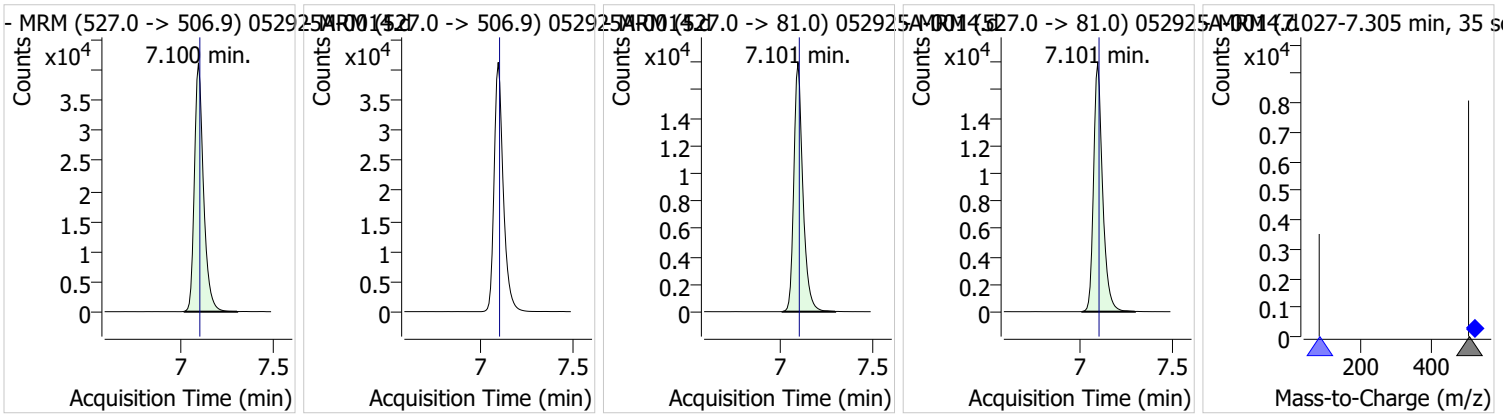
6:2FTS



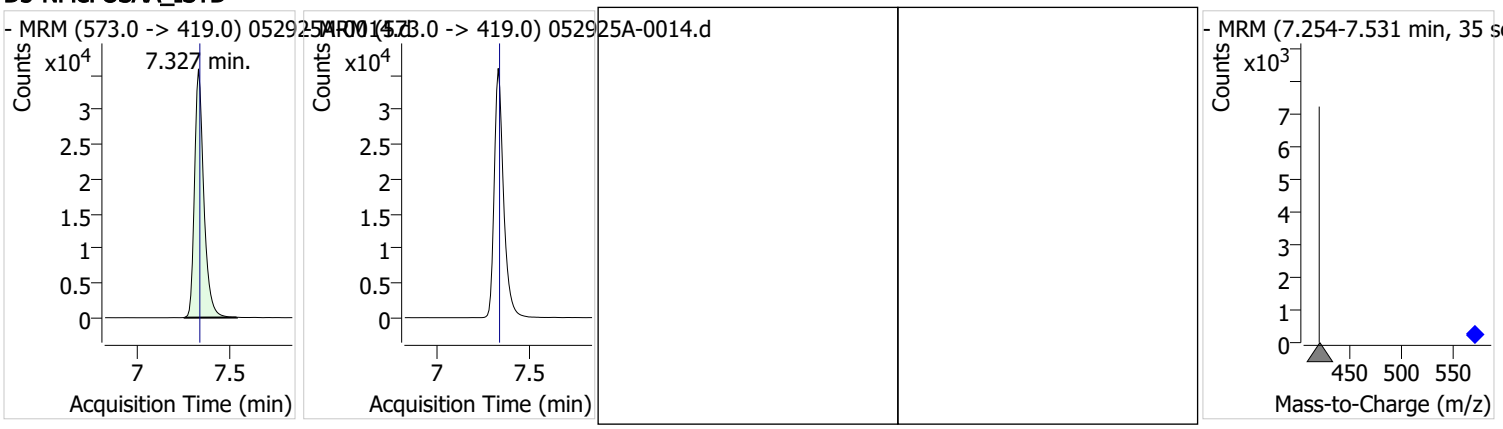
ADONA



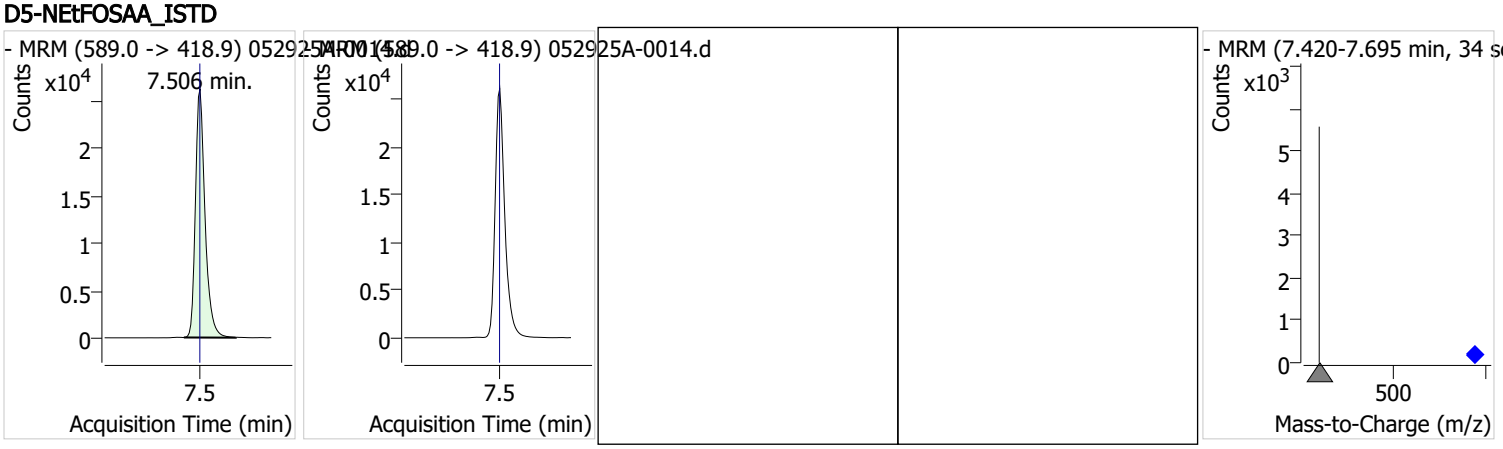
8:2FTS



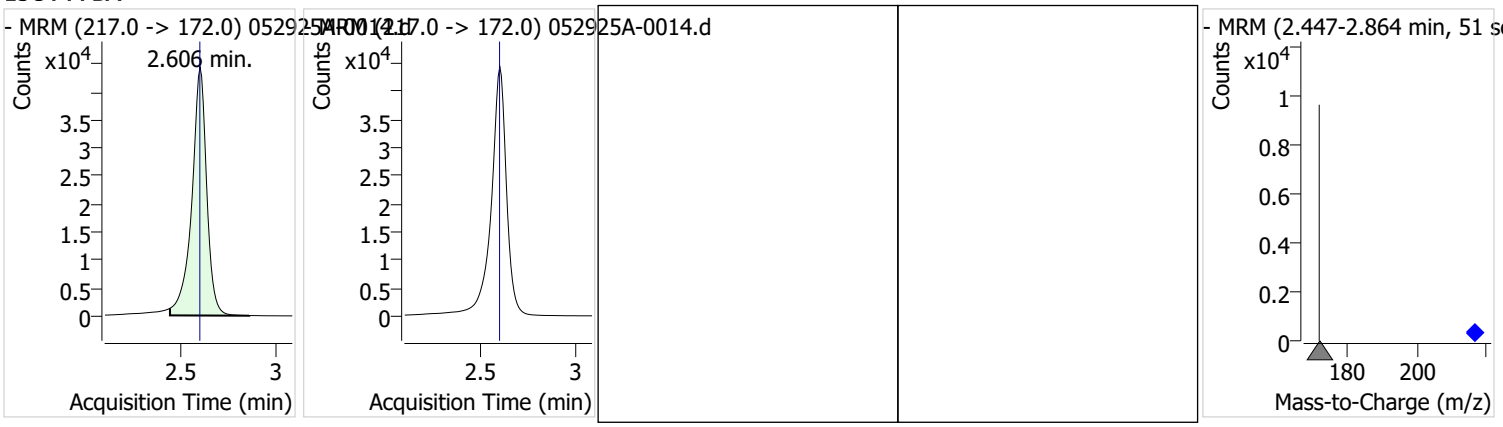
D3-NMeFOSAA_ISTD



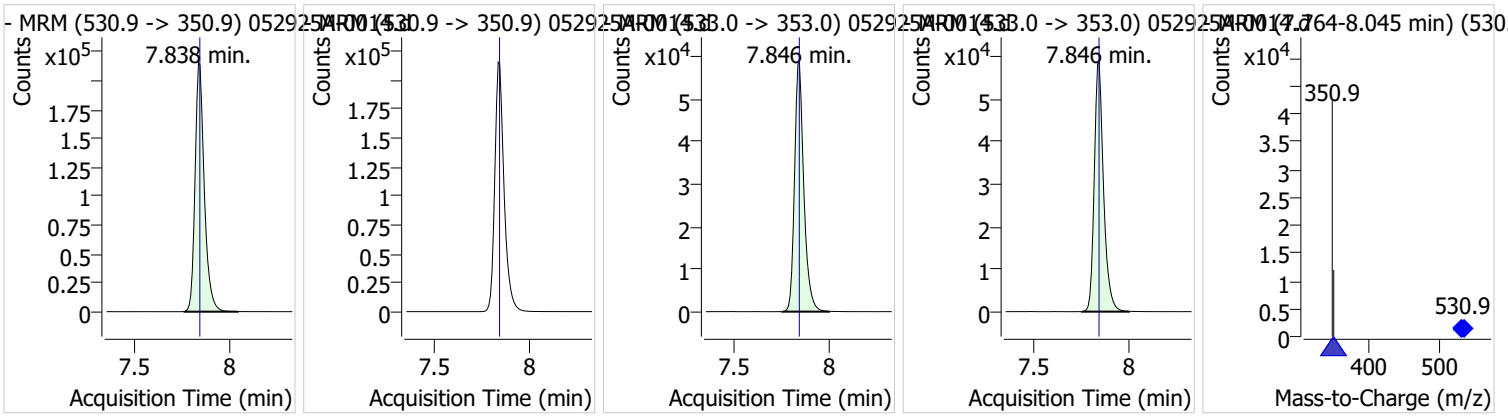
D5-NEtFOSAA_ISTD



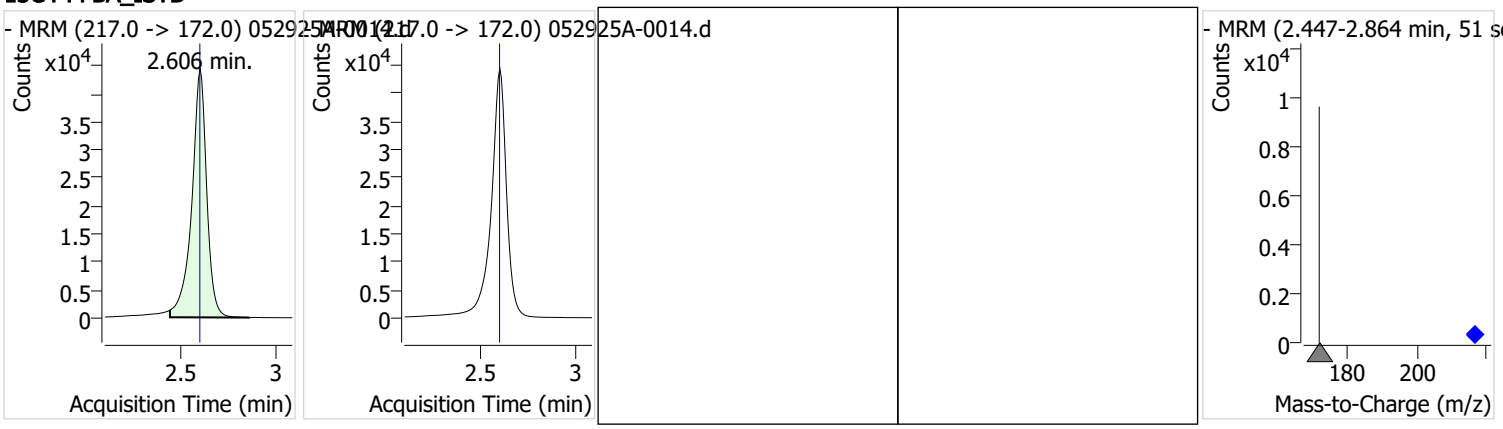
13C4-PFBA



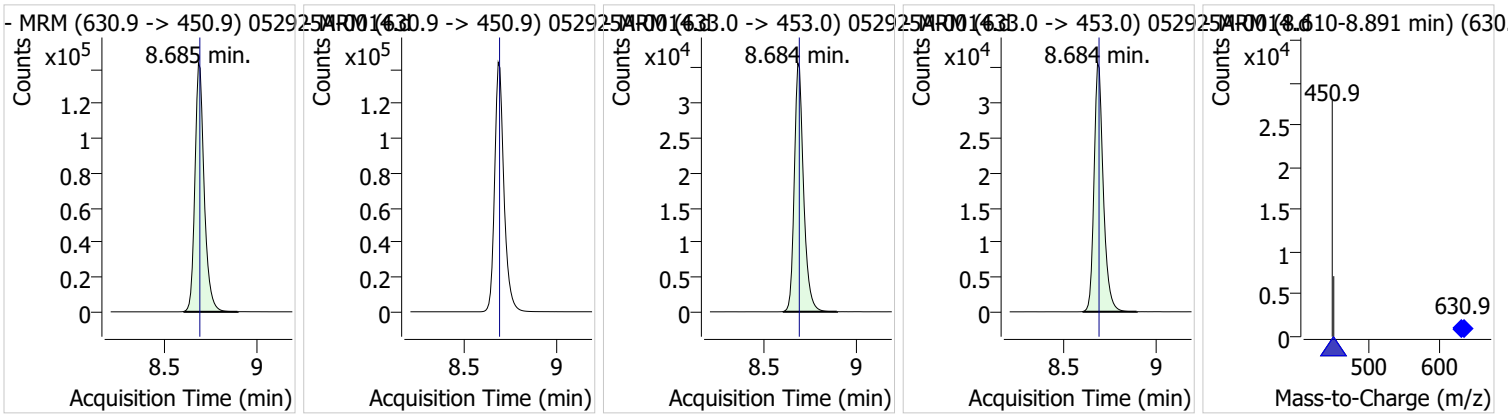
9Cl-PF3ONS



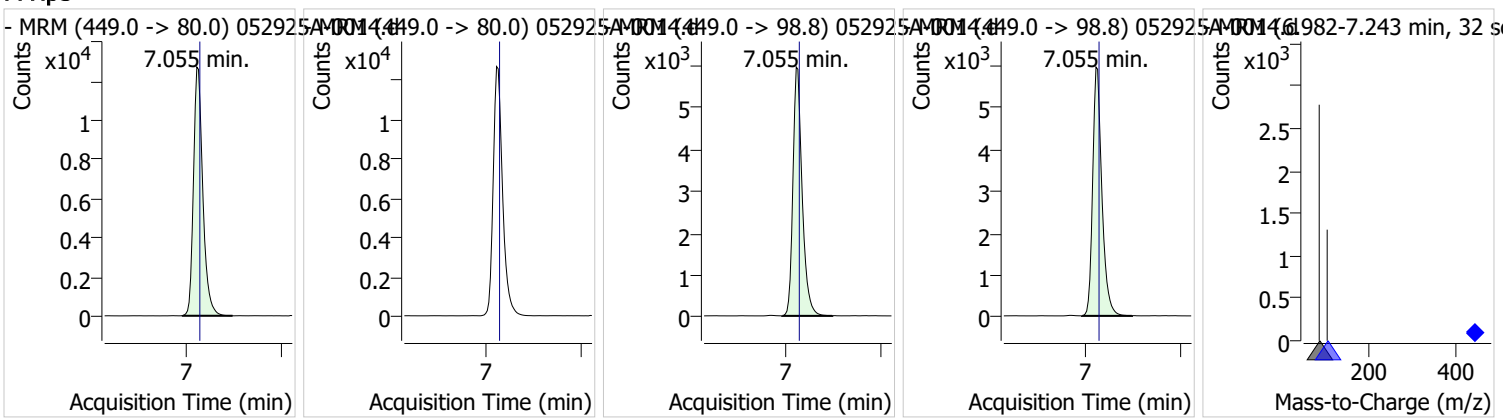
13C4-PFBA_ISTD



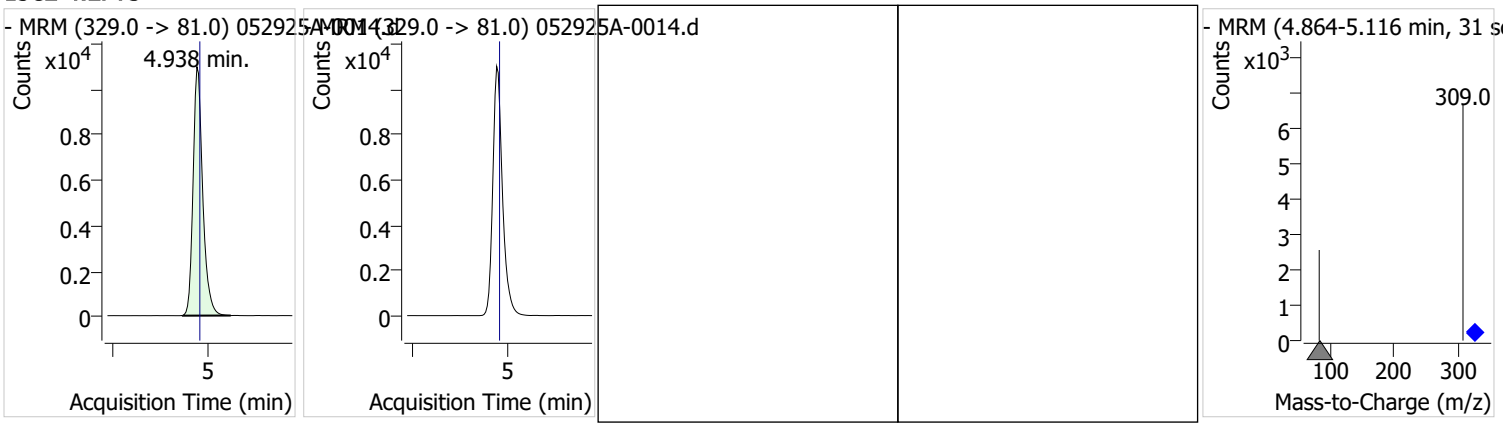
11Cl-PF3OUdS



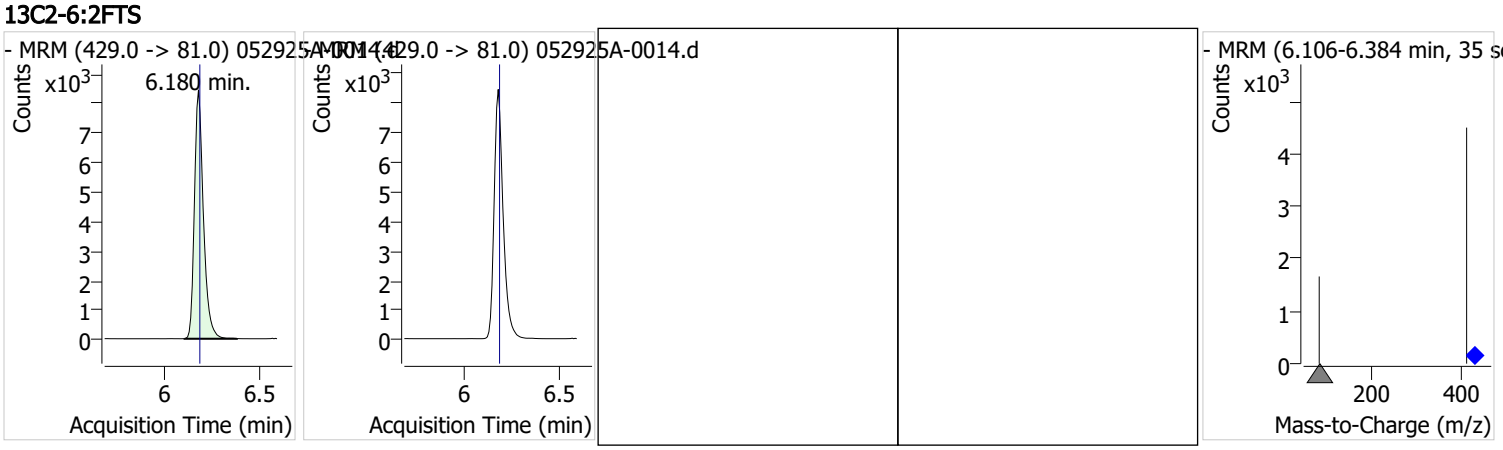
PFHpS



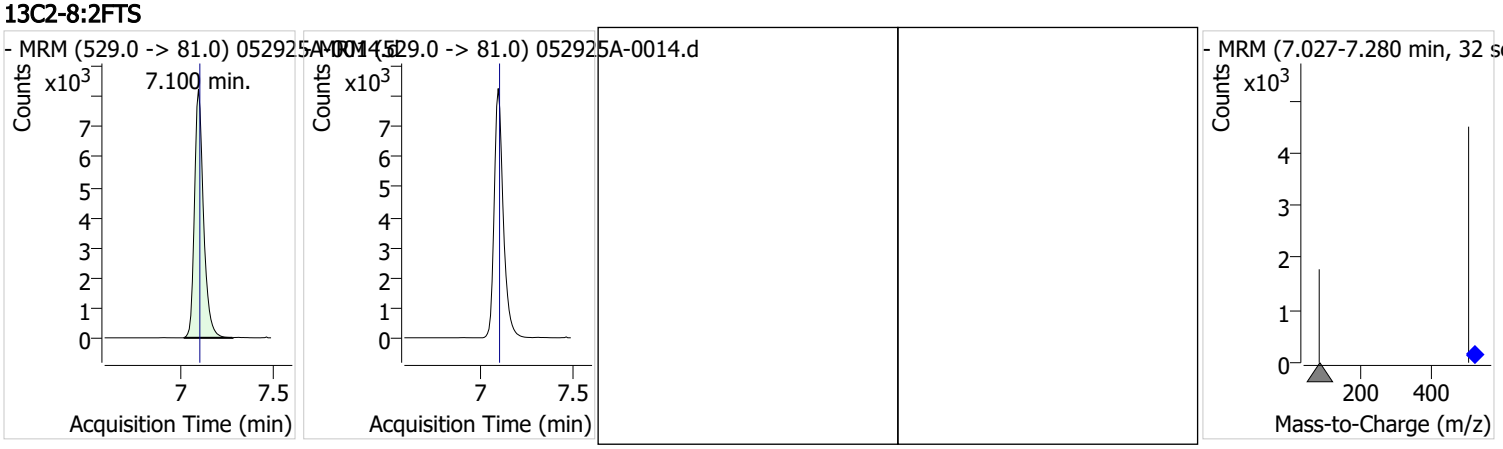
13C2-4:2FTS



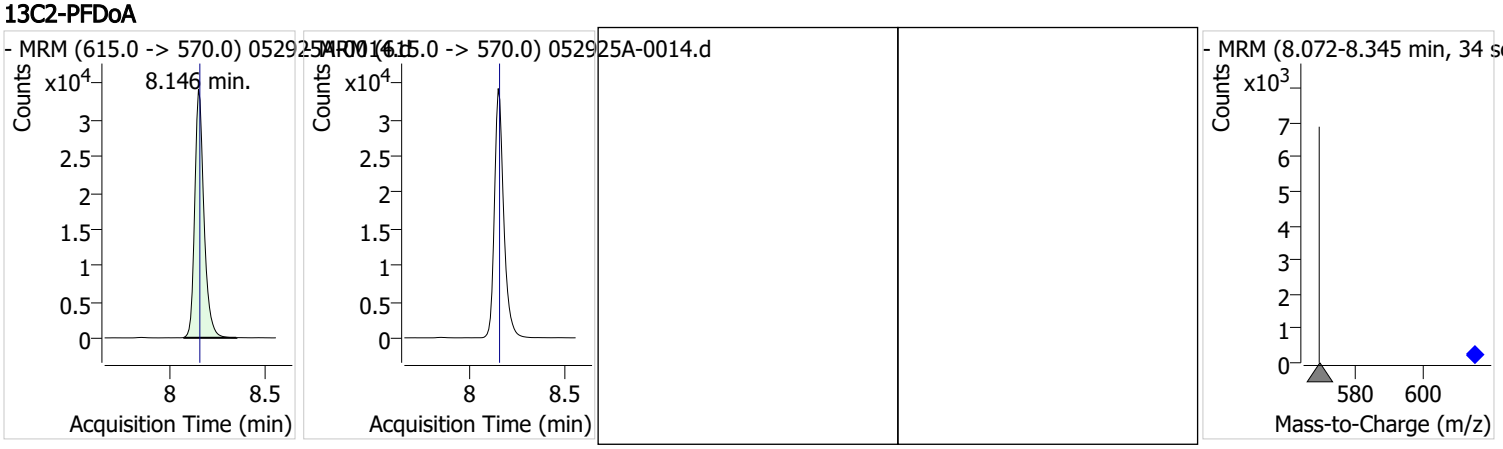
13C2-6:2FTS



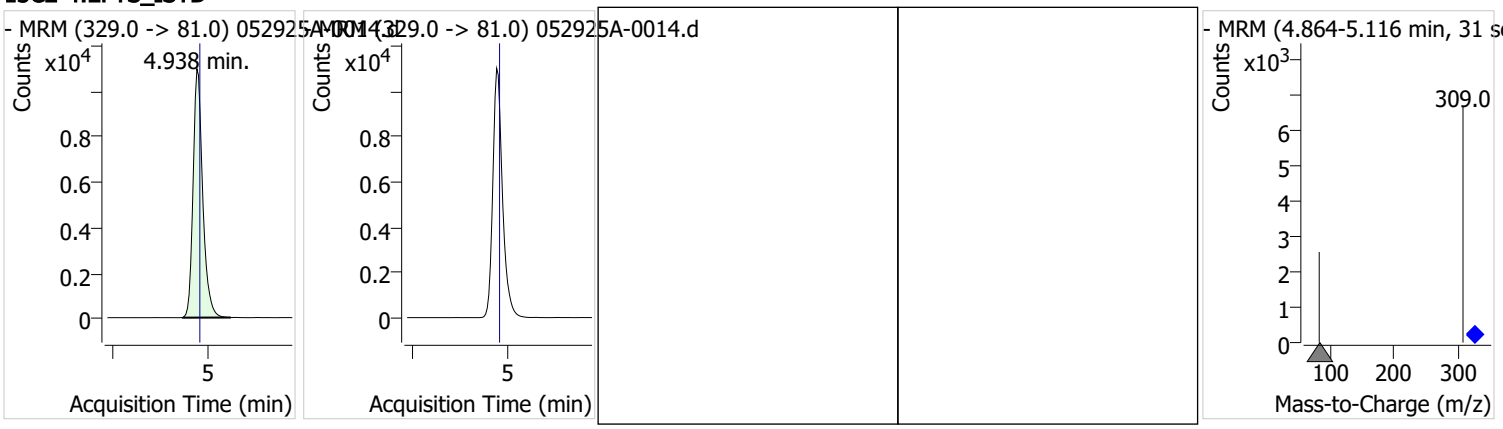
13C2-8:2FTS



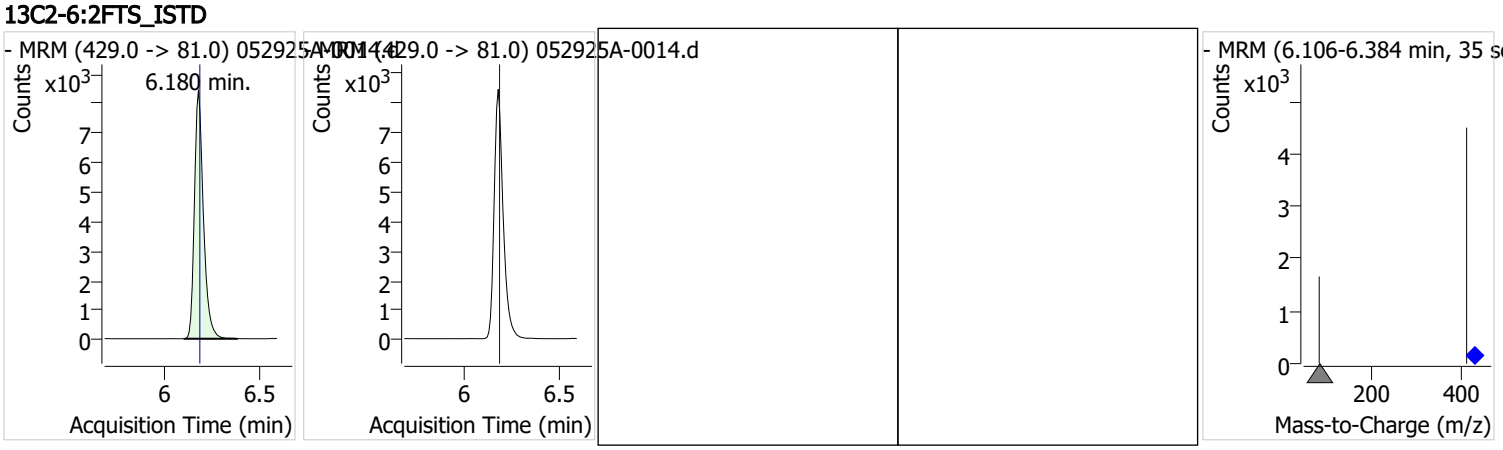
13C2-PFDoA



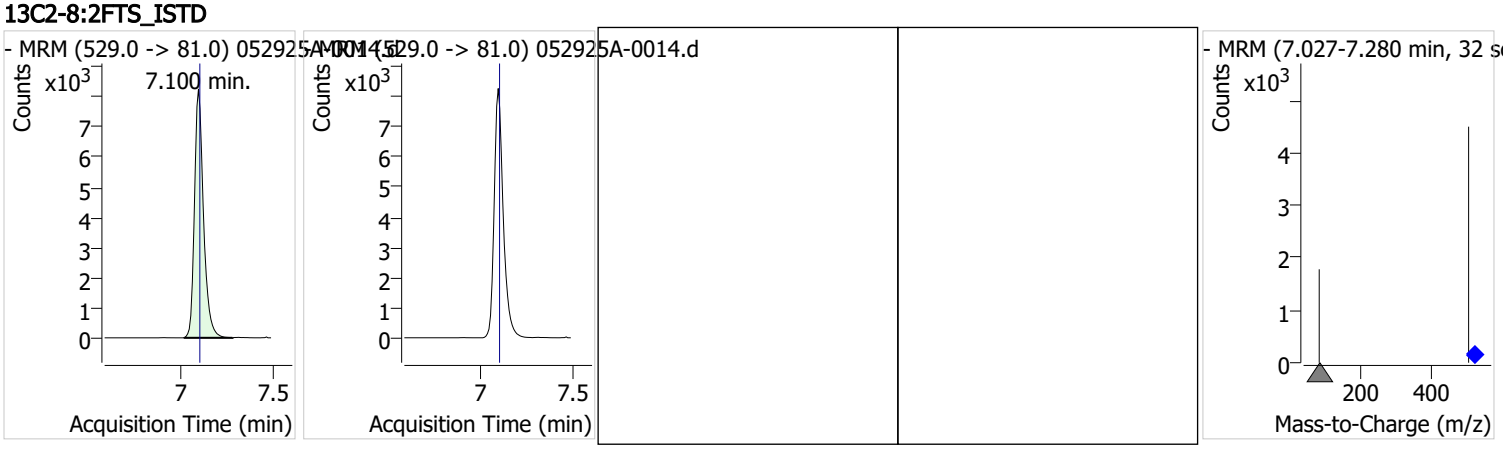
13C2-4:2FTS_ISTD



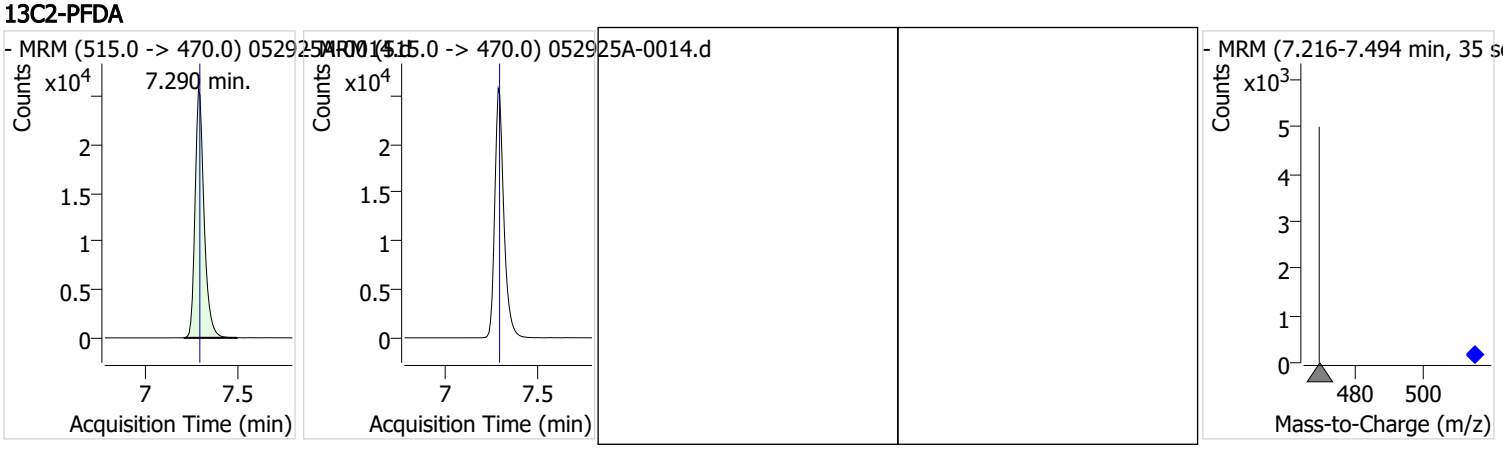
13C2-6:2FTS_ISTD



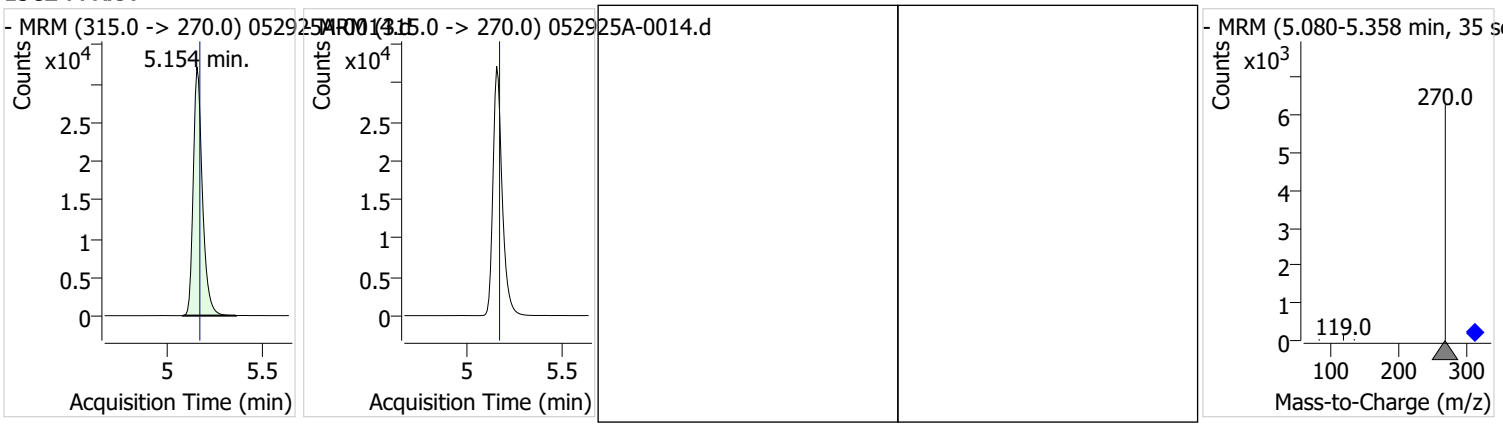
13C2-8:2FTS_ISTD



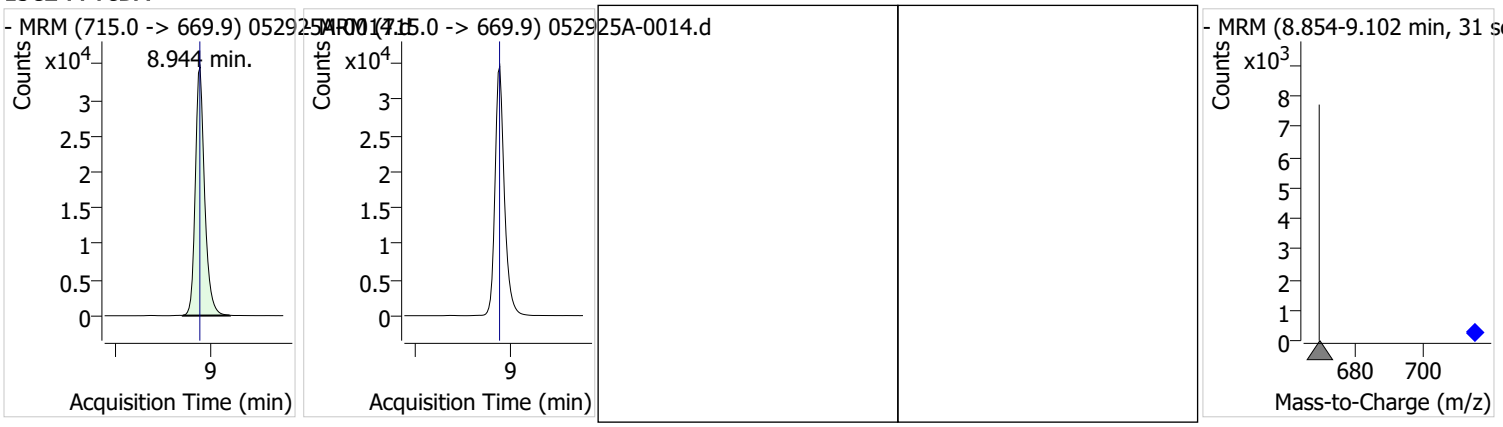
13C2-PFDA



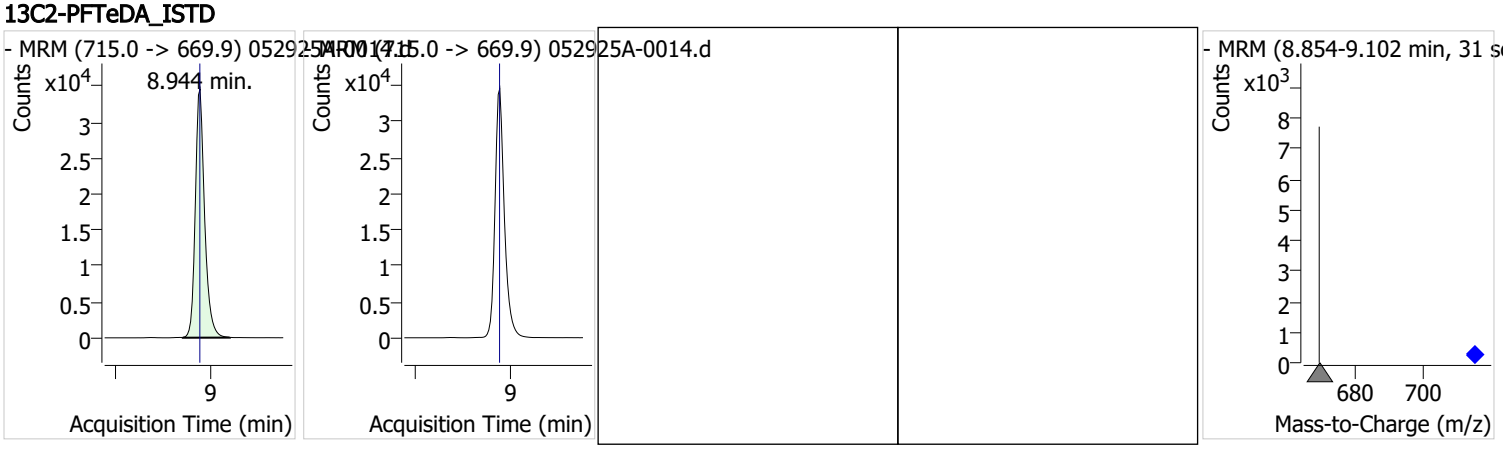
13C2-PFHxA



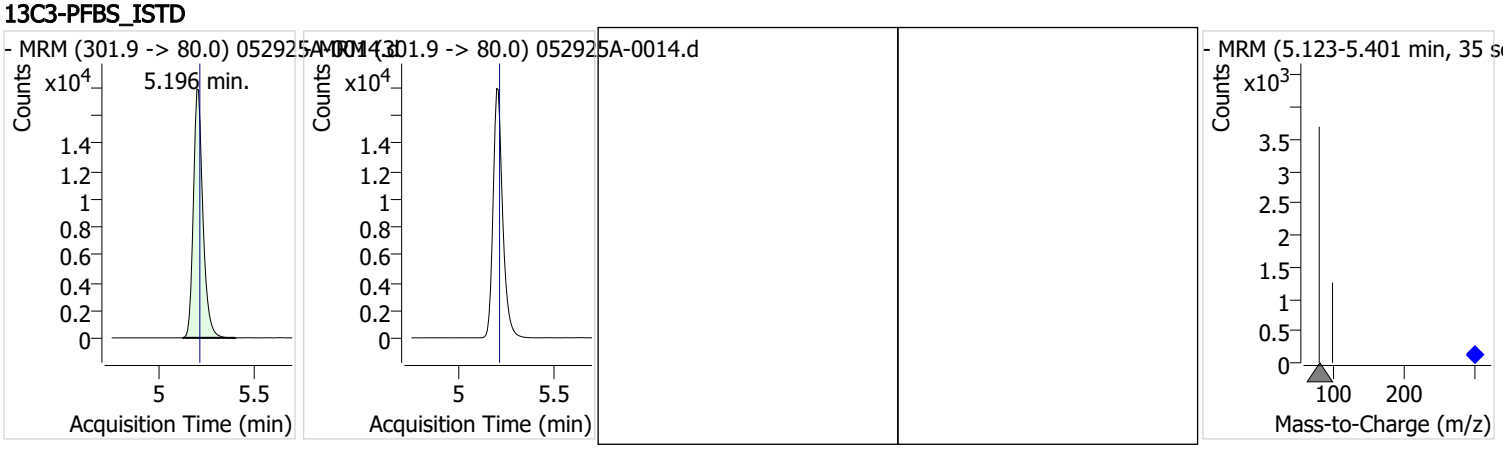
13C2-PFTeDA



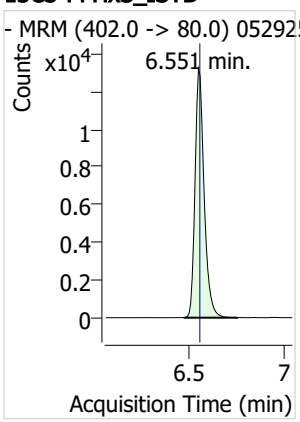
13C2-PFTeDA_ISTD

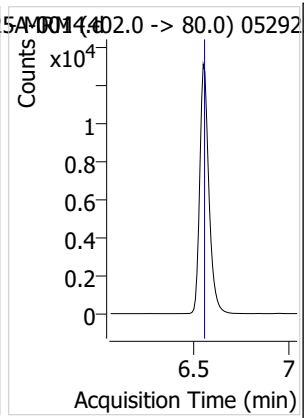


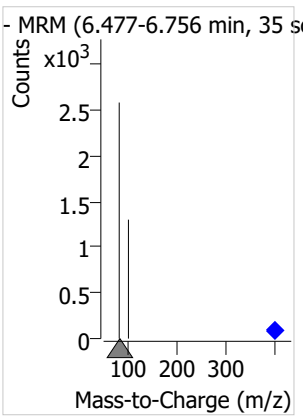
13C3-PFBS_ISTD



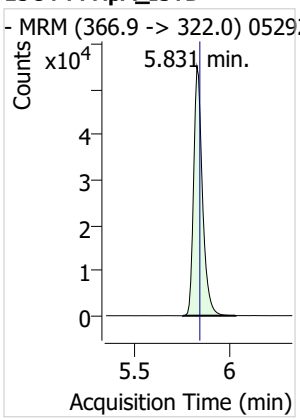
13C3-PFHxS_ISTD

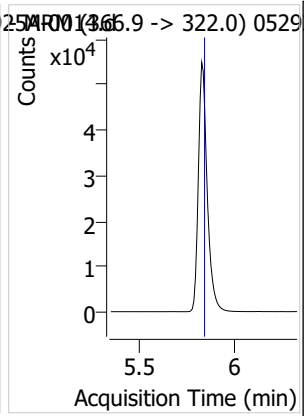


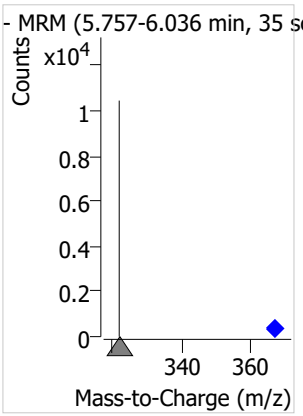




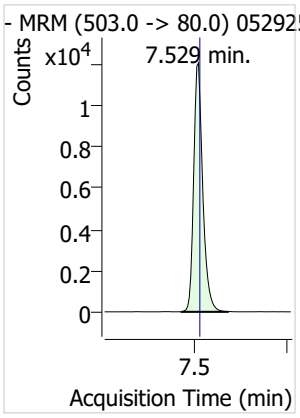
13C4-PFHpA_ISTD

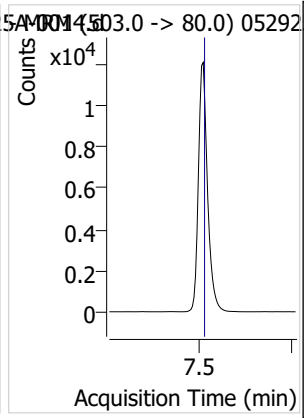


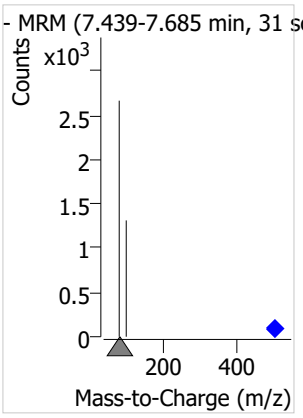




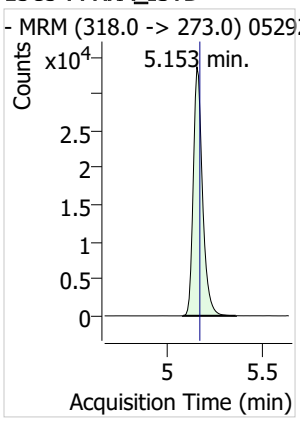
13C4-PFOS

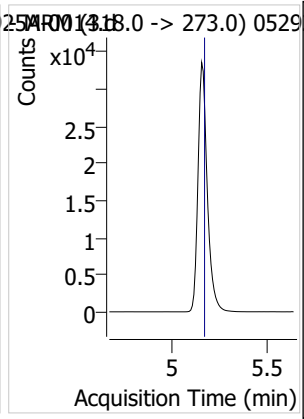


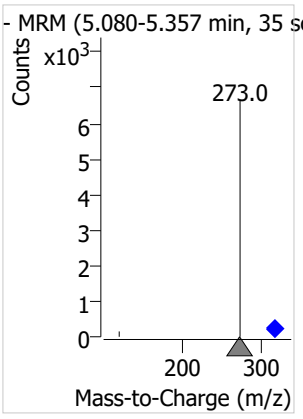




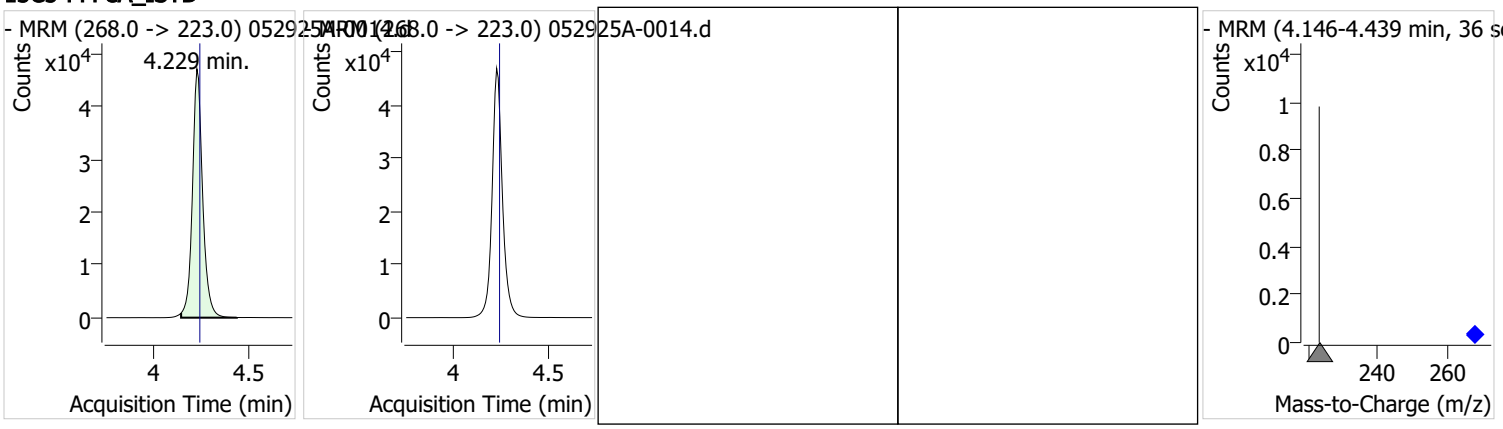
13C5-PFHxA_ISTD



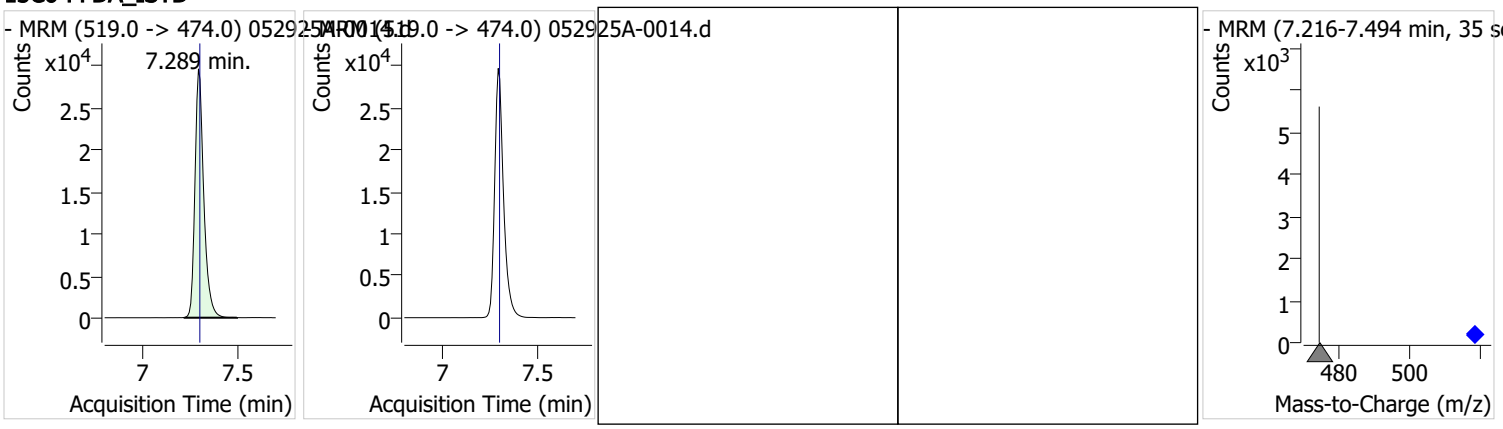




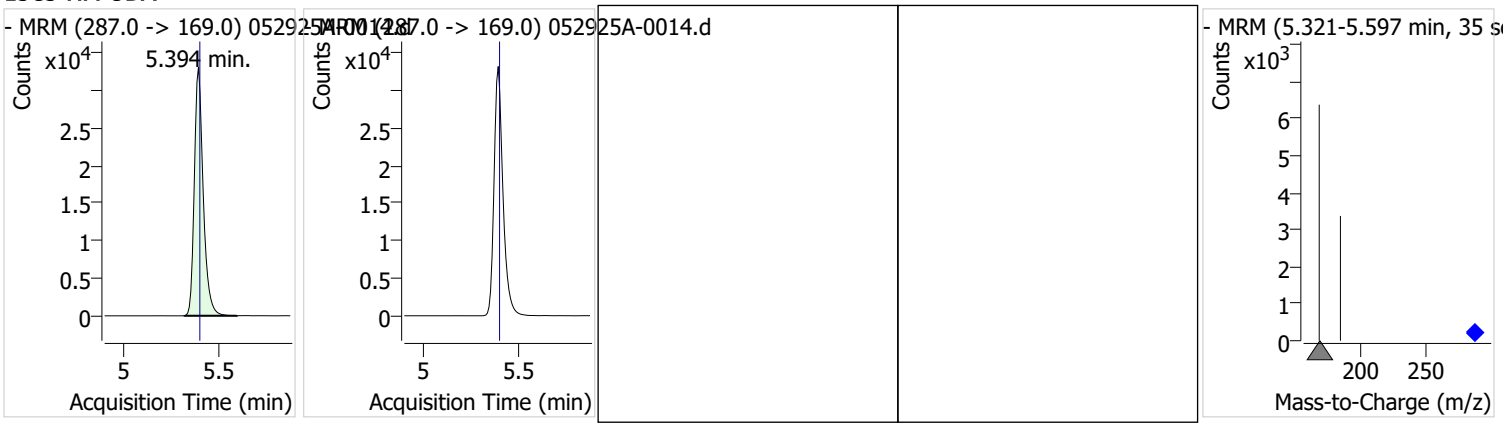
13C5-PFPeA_ISTD



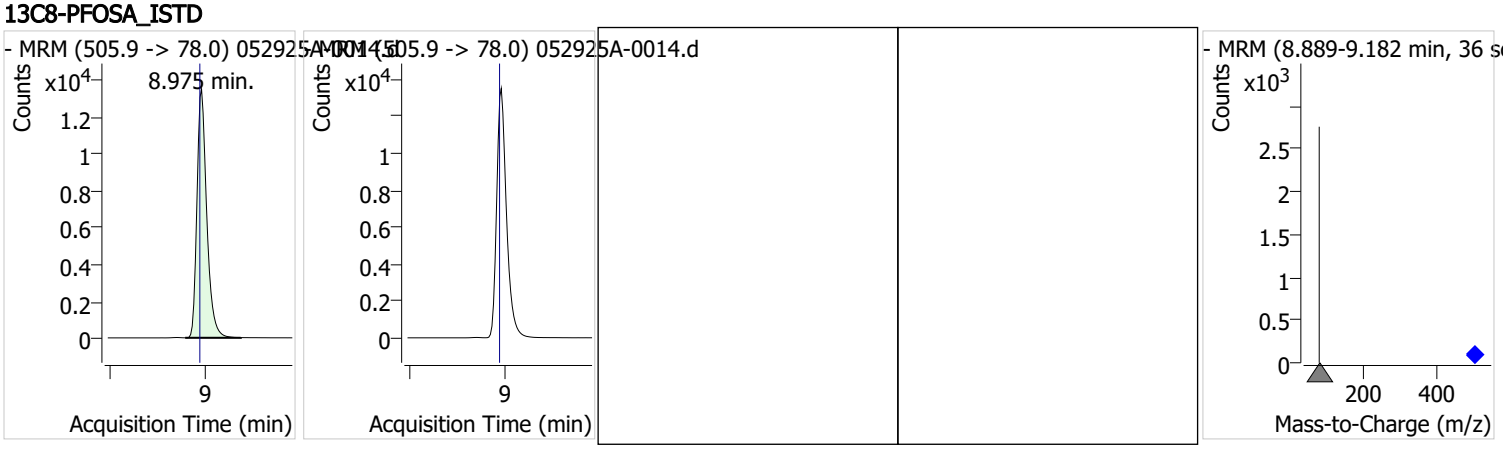
13C6-PFDA_ISTD



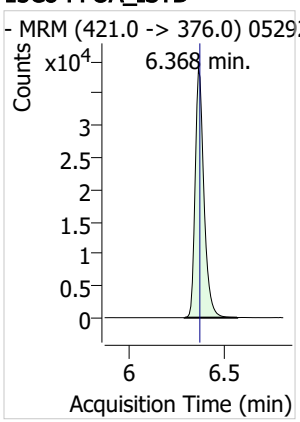
13C3-HFPODA

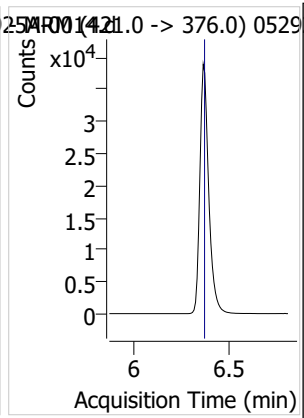


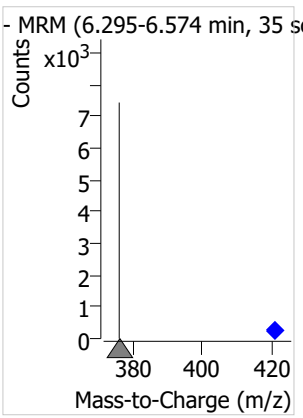
13C8-PFOSA_ISTD



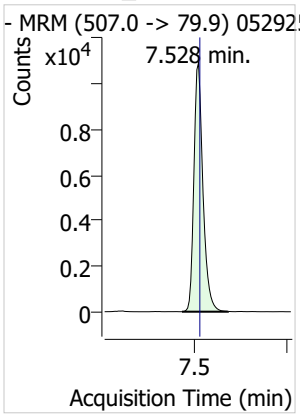
13C8-PFOA_ISTD

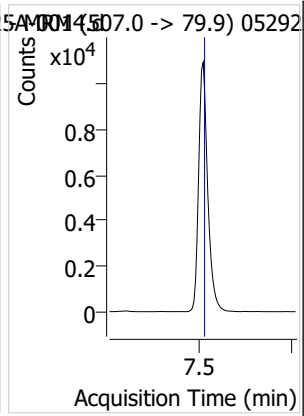


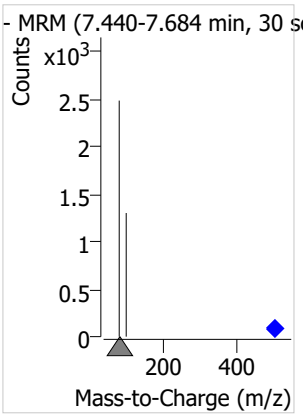




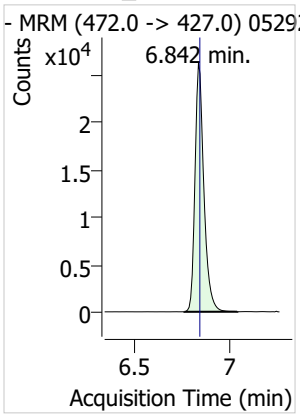
13C8-PFOS_ISTD

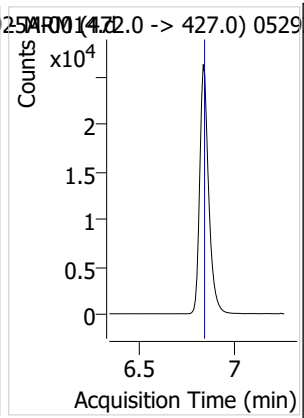


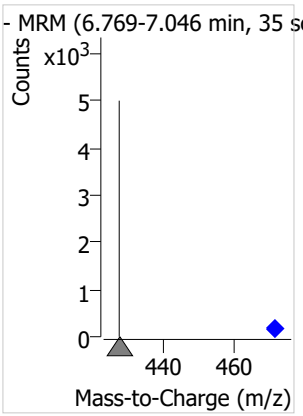




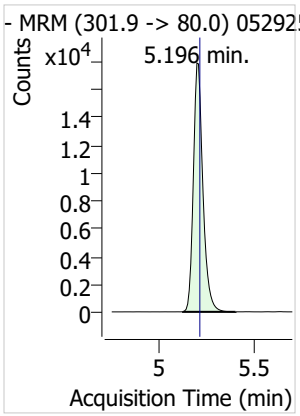
13C9-PFNA_ISTD

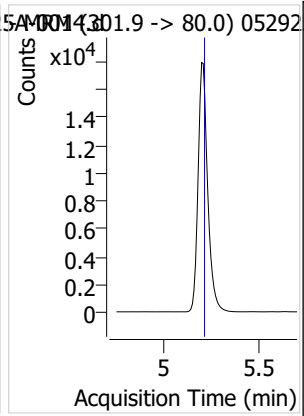


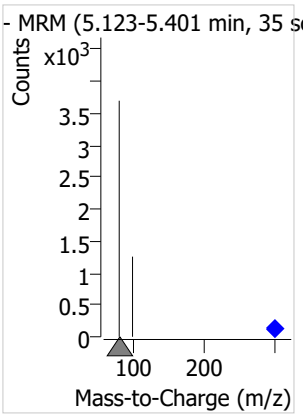




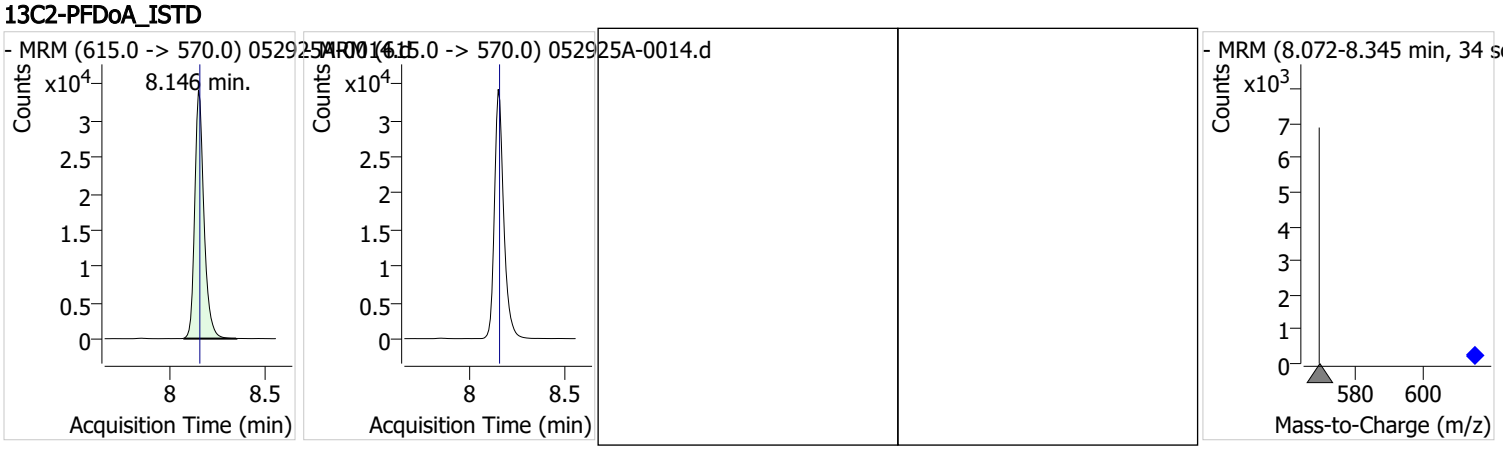
13C3-PFBS



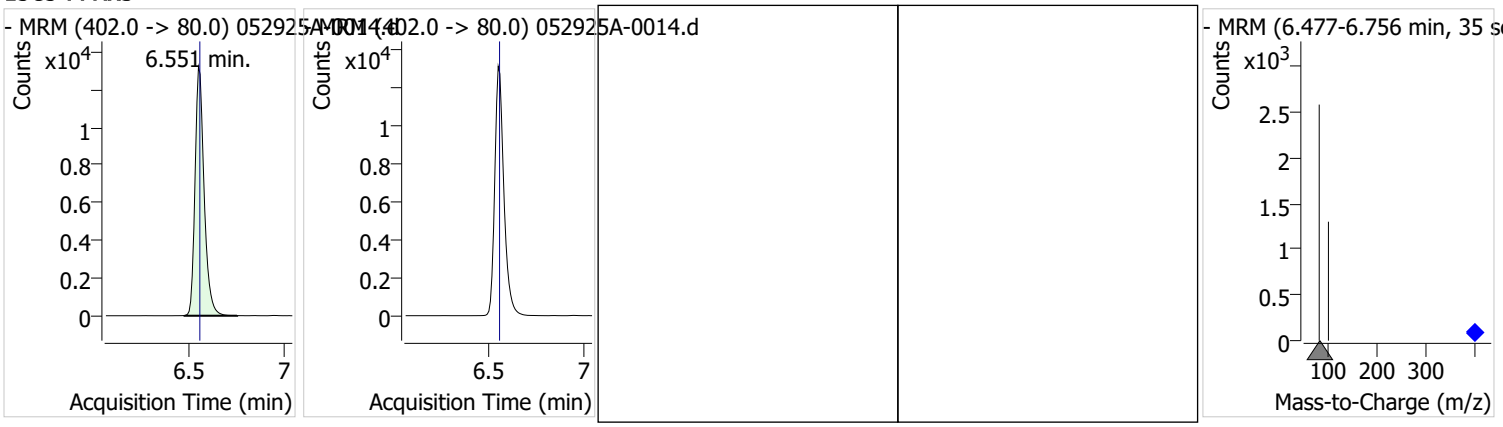




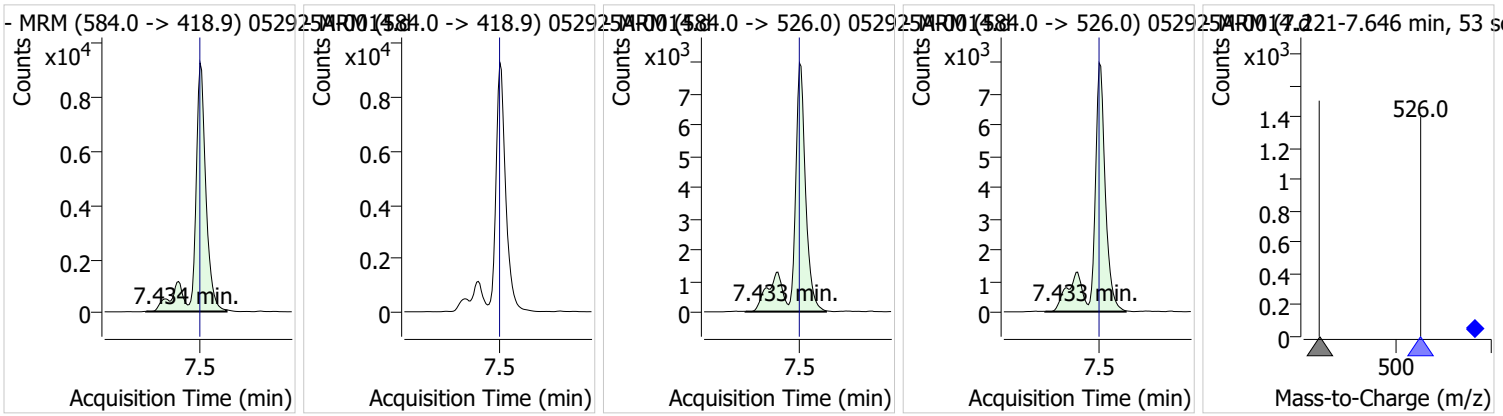
13C2-PFDoA_ISTD



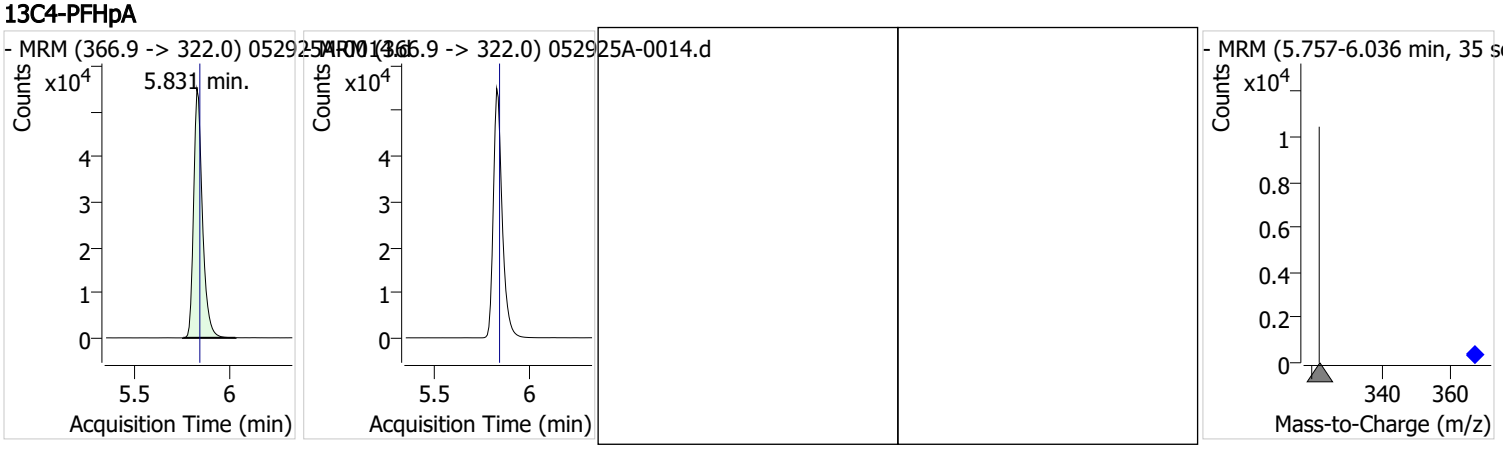
13C3-PFHxS



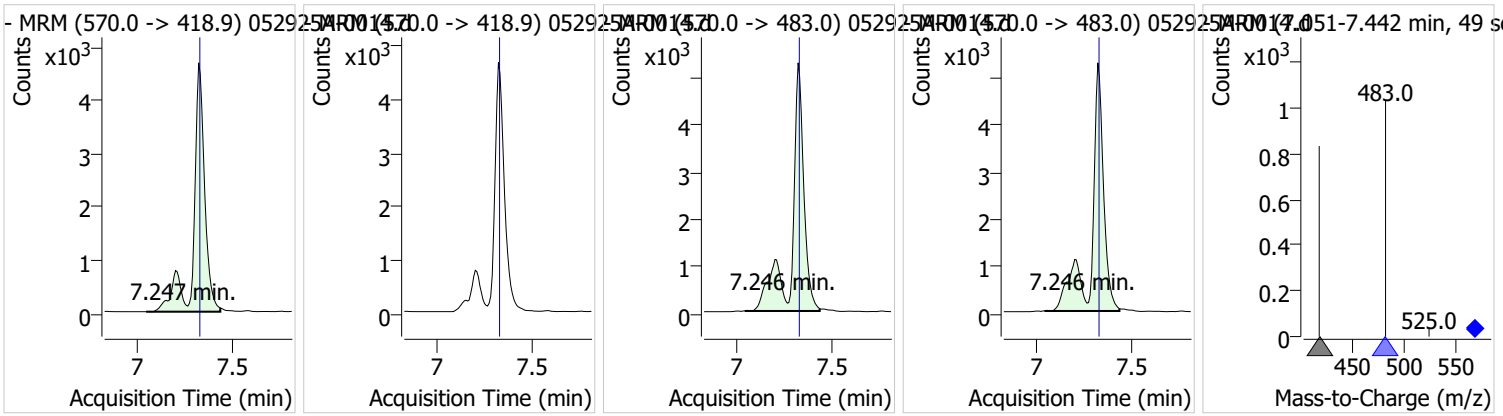
NEtFOSAA



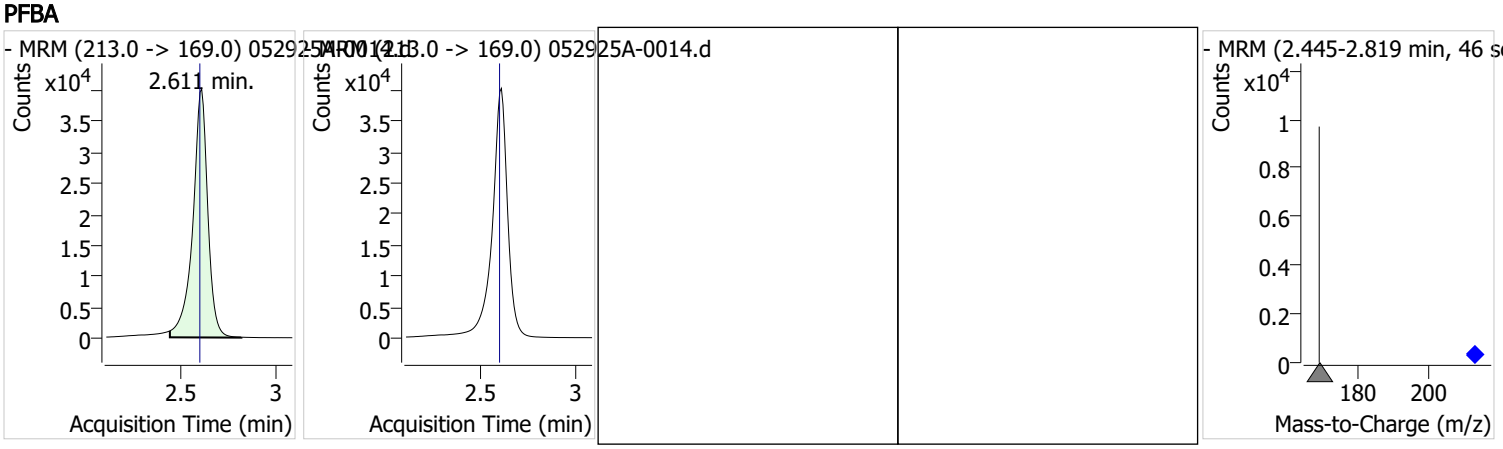
13C4-PFHpA



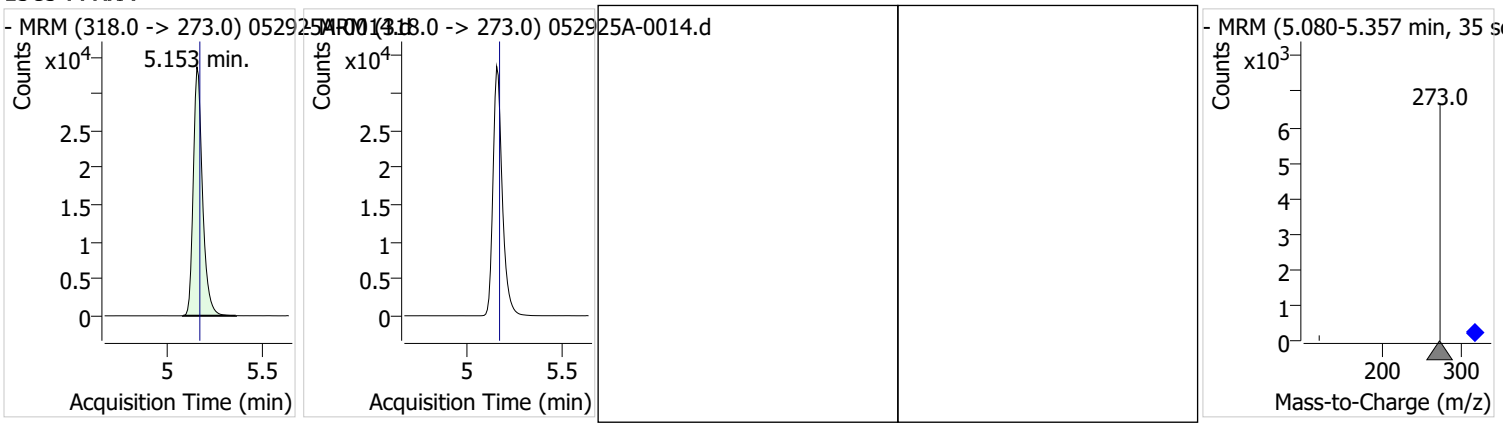
NMeFOSAA



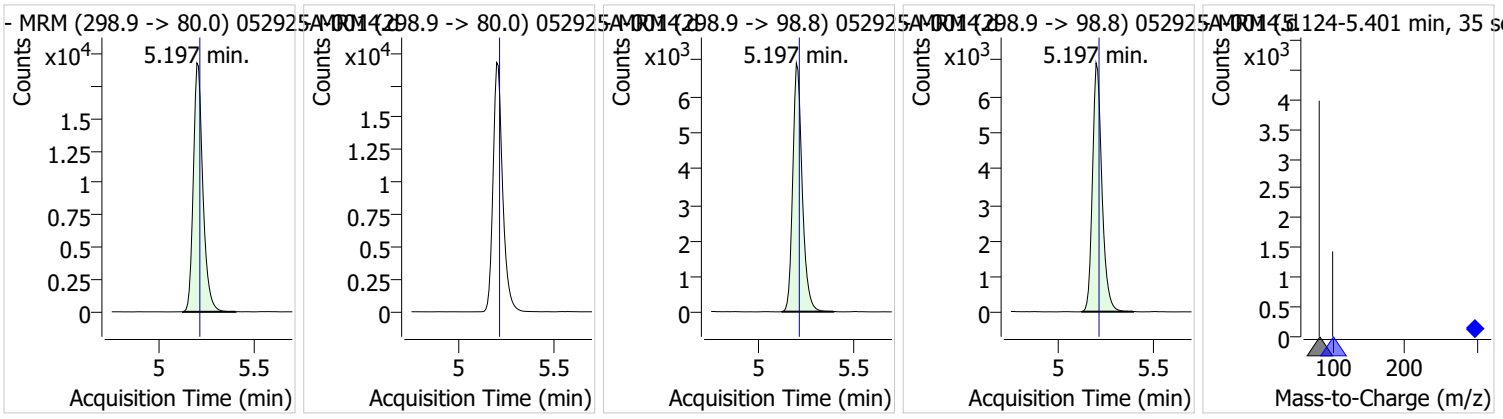
PFBA



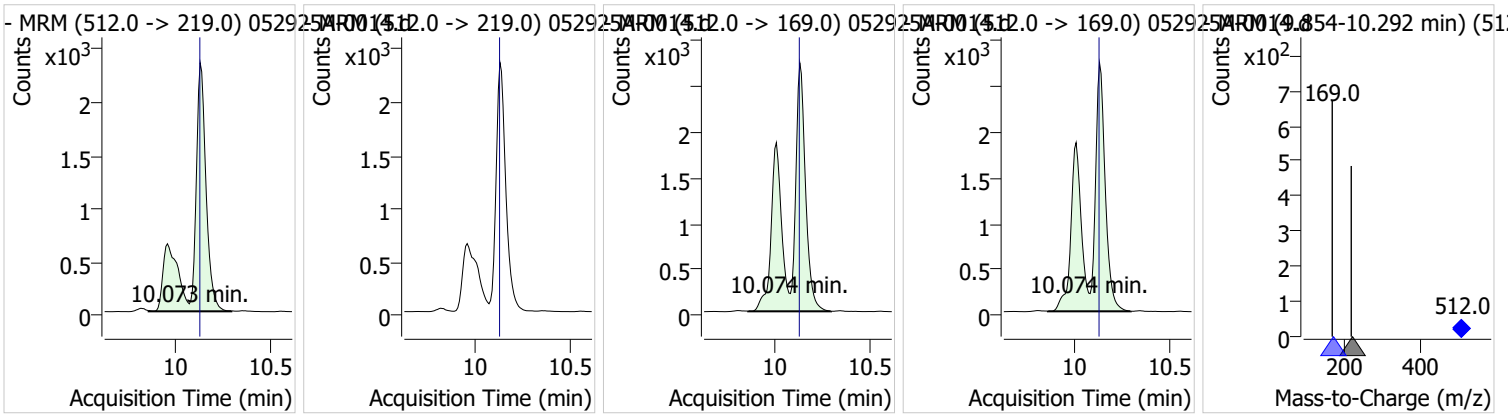
13C5-PFHxA



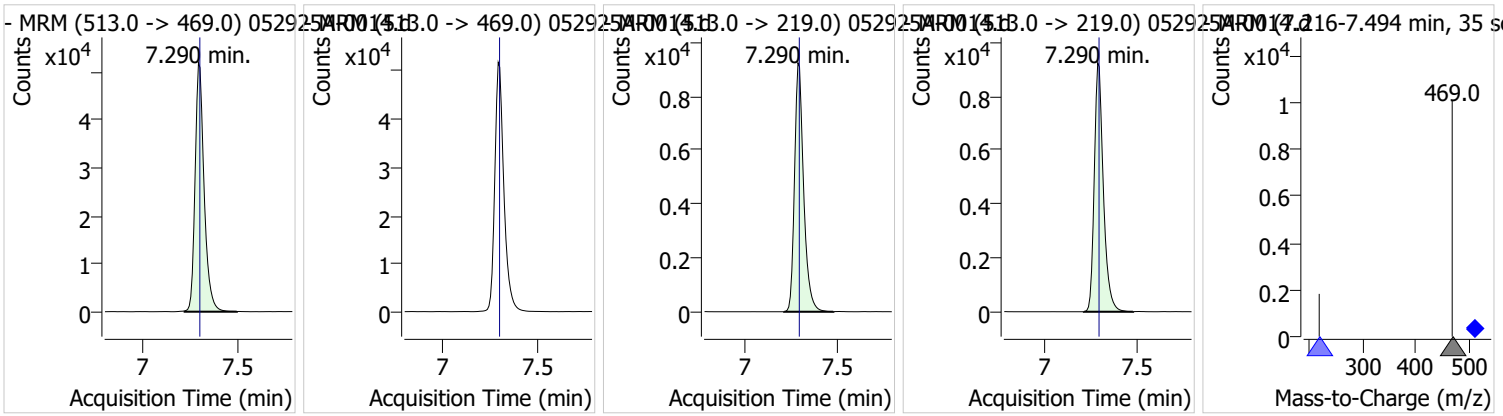
PFBS



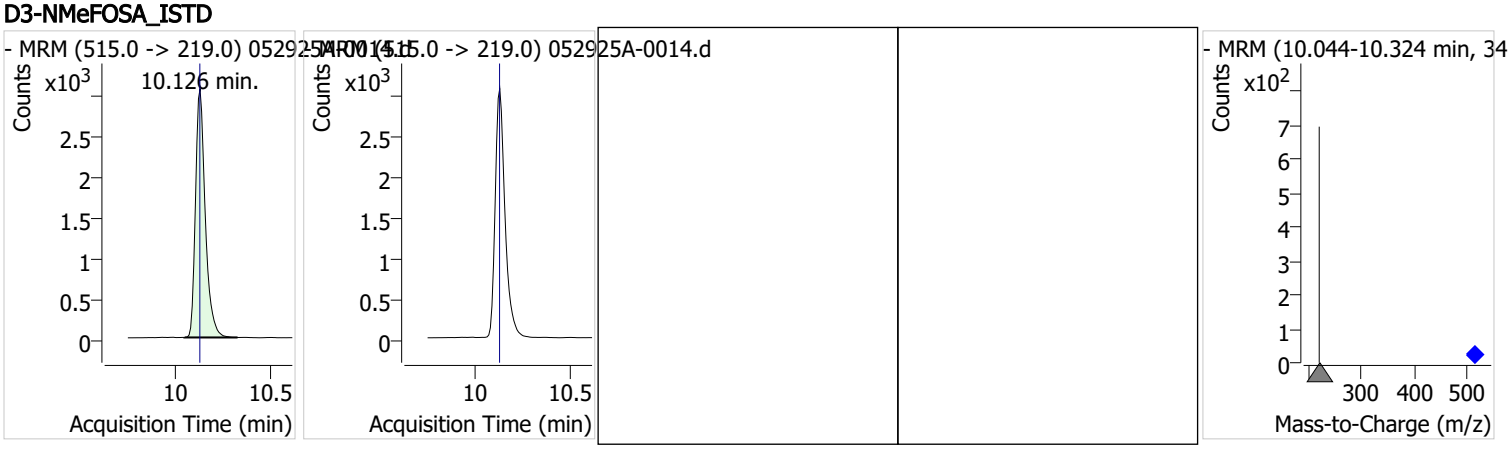
NMeFOSA



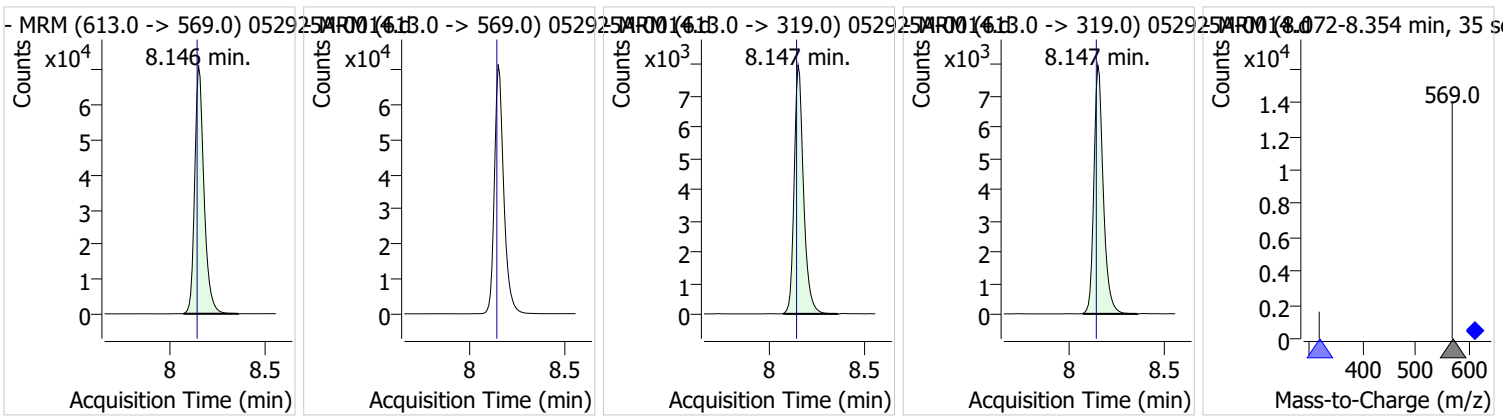
PFDA



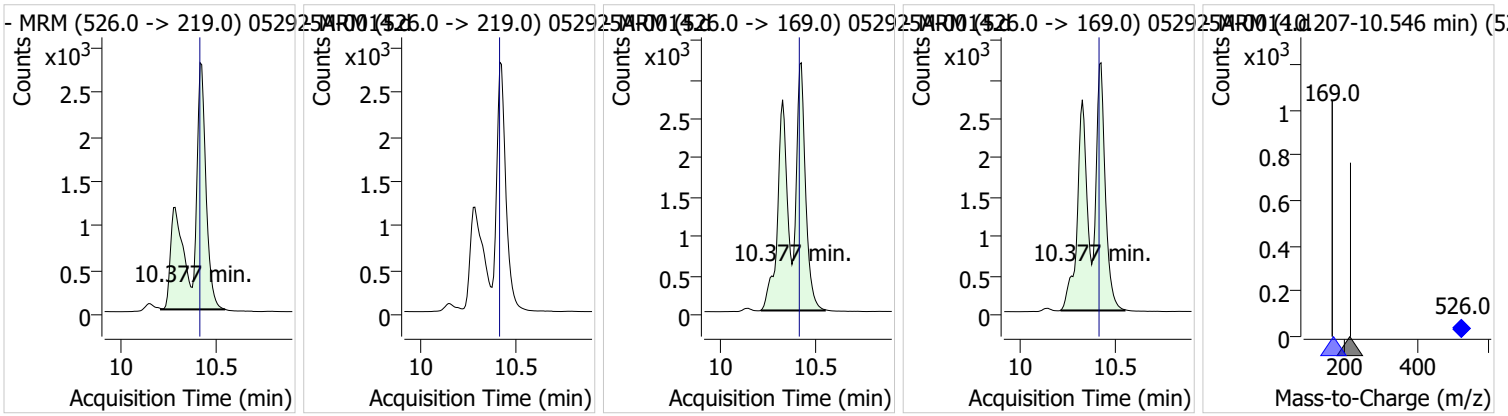
D3-NMeFOSA_ISTD



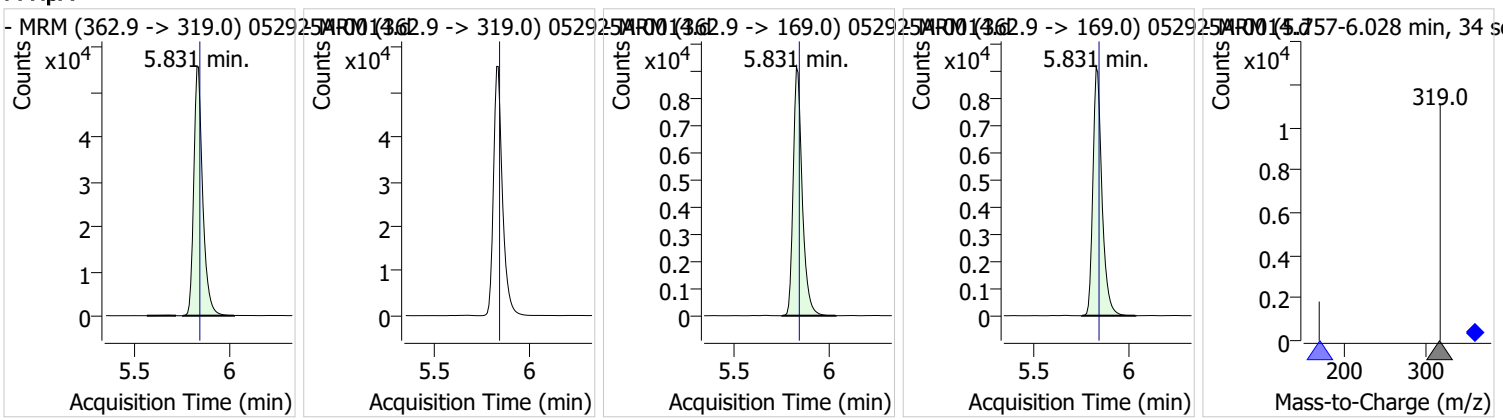
PFDoA



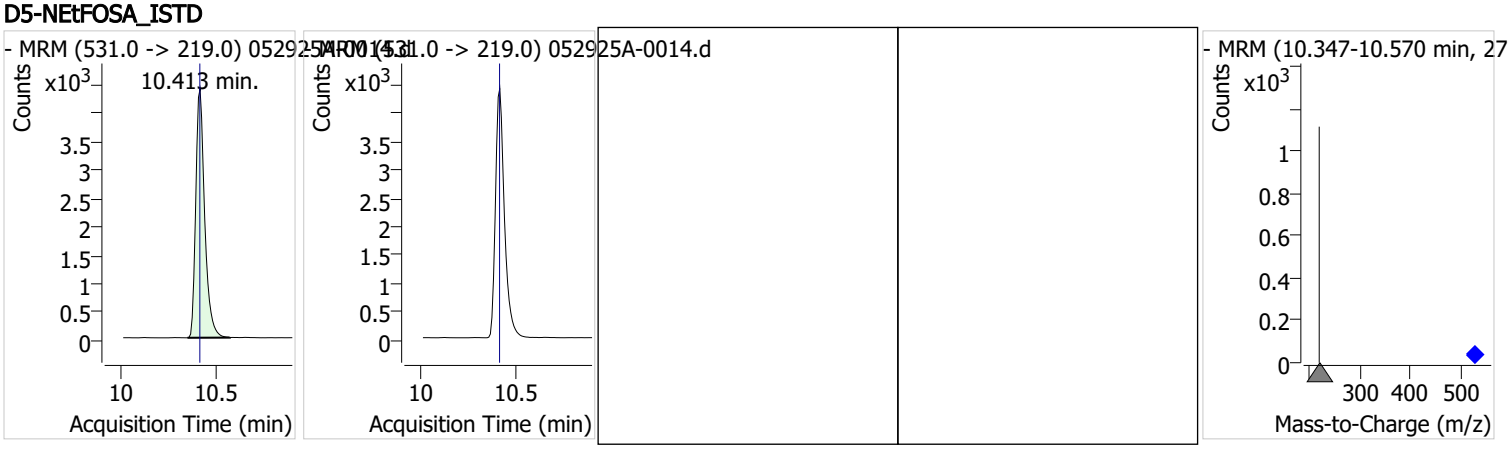
NEtFOSA



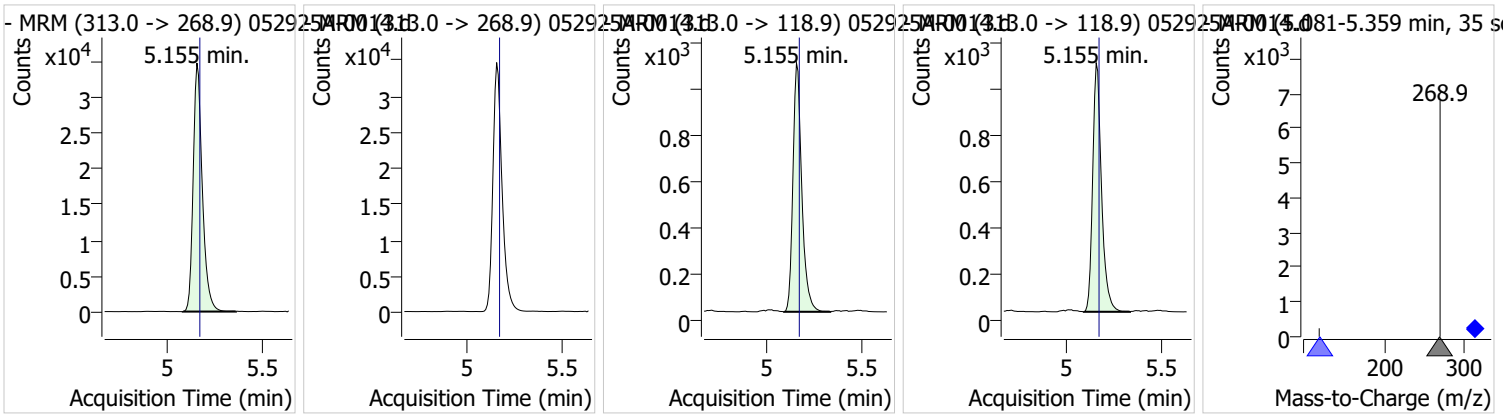
PFHpA



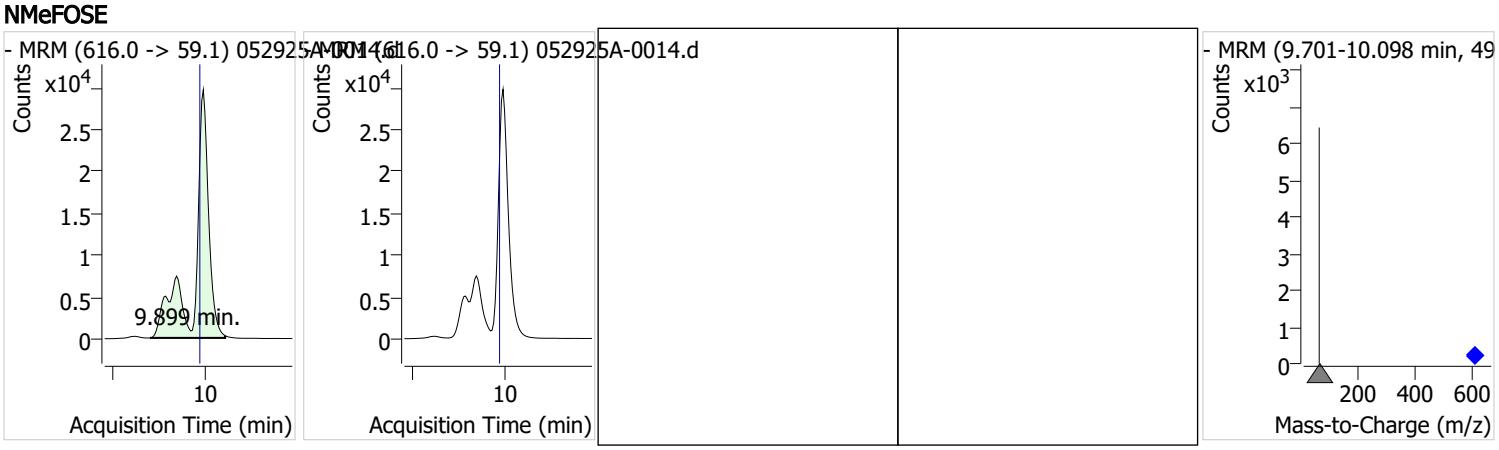
D5-NEtFOSA_ISTD



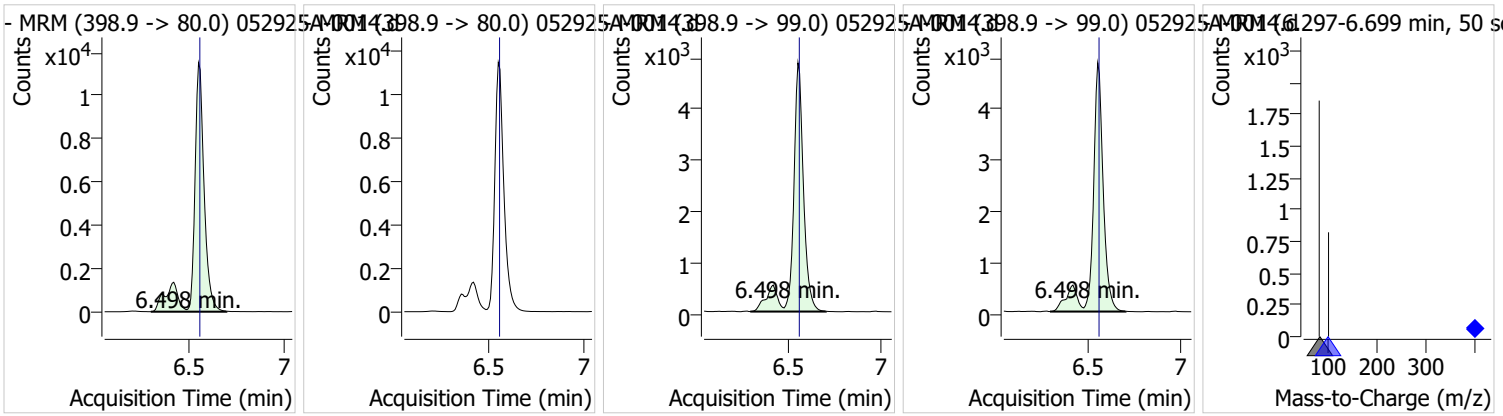
PFHxA



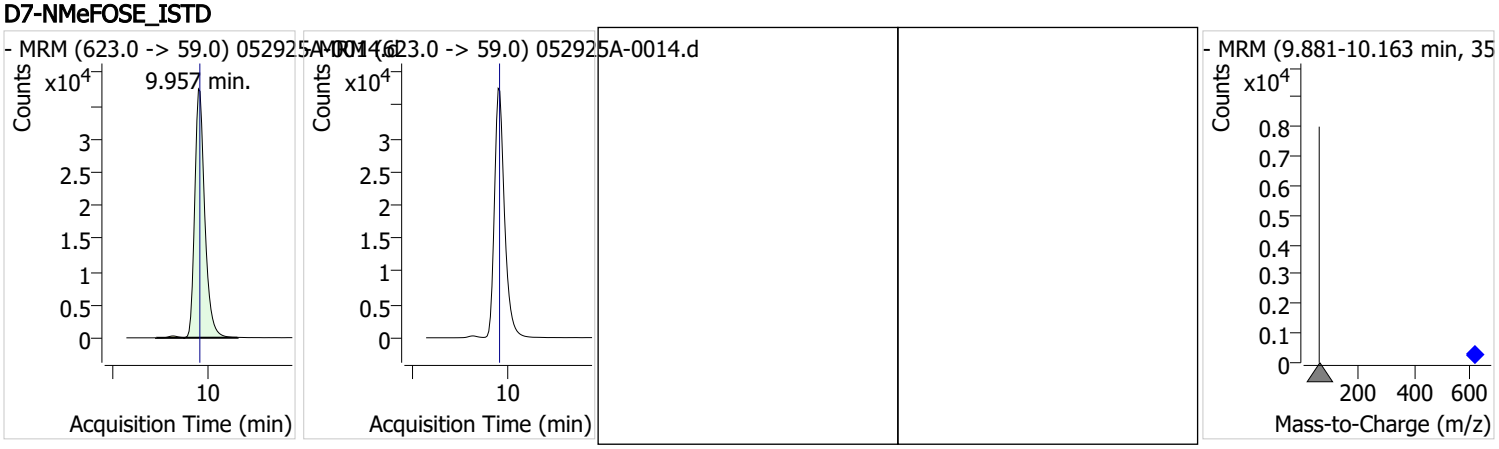
NMeFOSE



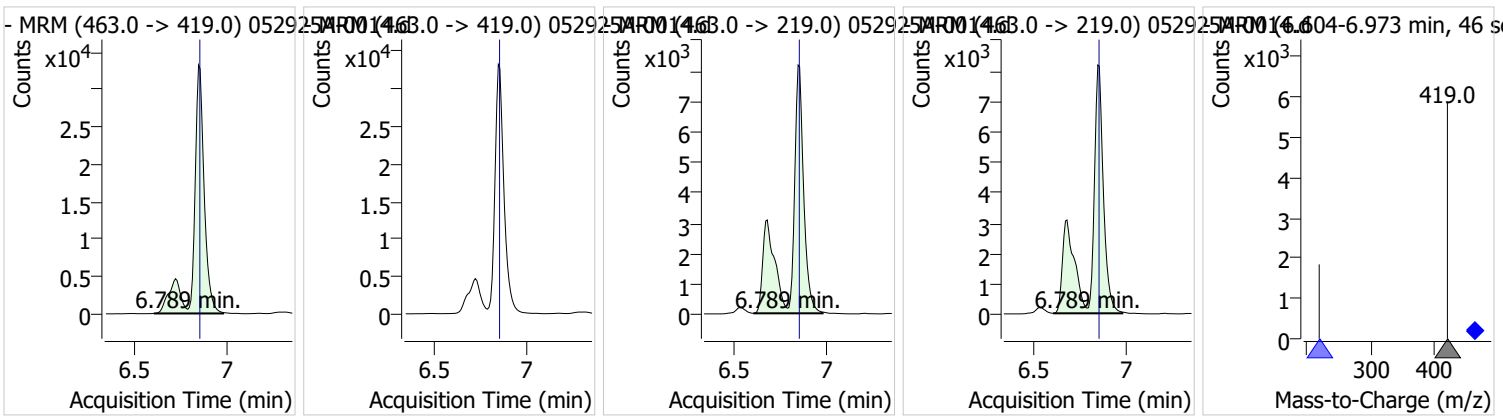
PFHxS



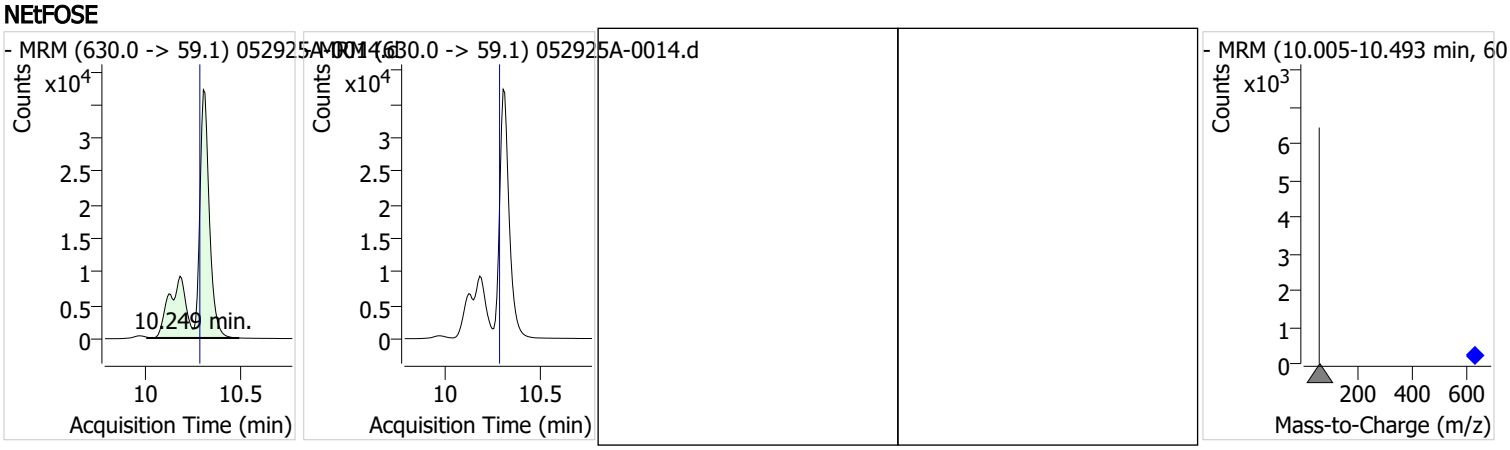
D7-NMeFOSE_ISTD



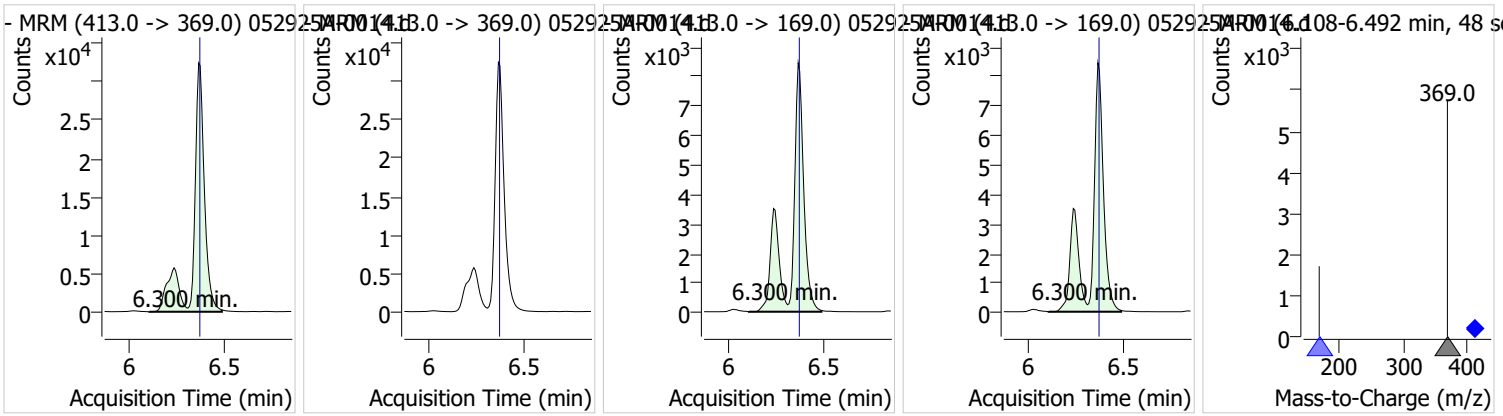
PFNA



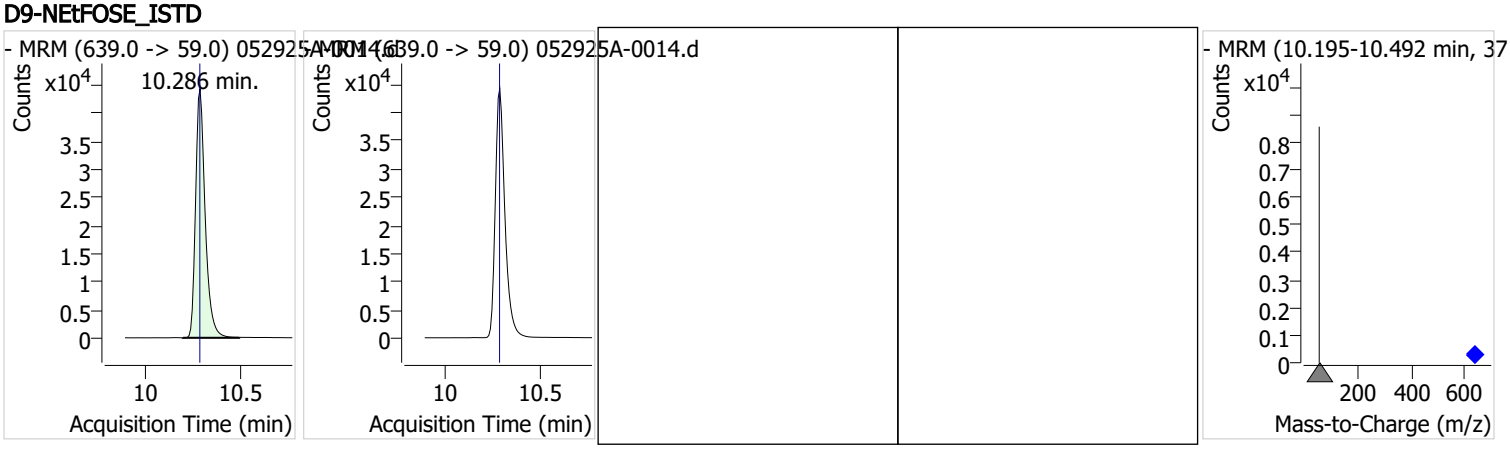
NEtFOSE



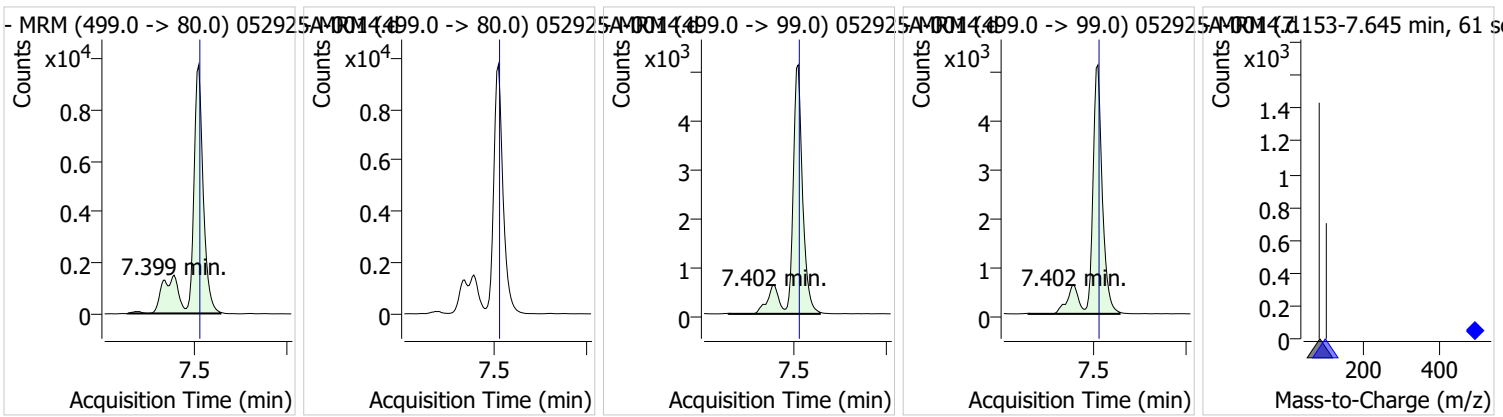
PFOA



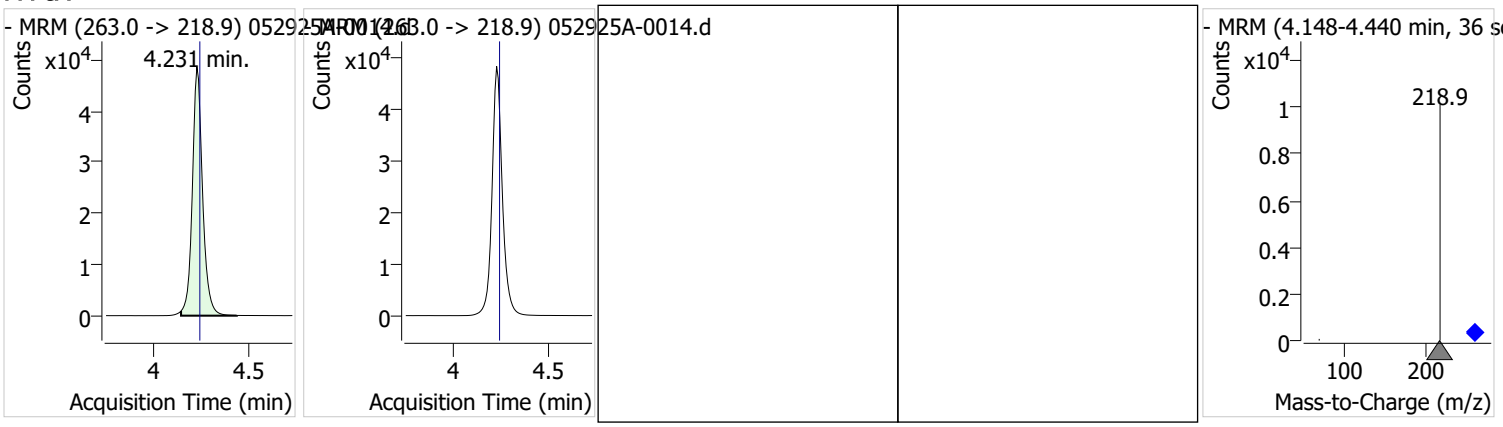
D9-NEtFOSE_ISTD



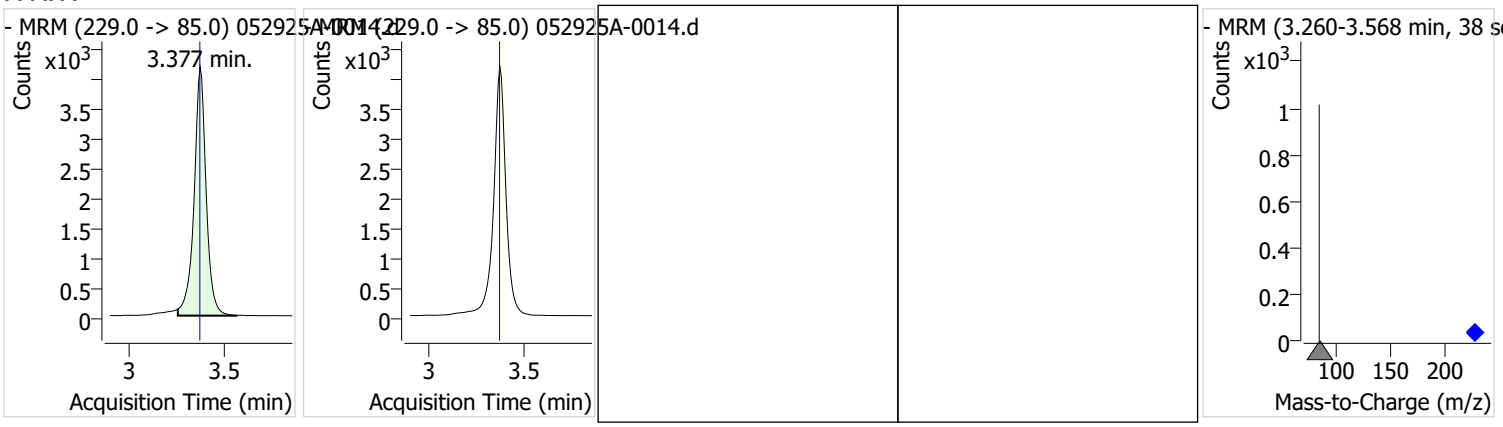
PFOS



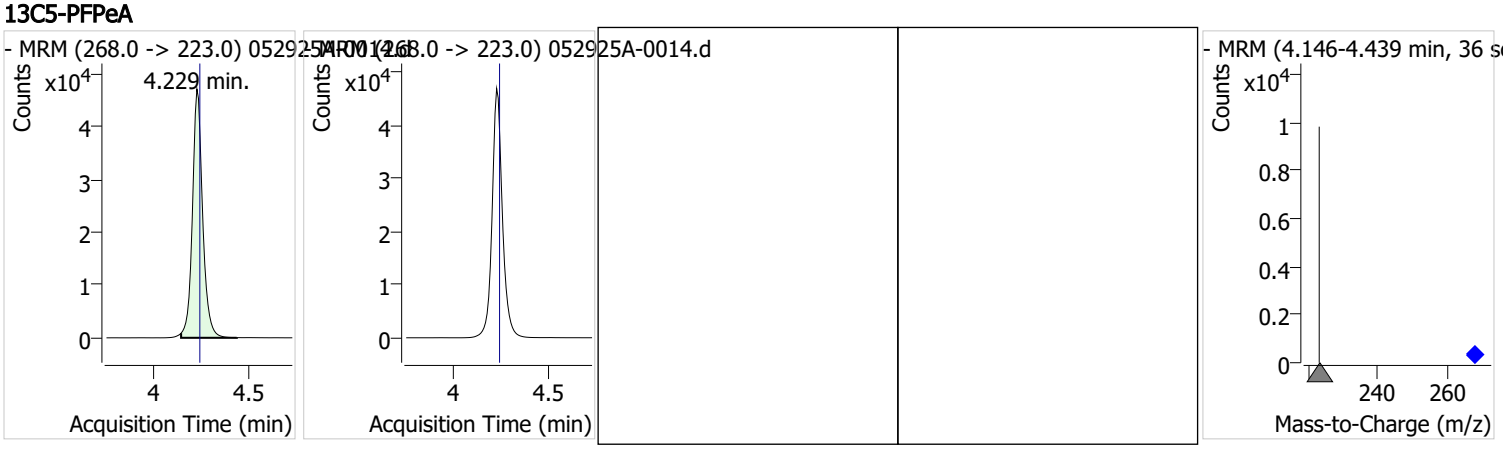
PFPeA



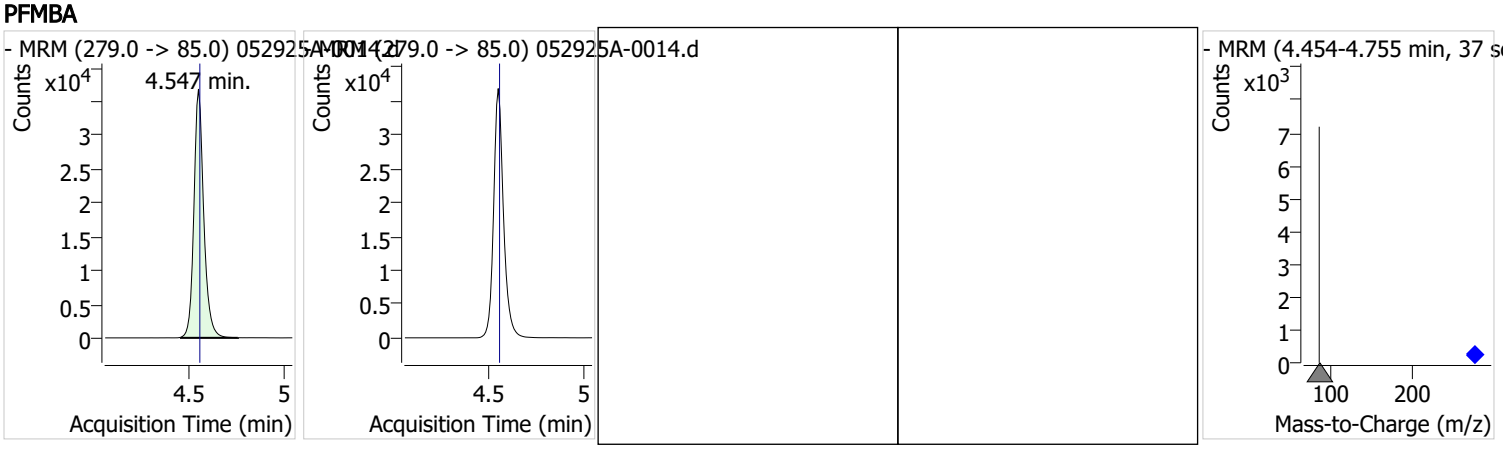
PFMPA



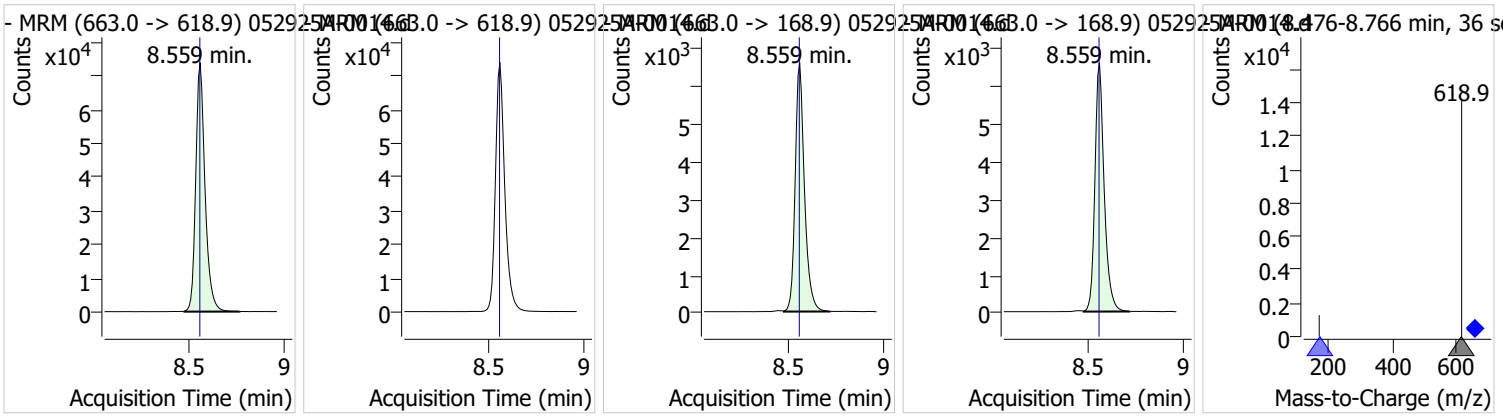
13C5-PFPeA



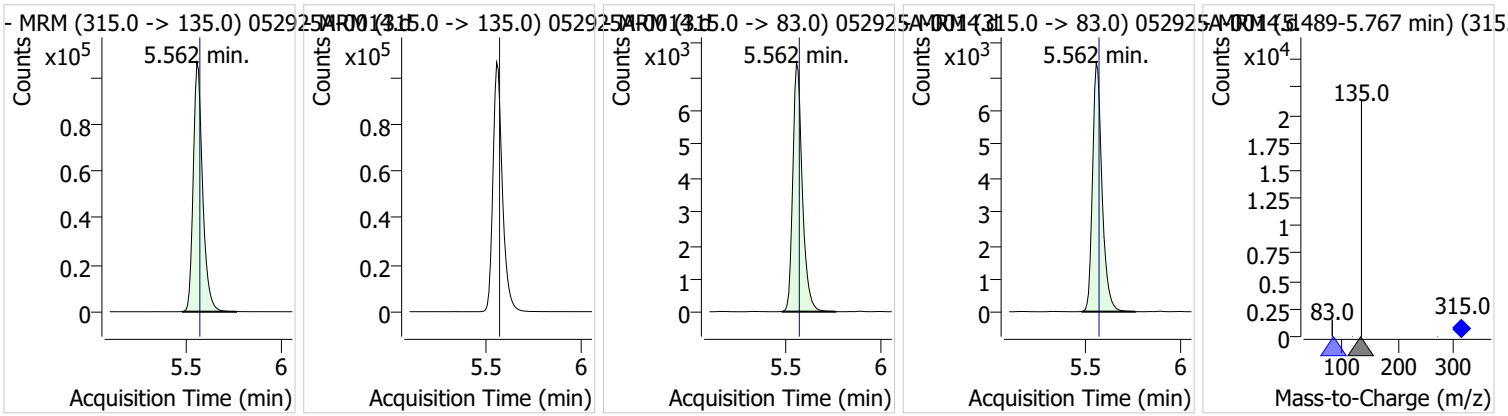
PFMBA



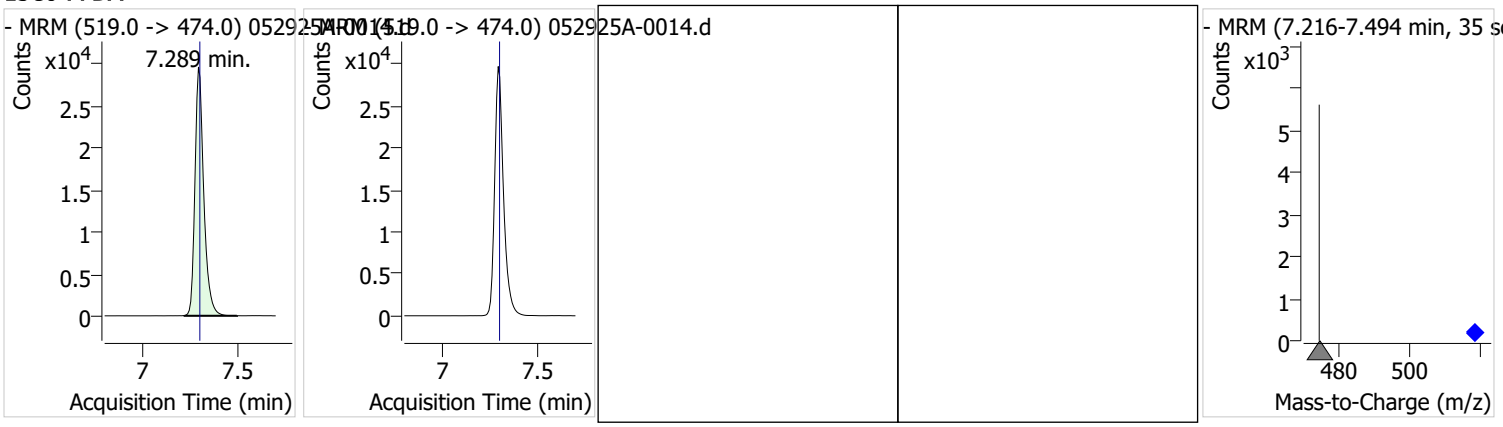
PFTrDA



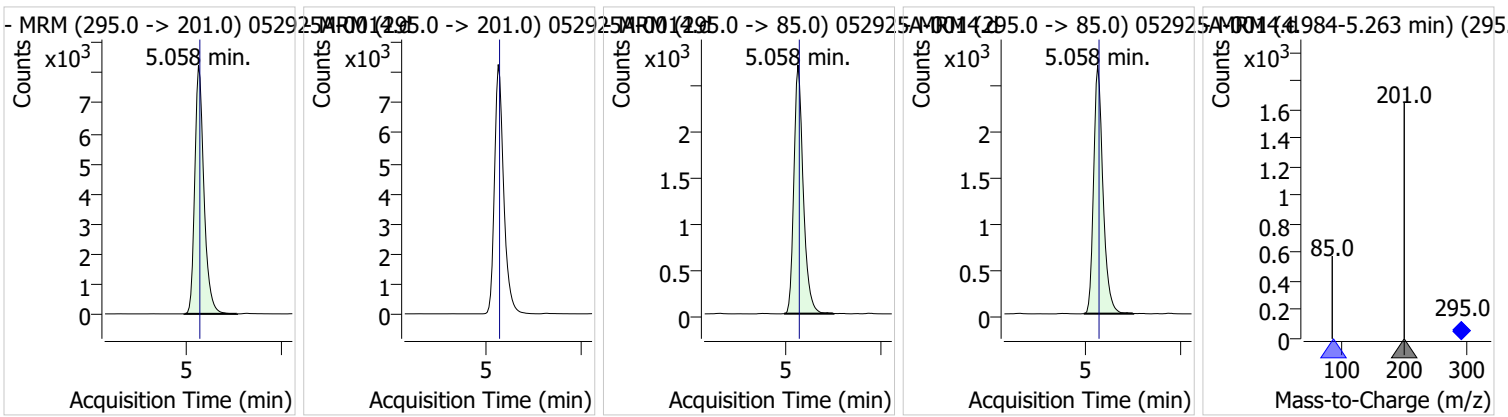
PFEESA



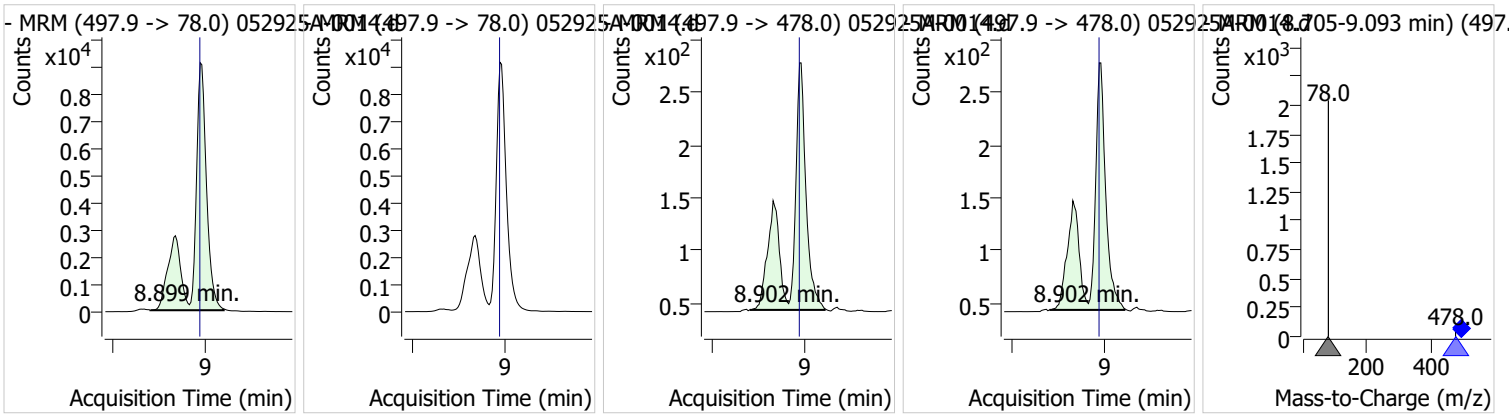
13C6-PFDA



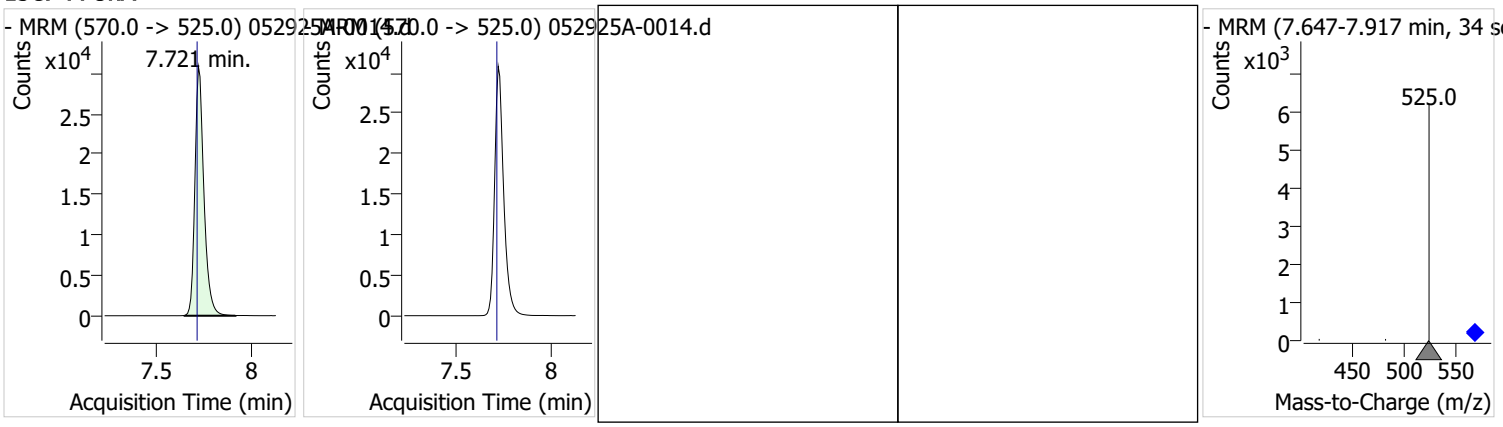
NFDHA



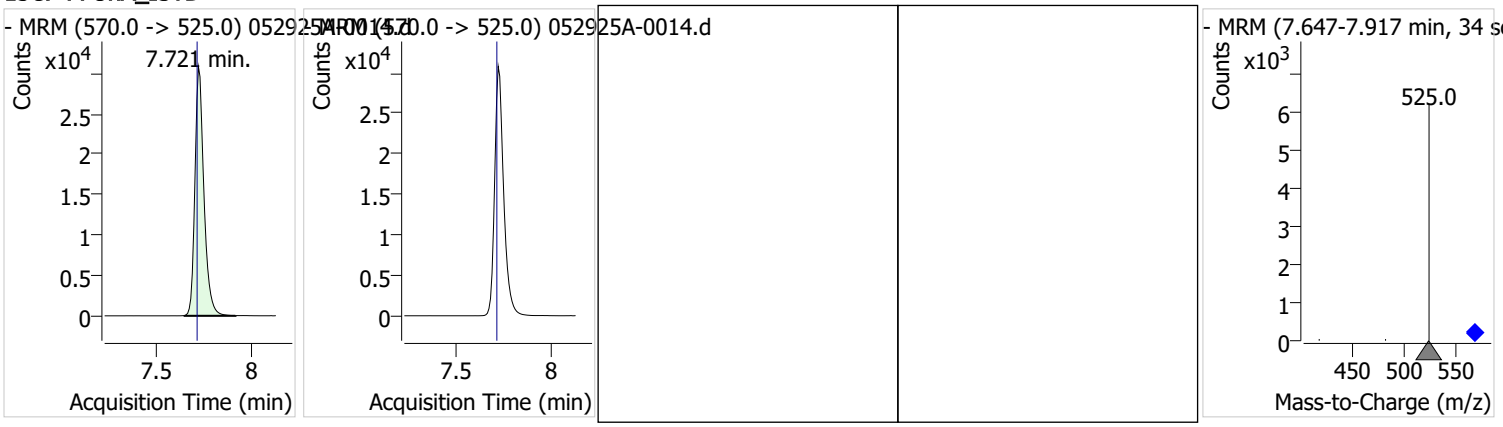
PFOSA



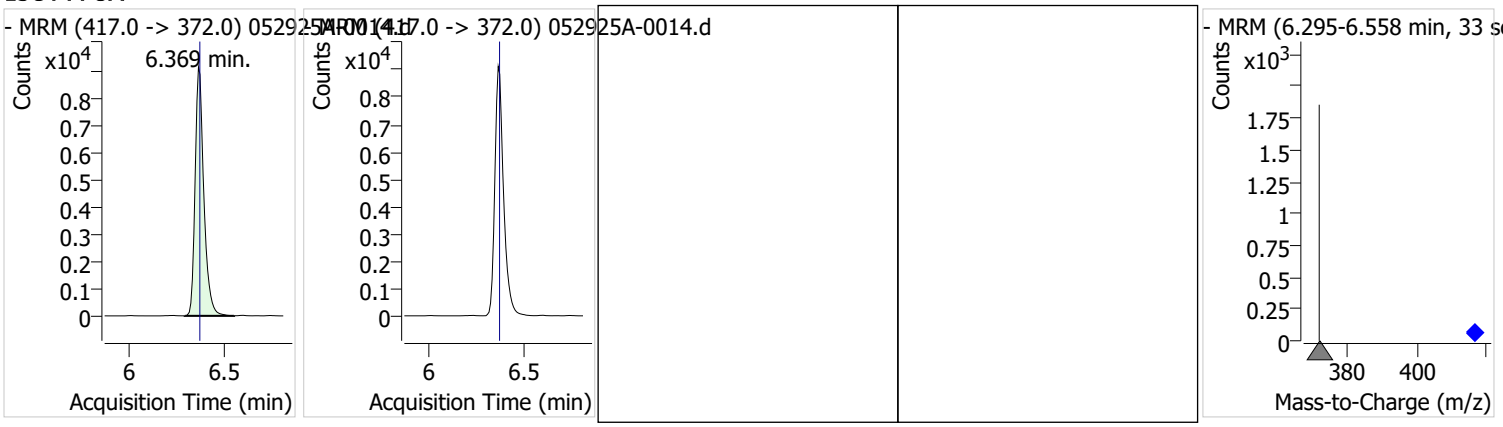
13C7-PFUnA



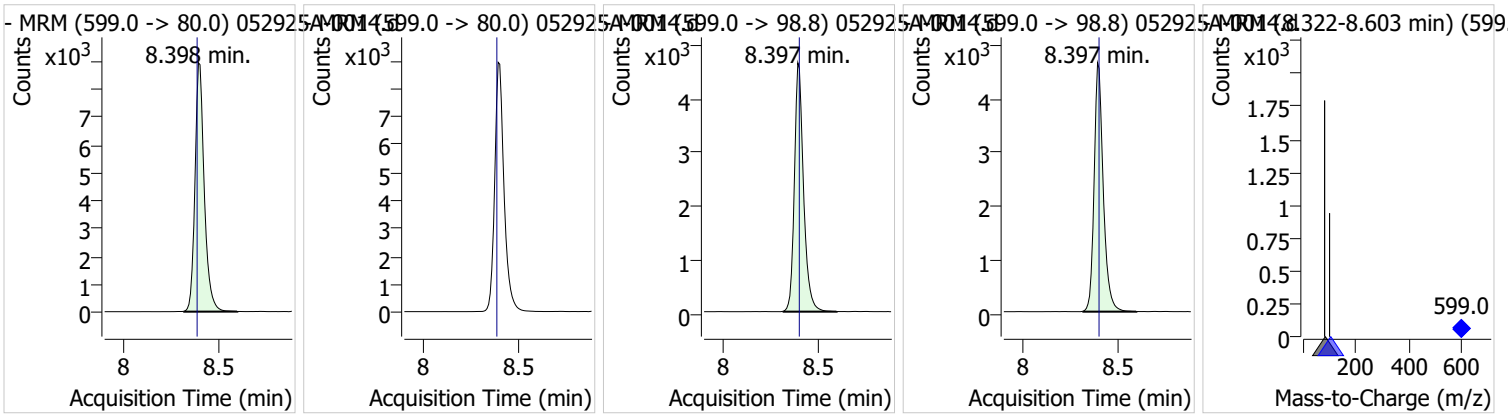
13C7-PFUnA_ISTD



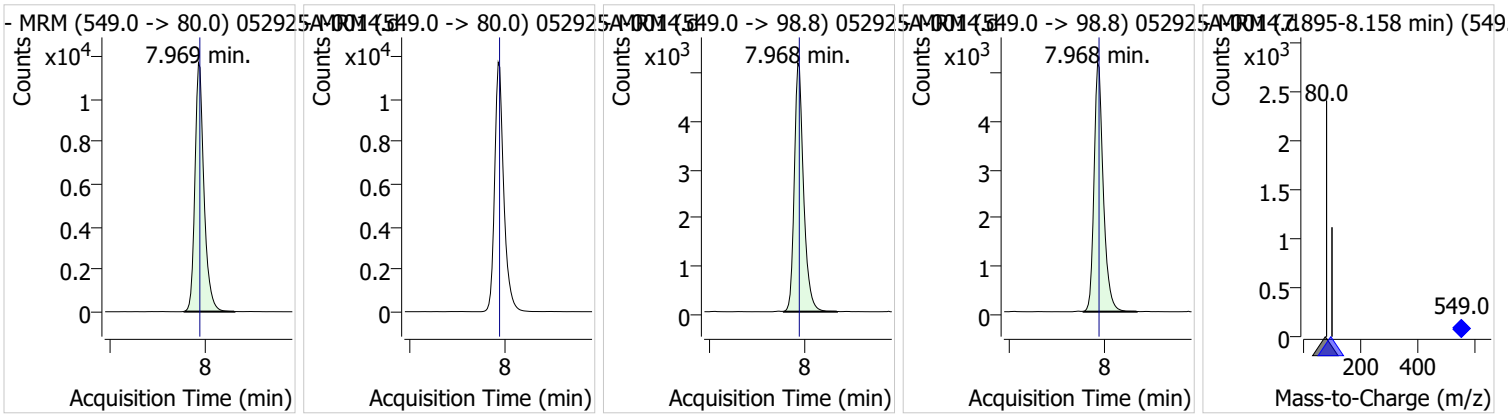
13C4-PFOA



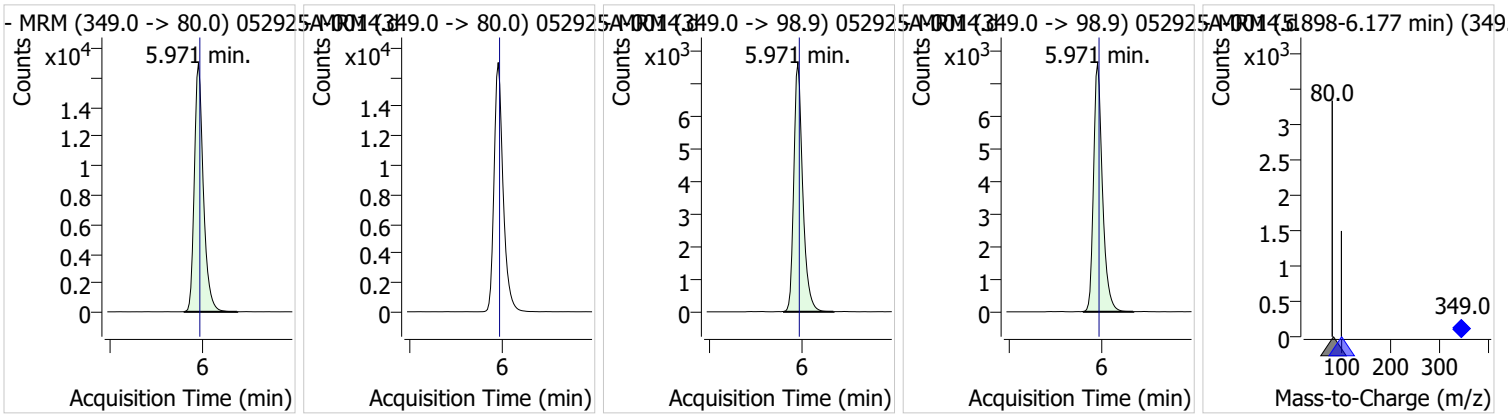
PFDS



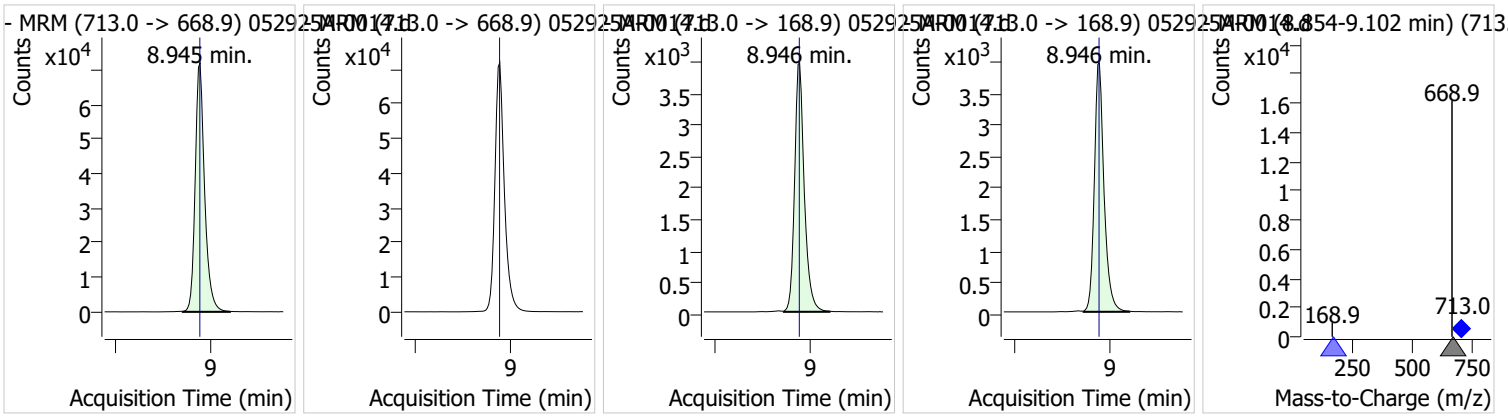
PFNS



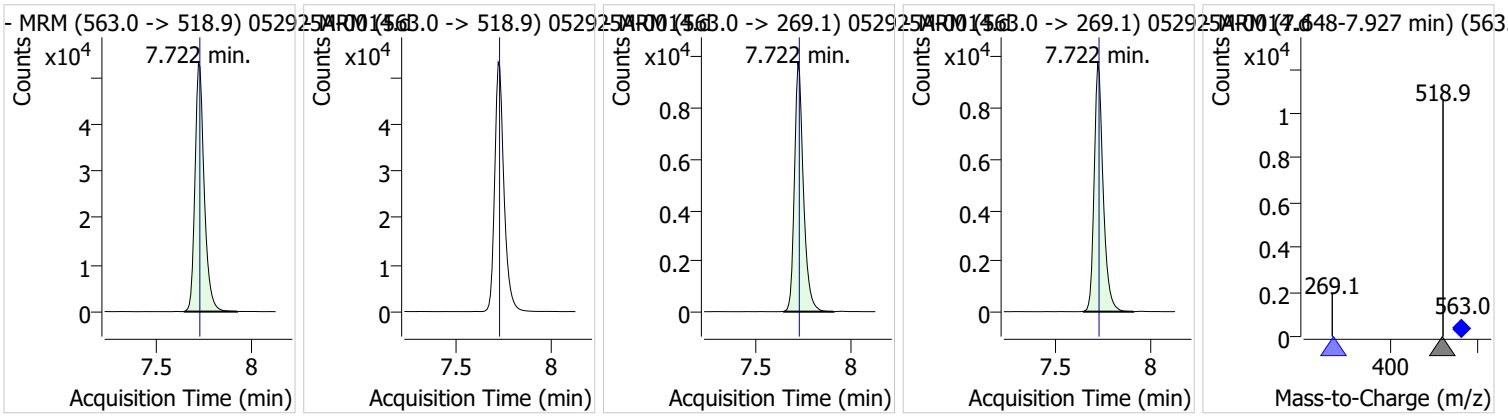
PFPeS



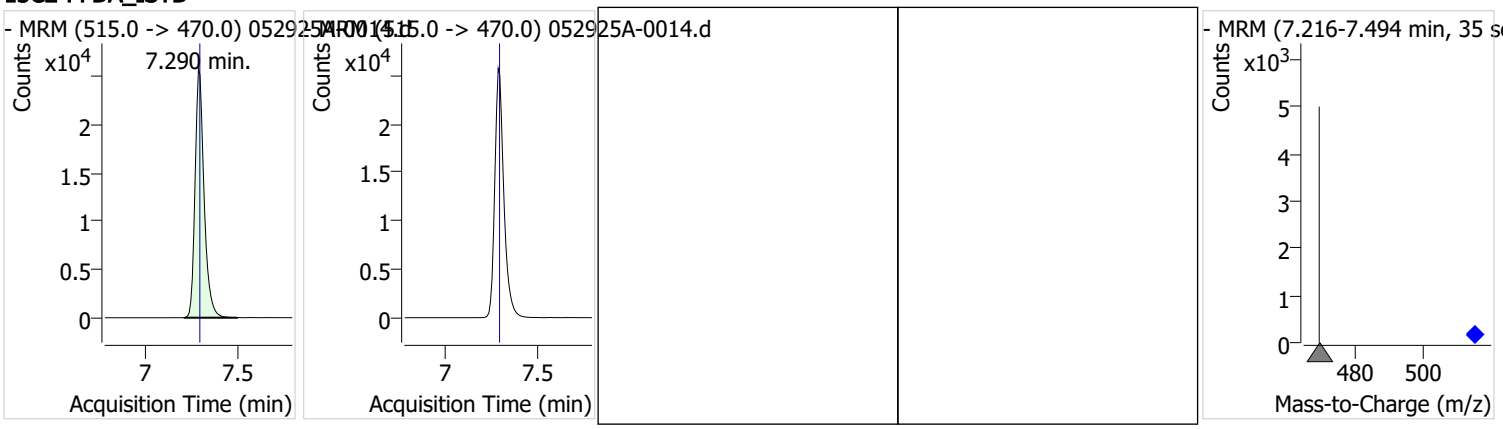
PFTeDA



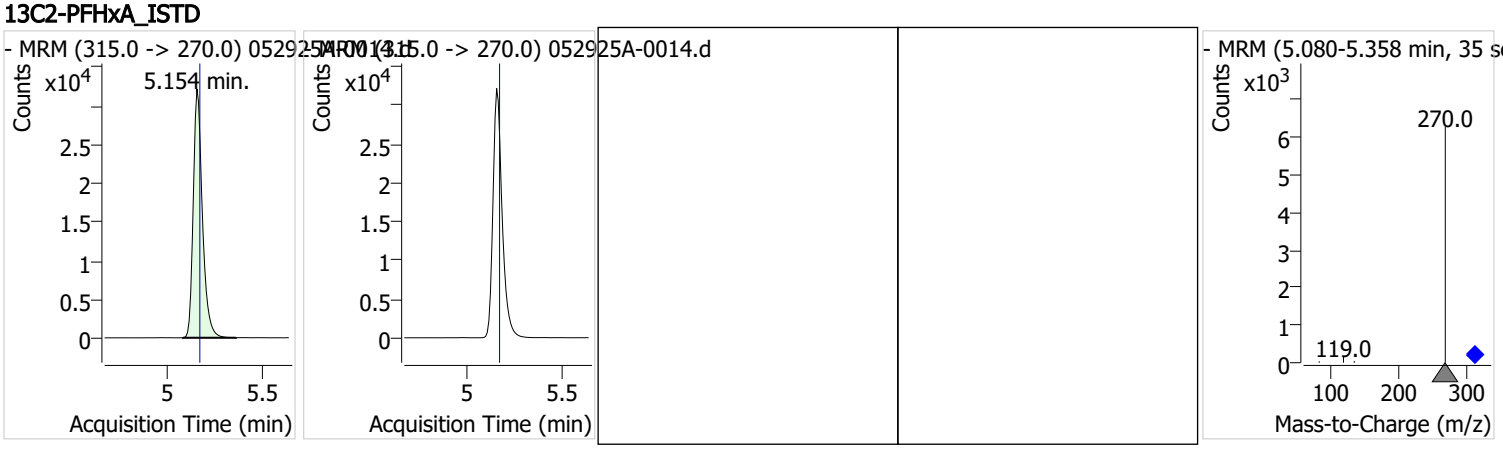
PFUnA



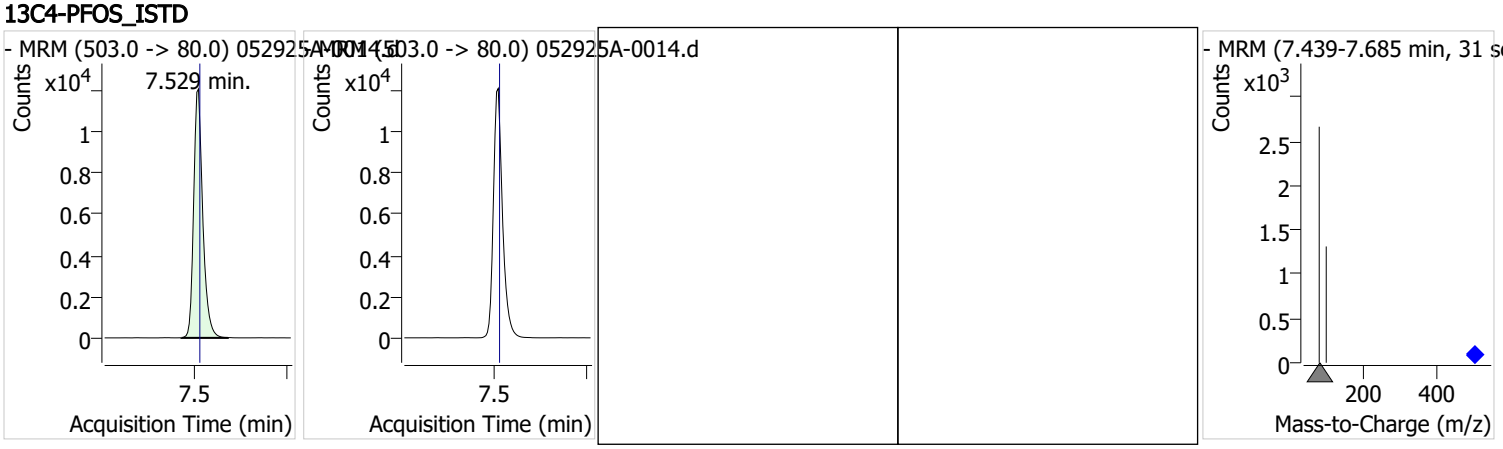
13C2-PFDA_ISTD



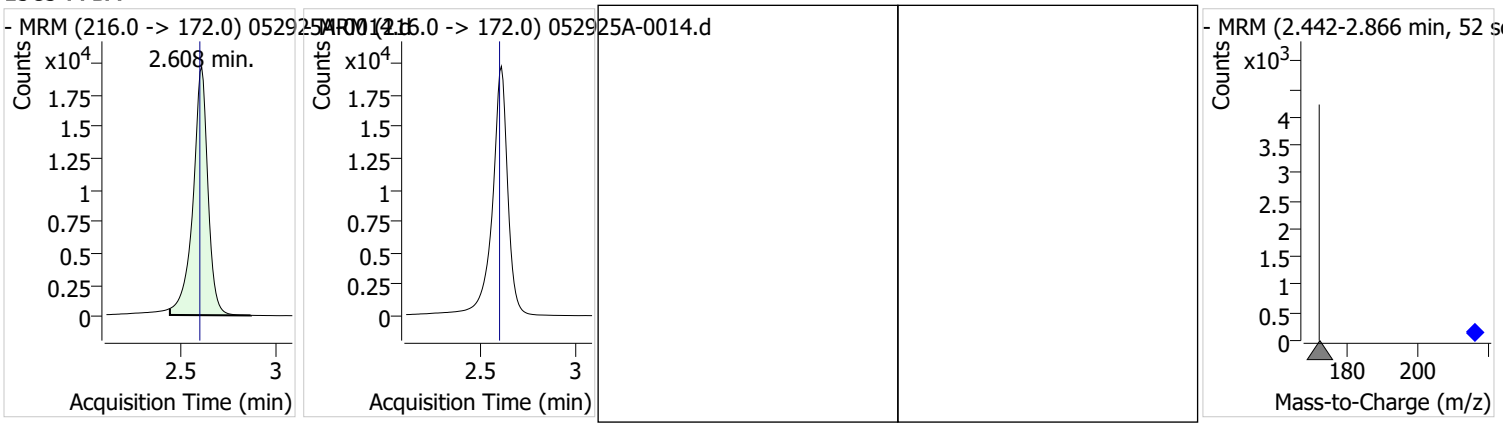
13C2-PFHxA_ISTD



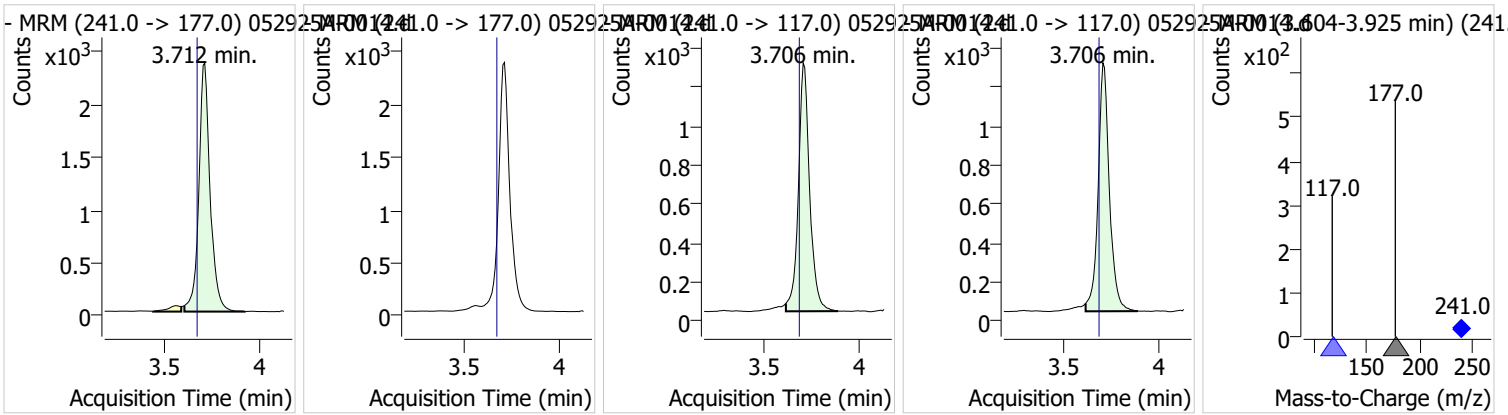
13C4-PFOS_ISTD



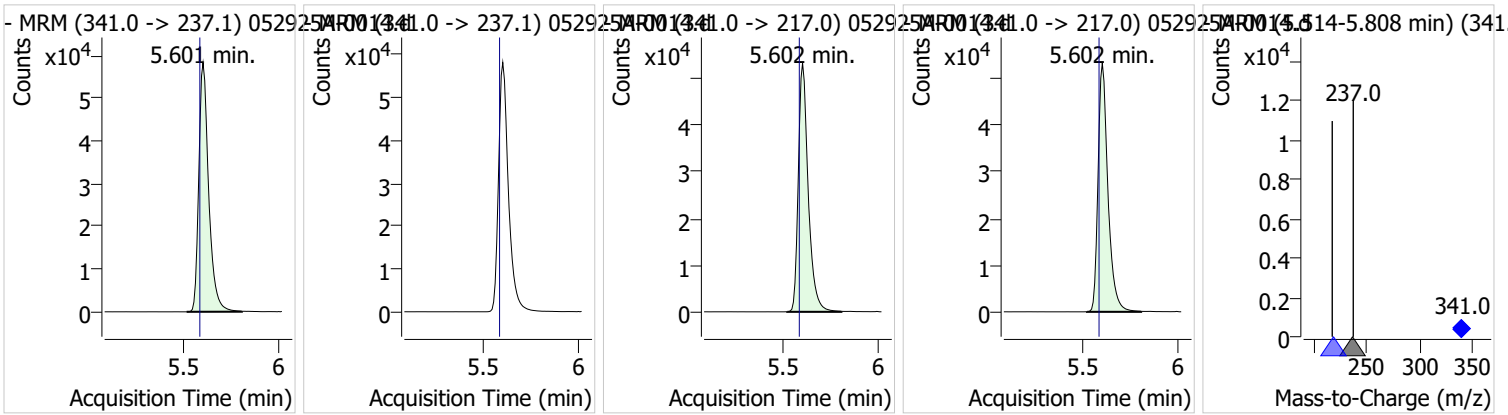
13C3-PFBA



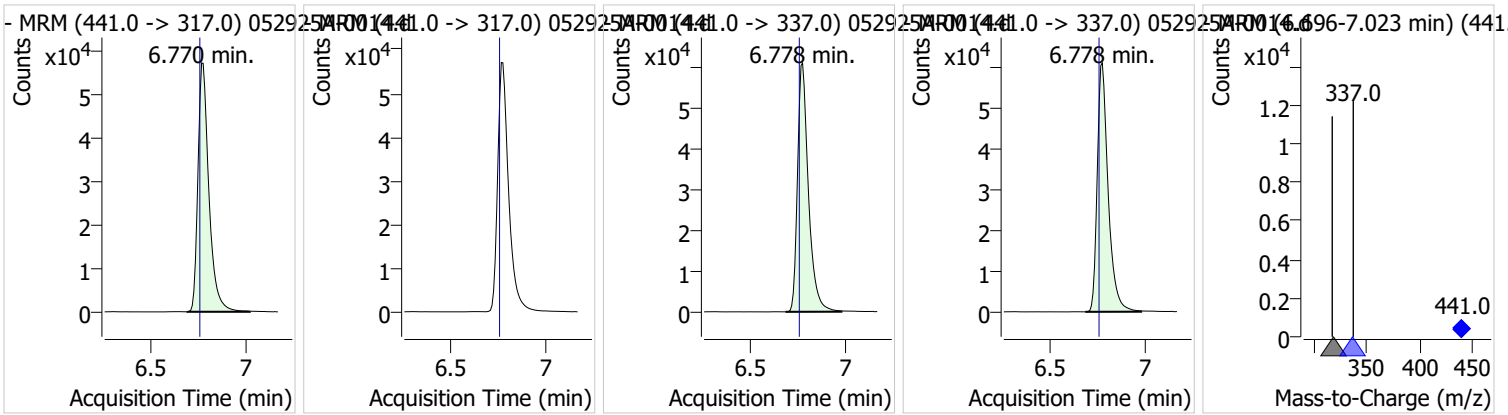
3:3FTCA



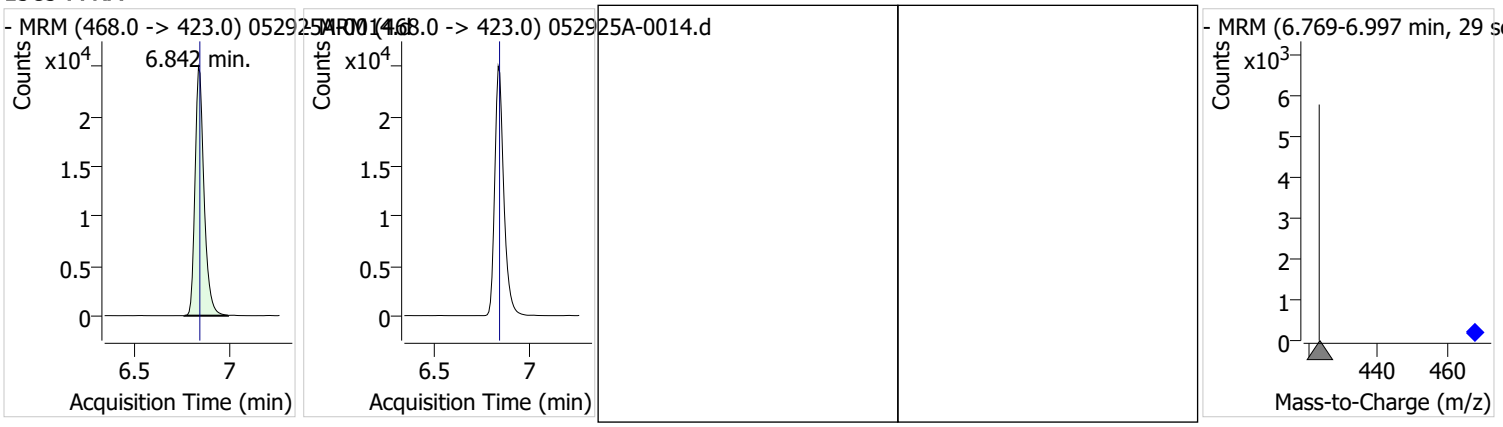
5:3FTCA



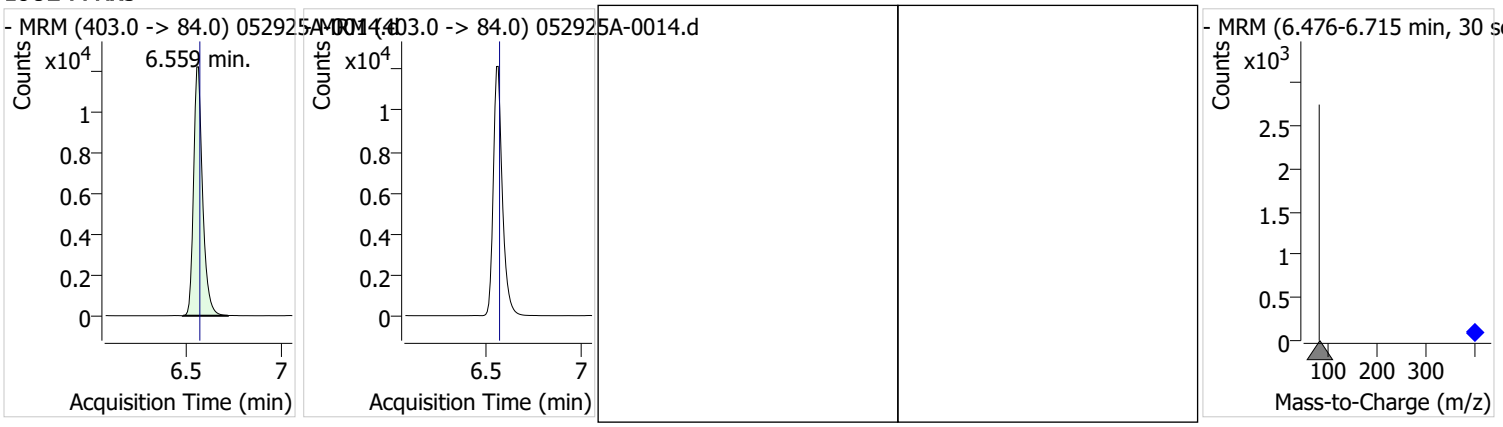
7:3FTCA



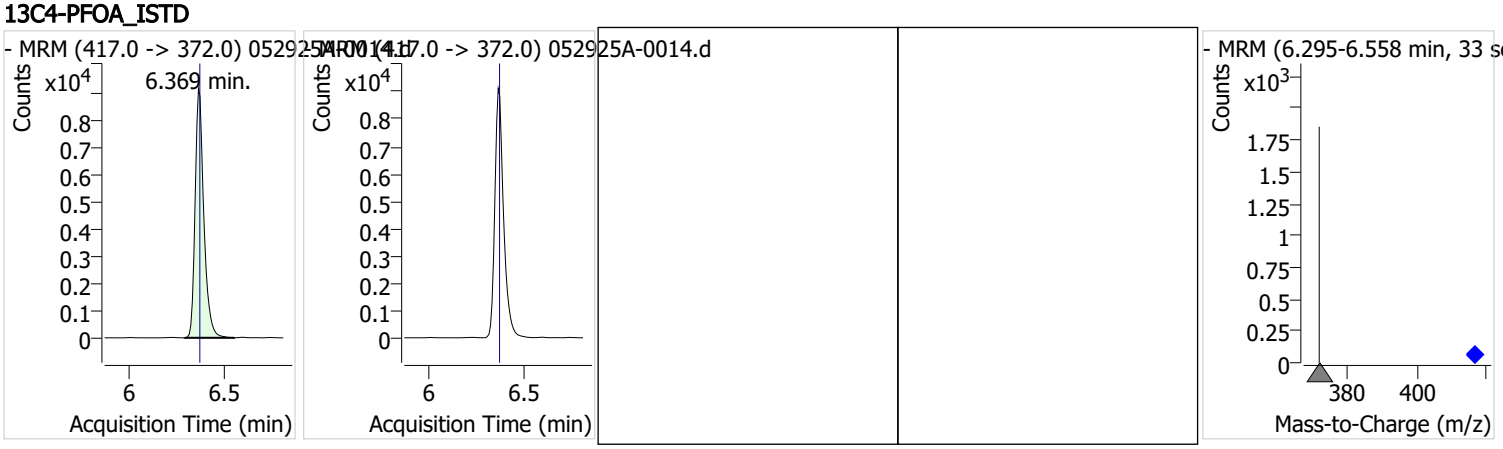
13C5-PFNA



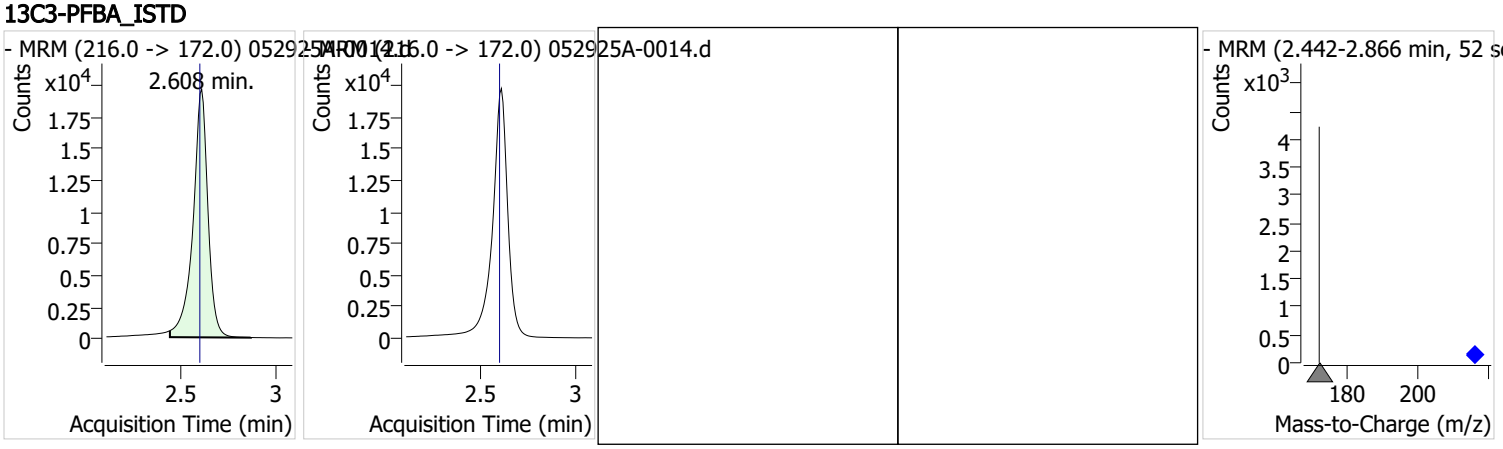
18O2-PFHxS



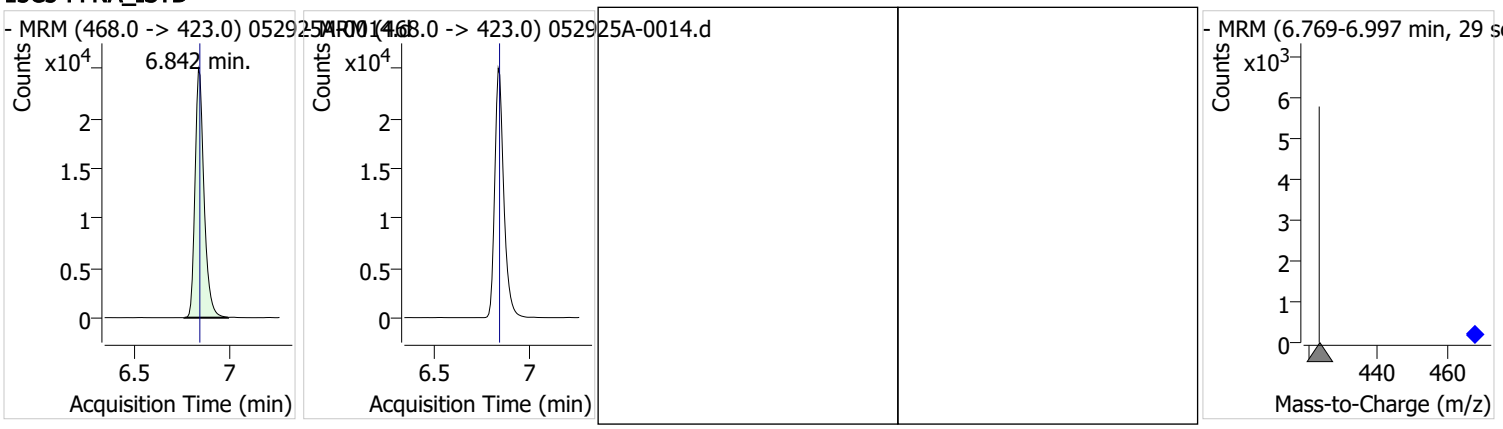
13C4-PFOA_ISTD



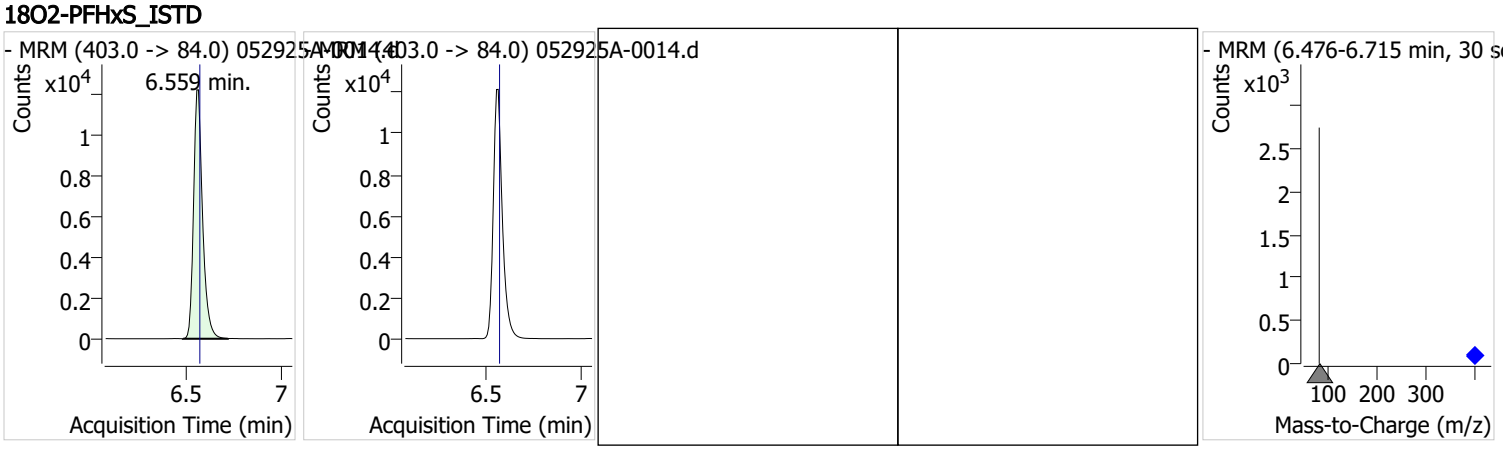
13C3-PFBA_ISTD



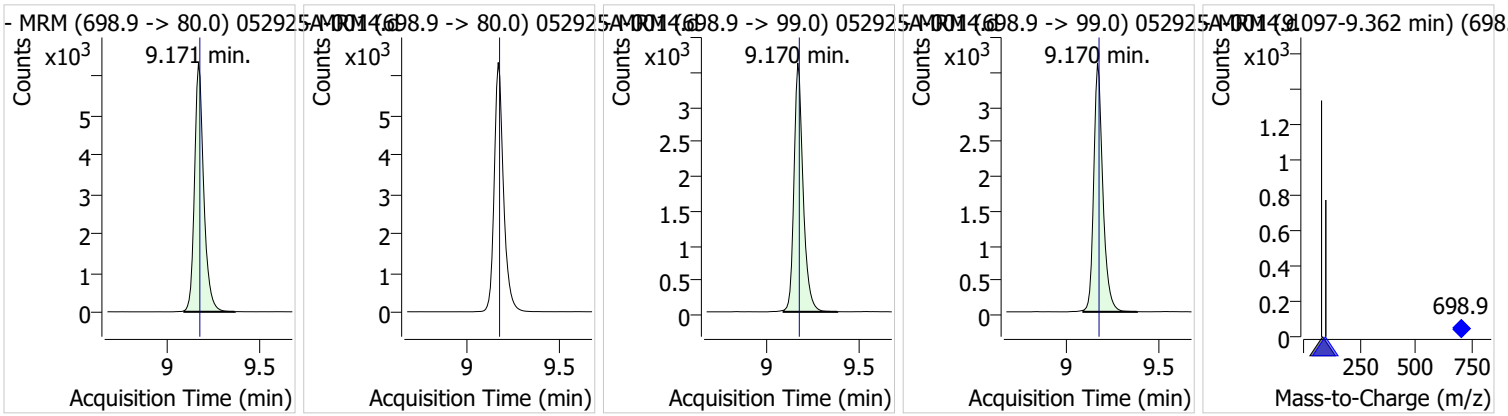
13C5-PFNA_ISTD



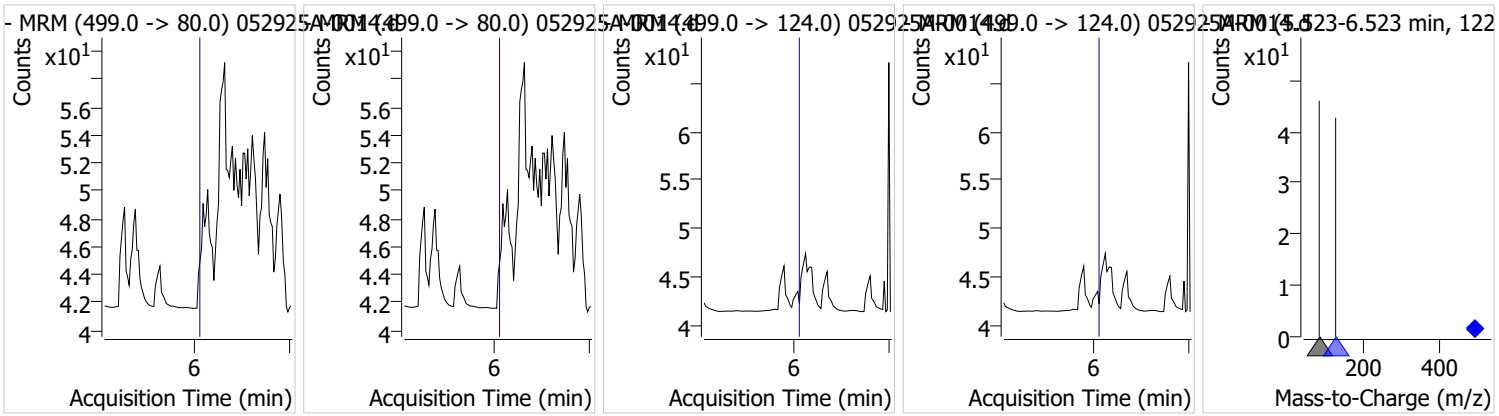
18O2-PFHxS_ISTD



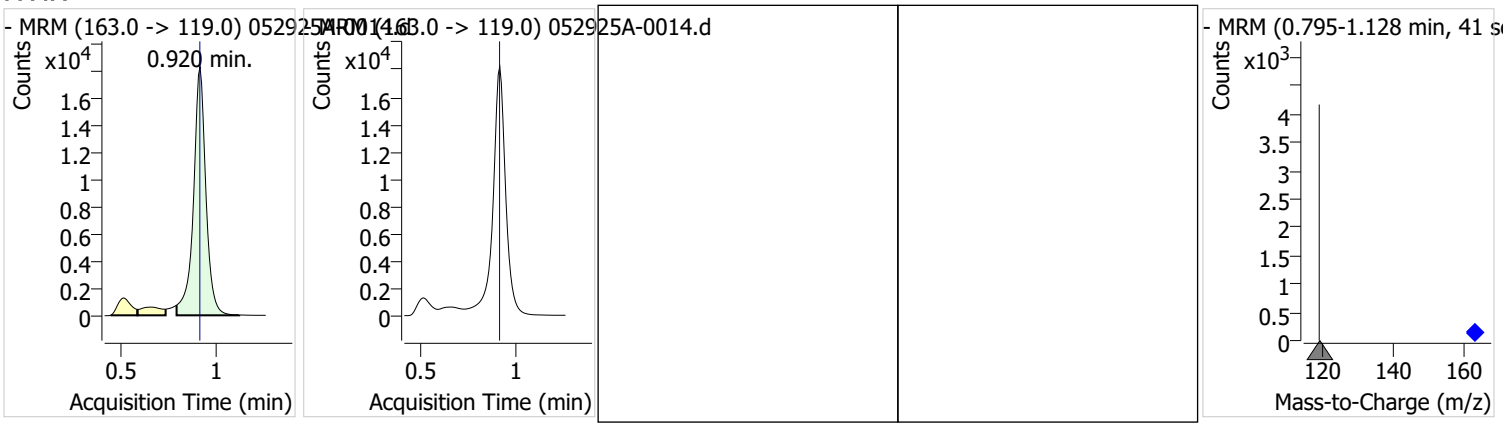
PFDoS



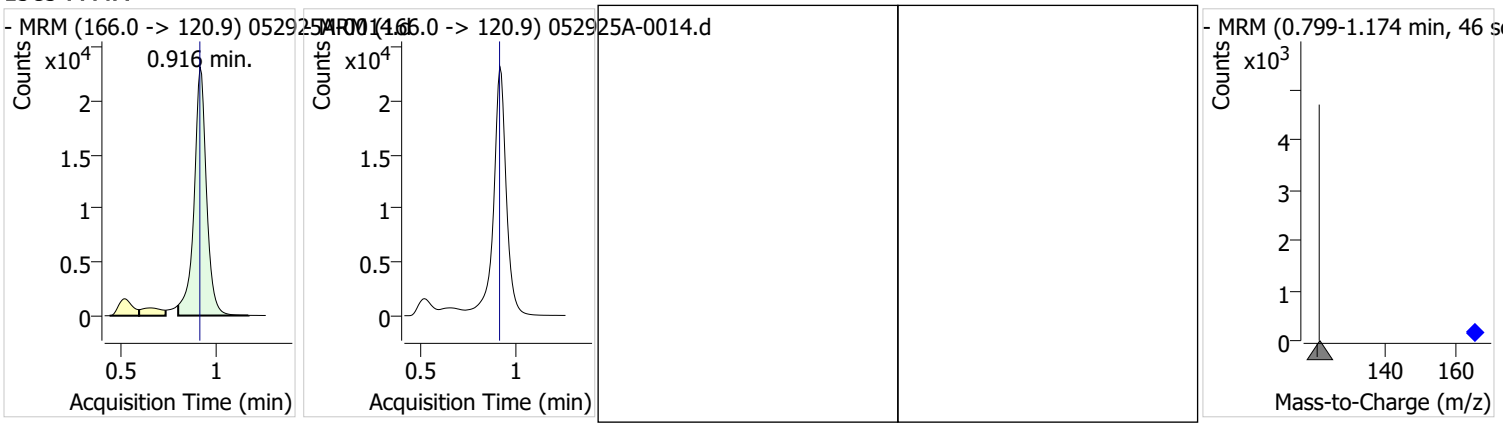
TDCA



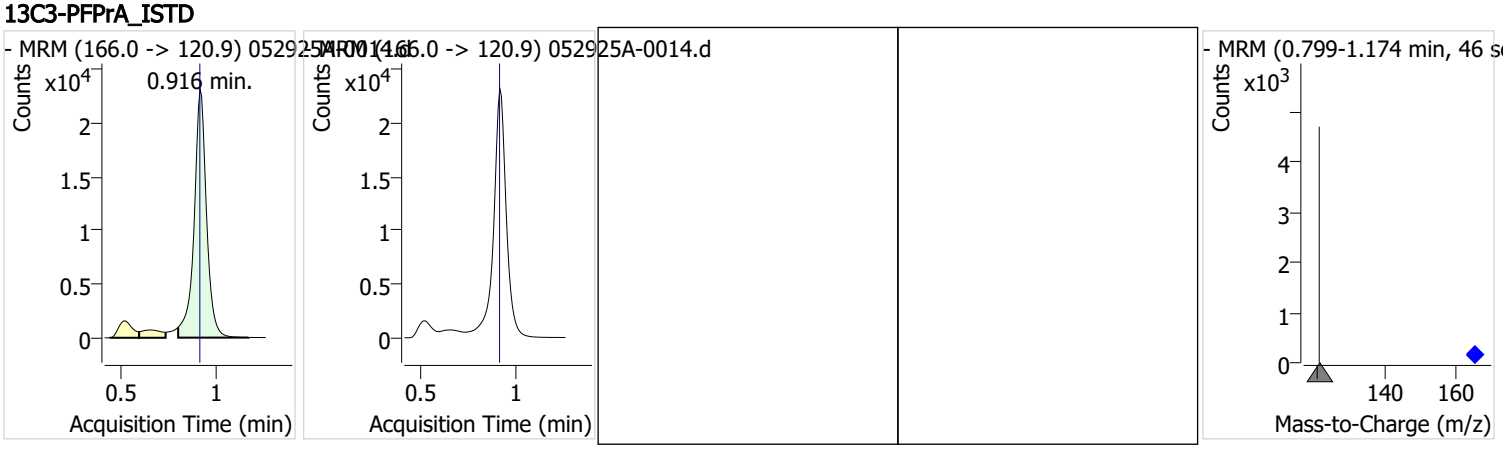
PFPrA



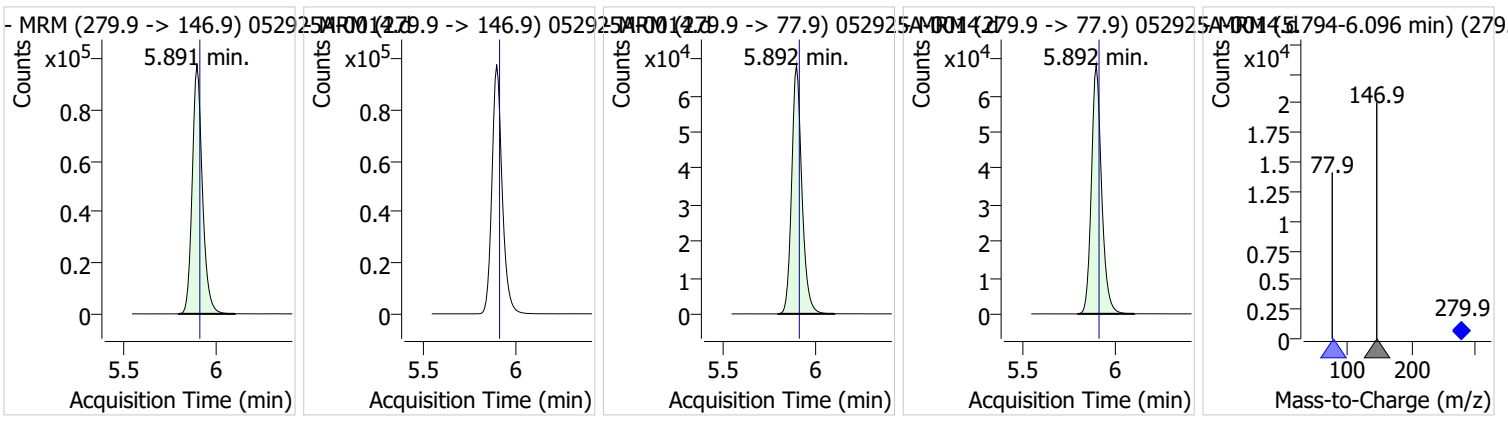
13C3-PFPrA



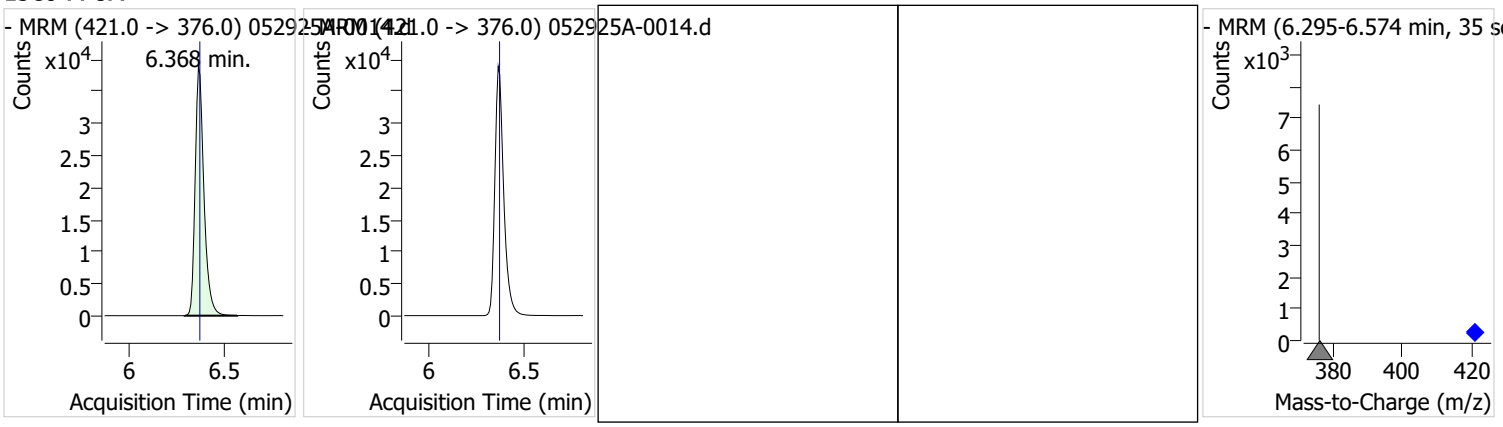
13C3-PFPrA_ISTD



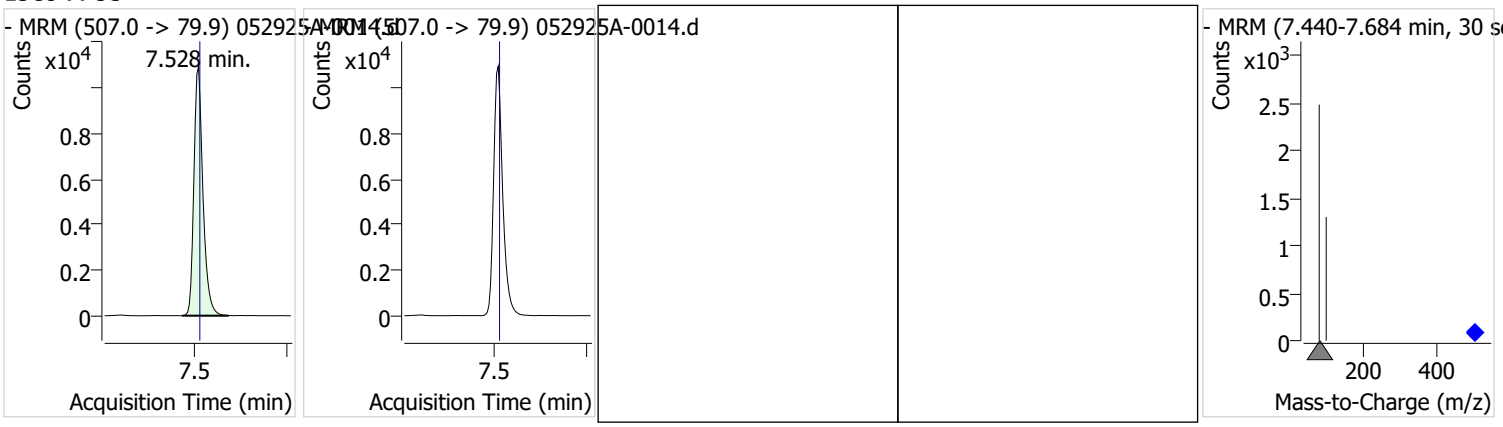
TFSI



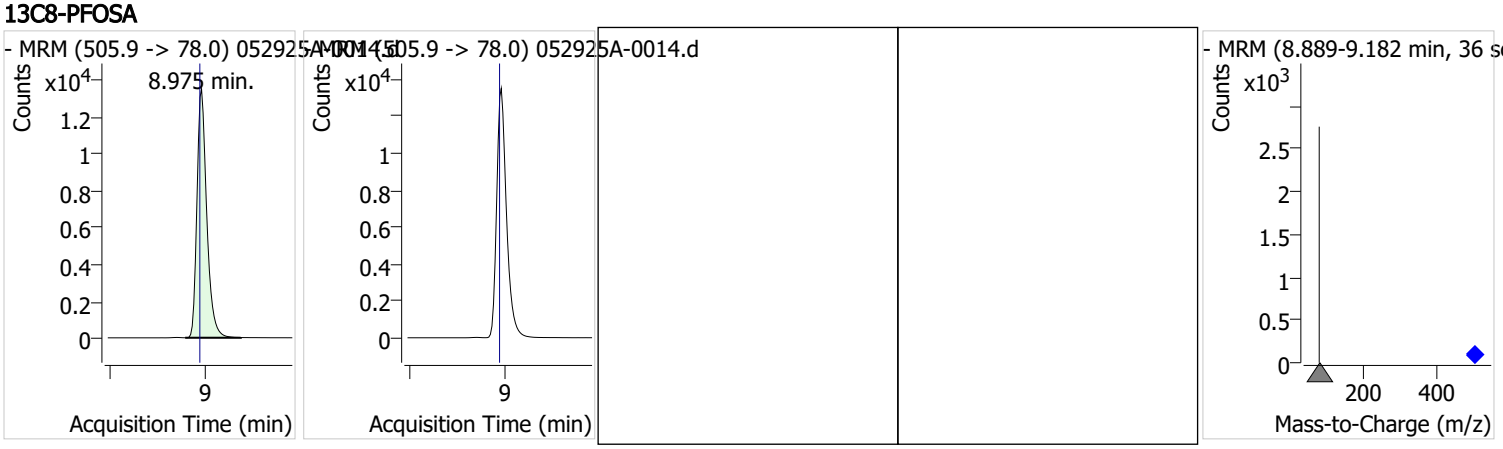
13C8-PFOA



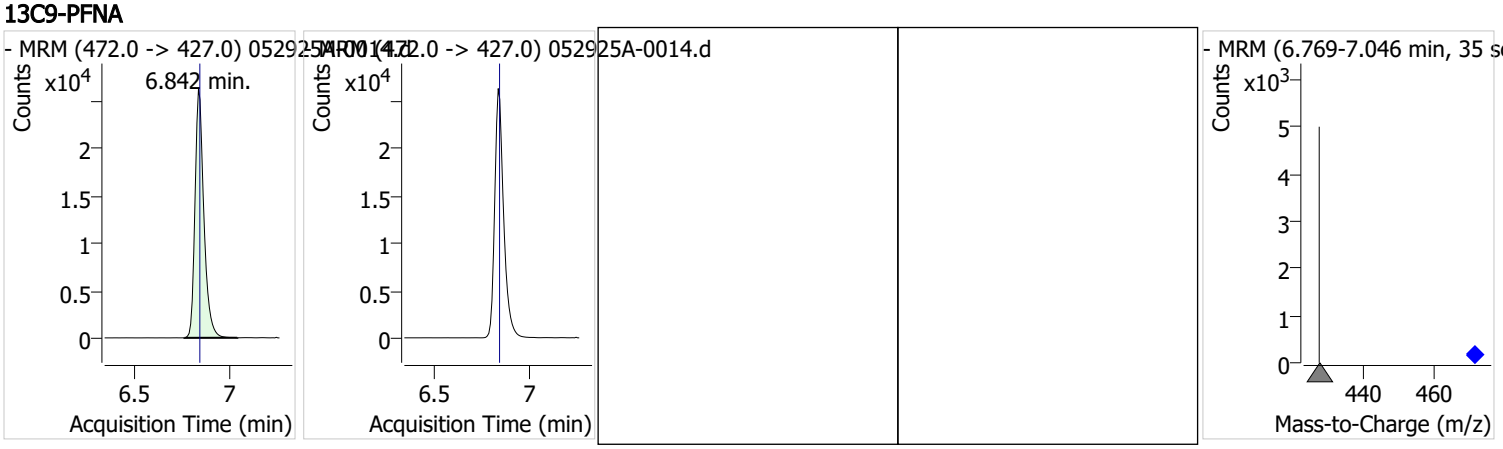
13C8-PFOS



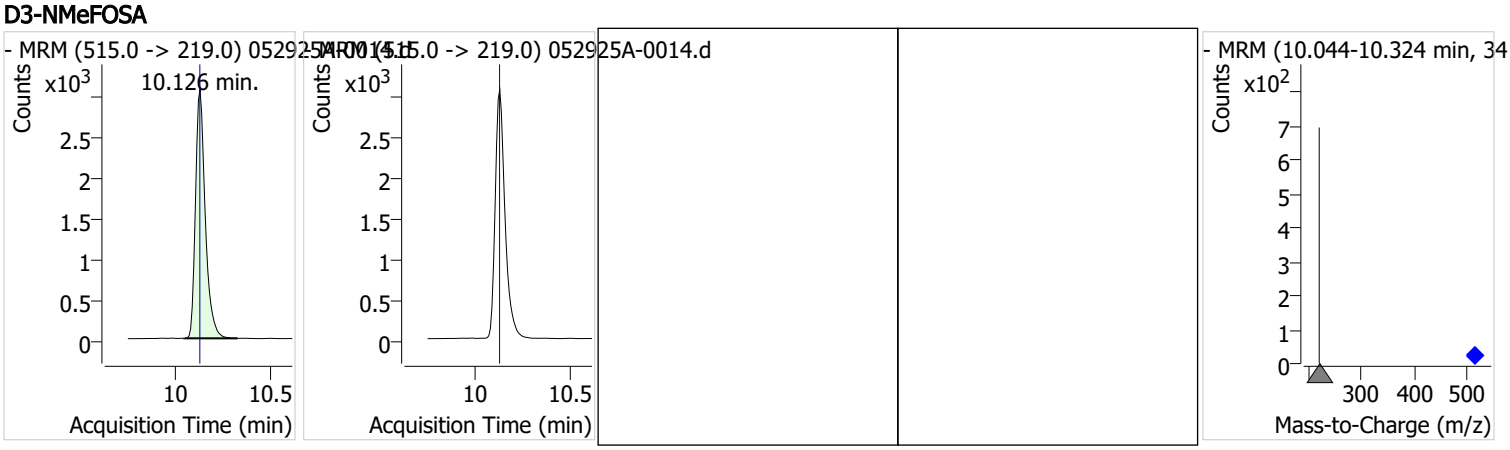
13C8-PFOSA



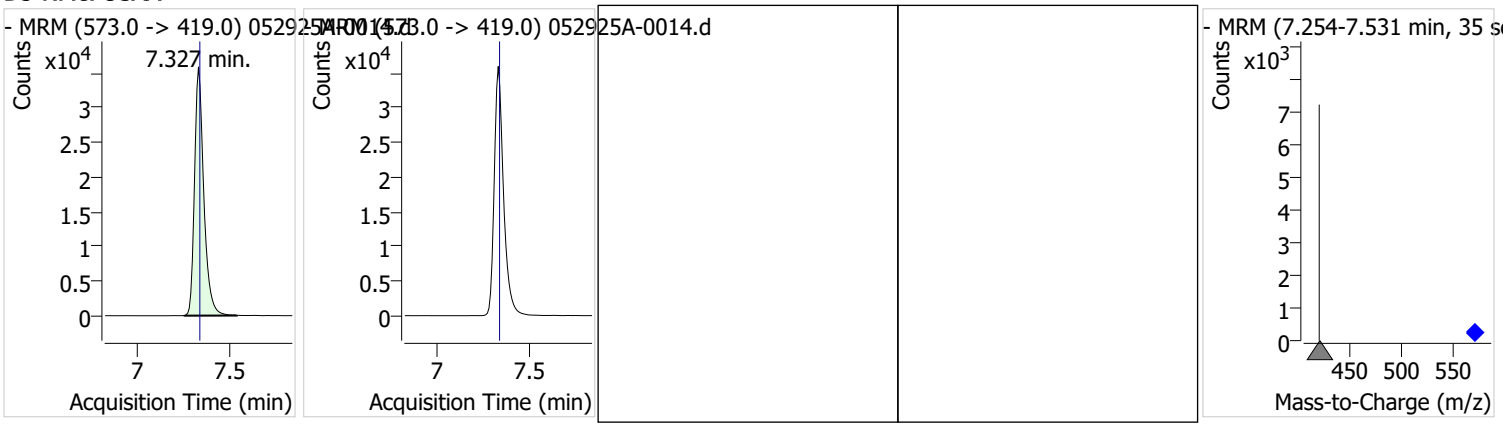
13C9-PFNA



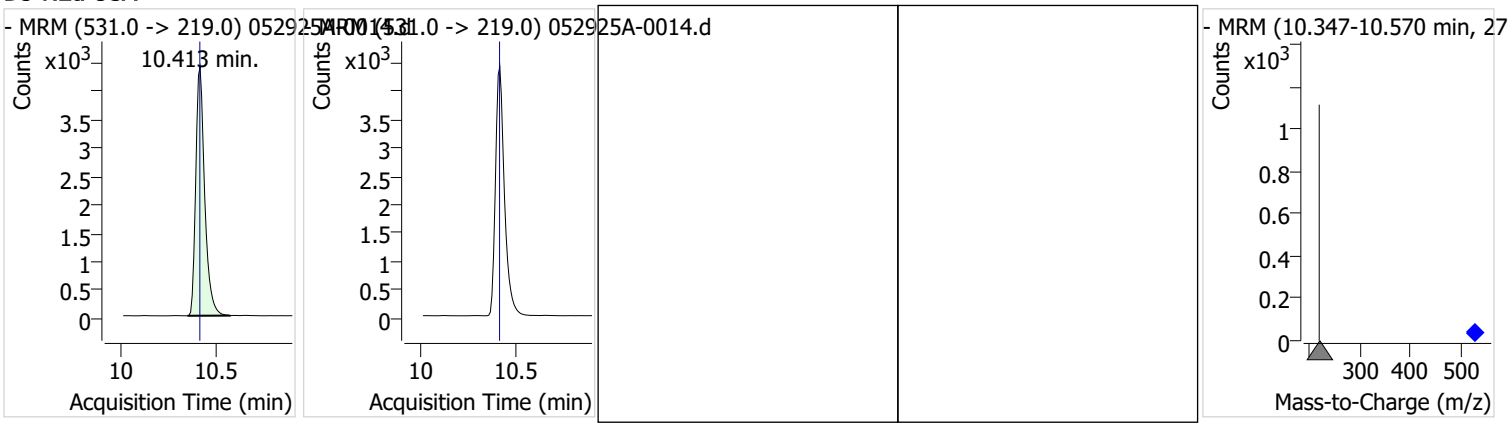
D3-NMeFOSA



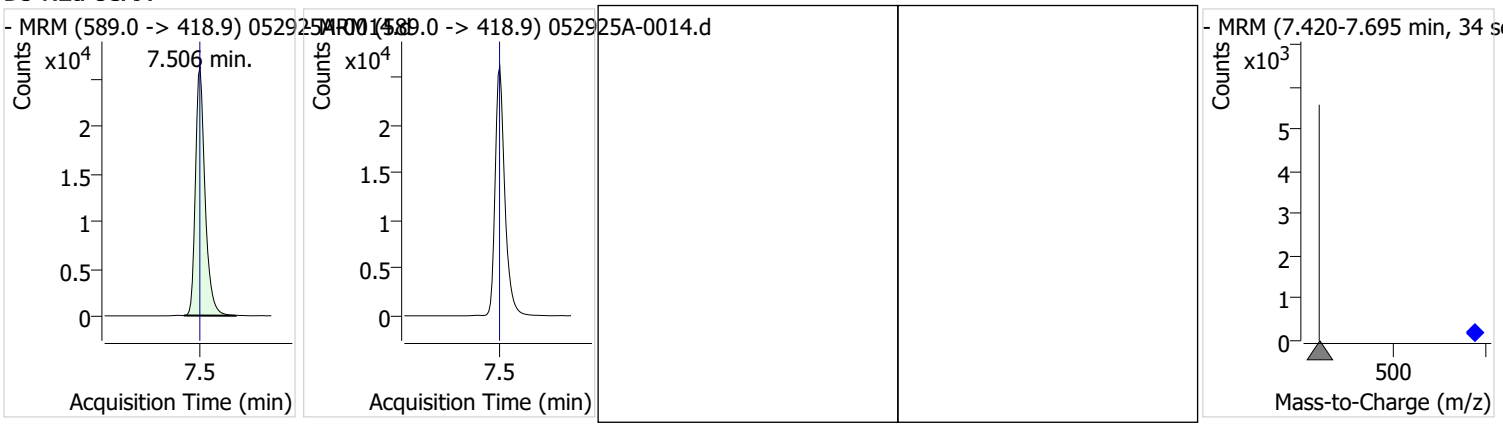
D3-NMeFOSAA



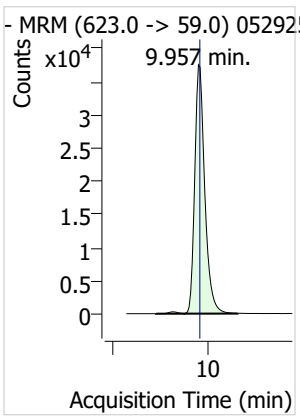
D5-NEtFOSA

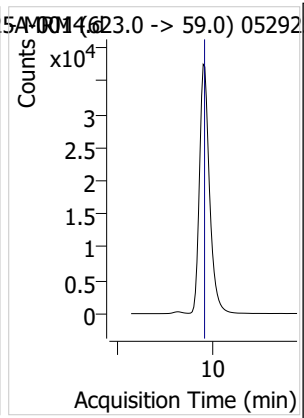


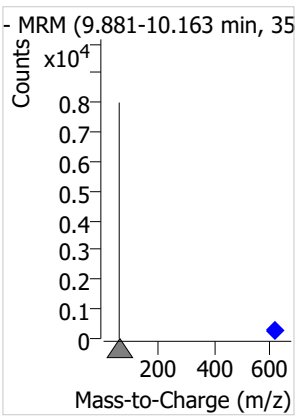
D5-NEtFOSAA



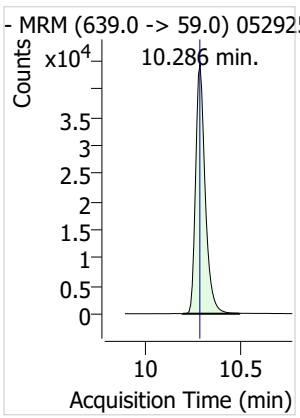
D7-NMeFOSE

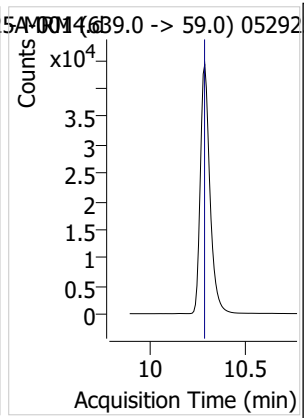


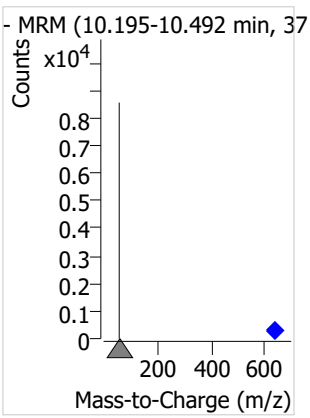




D9-NEtFOSE

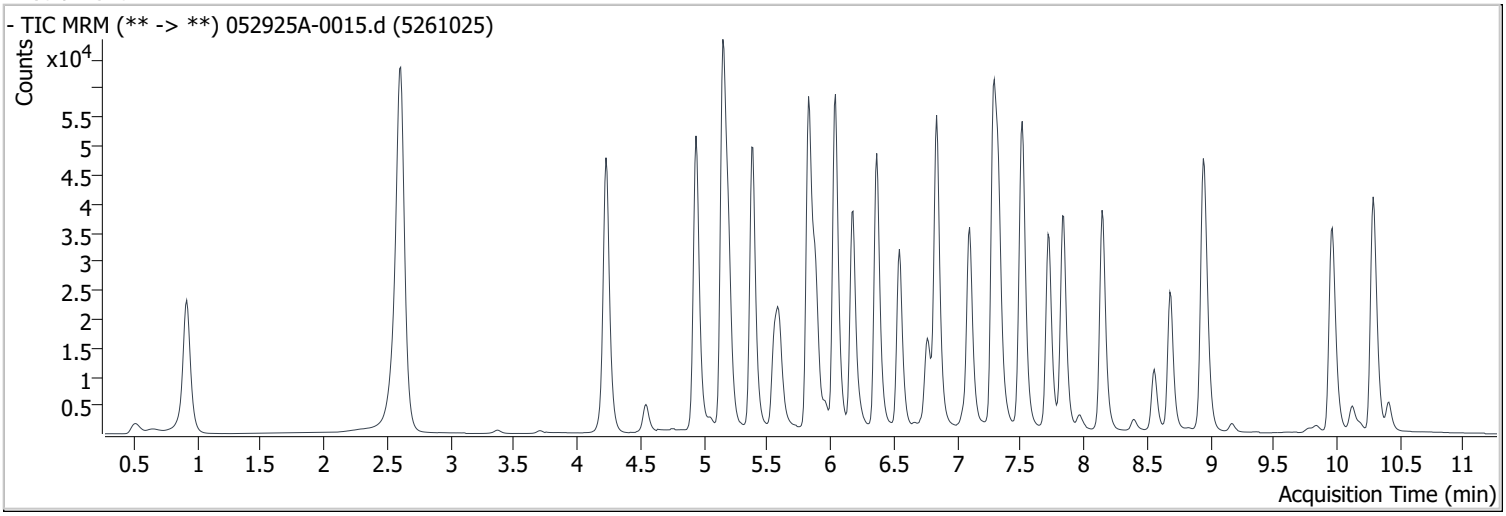






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-B 6320.batch.bin		
Analysis Time	5/30/2025 12:34 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 1:27 PM	**Data File**	052925A-0015.d
Sample Type	QC	**Sample Name**	5261025
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6367	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.387	13034	34836.82		13C3-HFPODA_ISTD	5.386	91820	1.4461	ng/ml			
285.0 -> 184.9	5.394	7075	367.73	54.3								
4:2FTS	4.938	33811	6472.94		13C2-4:2FTS_ISTD	4.938	37965	1.3531	ng/ml			
327.0 -> 80.9	4.939	12161	1428.97	36.0								
6:2FTS	6.172	19910	6059.79		13C2-6:2FTS_ISTD	6.172	26235	1.4090	ng/ml			
427.0 -> 80.9	6.181	8415	2518.87	42.3								
ADONA	6.044	134922	5475.17		13C4-PFHpA_ISTD	5.831	153587	1.3548	ng/ml			
377.0 -> 85.1	6.044	54451	8182.68	40.4								
8:2FTS	7.100	19022	5744.00		13C2-8:2FTS_ISTD	7.100	25840	1.3430	ng/ml			
527.0 -> 81.0	7.101	8564	2533.62	45.0								
13C4-PFBA	2.606	213367	4472.37		13C3-PFBA_ISTD	2.600	102897	8.5197	ng/ml			
9Cl-PF3ONS	7.846	97833	6343.94		13C8-PFOS_ISTD	7.519	29422	1.4705	ng/ml			
533.0 -> 353.0	7.838	25216	920.90	25.8								
11Cl-PF3OUdS	8.685	65068	19447.10		13C8-PFOS_ISTD	7.519	29422	1.3969	ng/ml			
633.0 -> 453.0	8.684	15735	4604.39	24.2								
PFHpS	7.055	5296	1164.59		13C8-PFOS_ISTD	7.519	29422	0.3244	ng/ml			
449.0 -> 98.8	7.055	2247	574.82	42.4								
13C2-4:2FTS	4.938	37965	11217.83		18O2-PFHxS_ISTD	6.550	37258	5.9177	ng/ml			
13C2-6:2FTS	6.172	26235	7969.70		18O2-PFHxS_ISTD	6.550	37258	5.4275	ng/ml			
13C2-8:2FTS	7.100	25840	7750.83		18O2-PFHxS_ISTD	6.550	37258	5.3258	ng/ml			
13C2-PFDoA	8.146	94469	3685.45		13C2-PFDA_ISTD	7.290	77521	0.9754	ng/ml			
13C2-PFDA	7.290	77521	22371.69					1.5945	ng/ml			
13C2-PFHxA	5.154	100630	15213.68					3.2648	ng/ml			
13C2-PFTeDA	8.944	103578	18678.47		13C2-PFDA_ISTD	7.290	77521	0.9517	ng/ml			
13C4-PFOS	7.529	37705	76357.59					3.4206	ng/ml			
13C3-HFPODA	5.386	91820	1968027.59		13C2-PFHxA_ISTD	5.154	100630	8.5401	ng/ml			
13C3-PFBS	5.196	54241	16434.88		18O2-PFHxS_ISTD	6.550	37258	2.1323	ng/ml			
13C3-PFHxS	6.551	37283	82055.91		18O2-PFHxS_ISTD	6.550	37258	2.1646	ng/ml			
NEtFOSAA	7.434	4687	611.03		D5-NEtFOSAA_ISTD	7.506	77703	0.3098	ng/ml			

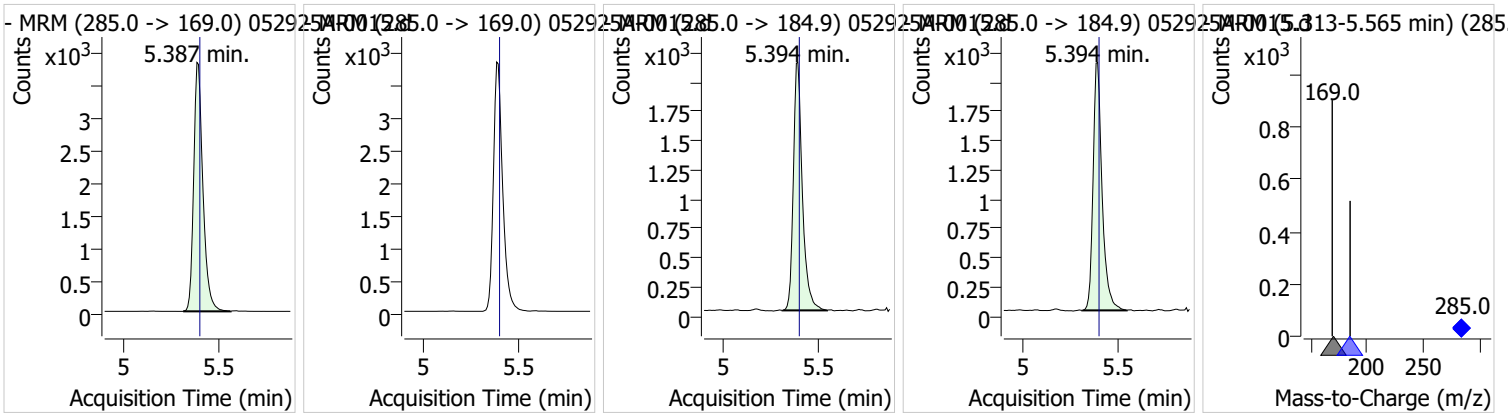
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
584.0 -> 526.0	7.433	4458	303.38	95.1								
13C4-PFHpA	5.831	153587	6017.80		13C2-PFHxA_ISTD	5.154	100630	2.1492	ng/ml			
NMeFOSAA	7.247	2770	9828.20		D3-NMeFOSAA_ISTD	7.327	103629	0.3597	ng/ml			
570.0 -> 483.0	7.246	3147	370.89	113.6								
PFBA	2.603	29476	5489.99		13C4-PFBA_ISTD	2.606	213367	1.3863	ng/ml			
13C5-PFHxA	5.153	94552	11124.72		13C2-PFHxA_ISTD	5.154	100630	2.1166	ng/ml			
PFBS	5.197	9245	1235.85		13C3-PFBS_ISTD	5.196	54241	0.3232	ng/ml			
298.9 -> 98.8	5.197	3327	486.38	36.0								
NMeFOSA	10.073	1690	1191.22		D3-NMeFOSA_ISTD	10.126	9722	0.3653	ng/ml			
512.0 -> 169.0	10.074	2376	316.76	140.6								
PFDA	7.290	22505	315.50		13C6-PFDA_ISTD	7.289	78283	0.3513	ng/ml			
513.0 -> 219.0	7.290	4079	18091.37	18.1								
PFDoA	8.146	31795	1215.07		13C2-PFDoA_ISTD	8.146	94469	0.3737	ng/ml			
613.0 -> 319.0	8.147	3624	14377.58	11.4								
NEtFOSA	10.377	2199	875.67		D5-NEtFOSA_ISTD	10.413	12477	0.3603	ng/ml			
526.0 -> 169.0	10.377	2839	525.09	129.1								
PFHpA	5.831	24690	340.48		13C4-PFHpA_ISTD	5.831	153587	0.3583	ng/ml			
362.9 -> 169.0	5.831	4156	7188.34	16.8								
PFHxA	5.155	16006	189.88		13C5-PFHxA_ISTD	5.153	94552	0.3629	ng/ml			
313.0 -> 118.9	5.147	392	196.98	2.5								
NMeFOSE	9.899	19801	2029.21		D7-NMeFOSE_ISTD	9.957	119372	3.3697	ng/ml			
PFHxS	6.498	6317	749.95		13C3-PFHxS_ISTD	6.551	37283	0.3353	ng/ml			
398.9 -> 99.0	6.498	2856	436.01	45.2								
PFNA	6.789	17036	330.33		13C9-PFNA_ISTD	6.842	71232	0.3418	ng/ml			
463.0 -> 219.0	6.789	4947	956.68	29.0								
NEtFOSE	10.249	23952	2256.62		D9-NEtFOSE_ISTD	10.286	130900	3.3773	ng/ml			
PFOA	6.300	17263	538.11		13C8-PFOA_ISTD	6.368	107336	0.3405	ng/ml			
413.0 -> 169.0	6.300	5502	197.37	31.9								
PFOS	7.399	5873	1145.64		13C8-PFOS_ISTD	7.519	29422	0.3376	ng/ml			
499.0 -> 99.0	7.402	2810	483.43	47.8								
PFPeA	4.231	24021	2457.30		13C5-PFPeA_ISTD	4.229	152102	0.7015	ng/ml			
PFMPA	3.377	2567	953.82		13C4-PFBA_ISTD	2.606	213367	0.6954	ng/ml			
13C5-PFPeA	4.229	152102	72169.65		13C2-PFHxA_ISTD	5.154	100630	4.2678	ng/ml			
PFMBA	4.547	17308	31661.92		13C5-PFPeA_ISTD	4.229	152102	0.6851	ng/ml			
PFTrDA	8.559	33456	919.42		13C2-PFDoA_ISTD	8.146	94469	0.3367	ng/ml			
663.0 -> 168.9	8.559	2998	836.05	9.0								
PFEESA	5.562	48697	4937.33		13C5-PFHxA_ISTD	5.153	94552	0.6443	ng/ml			
315.0 -> 83.0	5.562	3316	297.52	6.8								
13C6-PFDA	7.289	78283	23879.12		13C2-PFDA_ISTD	7.290	77521	1.0725	ng/ml			
NFDHA	5.058	3709	7425.40		13C5-PFHxA_ISTD	5.153	94552	0.7251	ng/ml			
295.0 -> 85.0	5.058	1278	899.06	34.5								
PFOSA	8.899	6220	3574.87		13C8-PFOSA_ISTD	8.975	40464	0.3495	ng/ml			
497.9 -> 478.0	8.902	179	387.08	2.9								
13C7-PFUnA	7.721	85646	176305.92		13C2-PFDA_ISTD	7.290	77521	1.0506	ng/ml			
13C4-PFOA	6.369	26644	7811.01					3.2224	ng/ml			
PFDS	8.398	4065	915.89		13C8-PFOS_ISTD	7.519	29422	0.3285	ng/ml			
599.0 -> 98.8	8.397	2137	237652.97	52.6								
PFNS	7.969	5019	2110.15		13C8-PFOS_ISTD	7.519	29422	0.3300	ng/ml			
549.0 -> 98.8	7.968	2578	729.68	51.4								
PFPeS	5.963	7252	5188.59		13C3-PFHxS_ISTD	6.551	37283	0.3102	ng/ml			
349.0 -> 98.9	5.963	3330	1007.77	45.9								

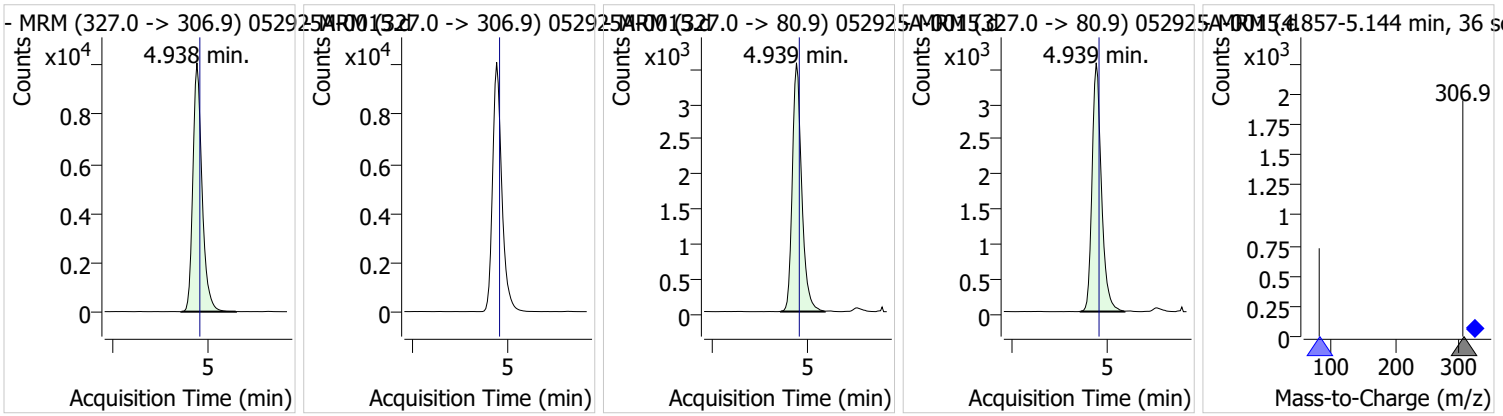
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA	8.945	34133	1225.12		13C2-PFTeDA_ISTD	8.944	103578	0.3570	ng/ml			
713.0 -> 168.9	8.946	1837	548.96	5.4								
PFUnA	7.722	22963	372.53		13C7-PFUnA_ISTD	7.721	85646	0.3211	ng/ml			
563.0 -> 269.1	7.722	4244	7882.73	18.5								
13C3-PFBA	2.600	102897	19027.51					6.7756	ng/ml			
3:3FTCA	3.704	1290	873.60		13C5-PFPeA_ISTD	4.229	152102	1.4979	ng/ml			
241.0 -> 117.0	3.706	704	48.43	54.6								
5:3FTCA	5.593	28089	6527.43		13C5-PFHxA_ISTD	5.153	94552	7.9597	ng/ml			
341.0 -> 217.0	5.602	24759	707.32	88.1								
7:3FTCA	6.770	29666	1188.21		13C9-PFNA_ISTD	6.842	71232	7.7849	ng/ml			
441.0 -> 337.0	6.770	30483	906.90	102.8								
13C5-PFNA	6.842	79542	24936.64					1.6820	ng/ml			
18O2-PFHxS	6.550	37258	109192.40					3.2799	ng/ml			
PFDoS	9.171	2893	36839.60		13C8-PFOS_ISTD	7.519	29422	0.3478	ng/ml			
698.9 -> 99.0	9.170	1795	609.55	62.1								
TDCA					13C8-PFOS_ISTD	7.519	29422	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	11460	443.07		13C3-PFPrA_ISTD	0.916	94286	1.3833	ng/ml			
13C3-PFPrA	0.916	94286	20721.71		13C3-PFBA_ISTD	2.600	102897	8.4703	ng/ml			
TFSI	5.891	49514	2140.83		13C3-HFPODA_ISTD	5.386	91820	0.7343	ng/ml			
279.9 -> 77.9	5.892	34628	96033.77	69.9								
13C8-PFOA	6.368	107336	253499.10		13C4-PFOA_ISTD	6.369	26644	2.1502	ng/ml			
13C8-PFOS	7.519	29422	23851.04		13C4-PFOS_ISTD	7.529	37705	1.9952	ng/ml			
13C8-PFOSA	8.975	40464	11315.06		13C4-PFOS_ISTD	7.529	37705	1.9083	ng/ml			
13C9-PFNA	6.842	71232	21878.35		13C5-PFNA_ISTD	6.842	79542	1.0136	ng/ml			
D3-NMeFOSA	10.126	9722	1429.56		13C4-PFOS_ISTD	7.529	37705	1.4391	ng/ml			
D3-NMeFOSAA	7.327	103629	6243.16		13C4-PFOS_ISTD	7.529	37705	4.4187	ng/ml			
D5-NEtFOSA	10.413	12477	2579.21		13C4-PFOS_ISTD	7.529	37705	1.5364	ng/ml			
D5-NEtFOSAA	7.506	77703	21952.42		13C4-PFOS_ISTD	7.529	37705	4.3626	ng/ml			
D7-NMeFOSE	9.957	119372	381319.23		13C4-PFOS_ISTD	7.529	37705	18.4054	ng/ml			
D9-NEtFOSE	10.286	130900	37751.75		13C4-PFOS_ISTD	7.529	37705	18.1758	ng/ml			

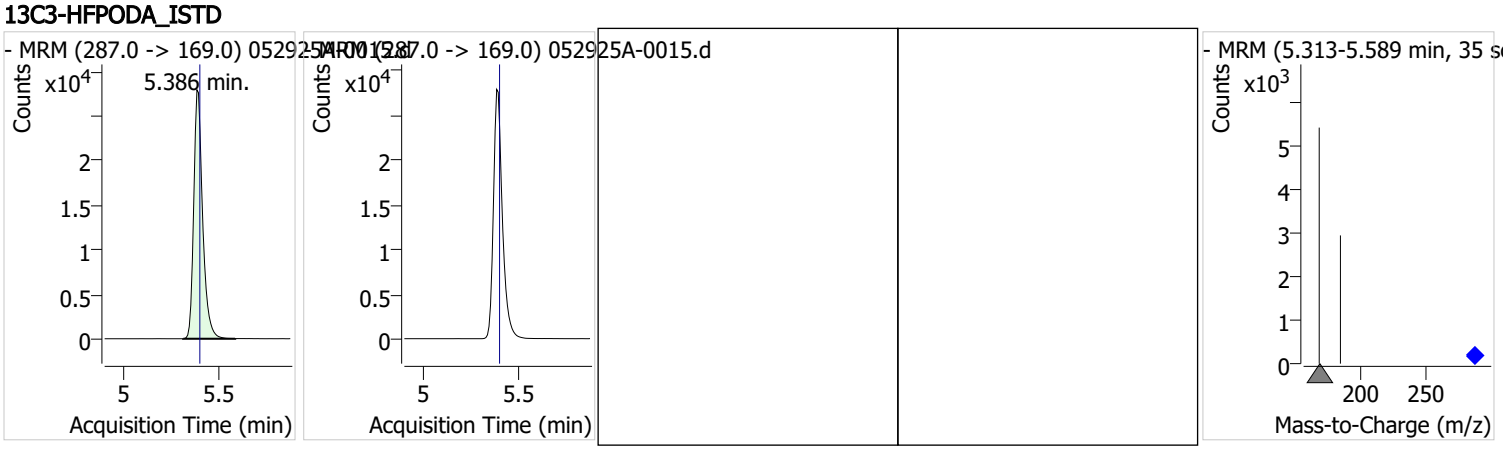
HFPO-DA



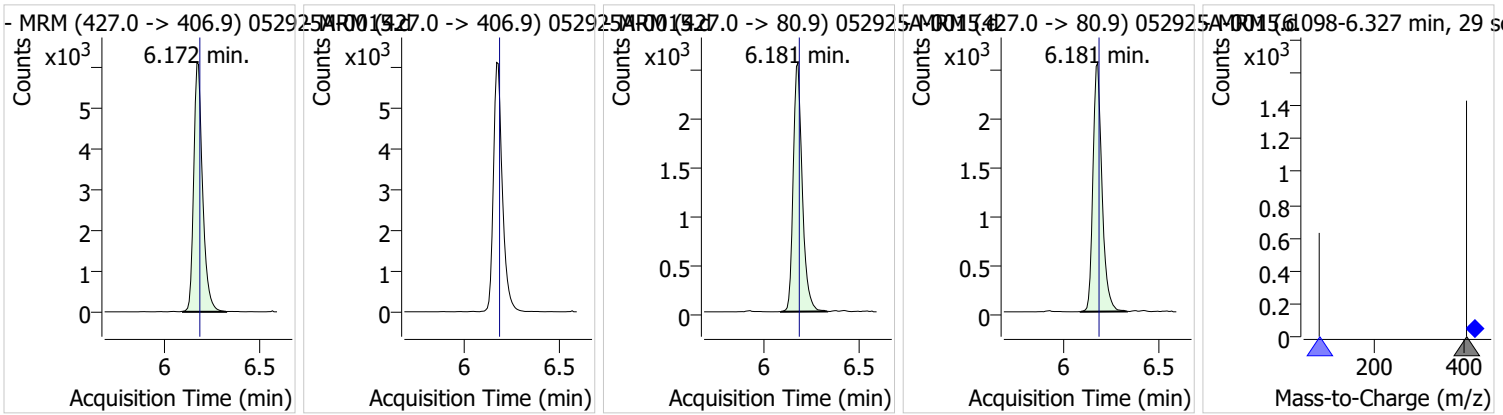
4:2FTS



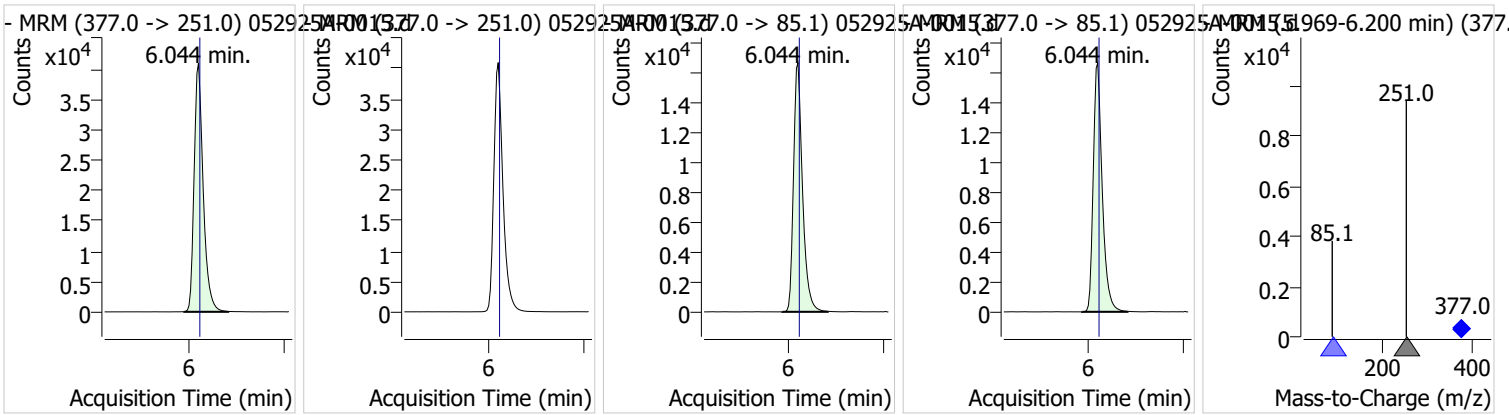
13C3-HFPODA_ISTD



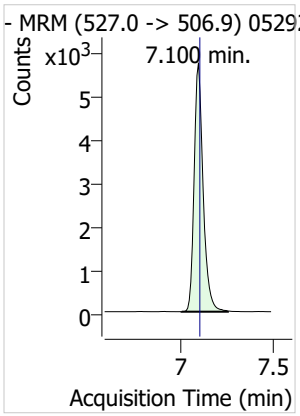
6:2FTS

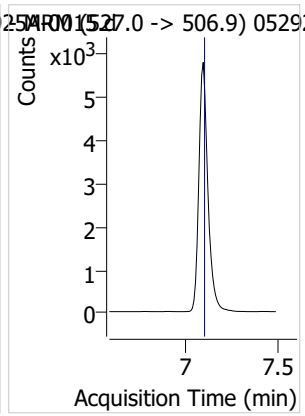


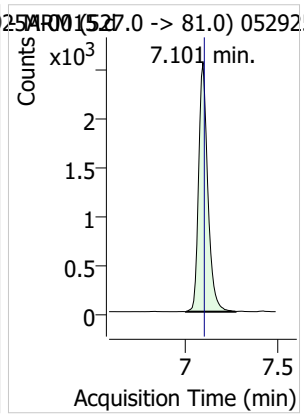
ADONA

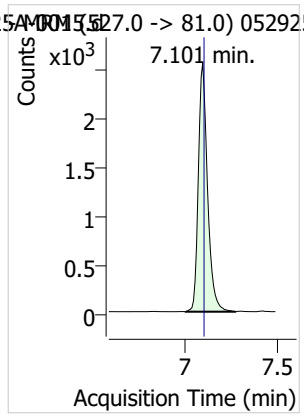


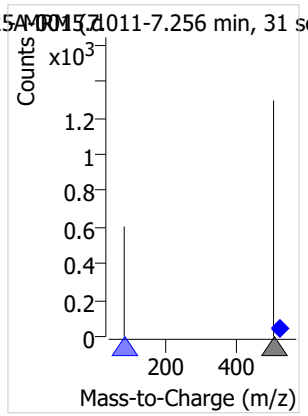
8:2FTS



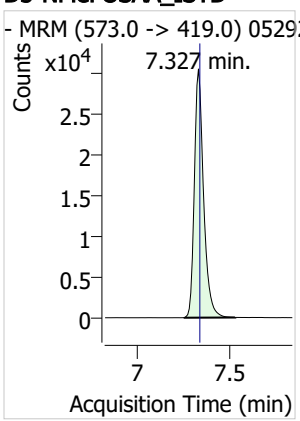


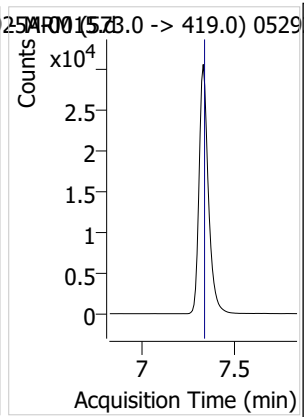


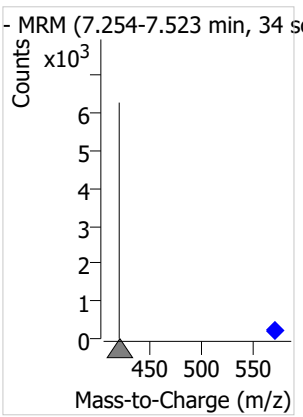




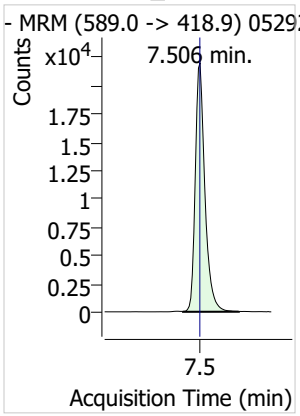
D3-NMeFOSAA_ISTD

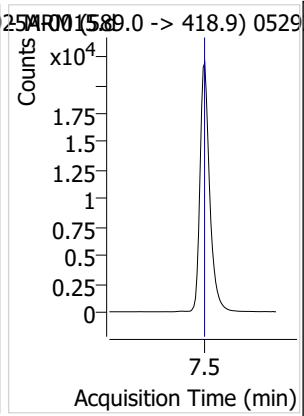


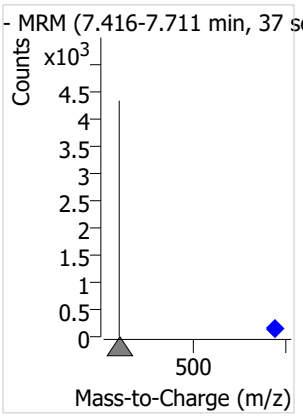




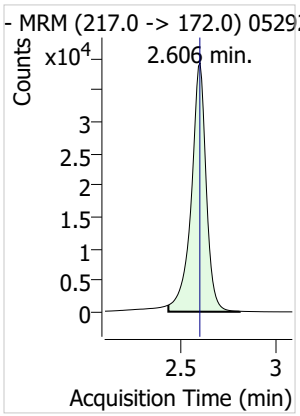
D5-NEtFOSAA_ISTD

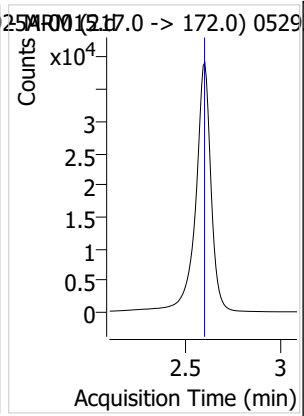


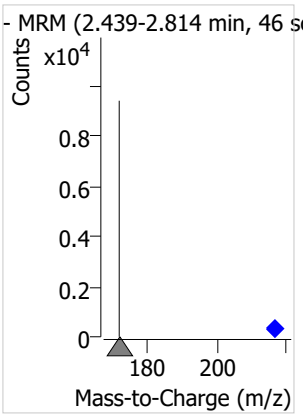




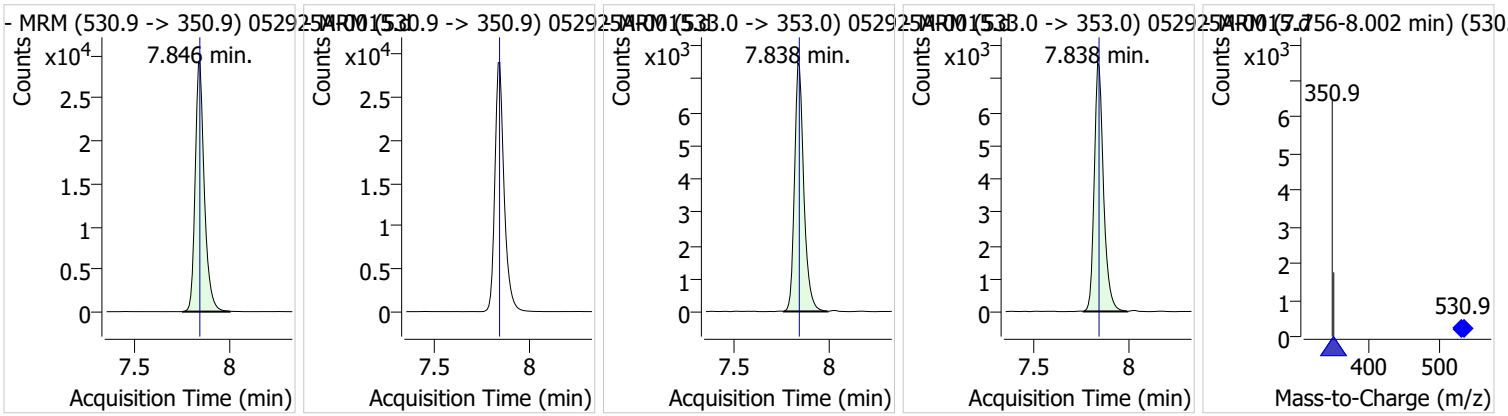
13C4-PFBA



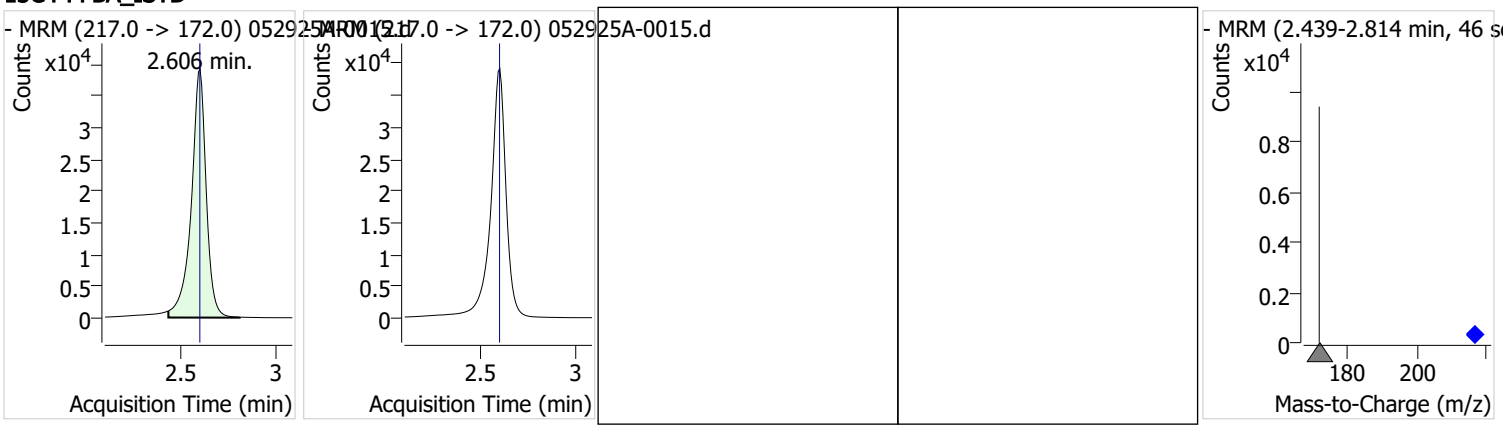




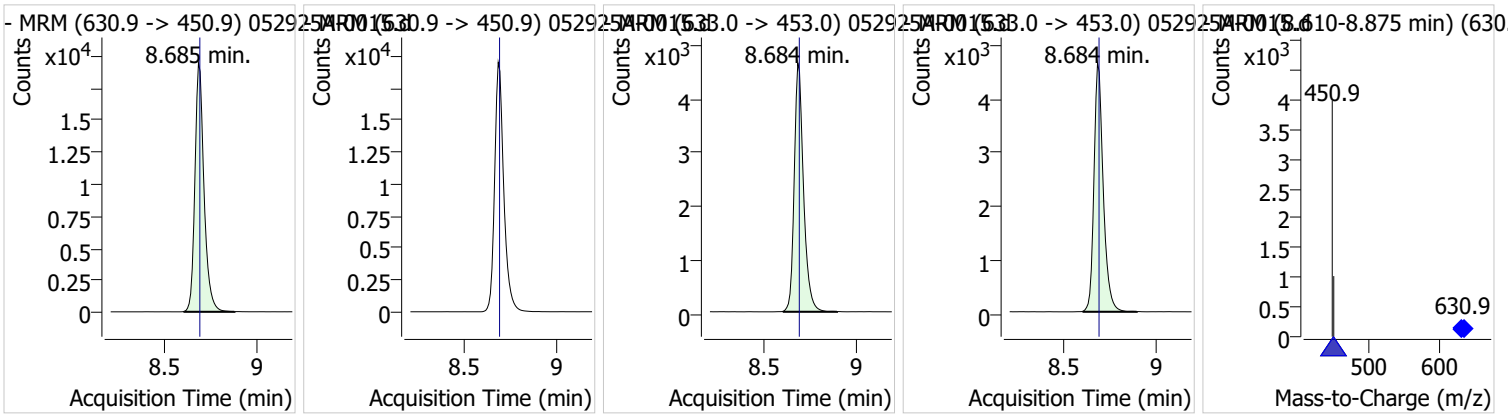
9Cl-PF3ONS



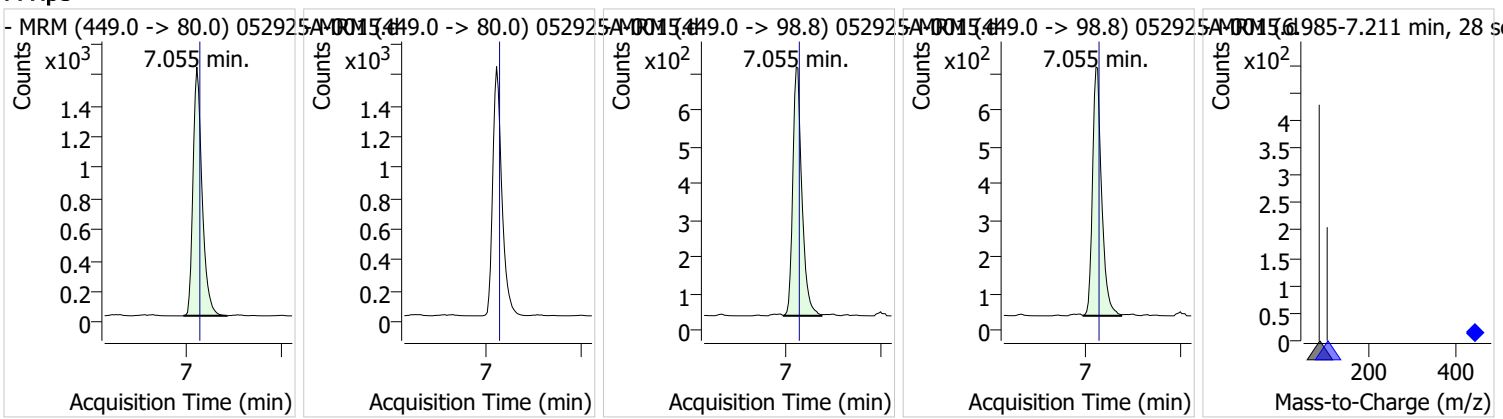
13C4-PFBA_ISTD



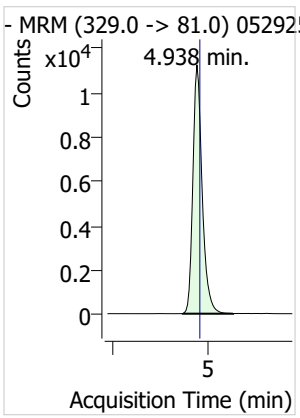
11Cl-PF3OUdS

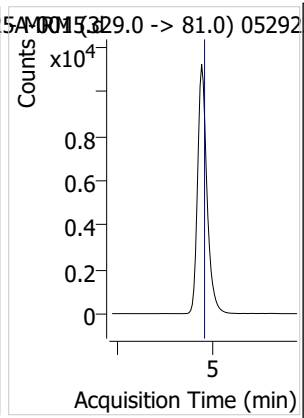


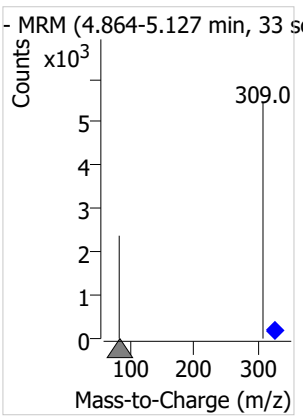
PFHpS



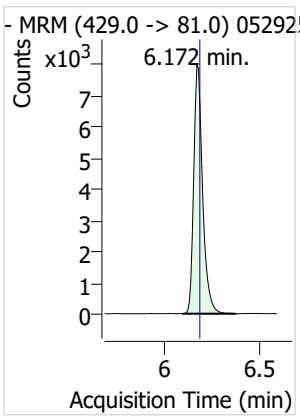
13C2-4:2FTS

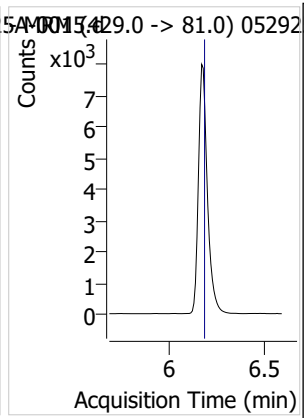


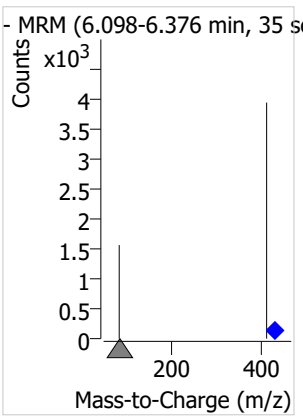




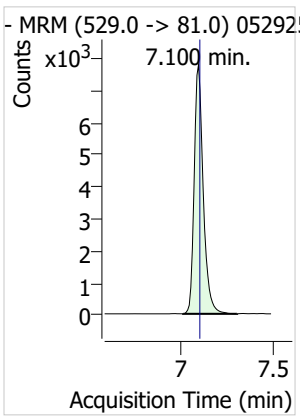
13C2-6:2FTS

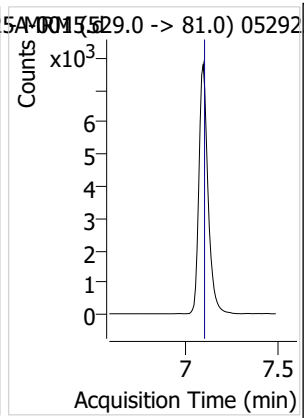


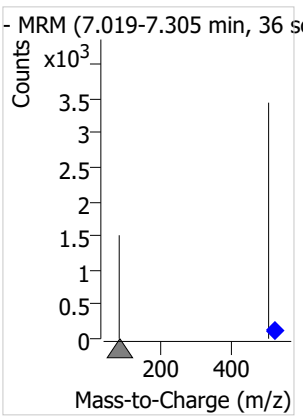




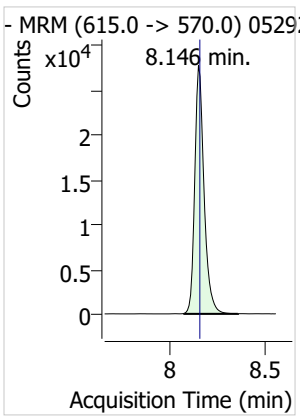
13C2-8:2FTS

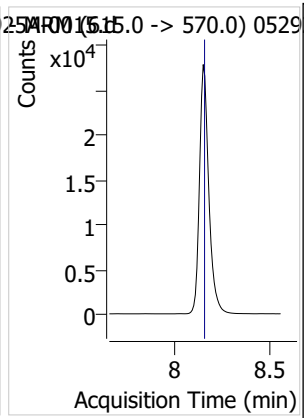


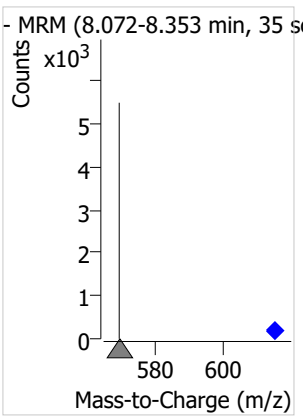




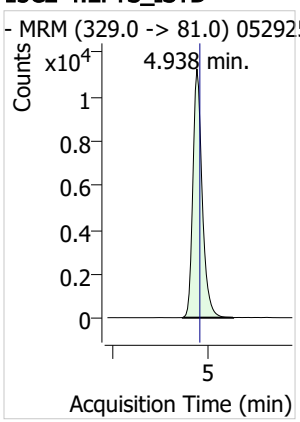
13C2-PFDoA

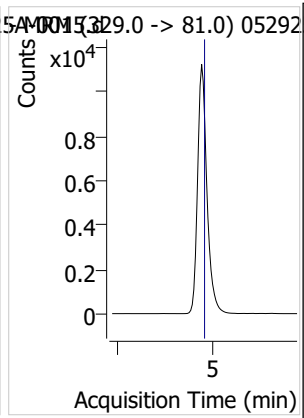


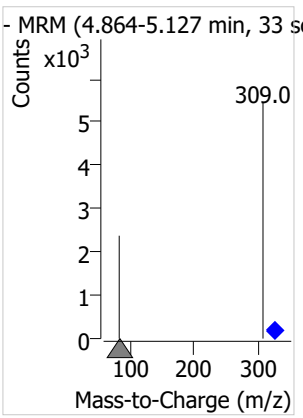




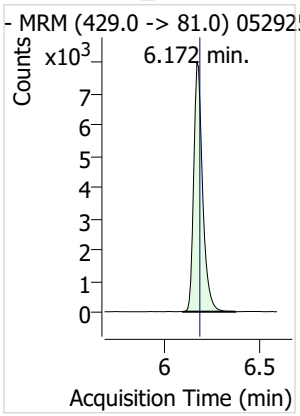
13C2-4:2FTS_ISTD

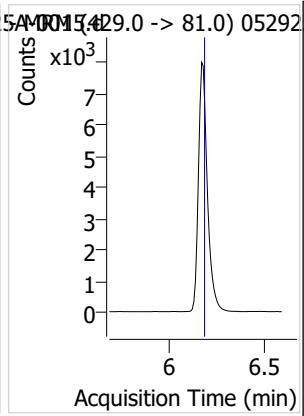


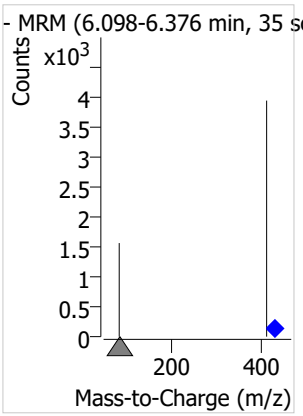




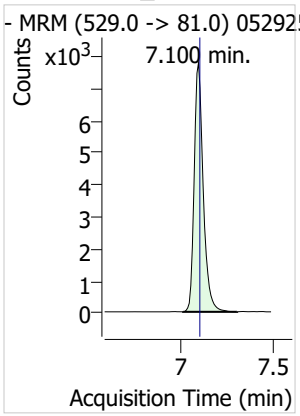
13C2-6:2FTS_ISTD

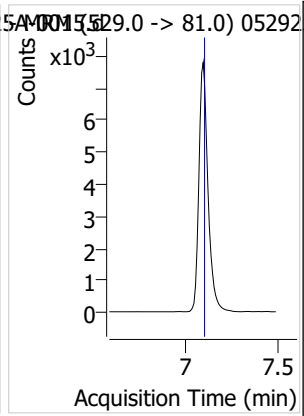


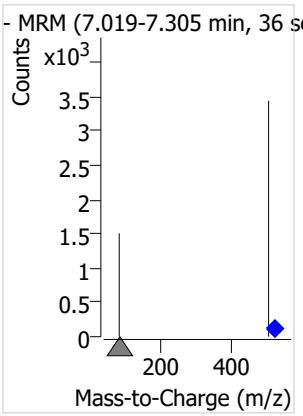




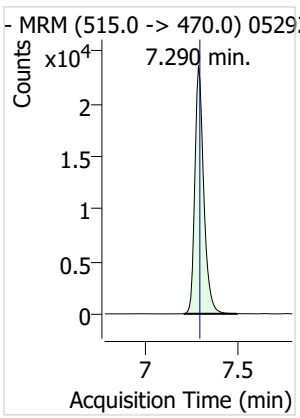
13C2-8:2FTS_ISTD

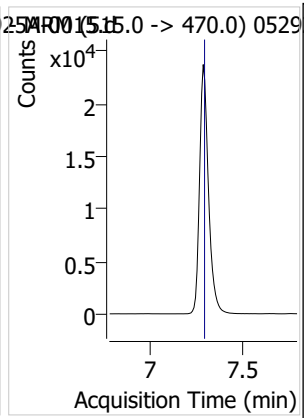


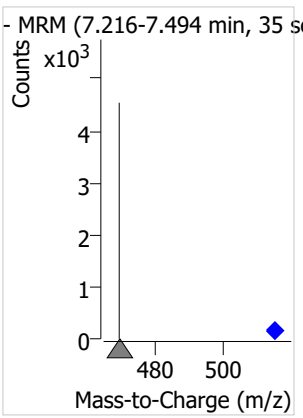




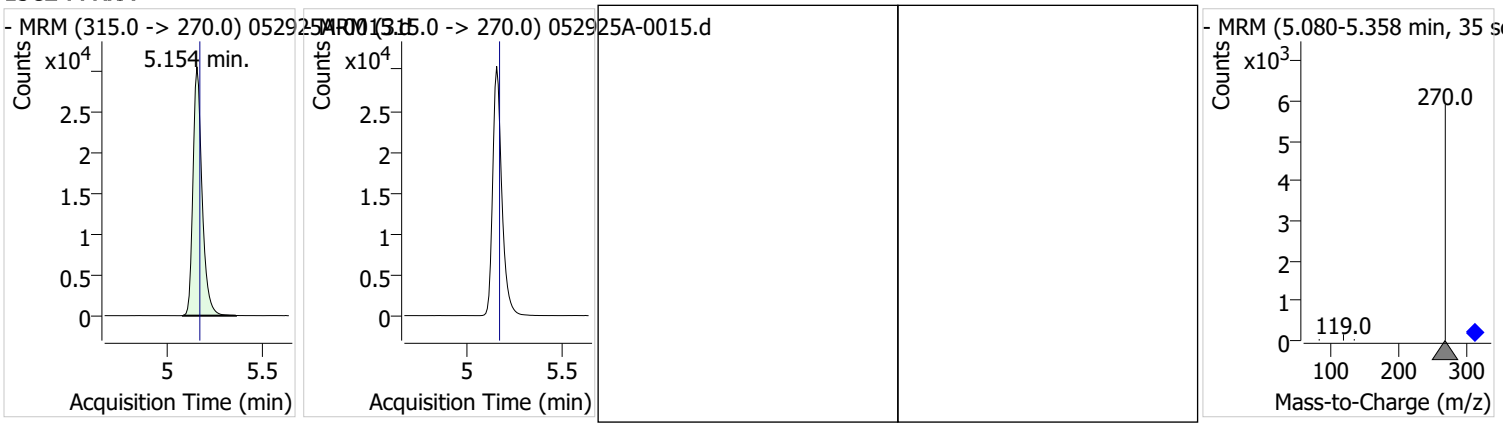
13C2-PFDA



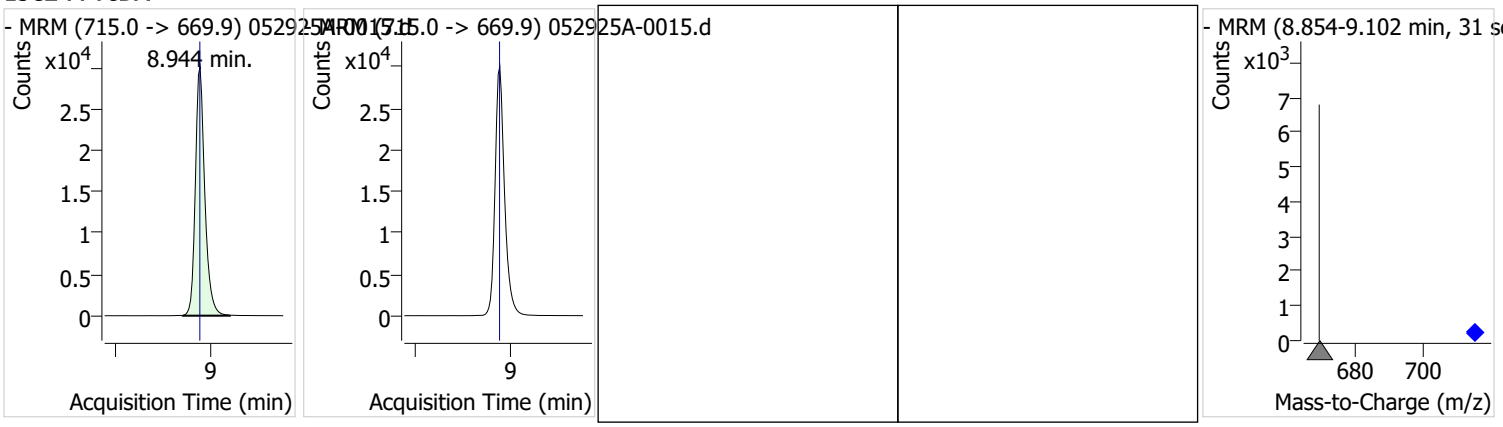




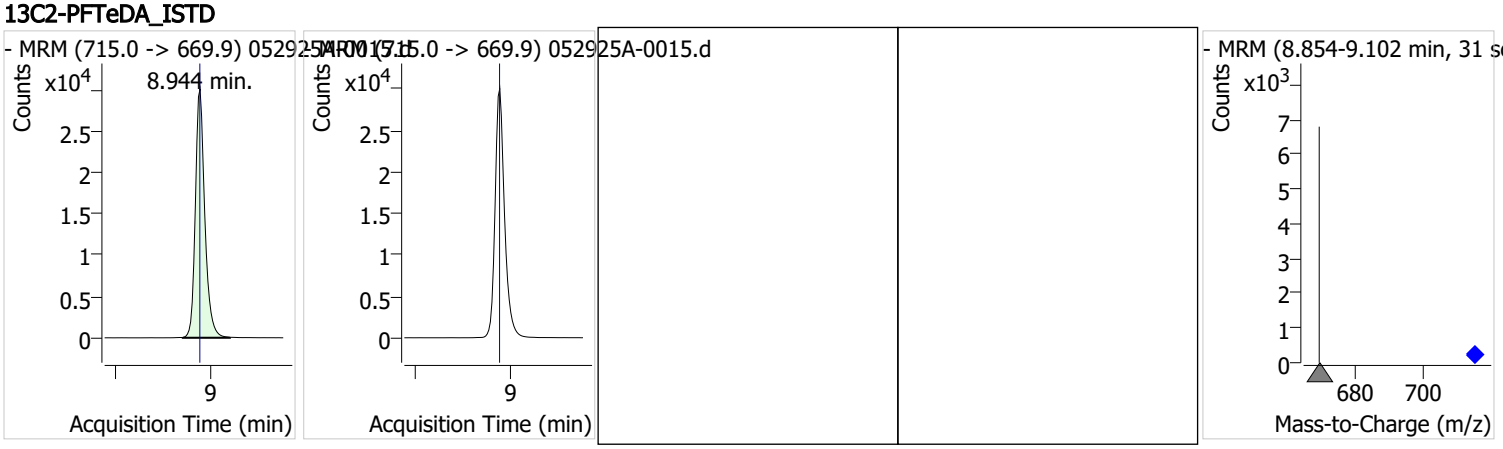
13C2-PFHxA



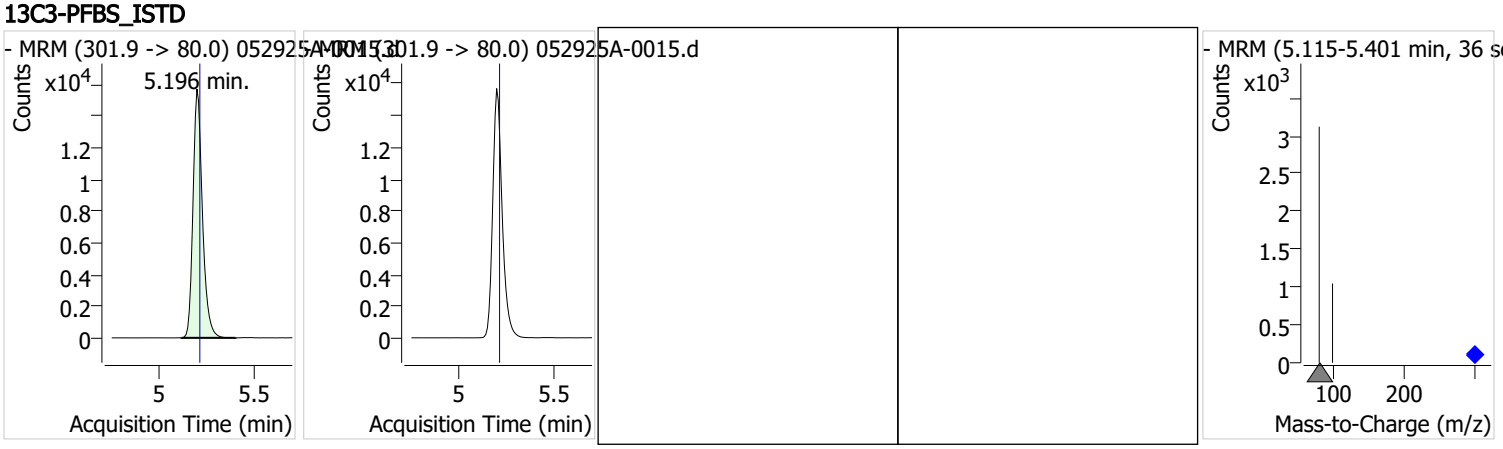
13C2-PFTeDA



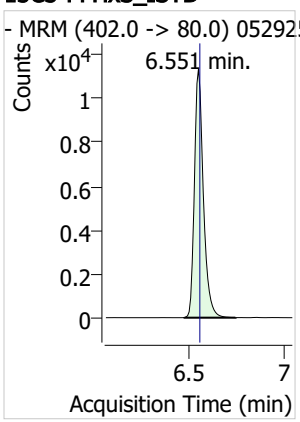
13C2-PFTeDA_ISTD

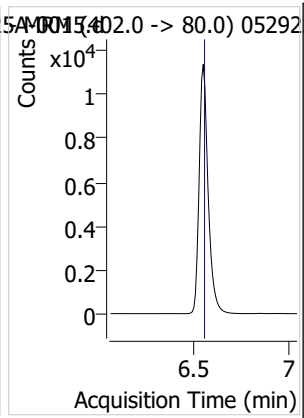


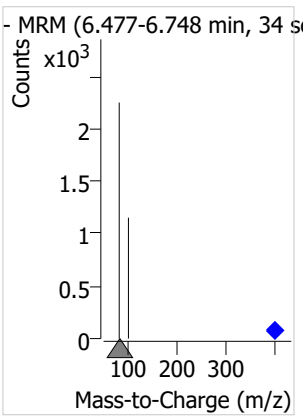
13C3-PFBS_ISTD



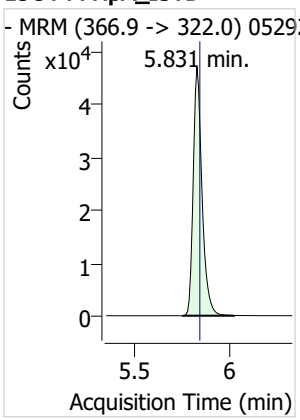
13C3-PFHxS_ISTD

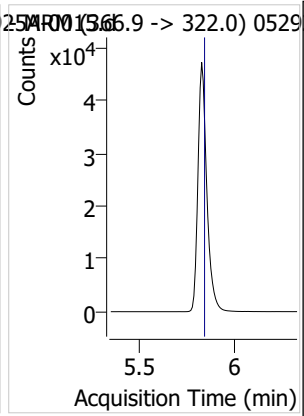


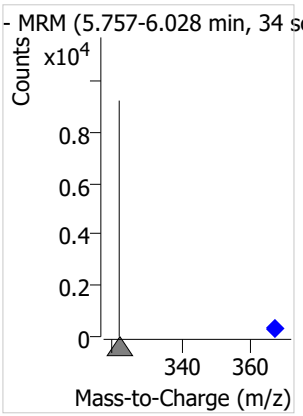




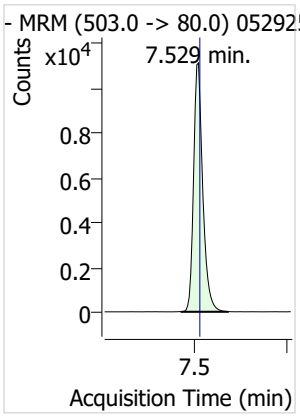
13C4-PFHpA_ISTD

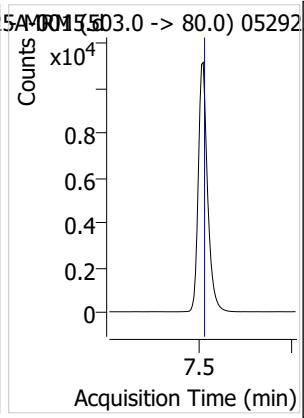


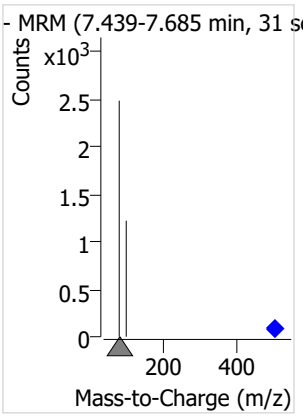




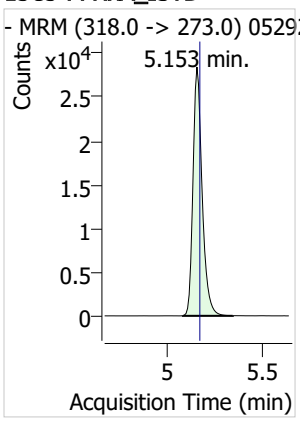
13C4-PFOS

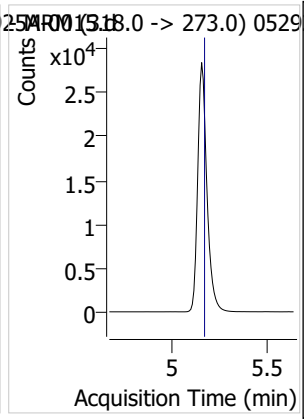


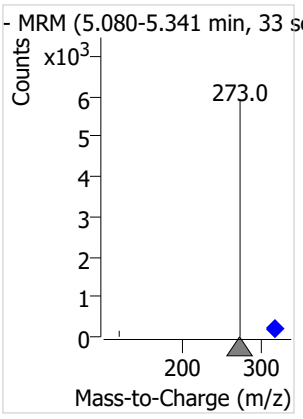




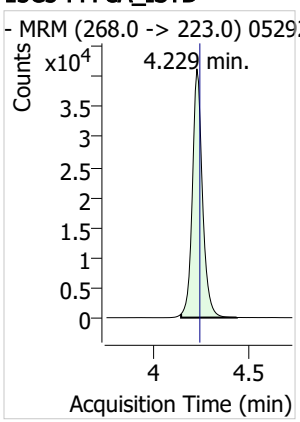
13C5-PFHxA_ISTD

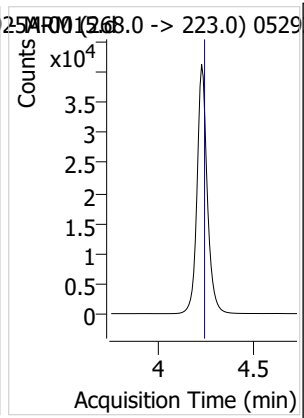


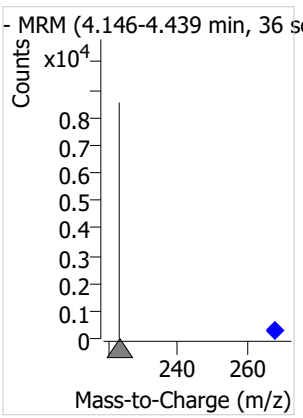




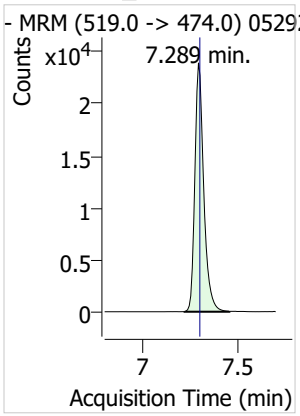
13C5-PFPeA_ISTD

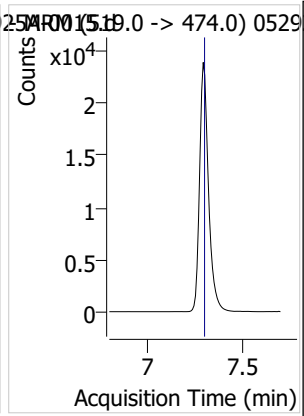


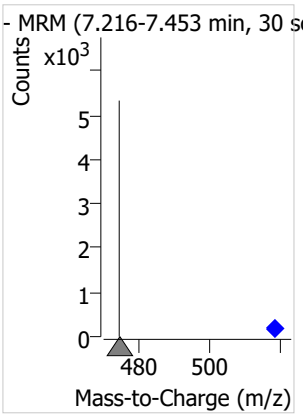




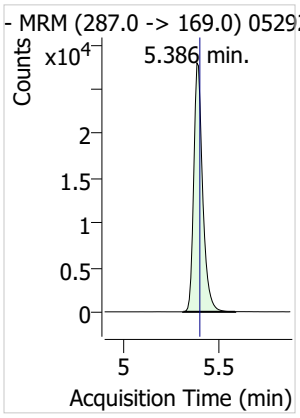
13C6-PFDA_ISTD

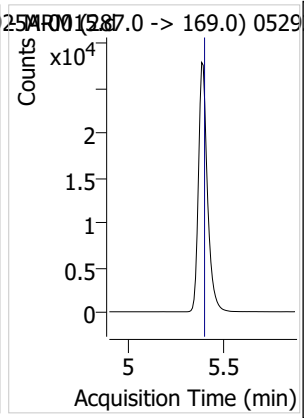


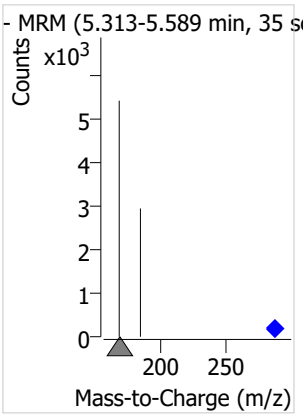




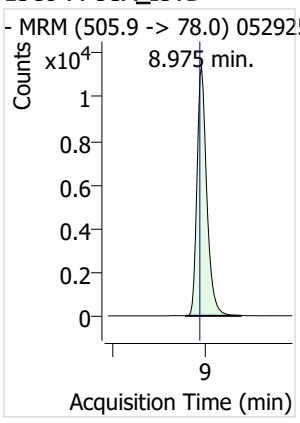
13C3-HFPODA

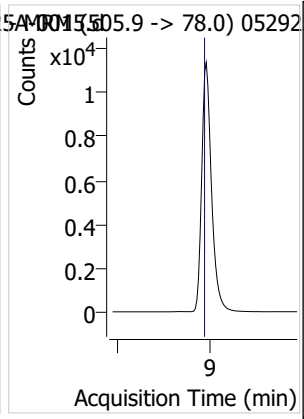


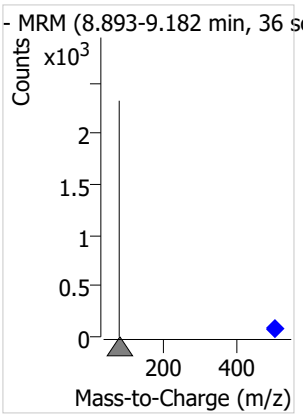




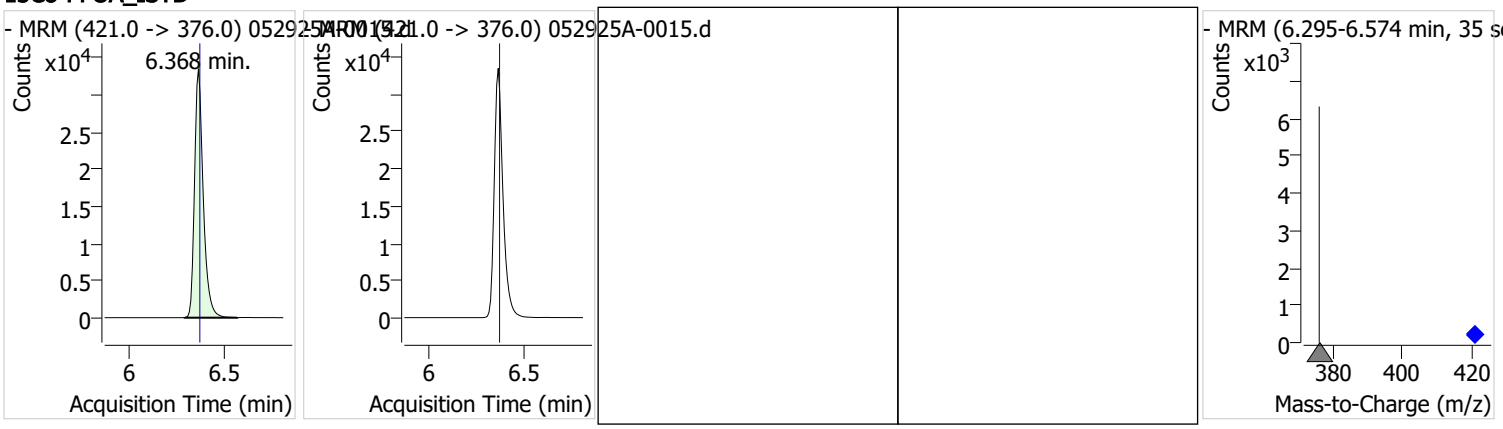
13C8-PFOSA_ISTD



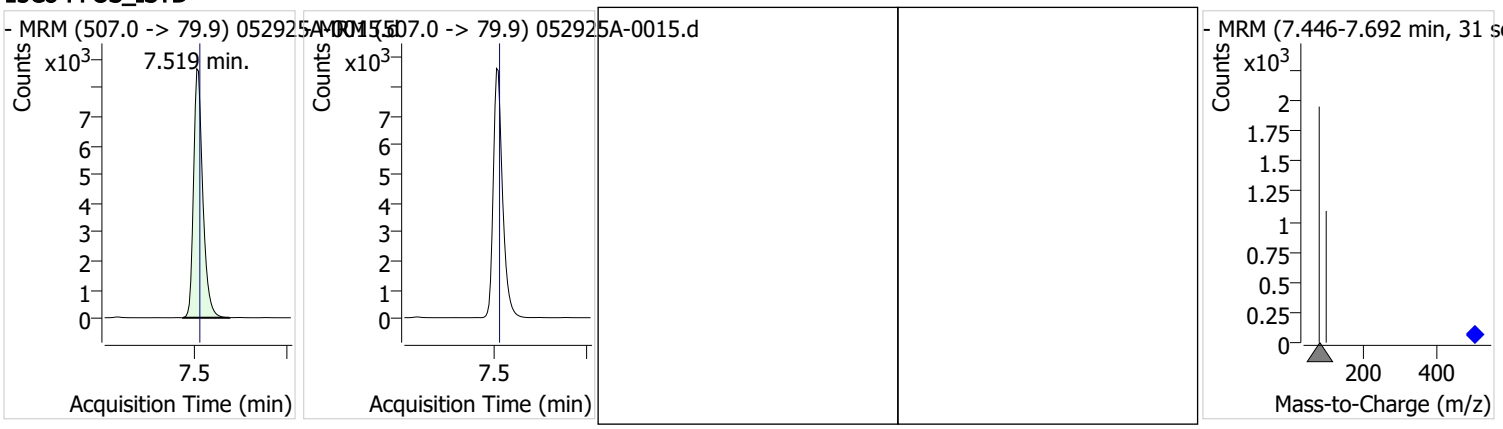




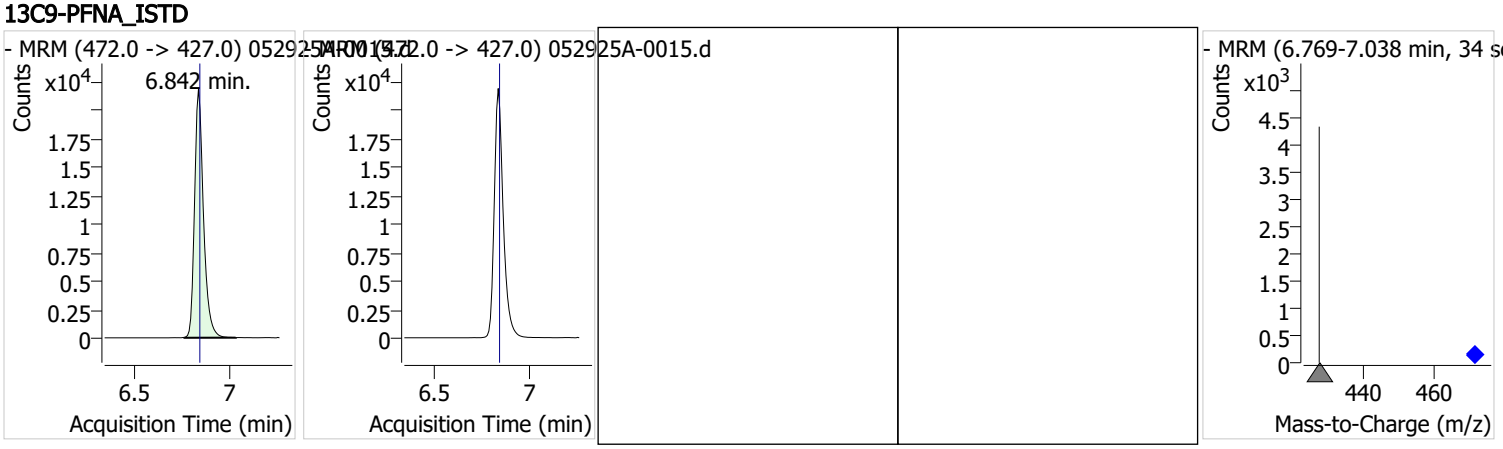
13C8-PFOA_ISTD



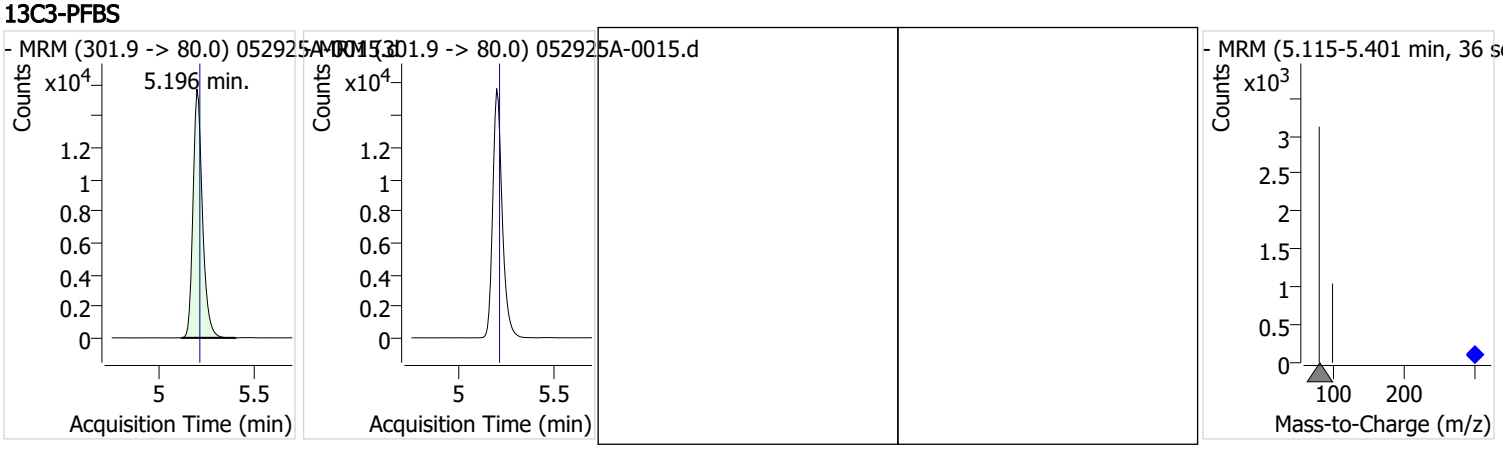
13C8-PFOS_ISTD



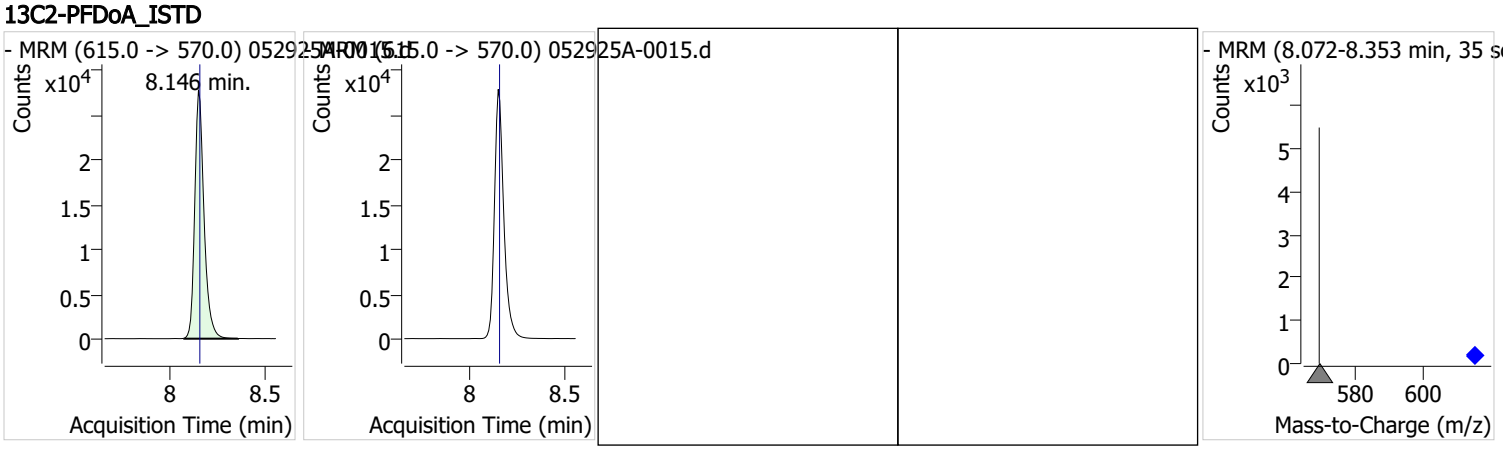
13C9-PFNA_ISTD



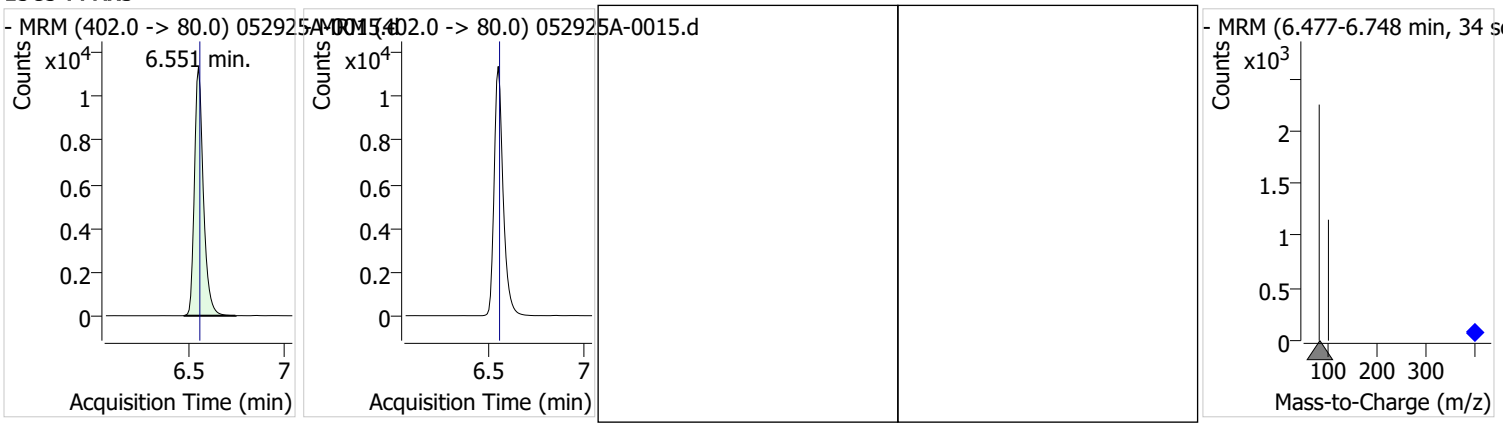
13C3-PFBS



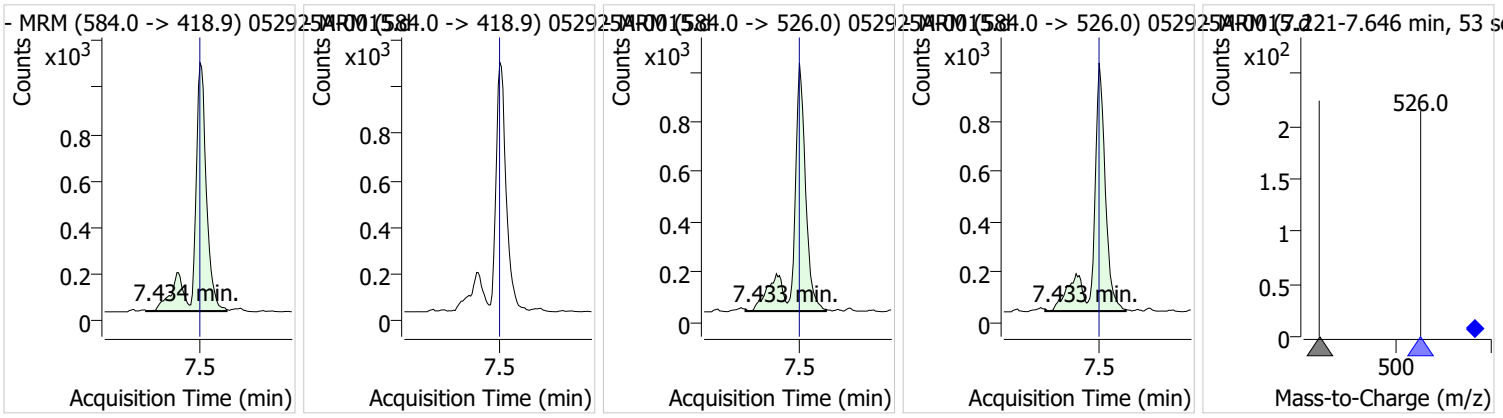
13C2-PFDoA_ISTD



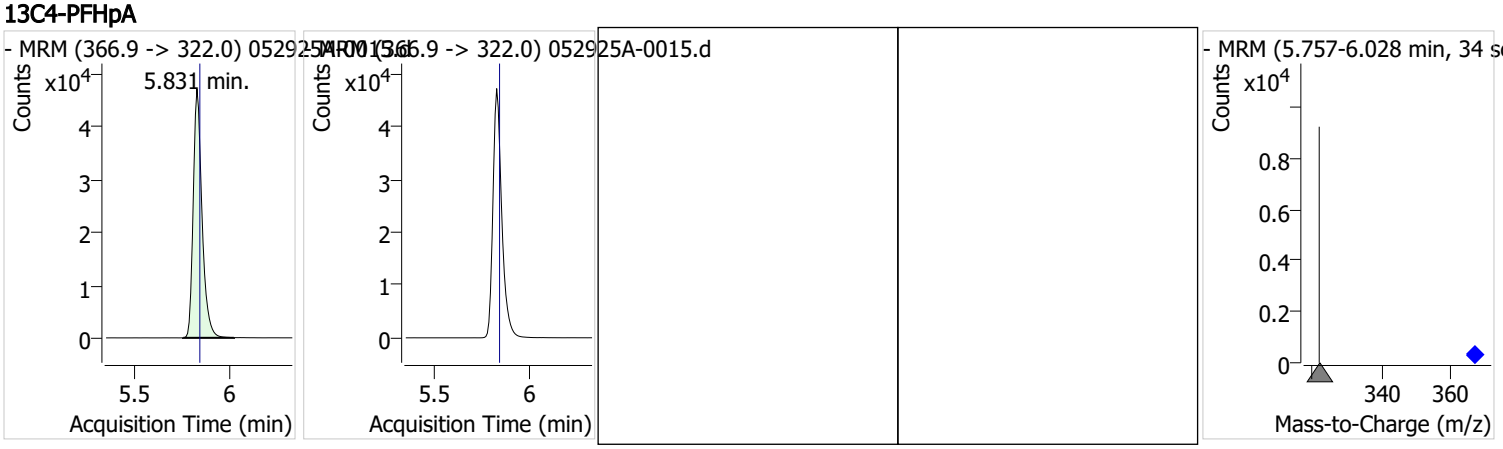
13C3-PFHxS



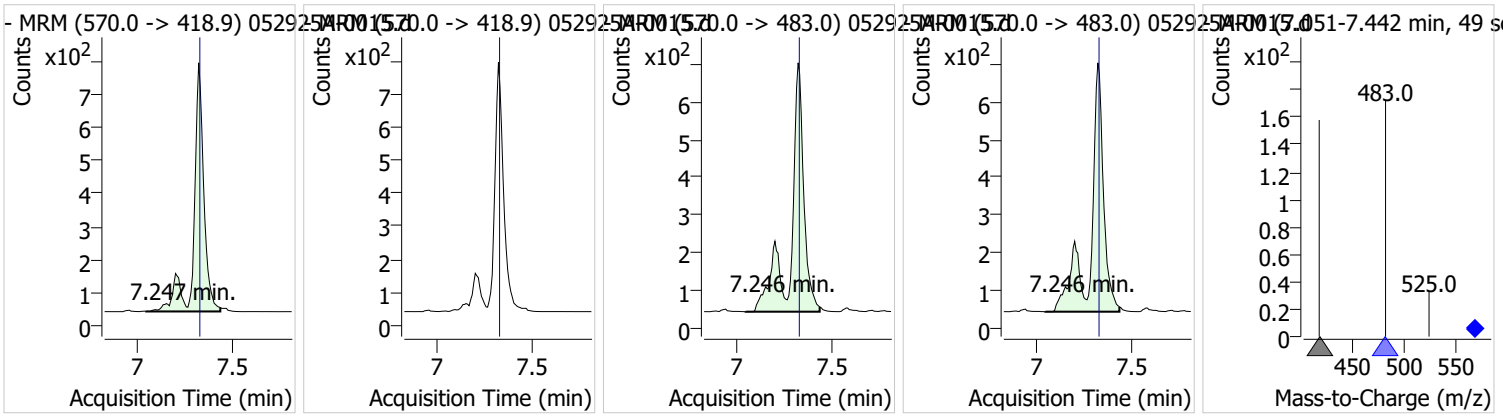
NEtFOSAA



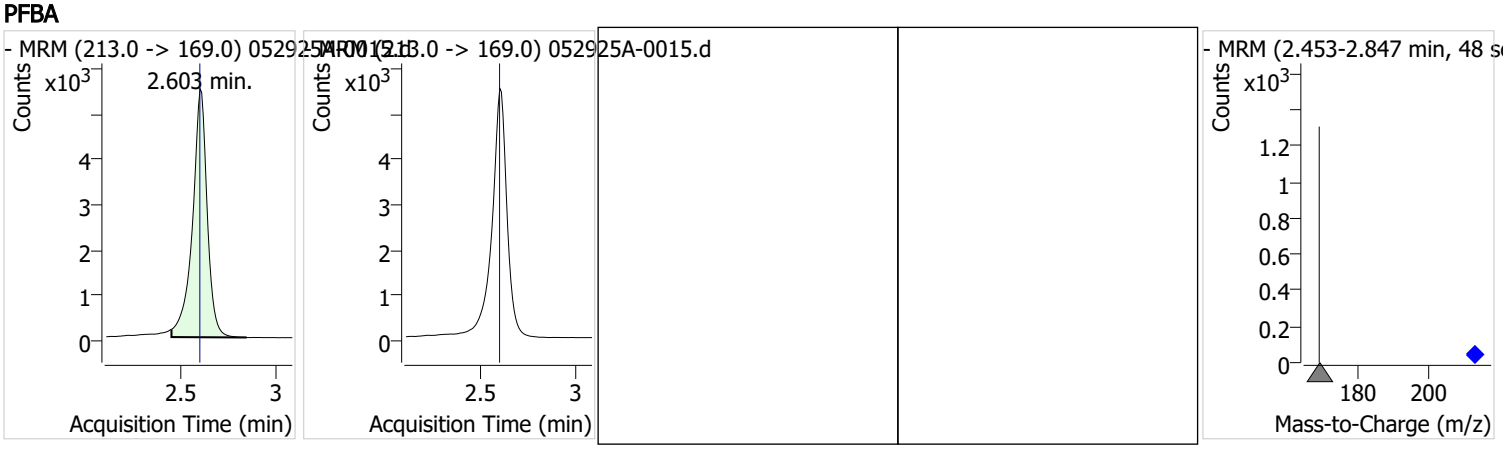
13C4-PFHpA



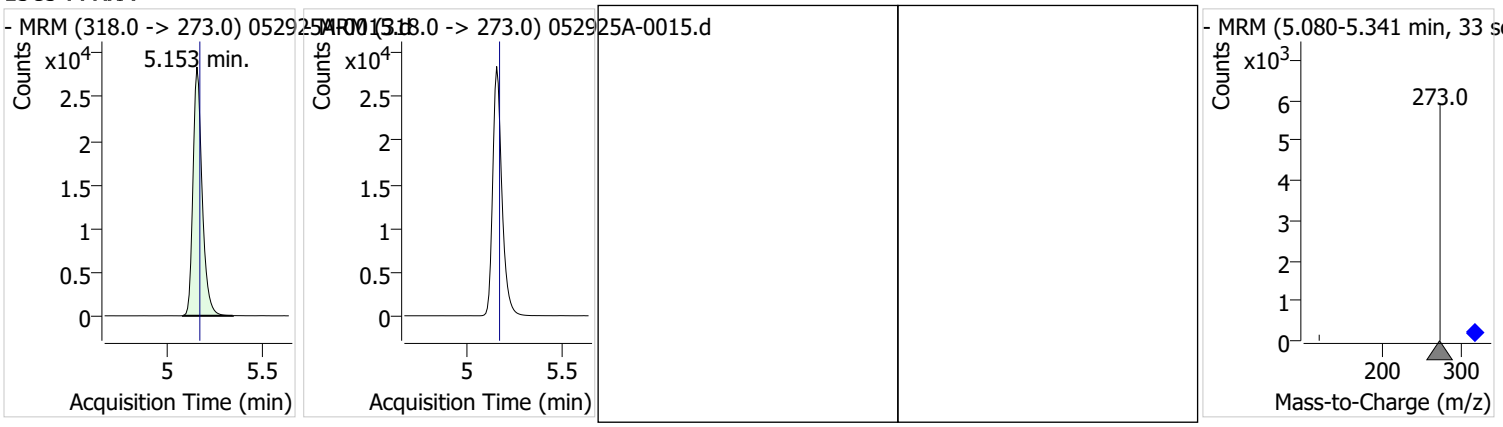
NMeFOSAA



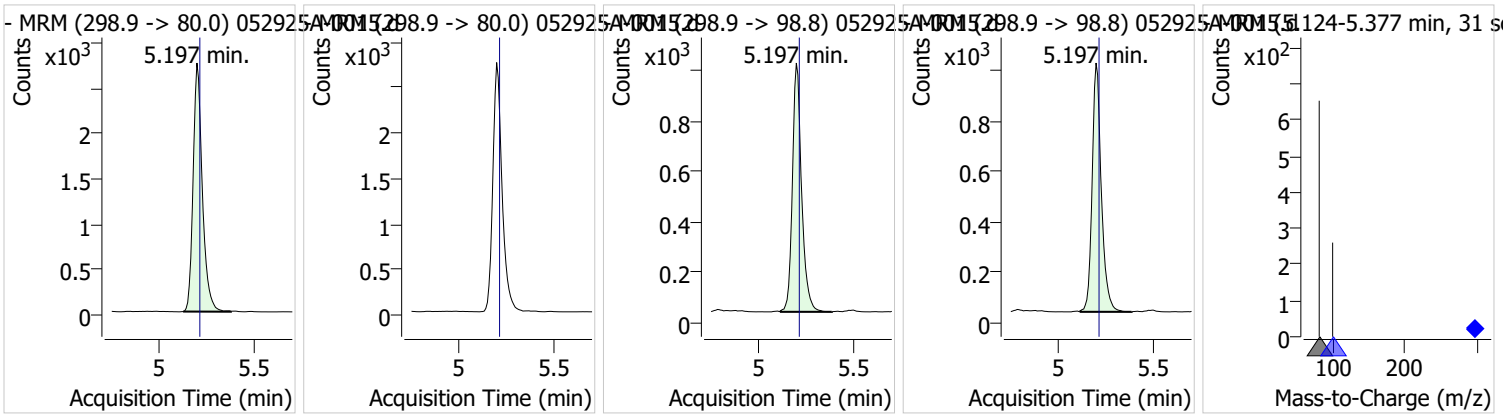
PFBA



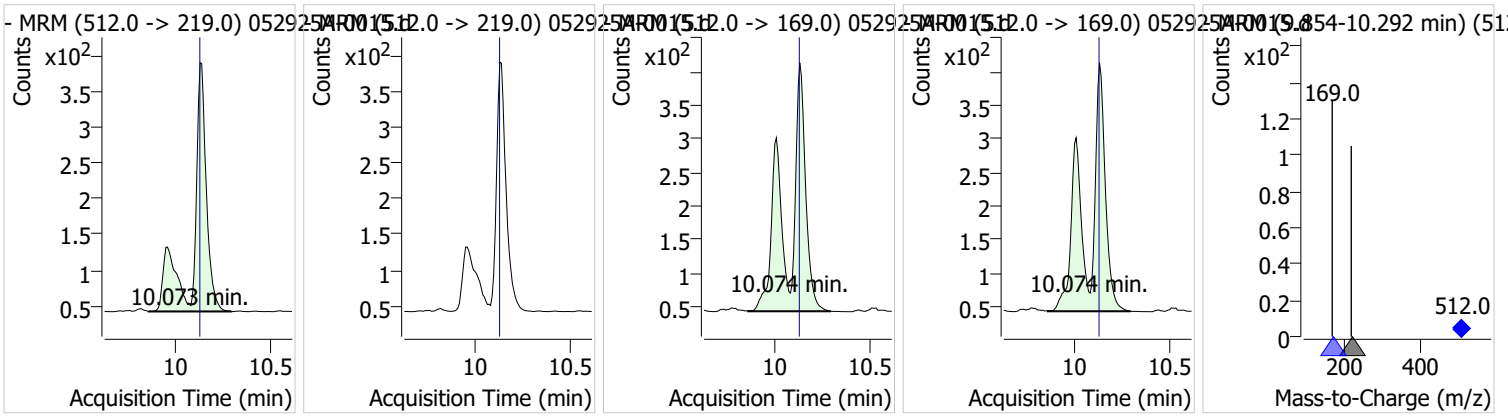
13C5-PFHxA



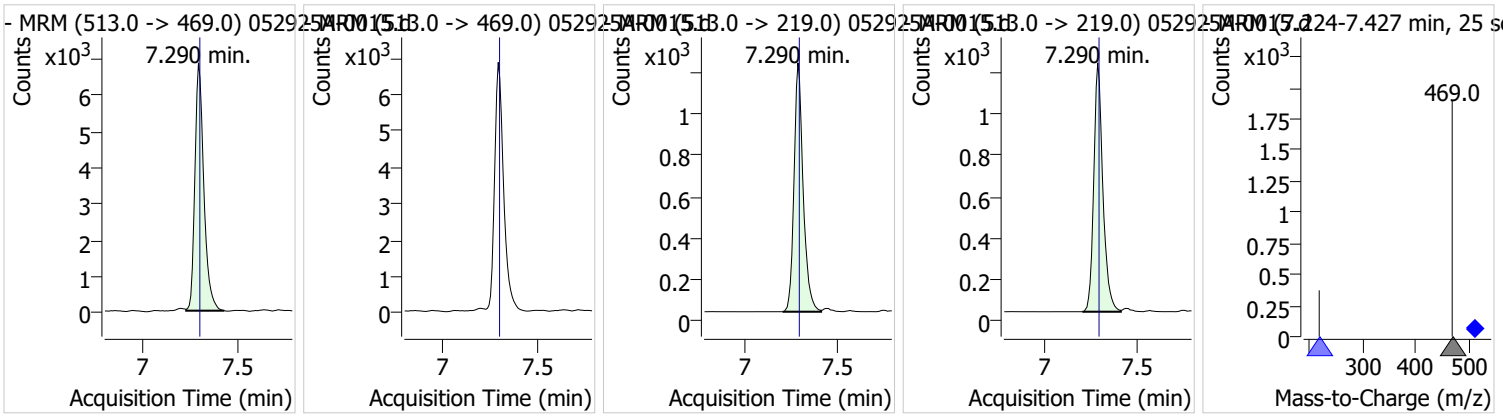
PFBS



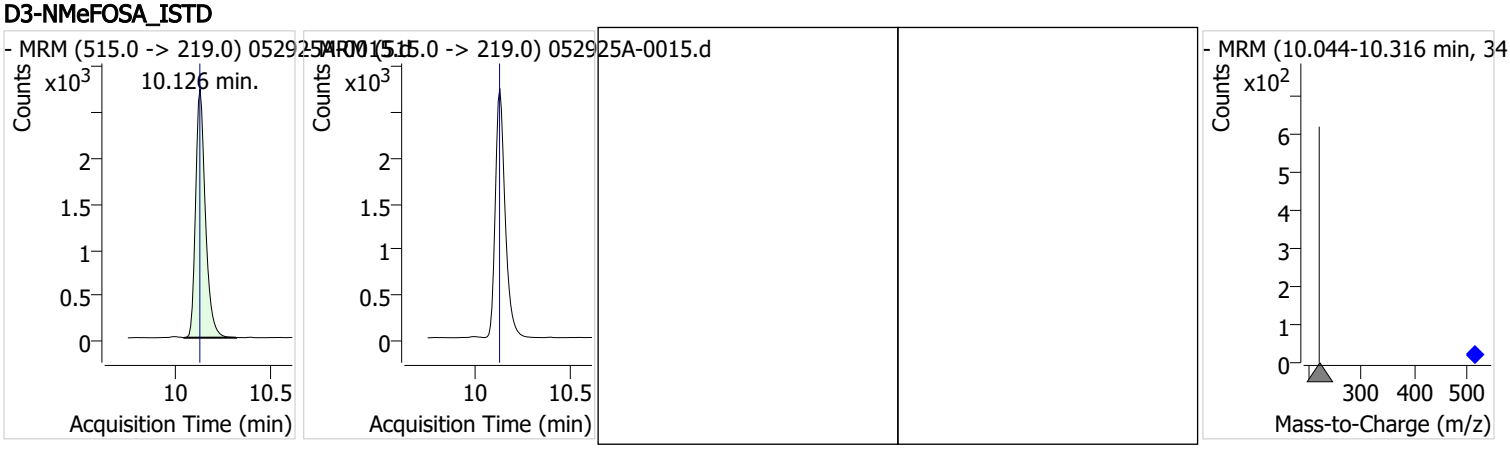
NMeFOSA



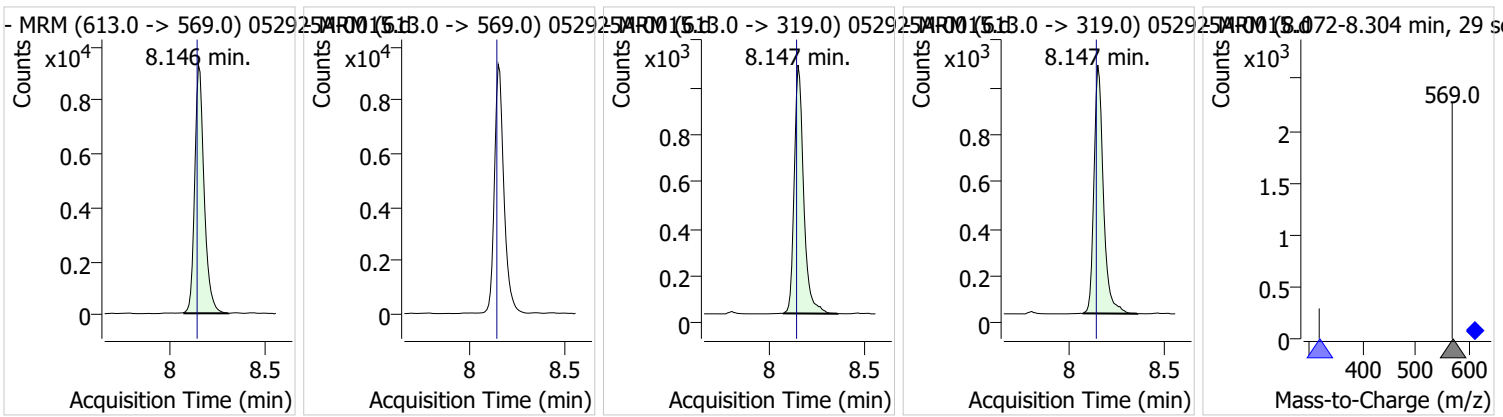
PFDA



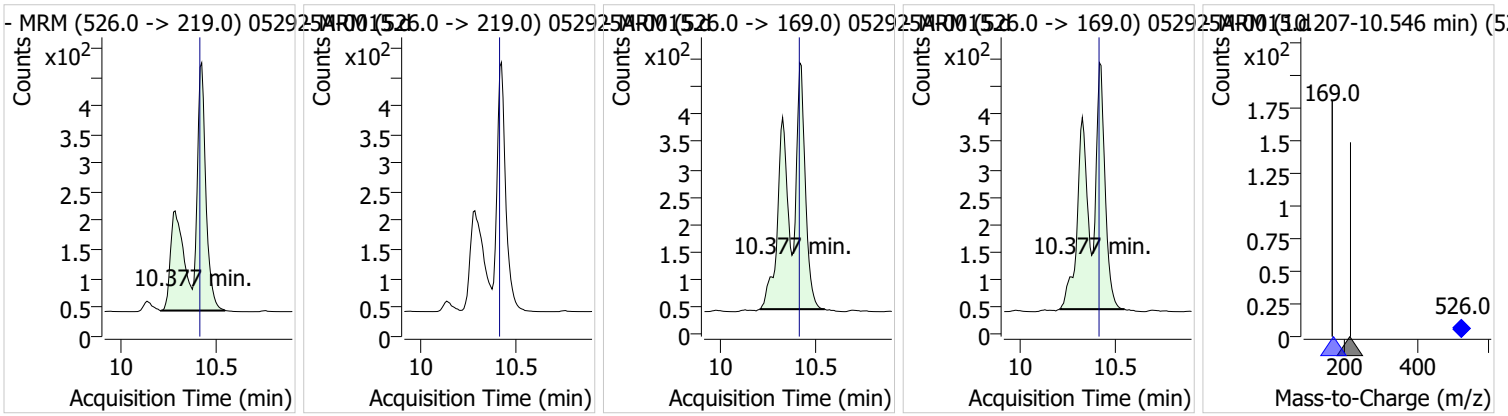
D3-NMeFOSA_ISTD



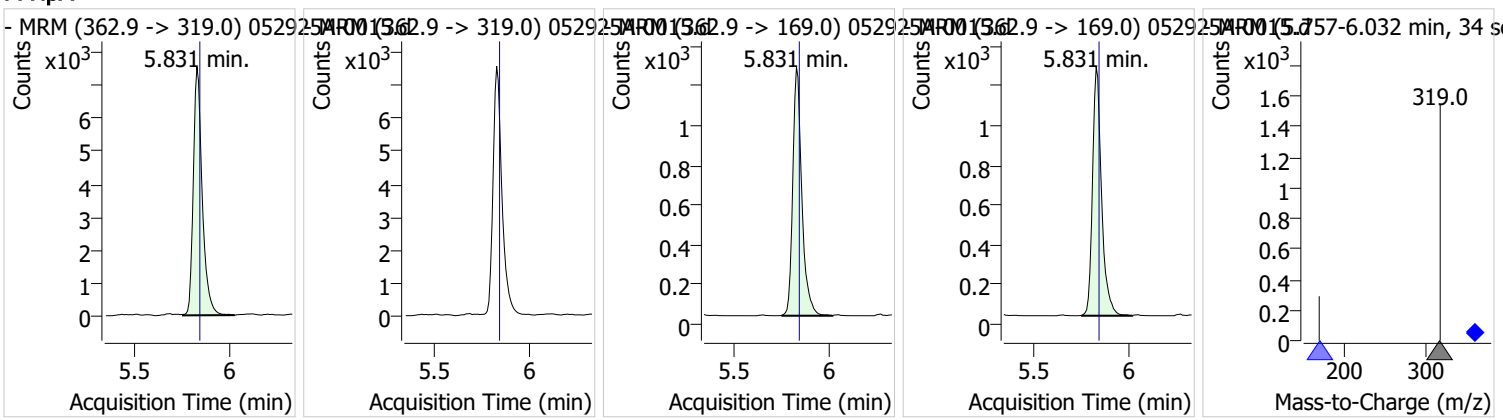
PFDoA



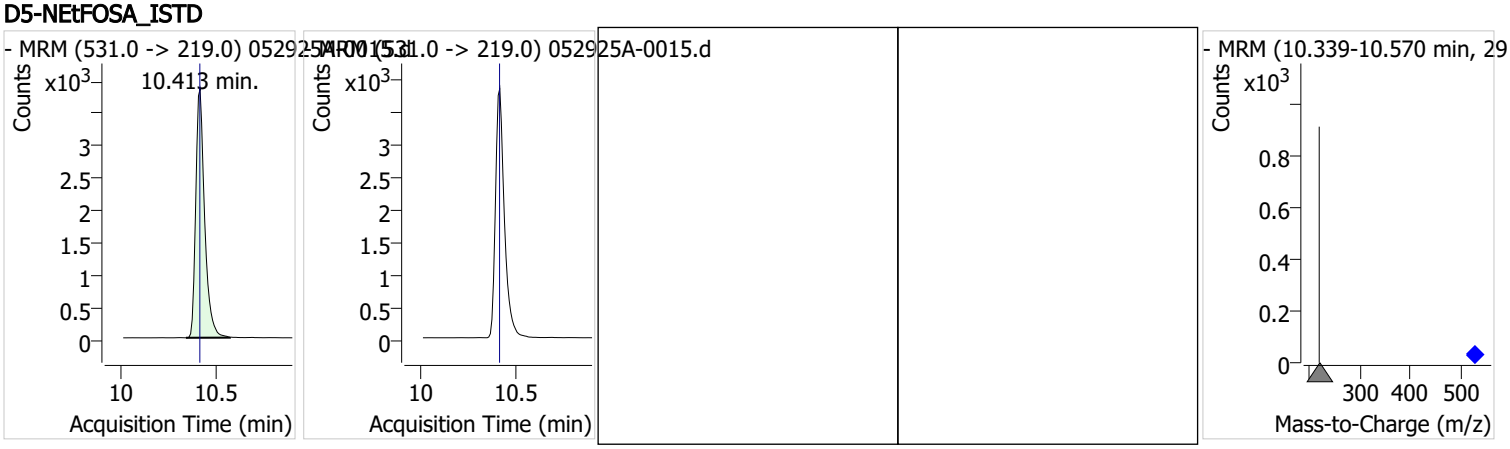
NEtFOSA



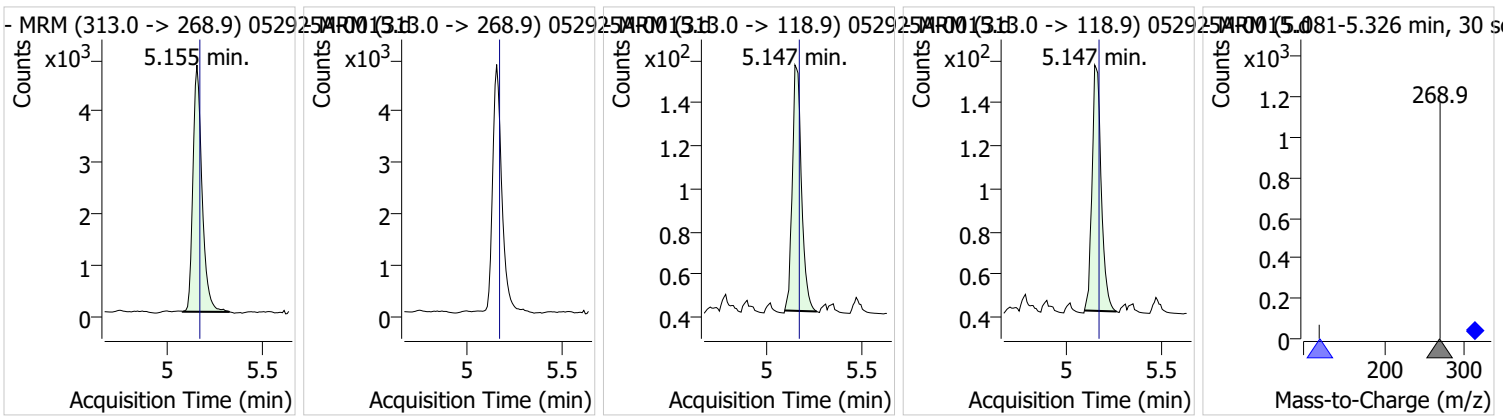
PFHpA



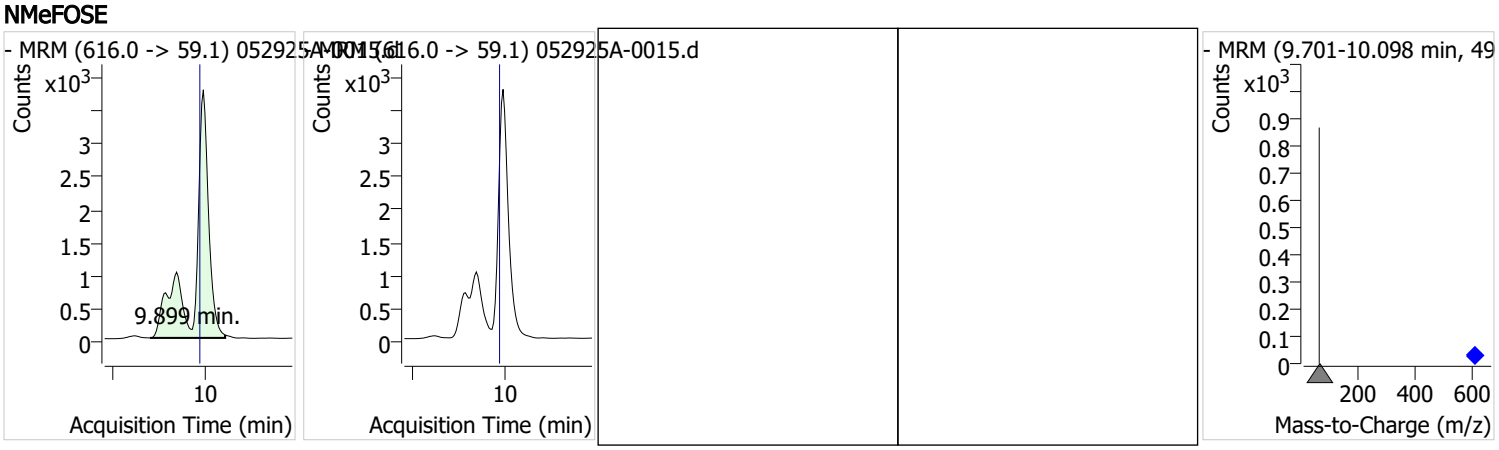
D5-NEtFOSA_ISTD



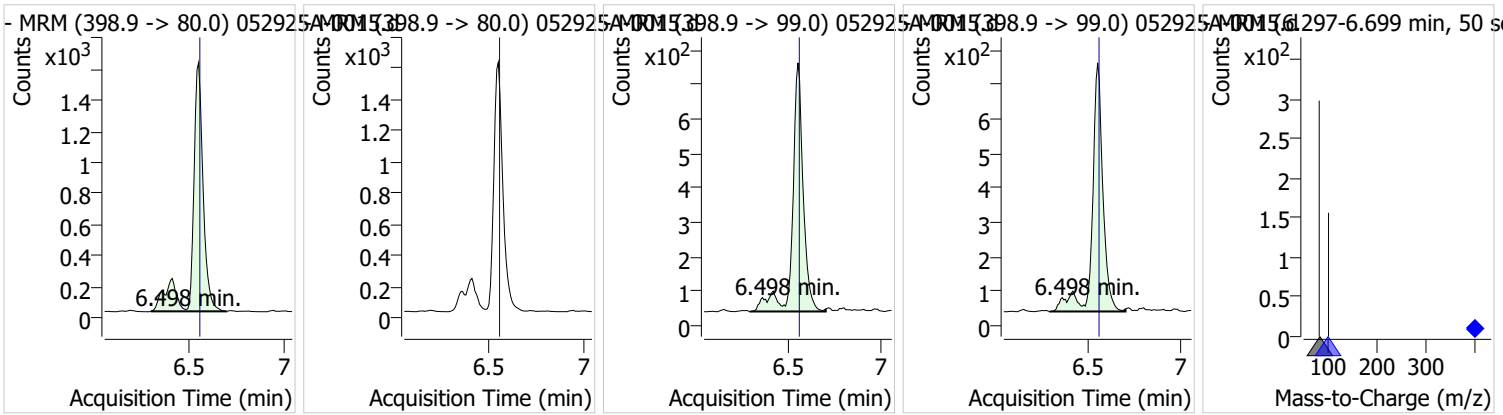
PFHxA



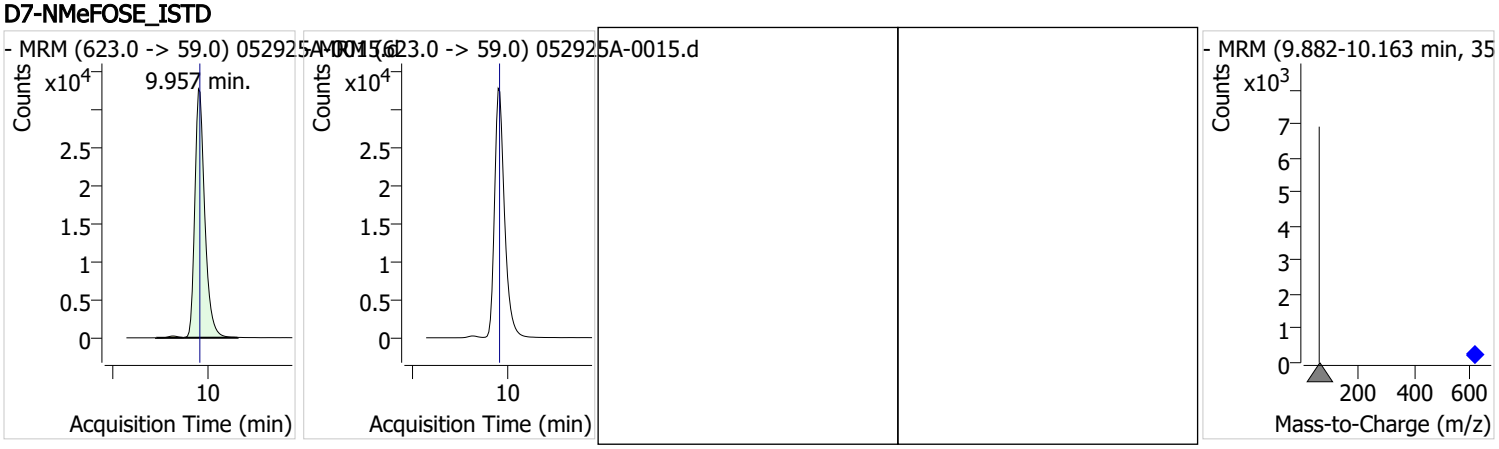
NMeFOSE



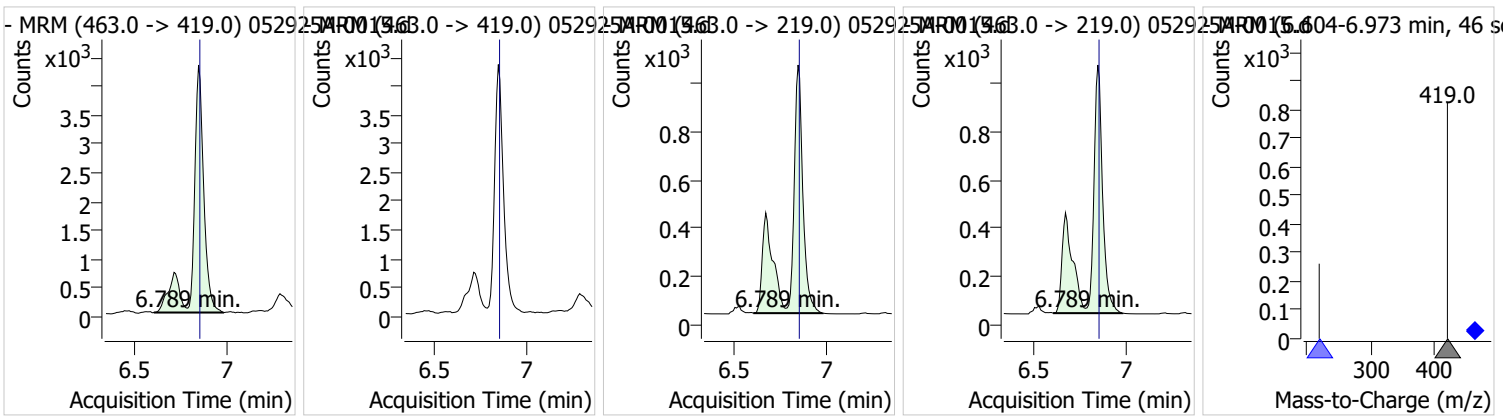
PFHxS



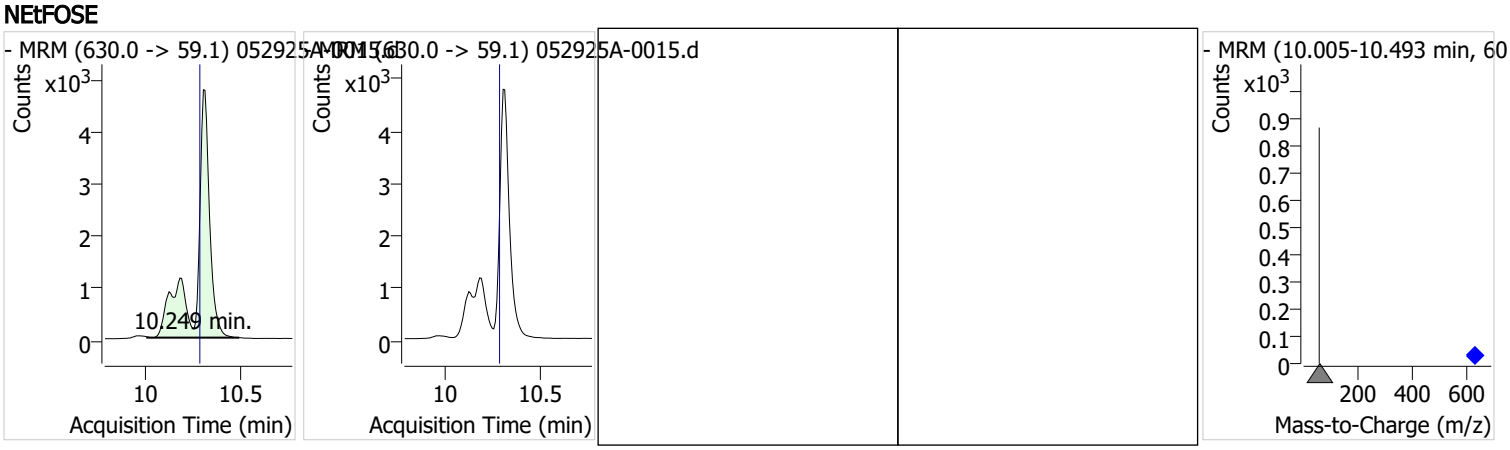
D7-NMeFOSE_ISTD



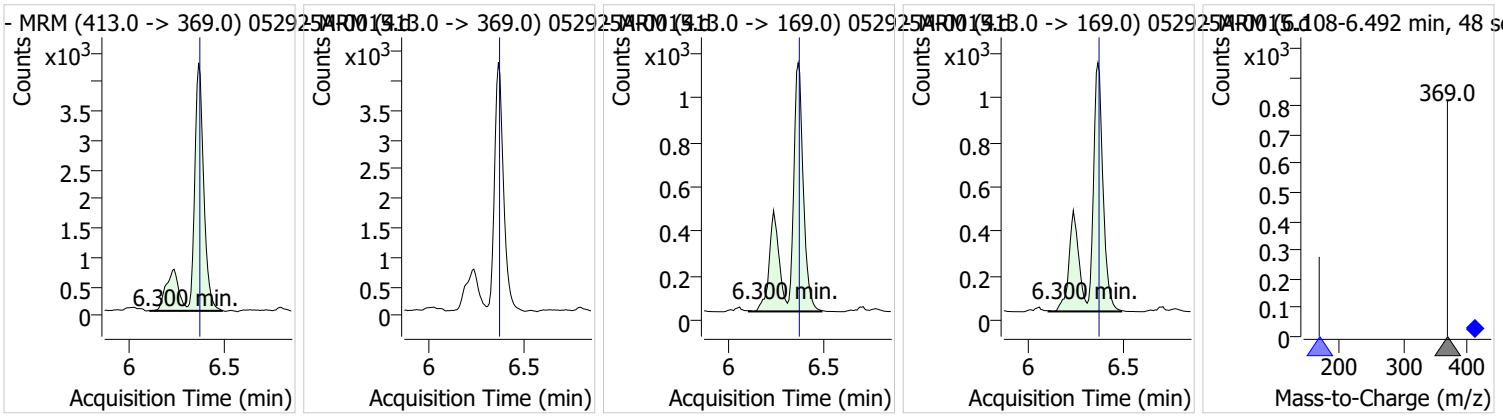
PFNA



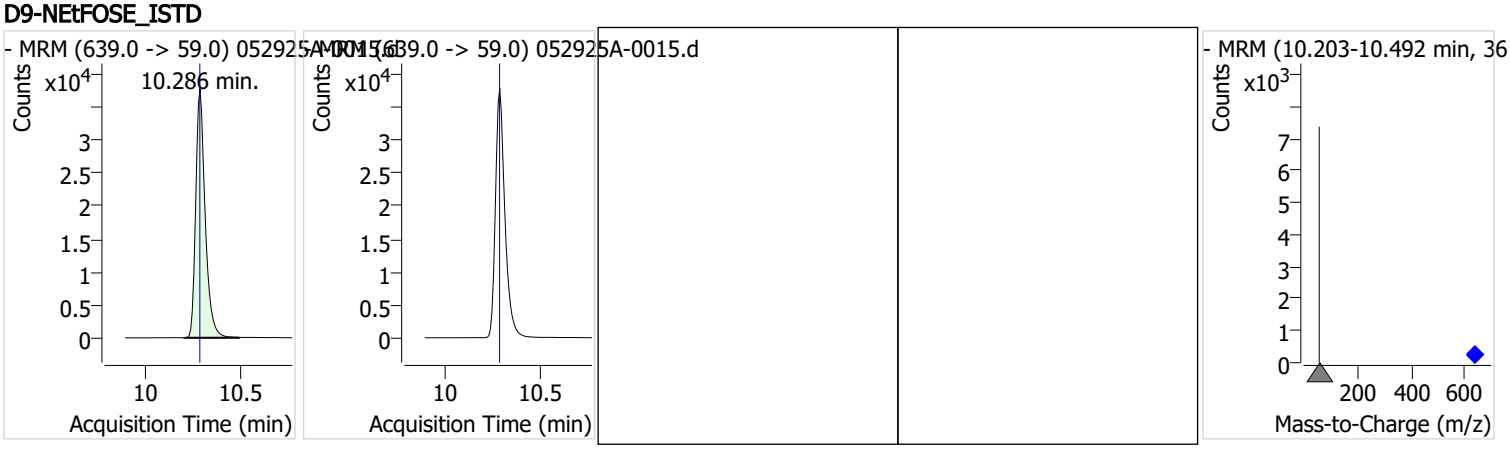
NEtFOSE



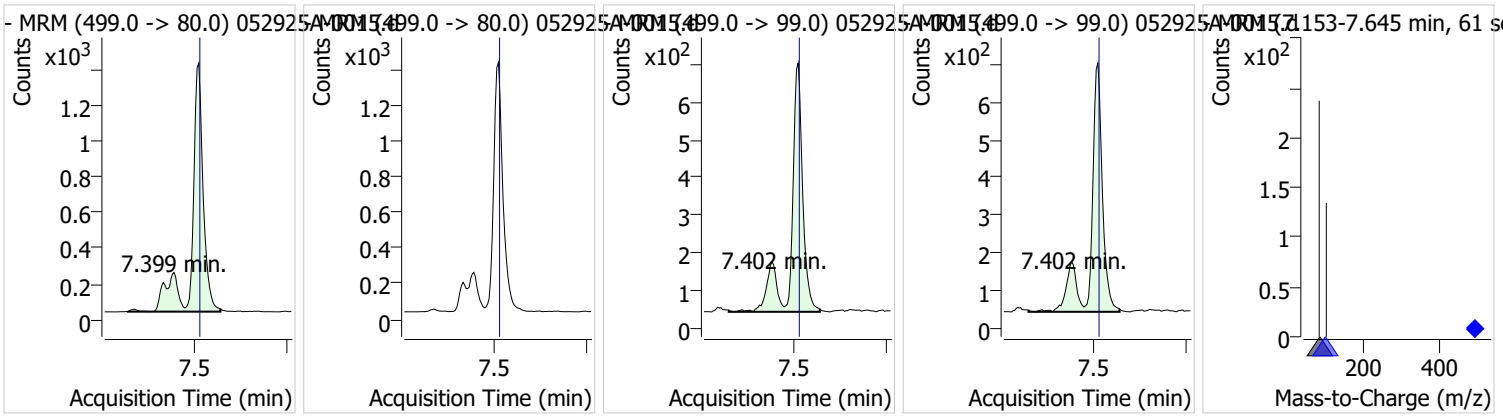
PFOA



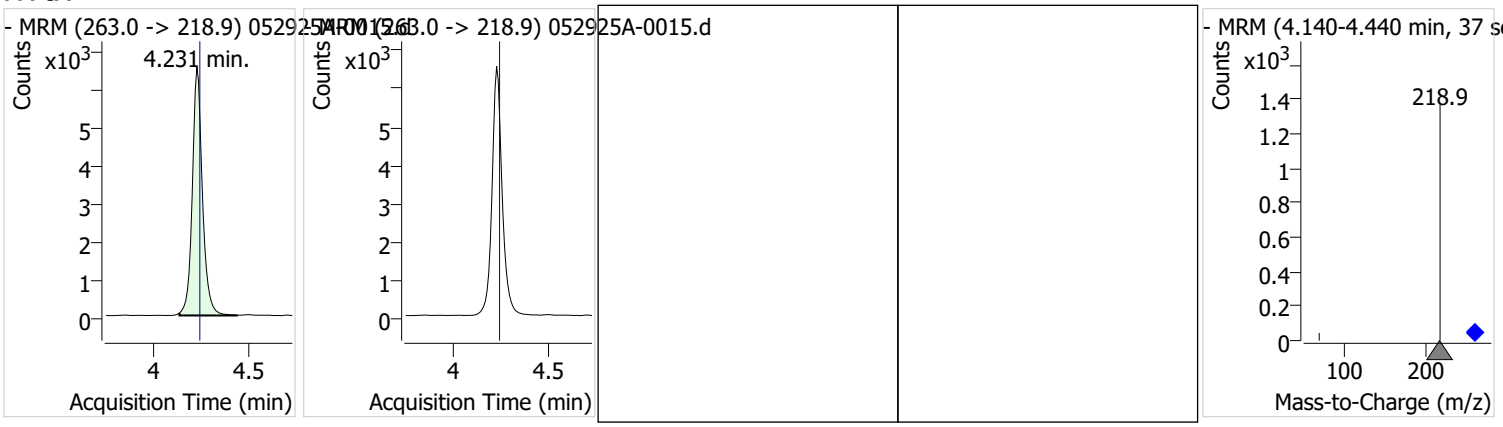
D9-NEtFOSE_ISTD



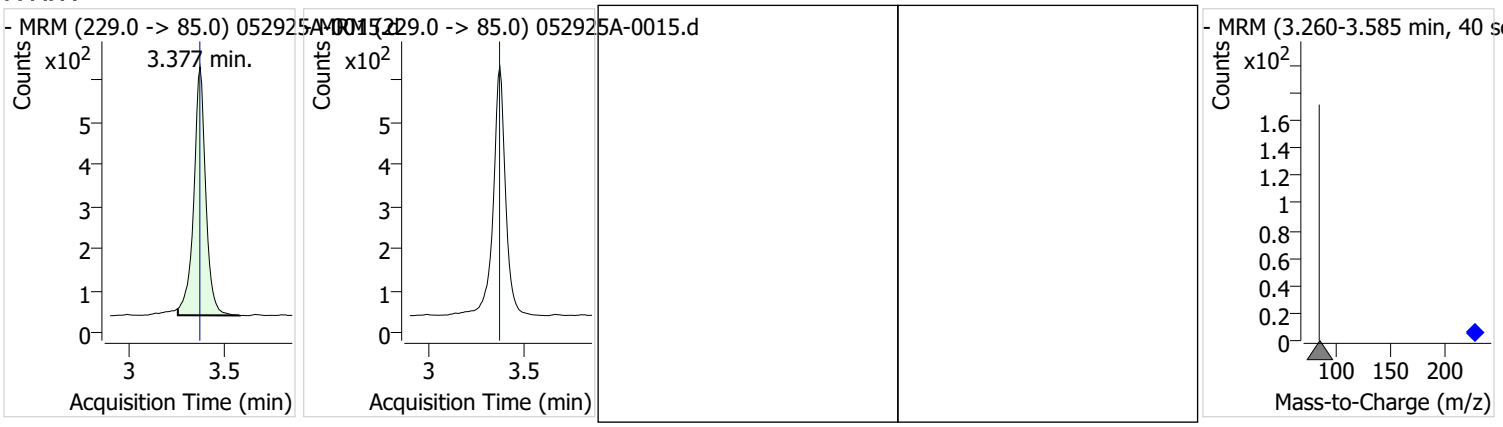
PFOS



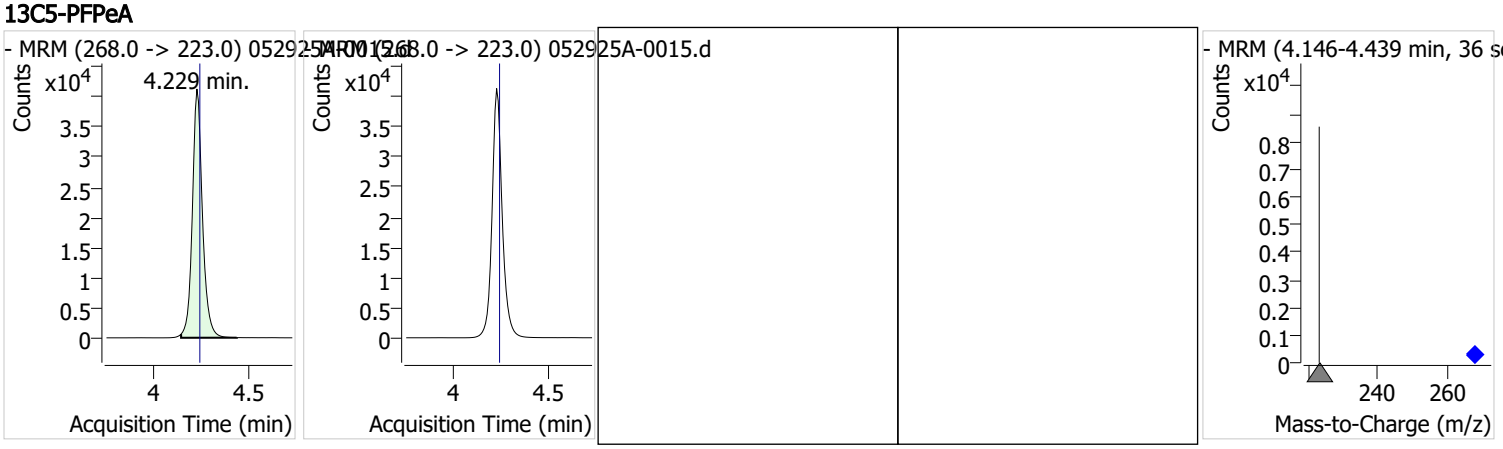
PFPeA



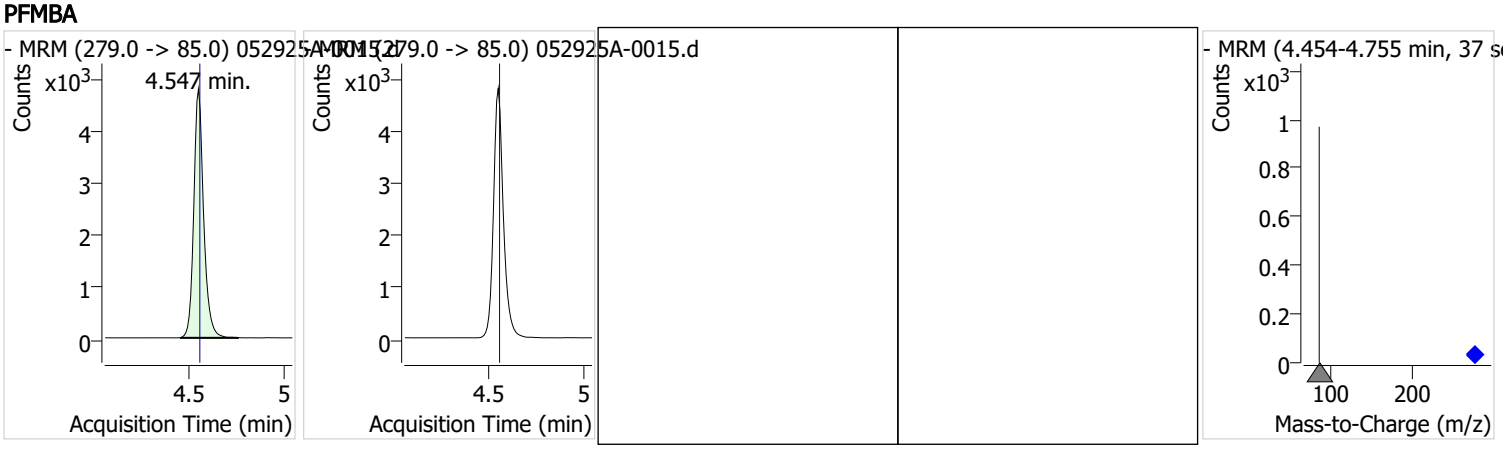
PFMPA



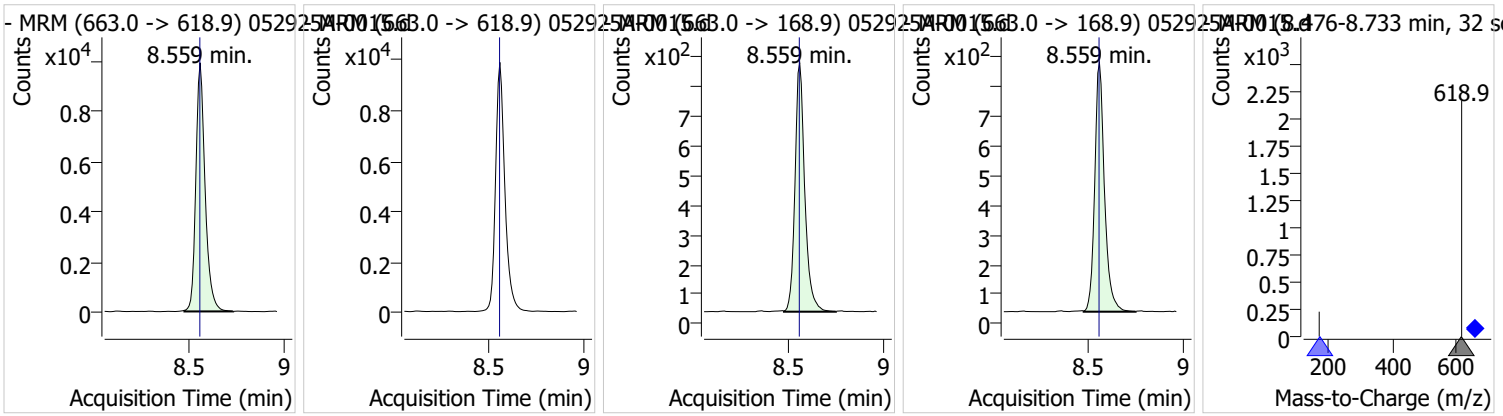
13C5-PFPeA



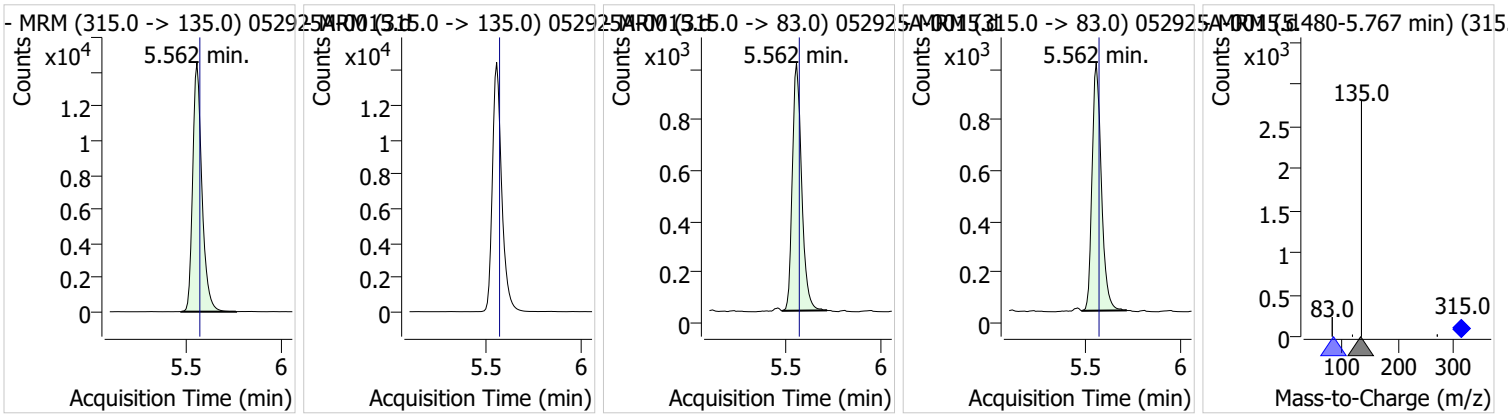
PFMBA



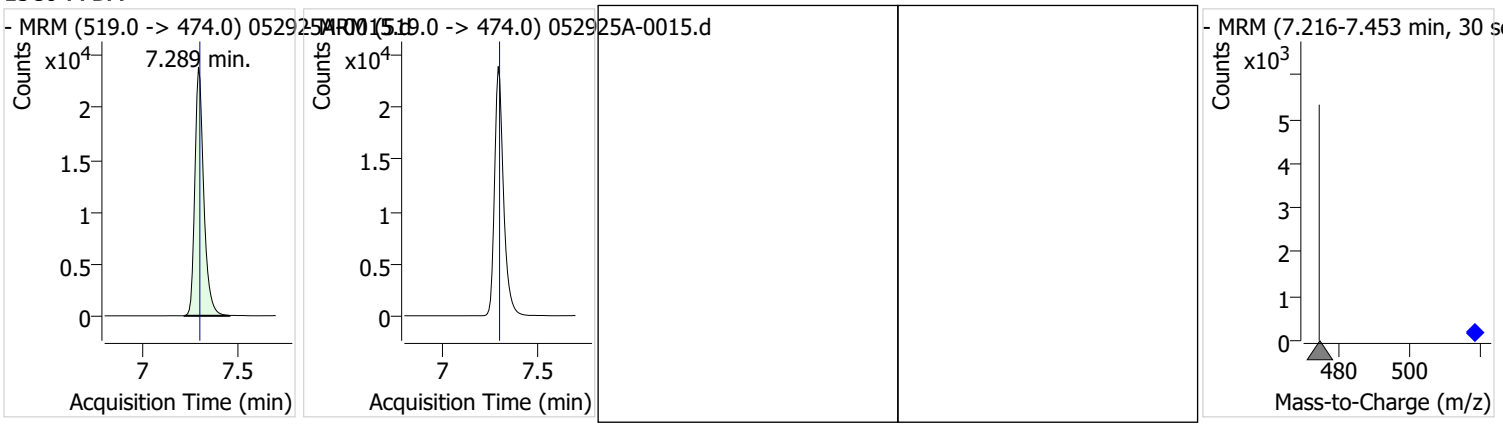
PFTrDA



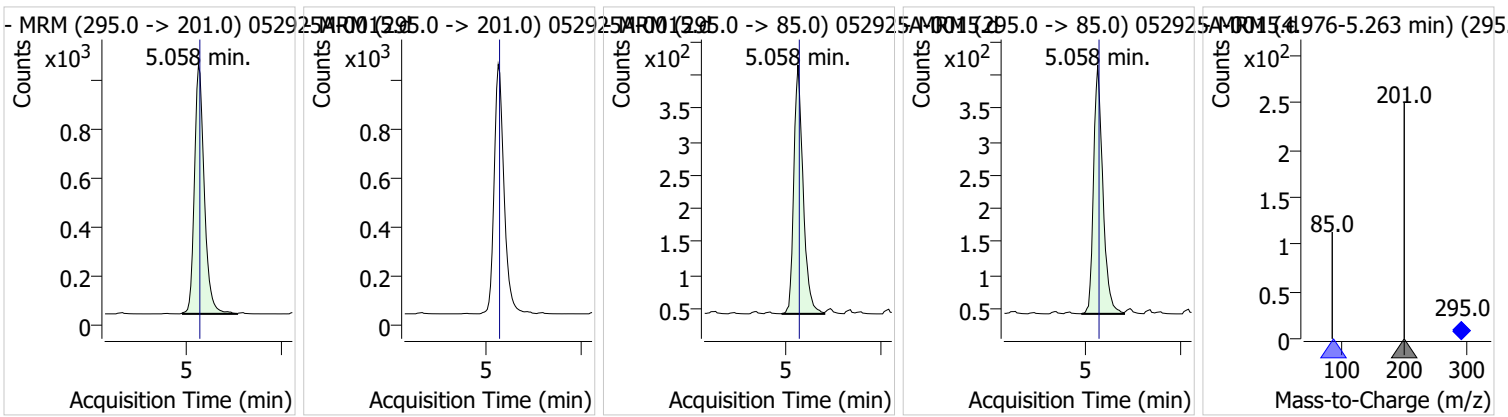
PFEESA



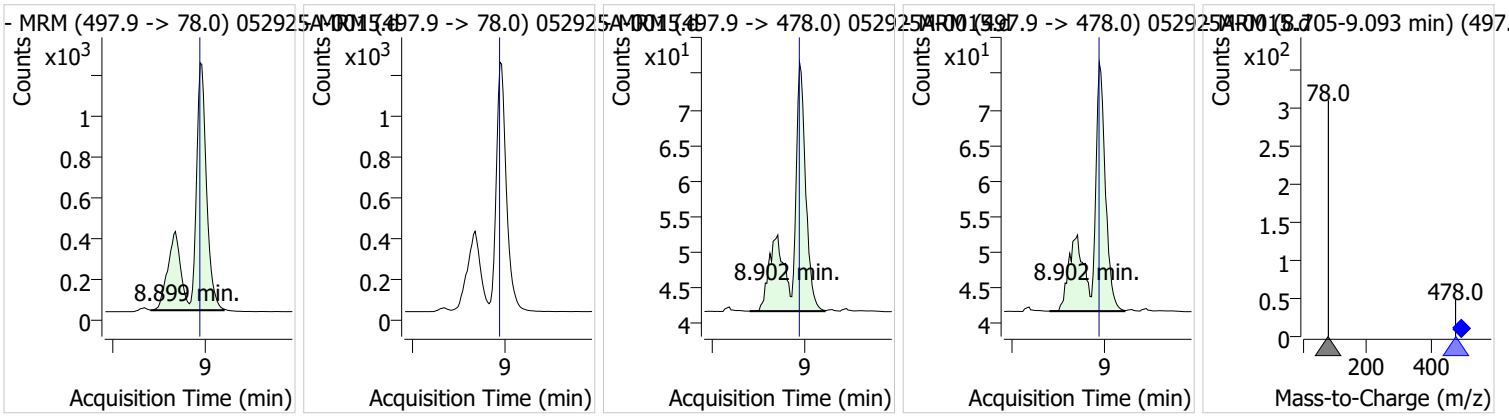
13C6-PFDA



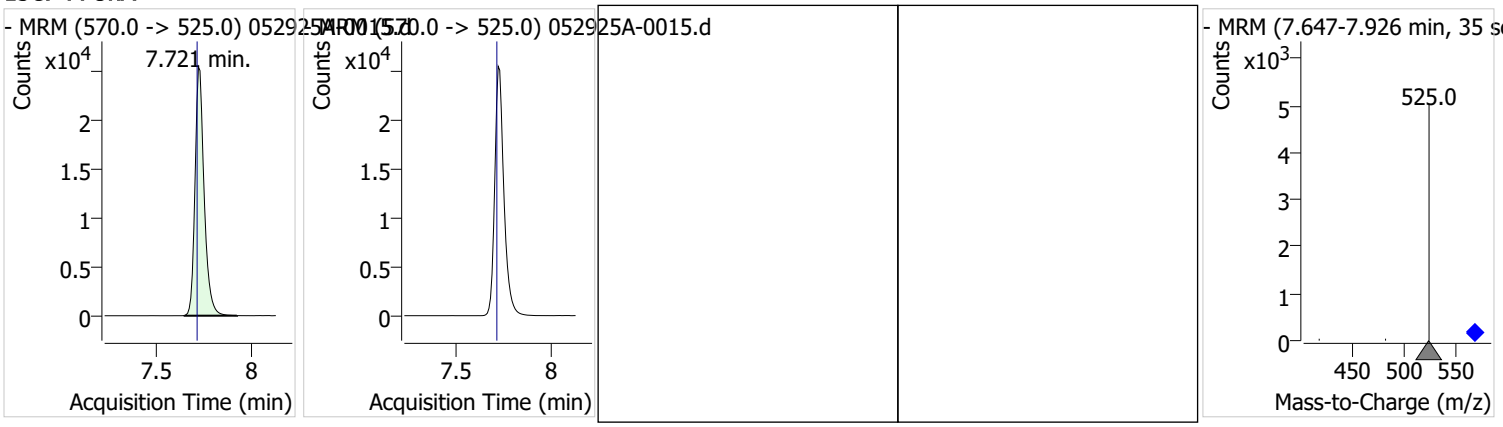
NFDHA



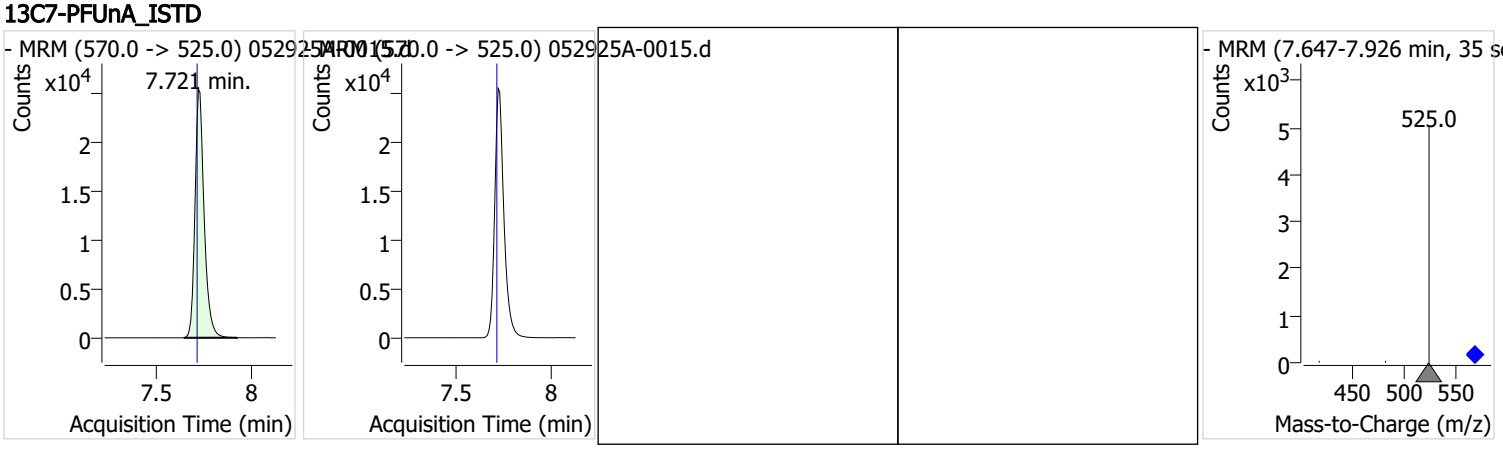
PFOSA



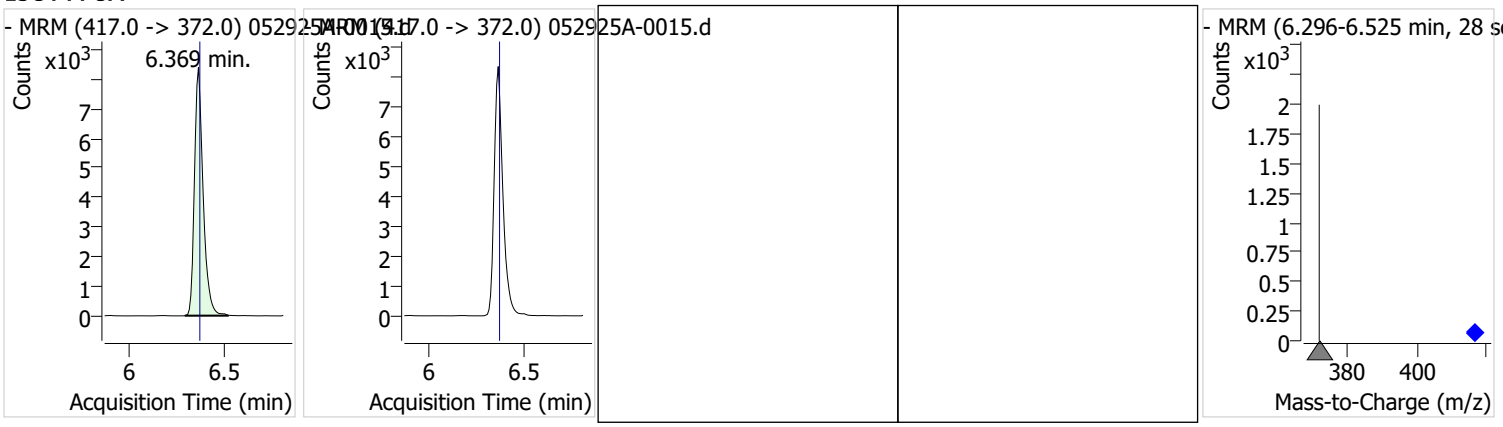
13C7-PFUnA



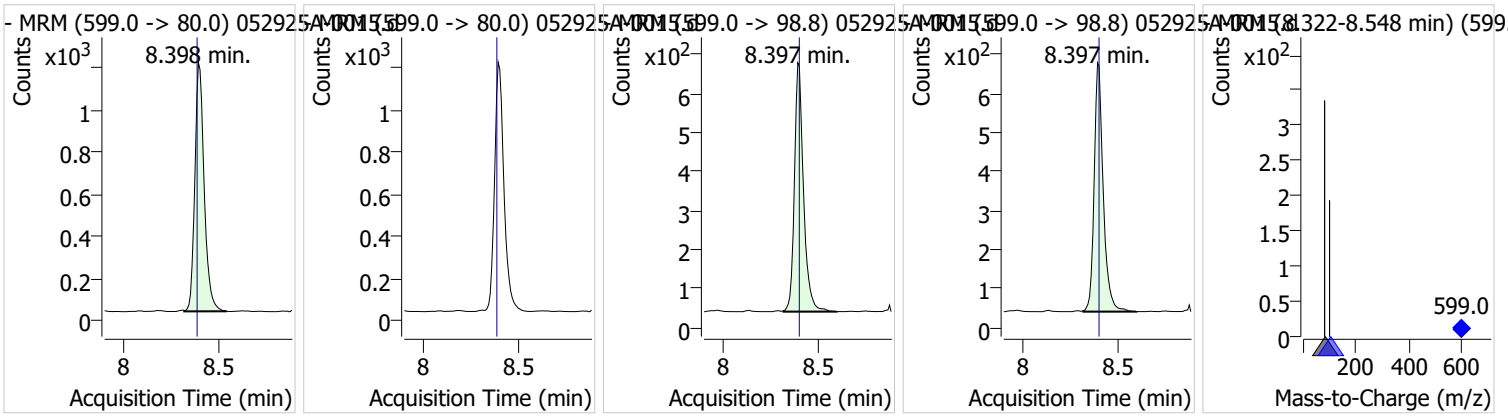
13C7-PFUnA_ISTD



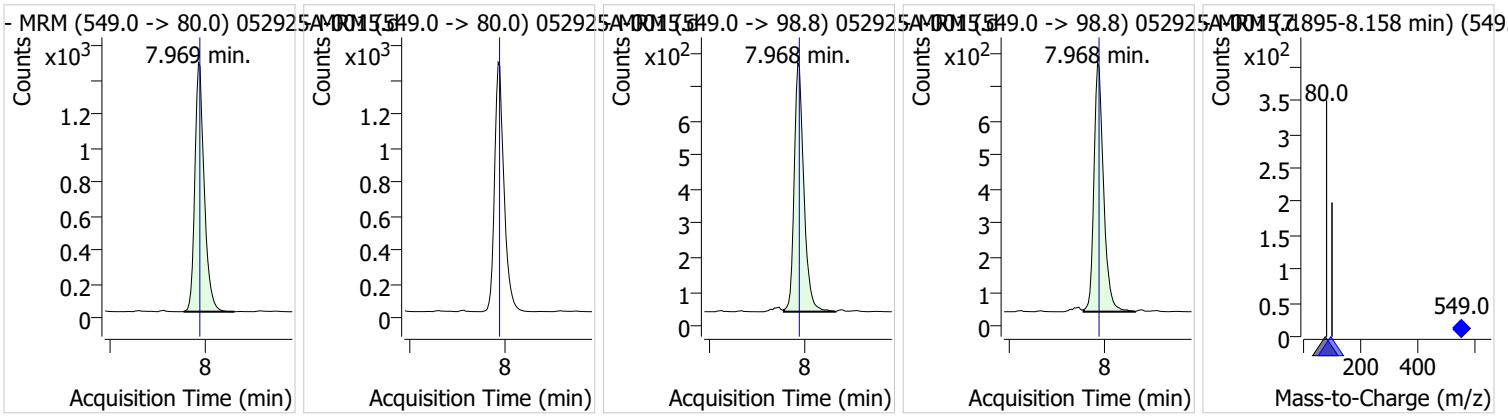
13C4-PFOA



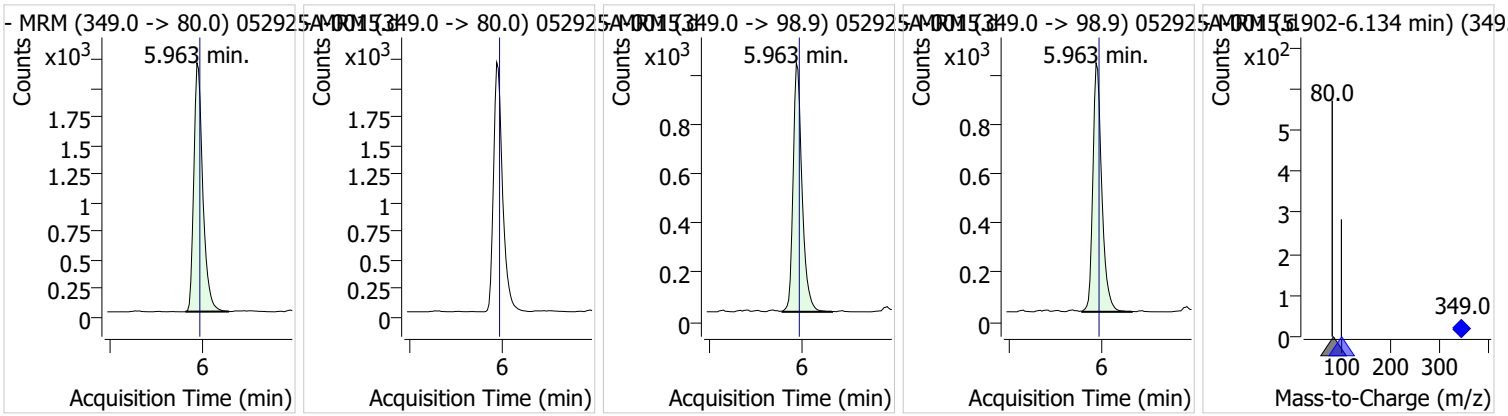
PFDS



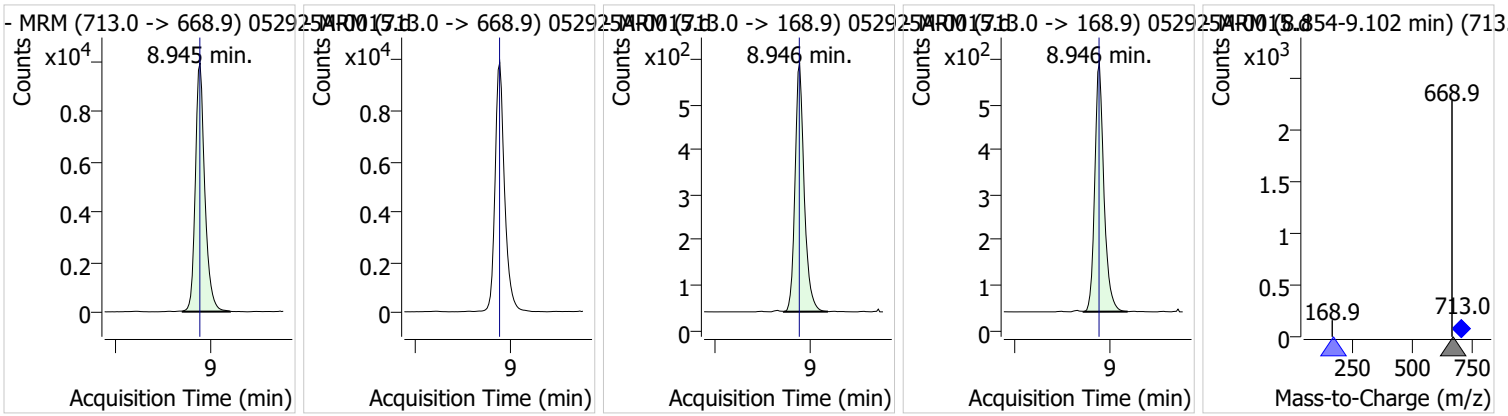
PFNS



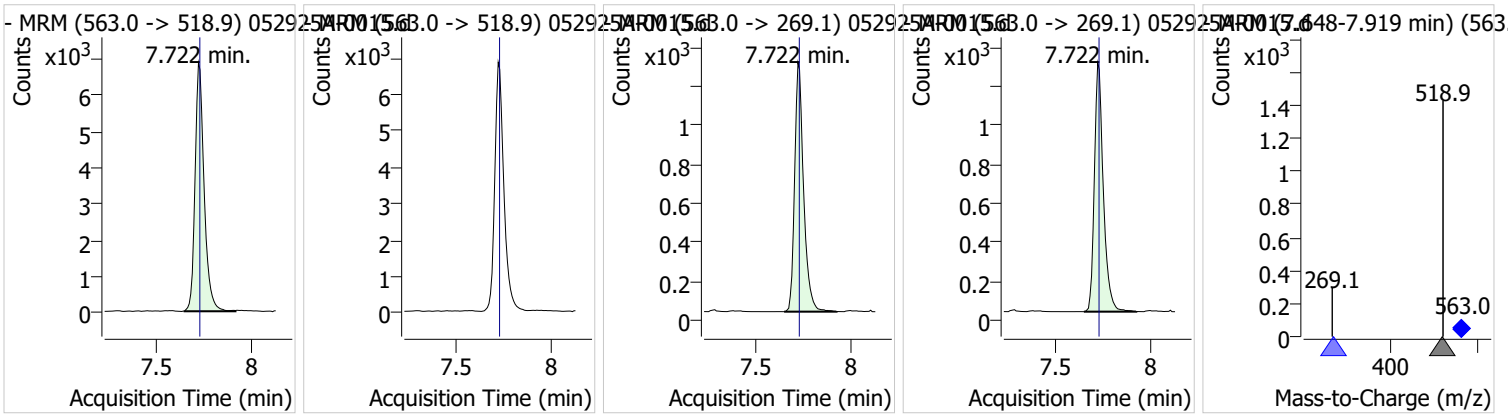
PFPeS



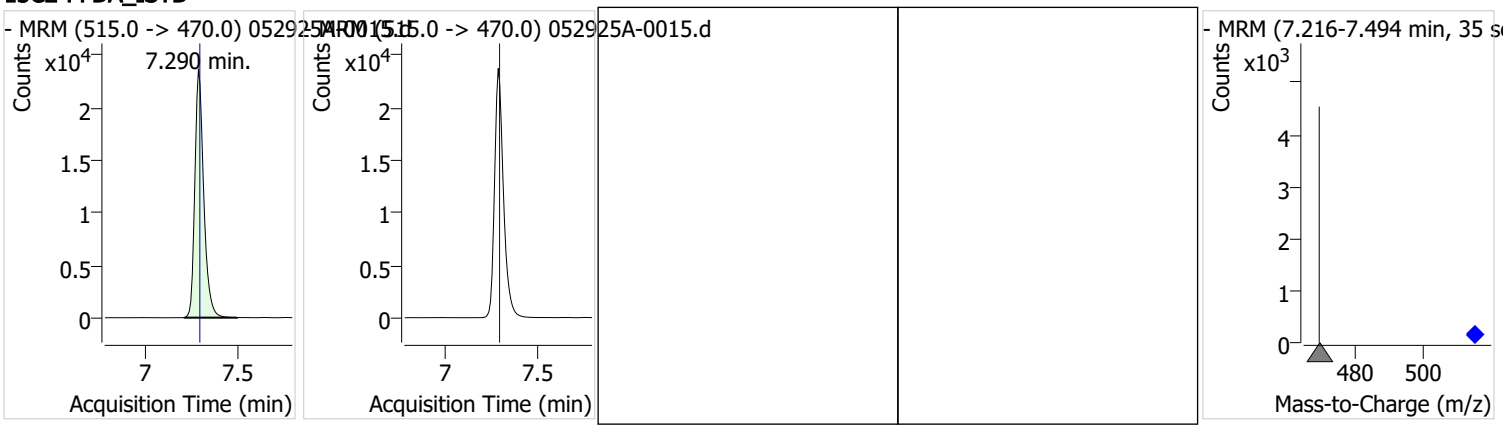
PFTeDA



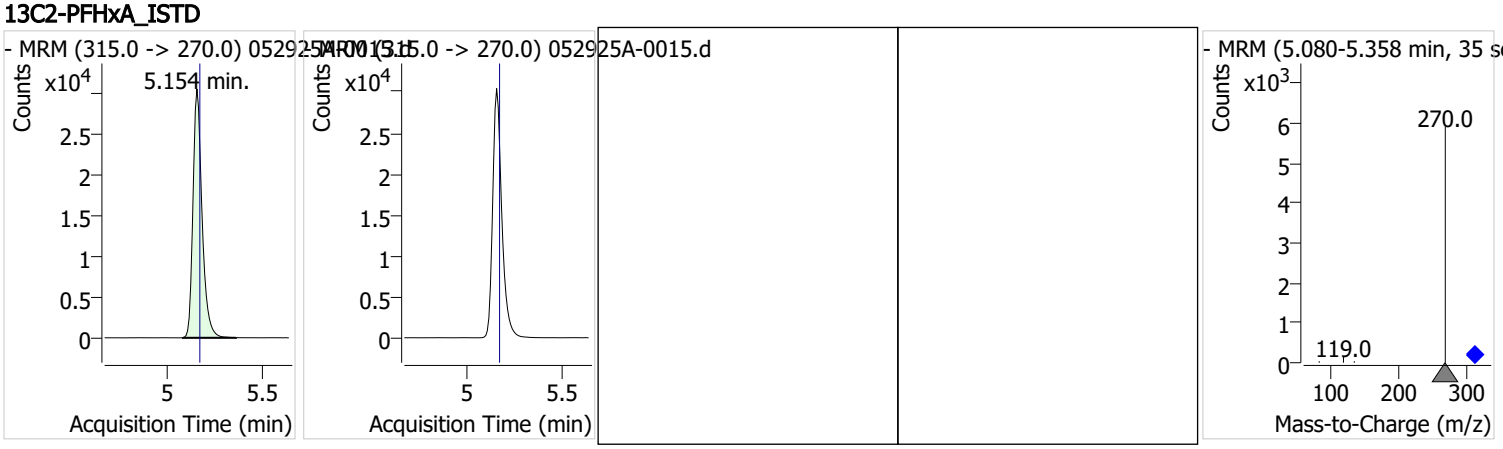
PFUnA



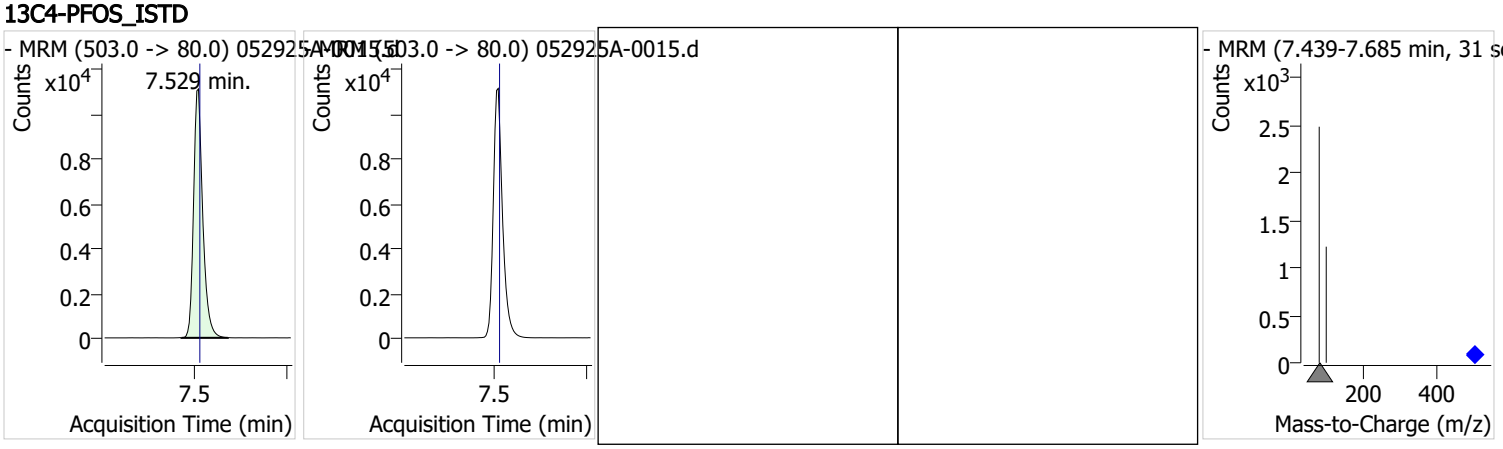
13C2-PFDA_ISTD



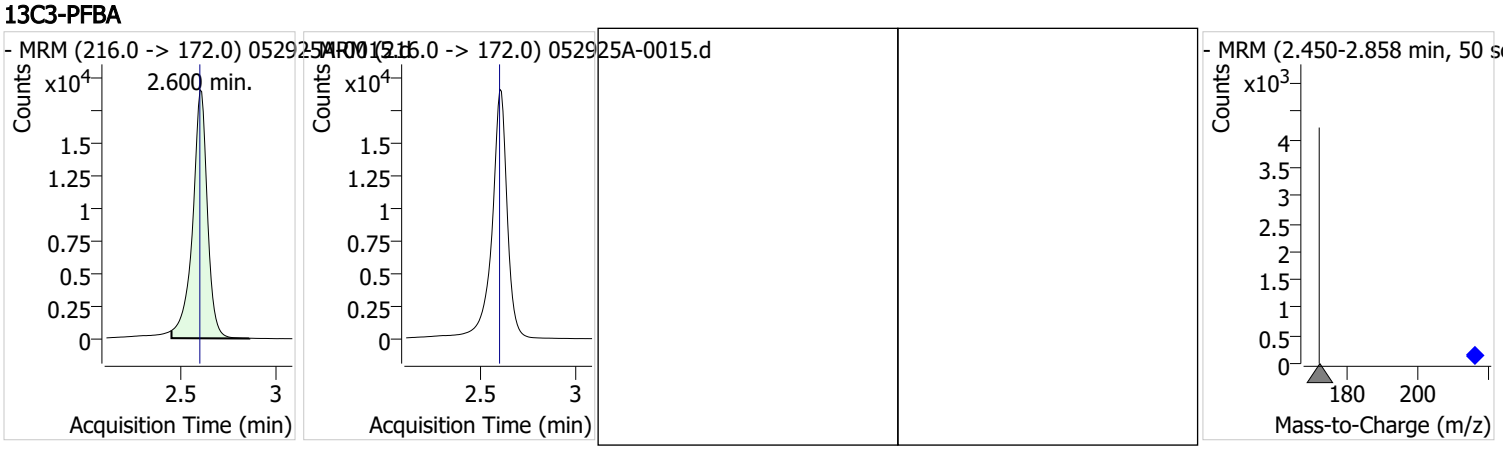
13C2-PFHxA_ISTD



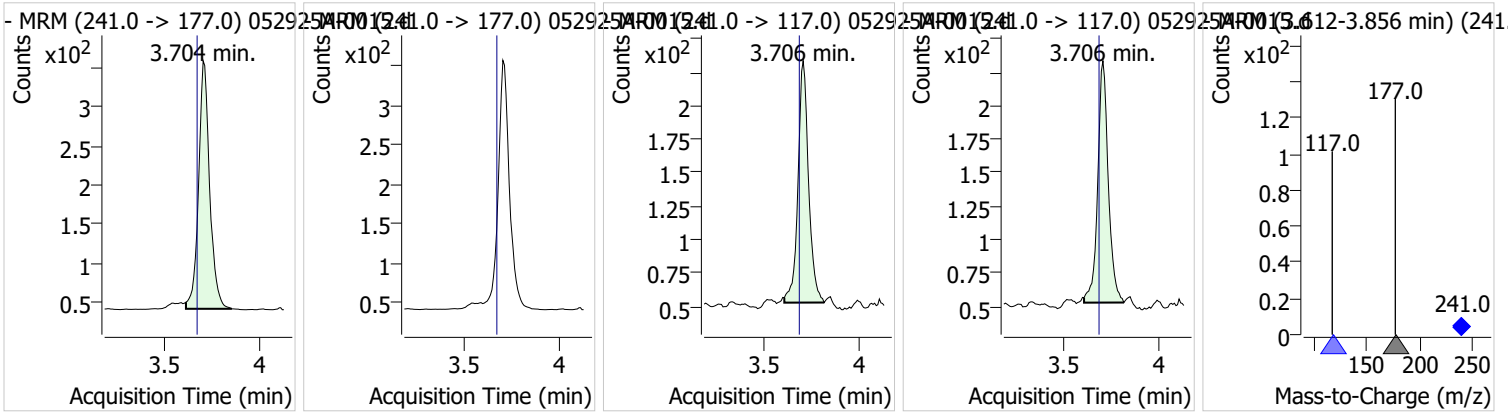
13C4-PFOS_ISTD



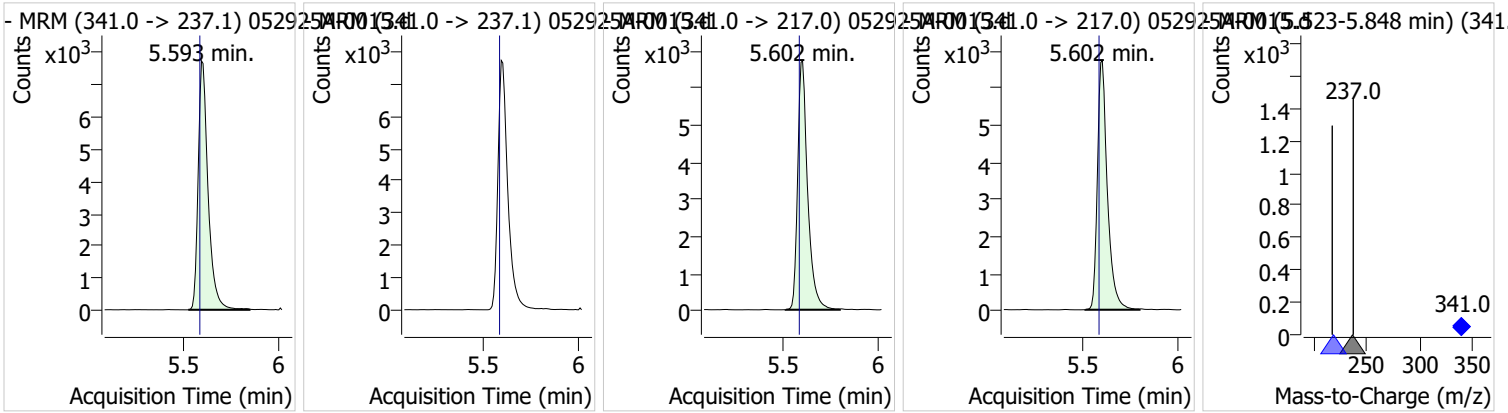
13C3-PFBA



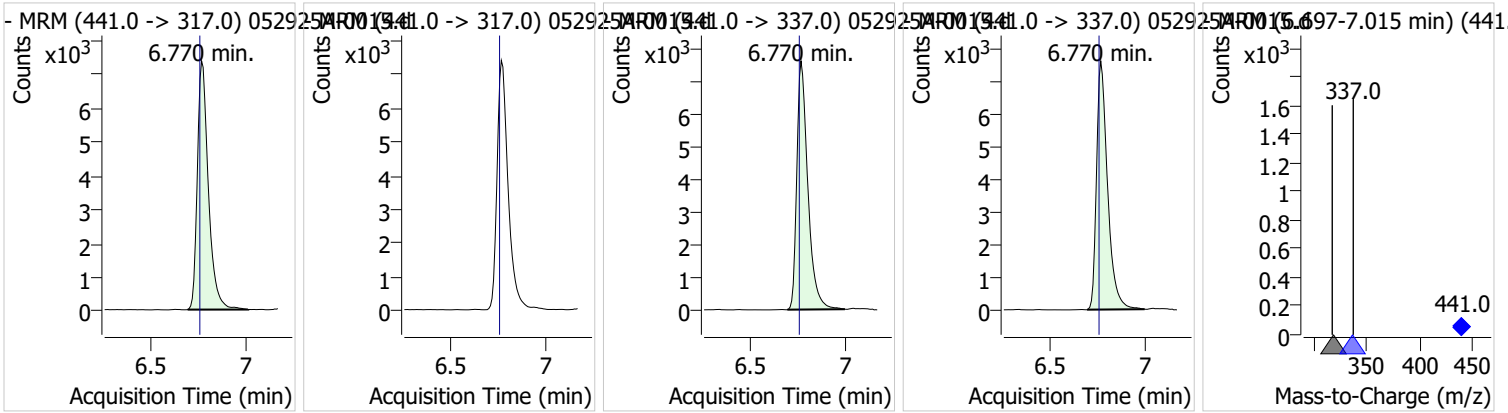
3:3FTCA



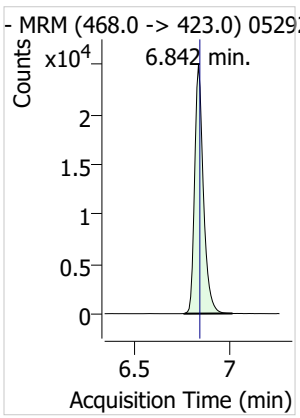
5:3FTCA

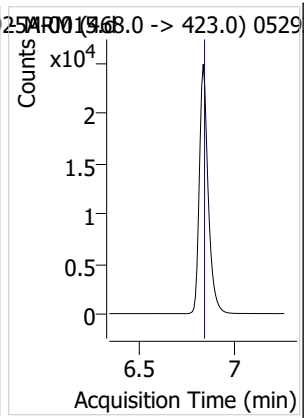


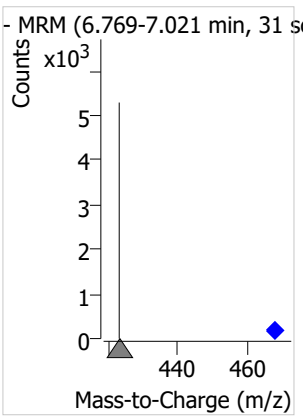
7:3FTCA



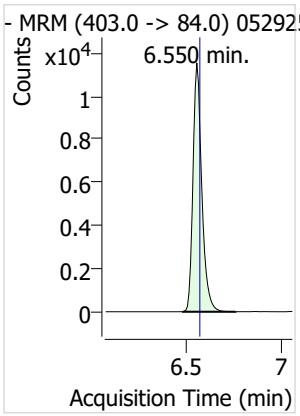
13C5-PFNA

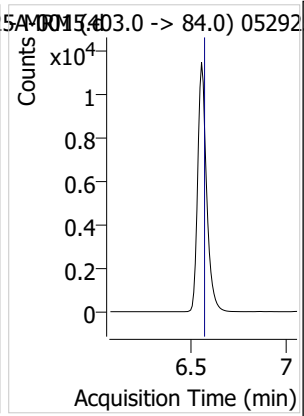


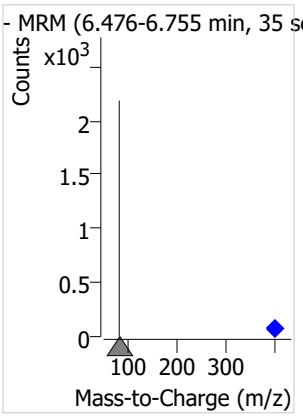




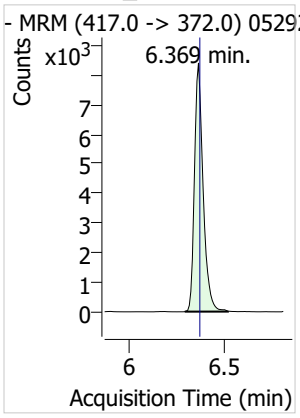
18O2-PFHxS

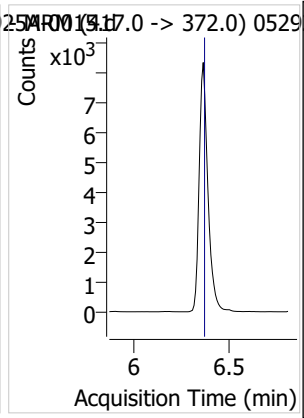


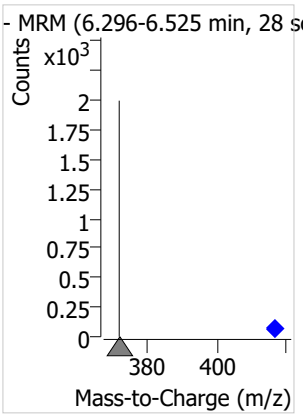




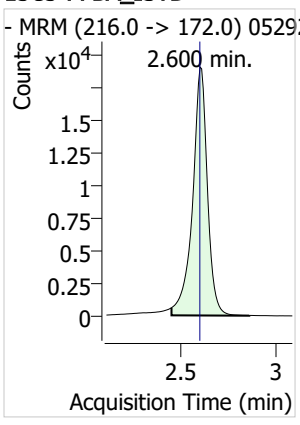
13C4-PFOA_ISTD

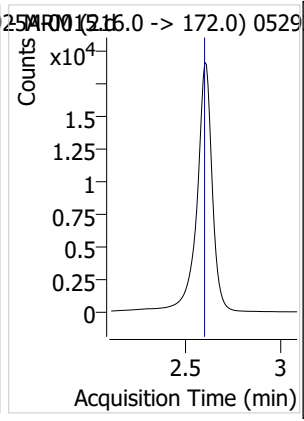


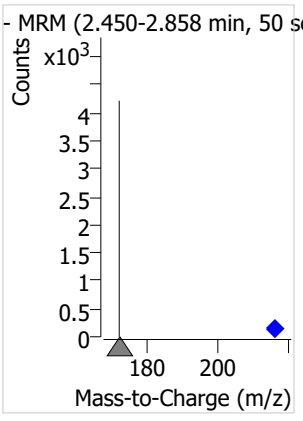




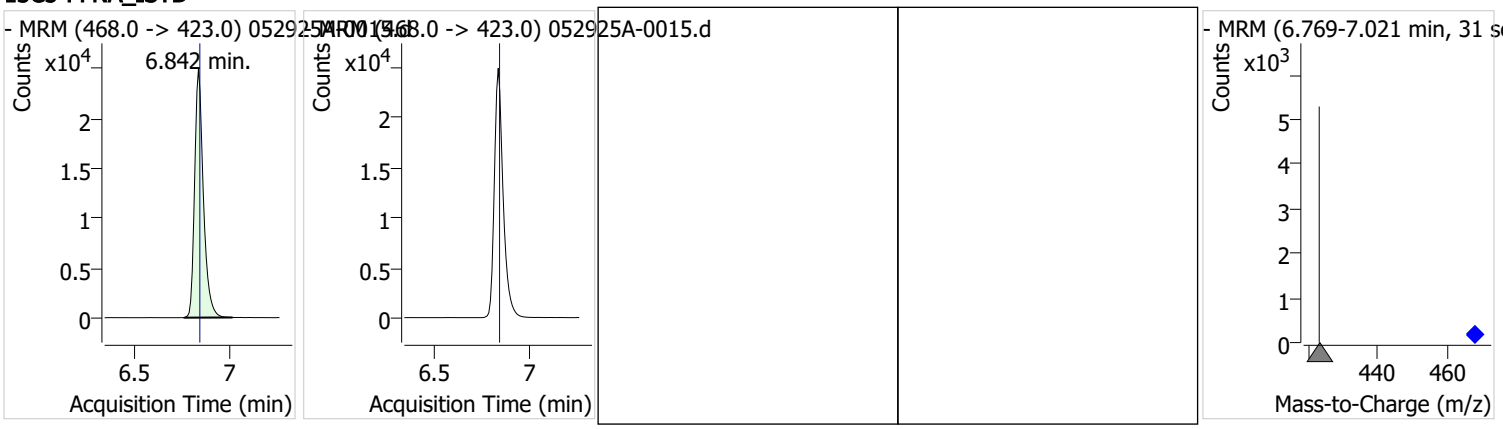
13C3-PFBA_ISTD



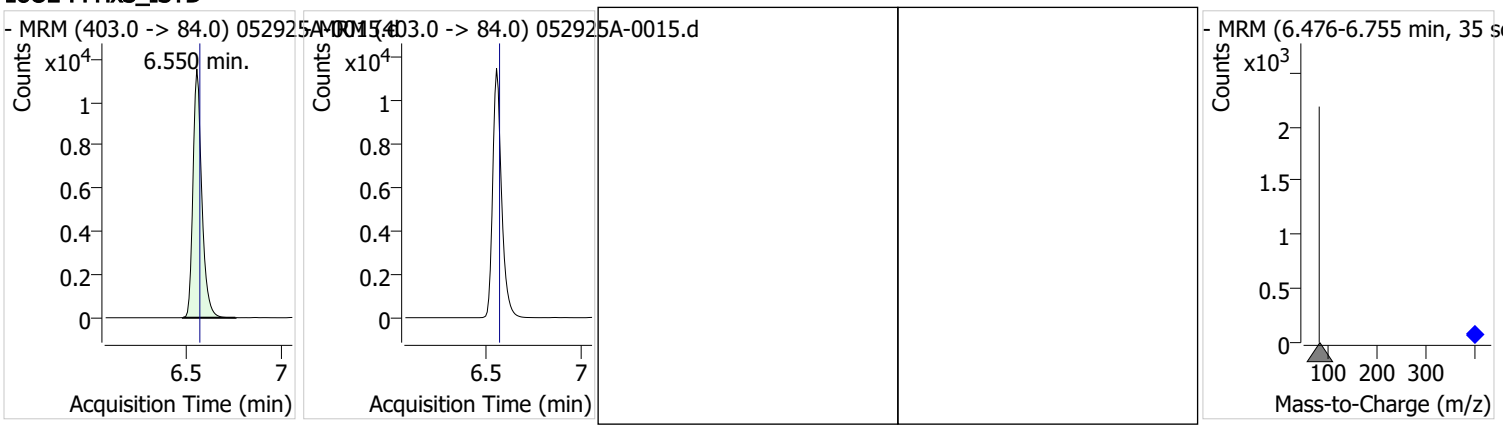




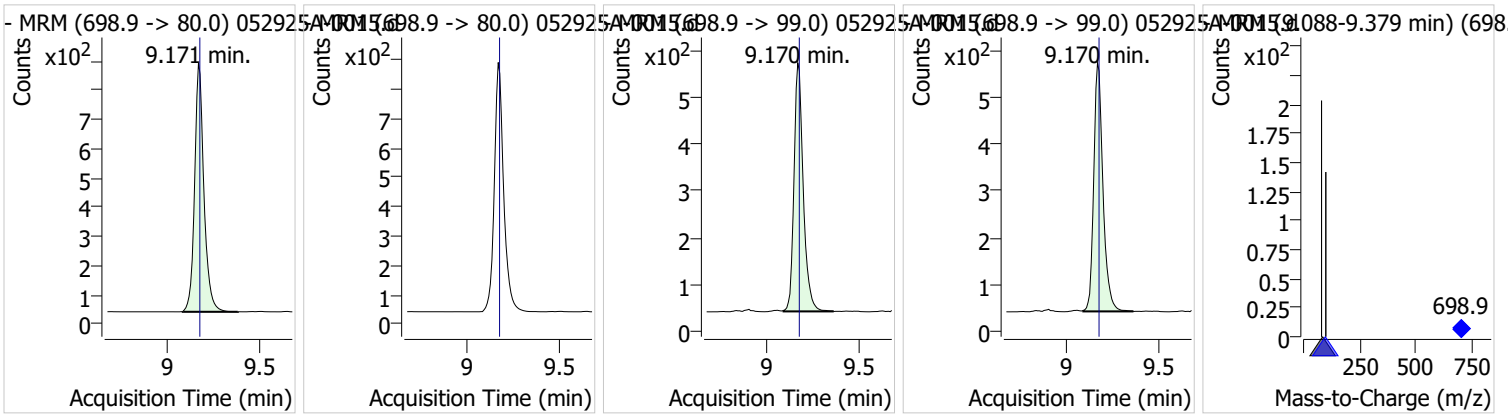
13C5-PFNA_ISTD



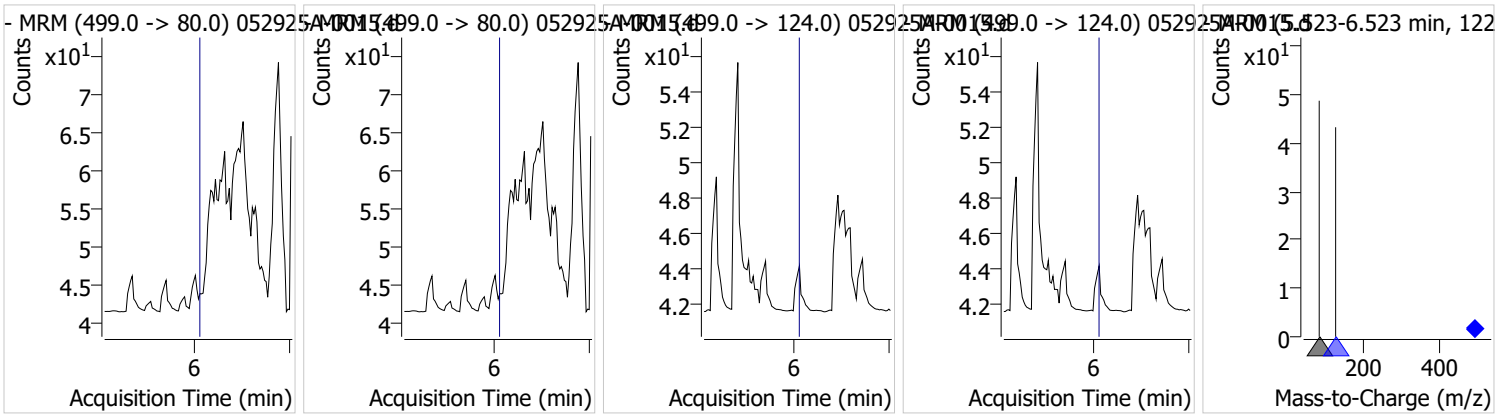
18O2-PFHxS_ISTD



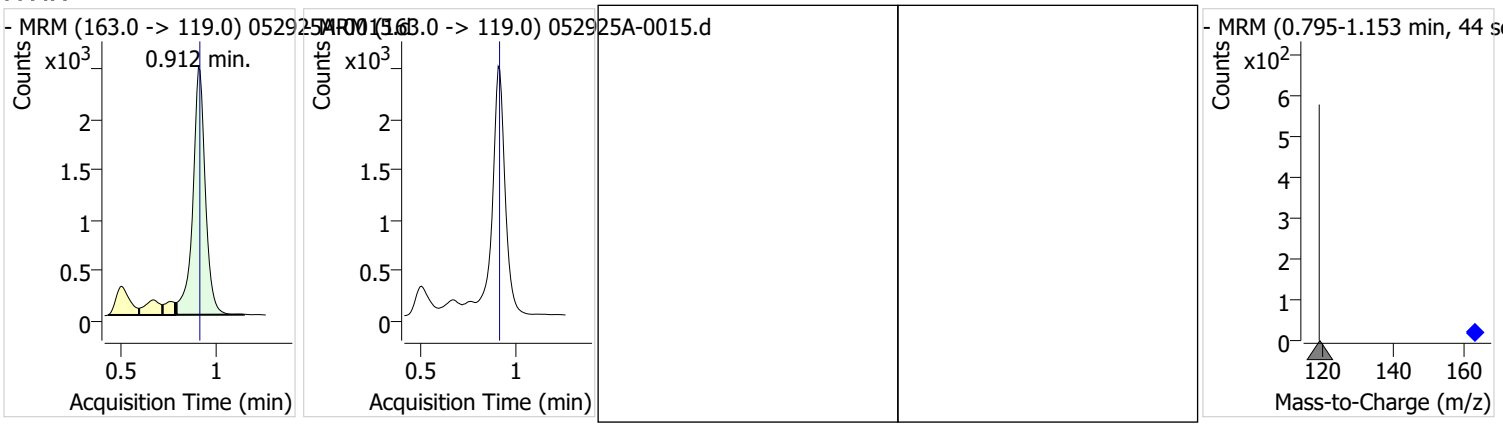
PFDoS



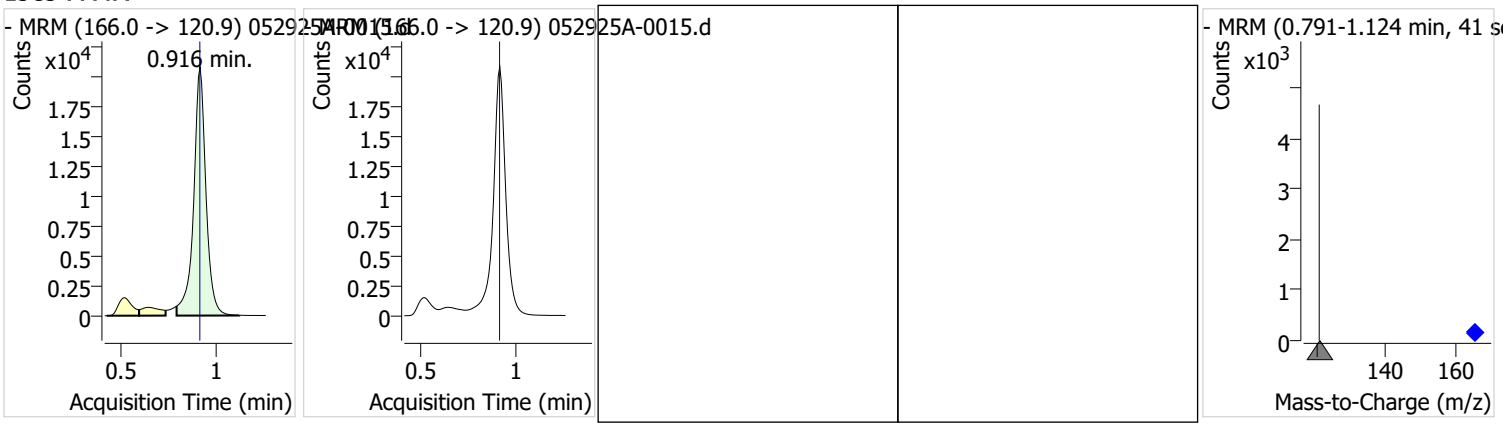
TDCA



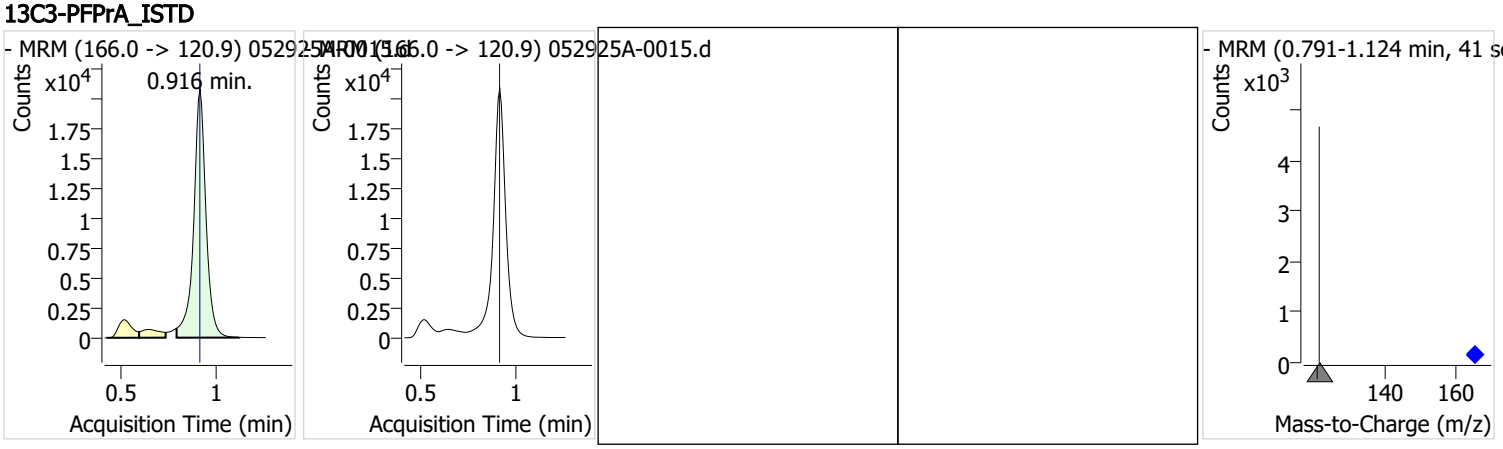
PFPrA



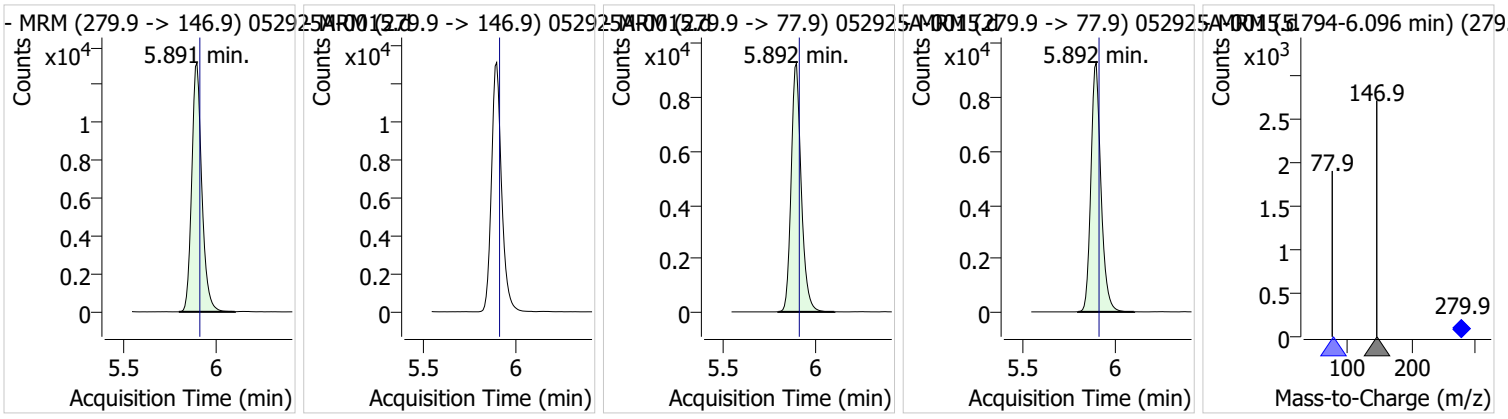
13C3-PFPrA



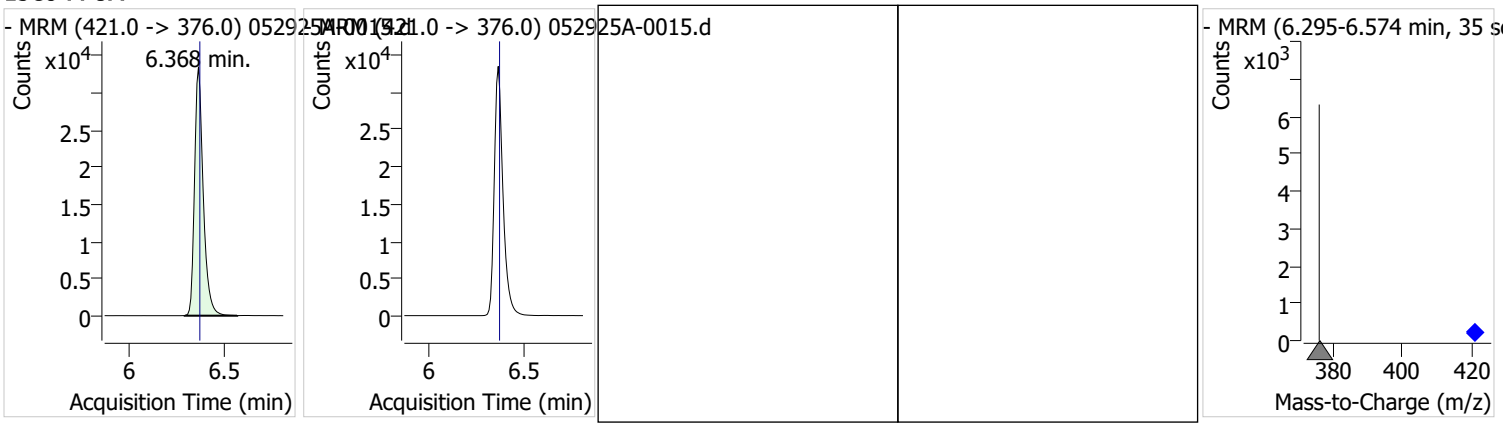
13C3-PFPrA_ISTD



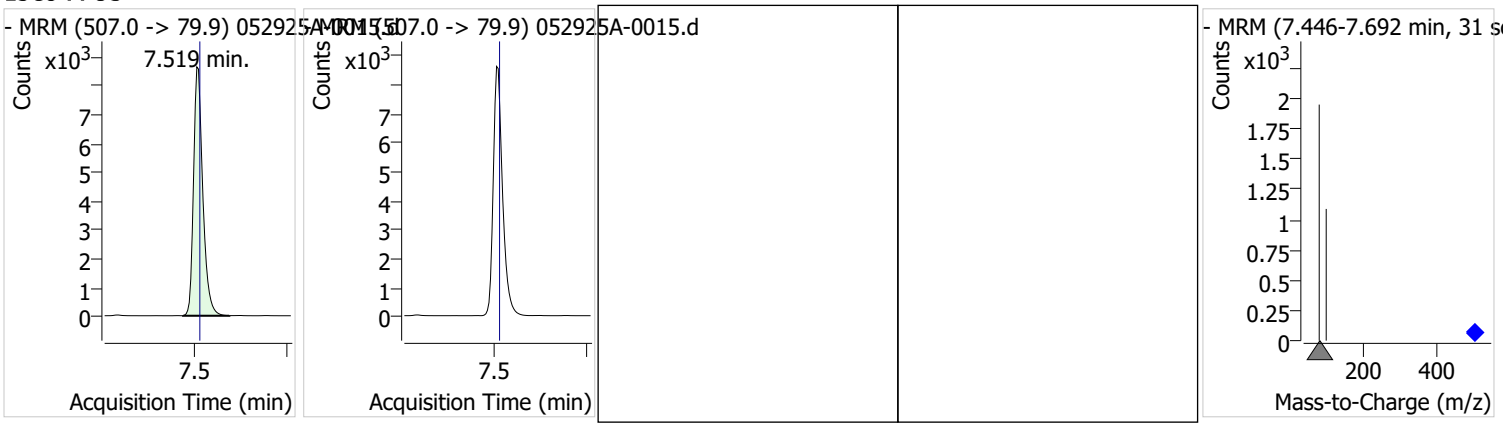
TFSI



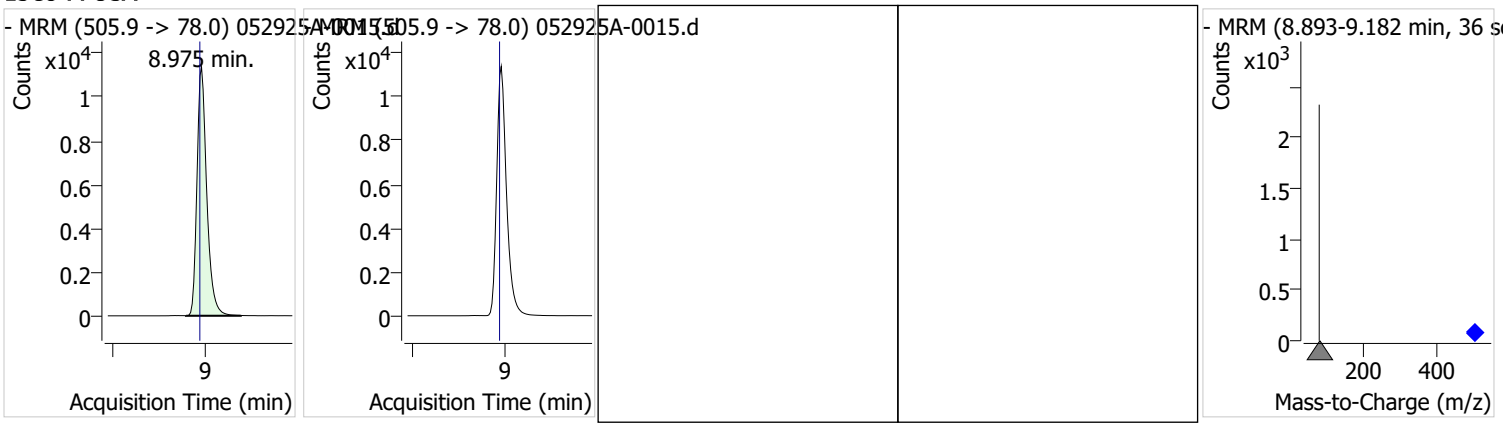
13C8-PFOA



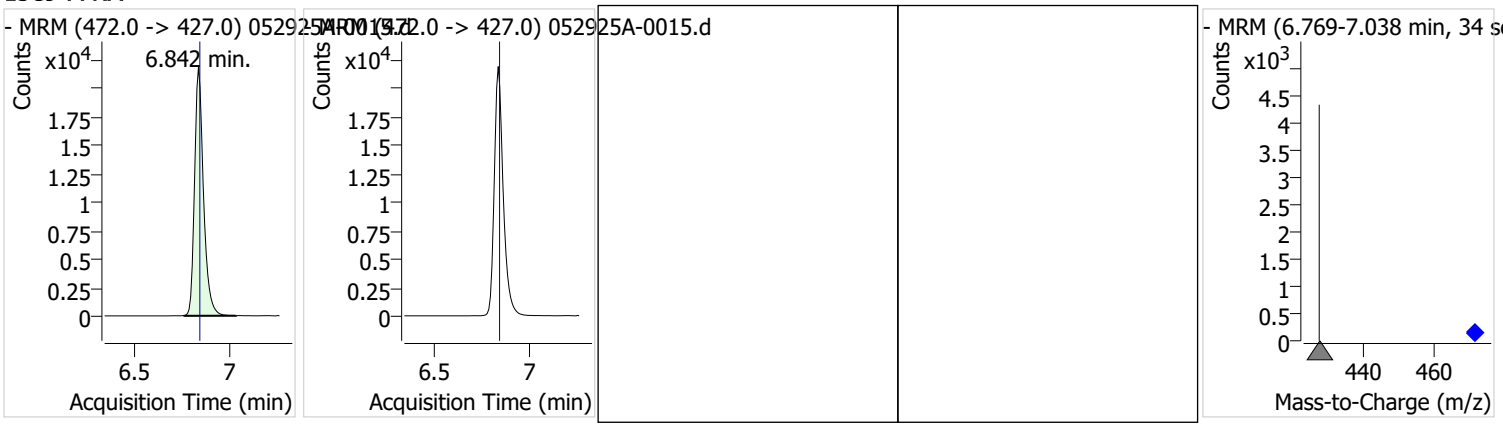
13C8-PFOS



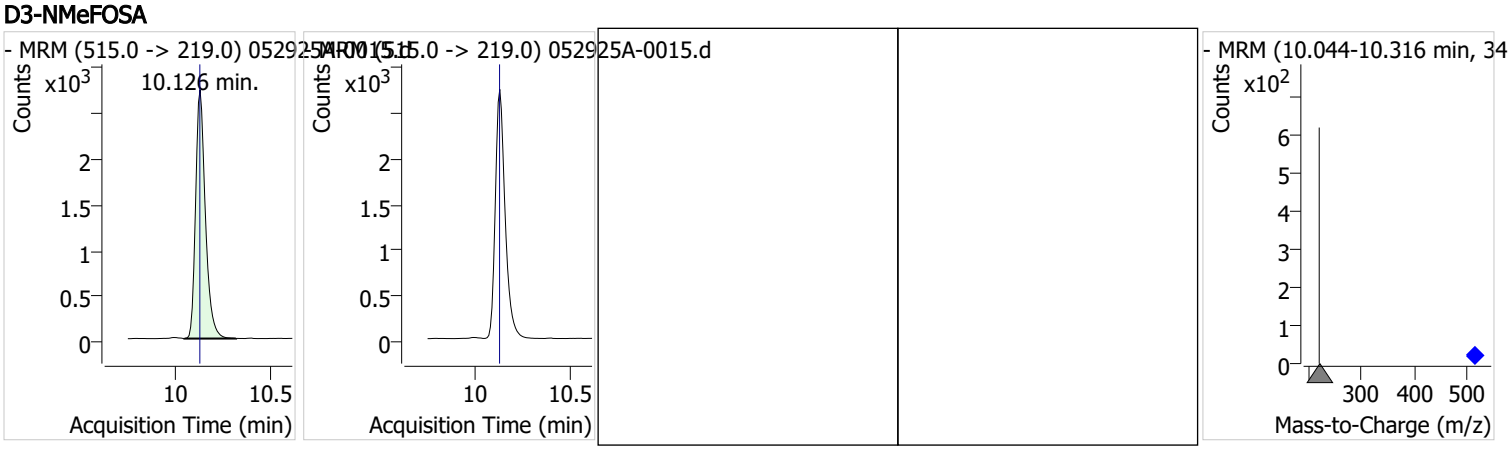
13C8-PFOSA



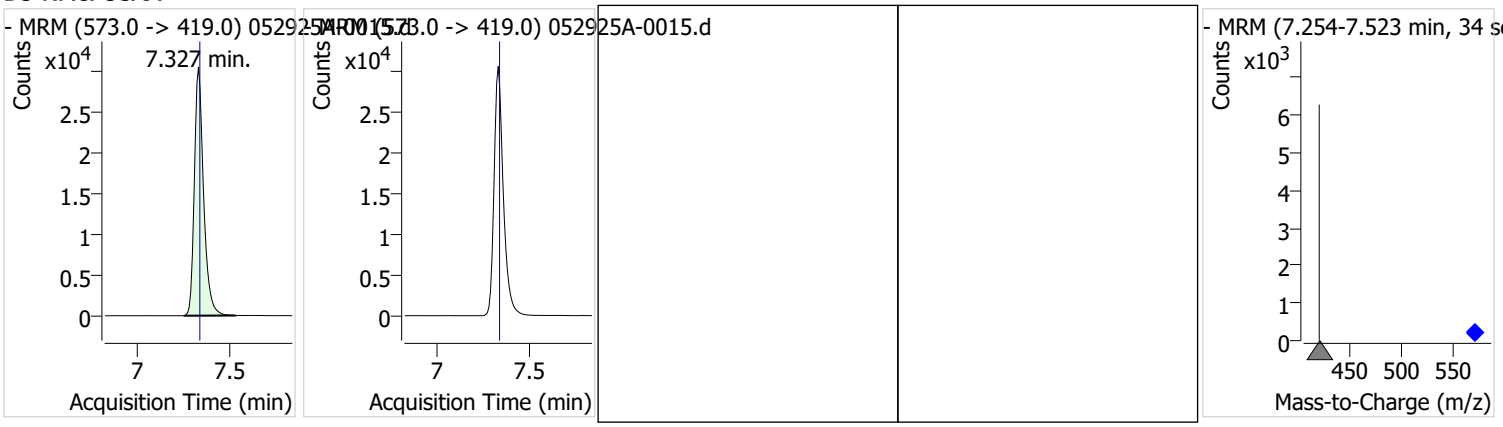
13C9-PFNA



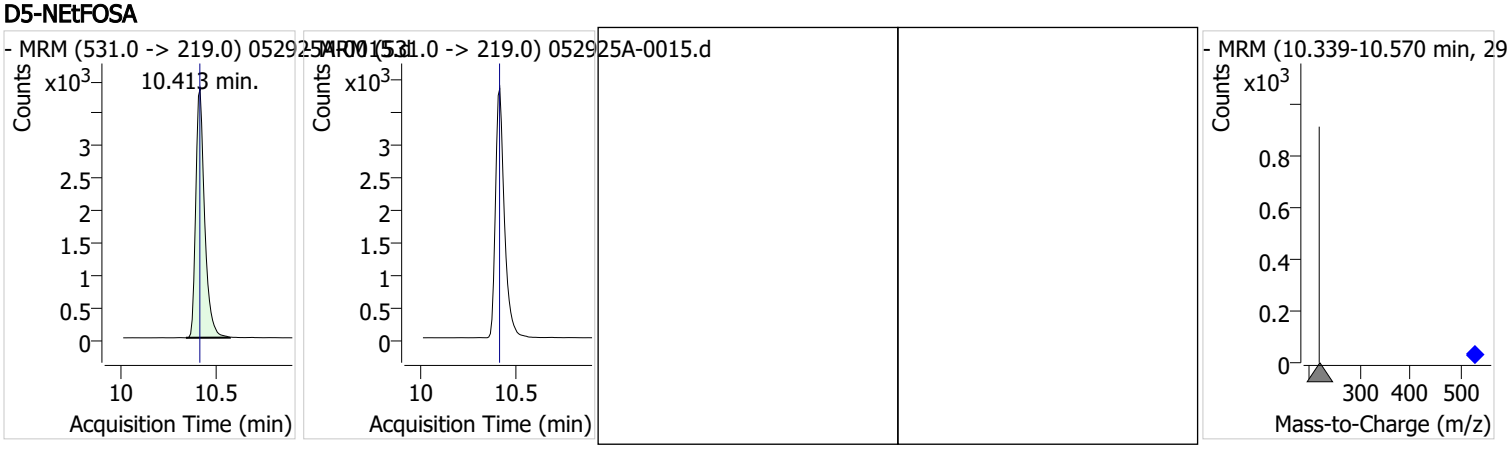
D3-NMeFOSA



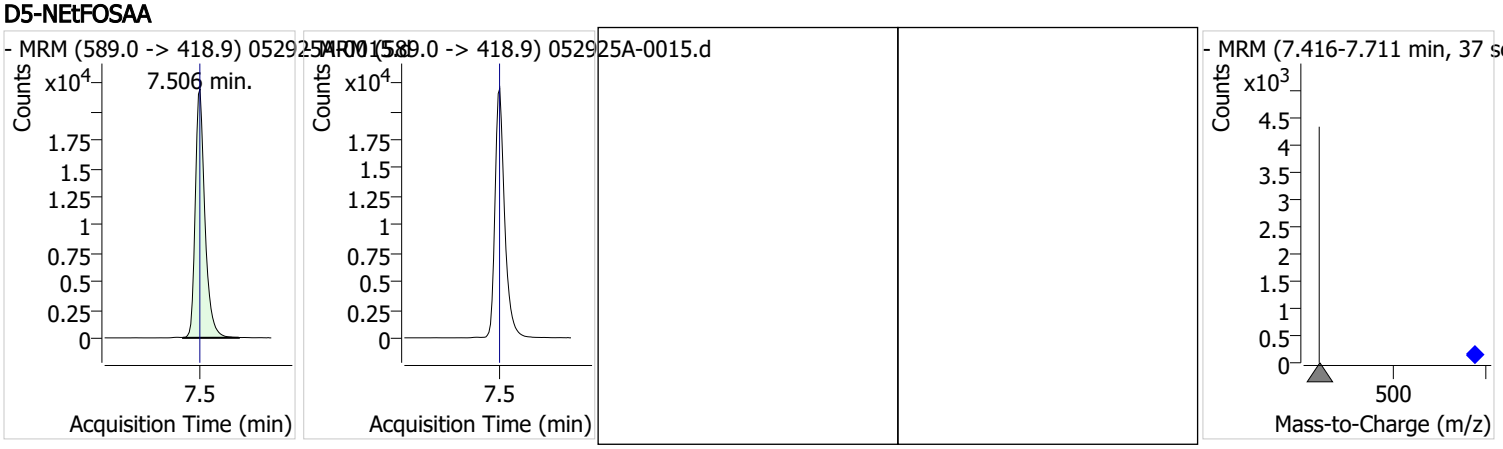
D3-NMeFOSAA



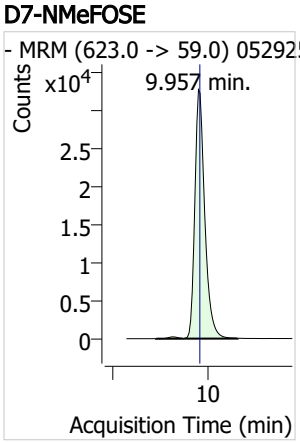
D5-NEtFOSA

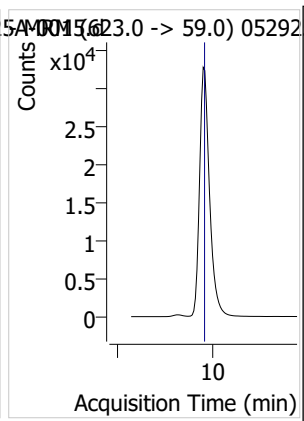


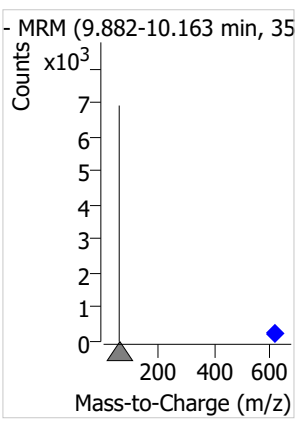
D5-NEtFOSAA



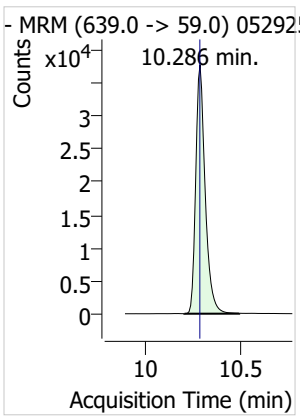
D7-NMeFOSE

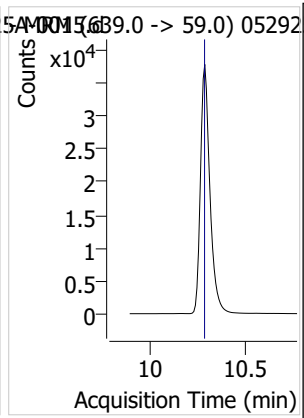


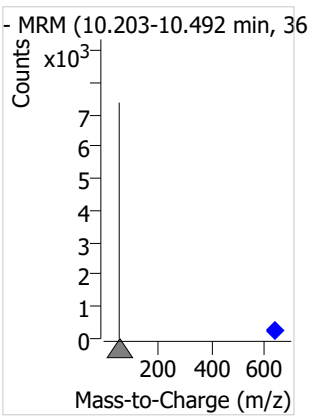




D9-NEtFOSE

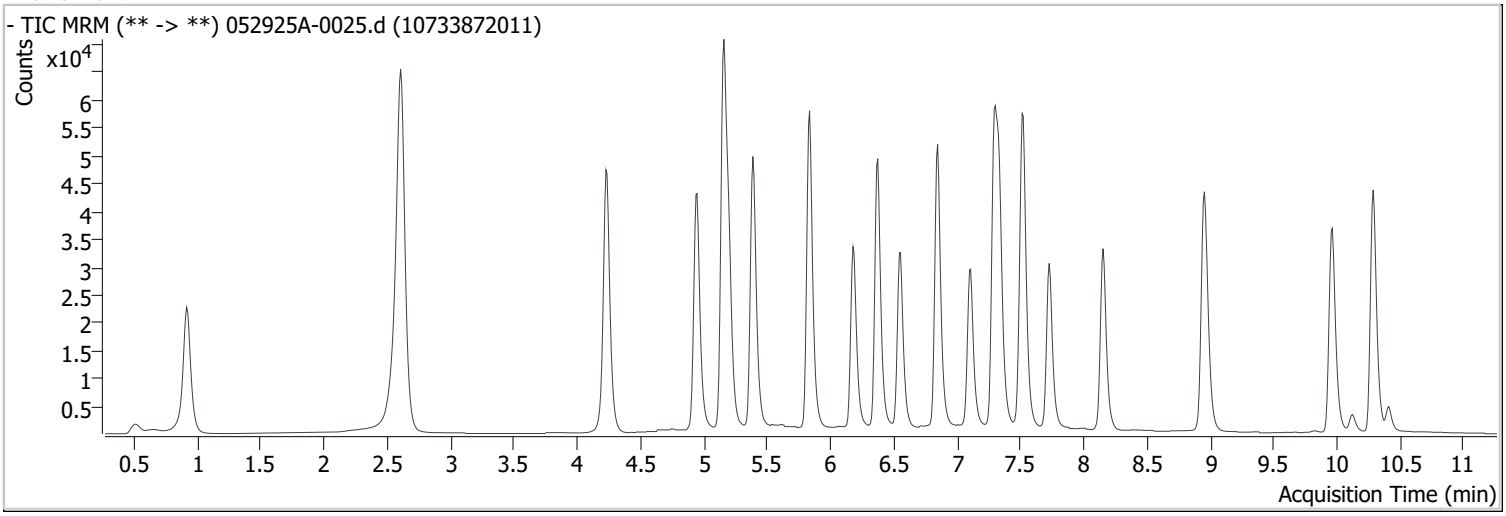






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-B 6320.batch.bin		
Analysis Time	5/30/2025 12:34 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 3:49 PM	**Data File**	052925A-0025.d
Sample Type	Sample	**Sample Name**	10733872011
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6367	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	105453	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	45068	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	31966	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	184667	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	29517	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	245334	1567.50		13C3-PFBA_ISTD	2.608	107493	9.3773	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.528	36111	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.528	36111	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.528	36111	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	45068	19482.75		18O2-PFHxS_ISTD	6.559	39000	6.7112	ng/ml			
13C2-6:2FTS	6.180	31966	100981.99		18O2-PFHxS_ISTD	6.559	39000	6.3179	ng/ml			
13C2-8:2FTS	7.100	29517	116730.95		18O2-PFHxS_ISTD	6.559	39000	5.8119	ng/ml			
13C2-PFDoA	8.154	109483	32634.66		13C2-PFDA_ISTD	7.298	82964	1.0562	ng/ml			
13C2-PFDA	7.298	82964	140046.41					1.7064	ng/ml			
13C2-PFHxA	5.162	105675	8212.60					3.4285	ng/ml			
13C2-PFTeDA	8.944	118918	13096.29		13C2-PFDA_ISTD	7.298	82964	1.0210	ng/ml			
13C4-PFOS	7.529	39831	9928.60					3.6134	ng/ml			
13C3-HFPODA	5.394	105453	13680.55		13C2-PFHxA_ISTD	5.162	105675	9.3398	ng/ml			
13C3-PFBS	5.205	63195	10922.45		18O2-PFHxS_ISTD	6.559	39000	2.3734	ng/ml			
13C3-PFHxS	6.551	44367	189749.39		18O2-PFHxS_ISTD	6.559	39000	2.4608	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.506	89374	-	ng/ml			
584.0 -> 526.0				*								

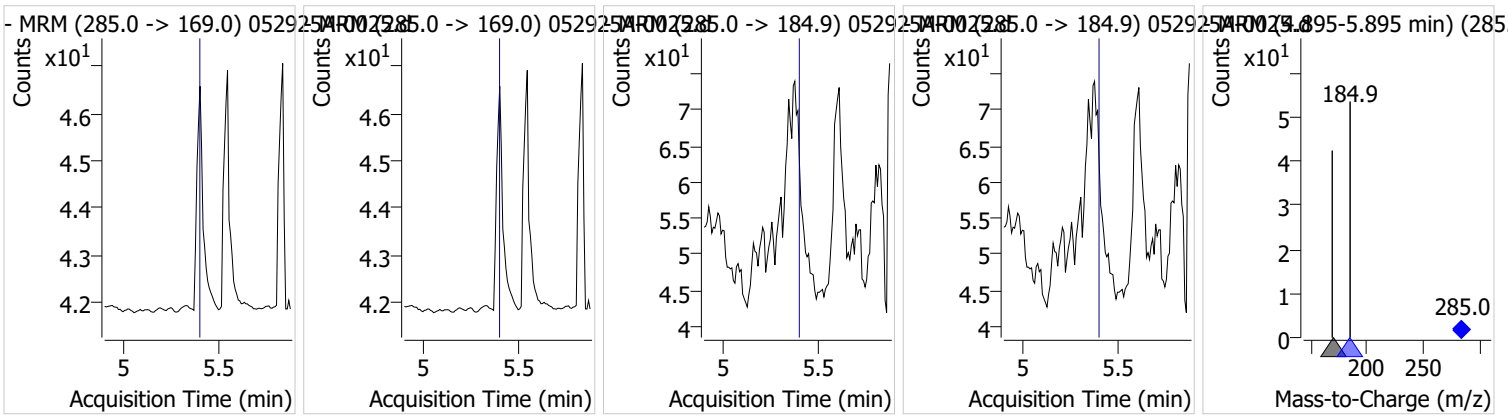
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	184667	56671.23		13C2-PFHxA_ISTD	5.162	105675	2.4608	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.336	121414	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.606	245334	-	ng/ml			
13C5-PFHxA	5.161	111606	33032.74		13C2-PFHxA_ISTD	5.162	105675	2.3791	ng/ml			
PFBS					13C3-PFBS_ISTD	5.205	63195	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.126	10544	-	ng/ml			
512.0 -> 169.0				*								
PFDA	7.216	0	0.00		13C6-PFDA_ISTD	7.297	88552	-	ng/ml	✔	INT	NBH 5/30/25
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.154	109483	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.413	13104	-	ng/ml			
526.0 -> 169.0				*								
PFHpA	5.831	372	3.48		13C4-PFHpA_ISTD	5.839	184667	0.0045	ng/ml			
362.9 -> 169.0	5.823	32	36.57	8.6								
PFHxA	5.179	0	0.00		13C5-PFHxA_ISTD	5.161	111606	-	ng/ml	✔	INT	NBH 5/30/25
313.0 -> 118.9				*								
NMeFOSE					D7-NMeFOSE_ISTD	9.965	134588	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.551	44367	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.850	83023	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.286	152074	-	ng/ml			
PFOA	6.377	566	11.36		13C8-PFOA_ISTD	6.377	128692	0.0093	ng/ml	✔	GT	NBH 5/30/25
413.0 -> 169.0	6.369	126	30.56	22.2								
PFOS	7.399	487	42.71		13C8-PFOS_ISTD	7.528	36111	0.0228	ng/ml			
499.0 -> 99.0	7.402	299	54.60	61.5								
PFPeA					13C5-PFPeA_ISTD	4.229	177431	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	245334	-	ng/ml			
13C5-PFPeA	4.229	177431	9713.35		13C2-PFHxA_ISTD	5.162	105675	4.7409	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.229	177431	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.154	109483	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	111606	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.297	88552	23162.93		13C2-PFDA_ISTD	7.298	82964	1.1335	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	111606	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	46945	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.729	97545	29456.75		13C2-PFDA_ISTD	7.298	82964	1.1180	ng/ml			
13C4-PFOA	6.377	27024	8120.91					3.2683	ng/ml			
PFDS					13C8-PFOS_ISTD	7.528	36111	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.528	36111	-	ng/ml			
549.0 -> 98.8				*								

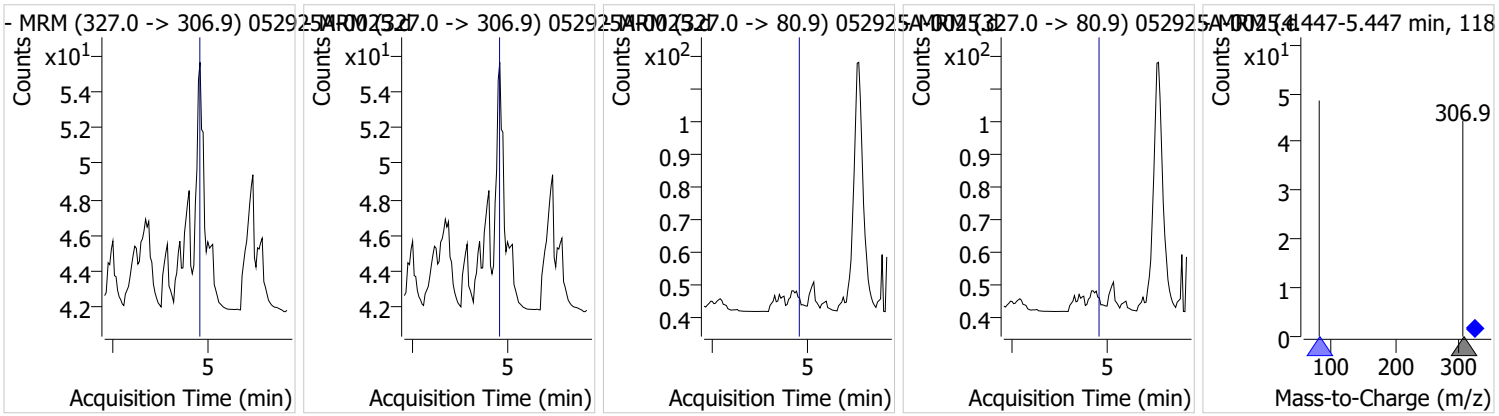
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFPeS					13C3-PFHxS_ISTD	6.551	44367	-	ng/ml			
349.0 -> 98.9				*								
PFTeDA					13C2-PFTeDA_ISTD	8.944	118918	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.729	97545	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.608	107493	1914.63					7.0782	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.229	177431	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	111606	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.850	83023	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.850	82396	25109.35					1.7423	ng/ml			
18O2-PFHxS	6.559	39000	66992.15					3.4333	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.528	36111	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.528	36111	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	0	0.00		13C3-PFPrA_ISTD	0.916	103620	-	ng/ml	✔	INT	NBH 5/30/25
13C3-PFPrA	0.916	103620	7949.68		13C3-PFBA_ISTD	2.608	107493	8.9108	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	105453	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.377	128692	4970.22		13C4-PFOA_ISTD	6.377	27024	2.5418	ng/ml			
13C8-PFOS	7.528	36111	10877.78		13C4-PFOS_ISTD	7.529	39831	2.3181	ng/ml			
13C8-PFOSA	8.975	46945	13143.10		13C4-PFOS_ISTD	7.529	39831	2.0958	ng/ml			
13C9-PFNA	6.850	83023	3119.81		13C5-PFNA_ISTD	6.850	82396	1.1404	ng/ml			
D3-NMeFOSA	10.126	10544	13763.47		13C4-PFOS_ISTD	7.529	39831	1.4775	ng/ml			
D3-NMeFOSAA	7.336	121414	35166.72		13C4-PFOS_ISTD	7.529	39831	4.9008	ng/ml			
D5-NEtFOSA	10.413	13104	2079.49		13C4-PFOS_ISTD	7.529	39831	1.5275	ng/ml			
D5-NEtFOSAA	7.506	89374	3600.35		13C4-PFOS_ISTD	7.529	39831	4.7501	ng/ml			
D7-NMeFOSE	9.965	134588	8880.79		13C4-PFOS_ISTD	7.529	39831	19.6441	ng/ml			
D9-NEtFOSE	10.286	152074	7363.59		13C4-PFOS_ISTD	7.529	39831	19.9890	ng/ml			

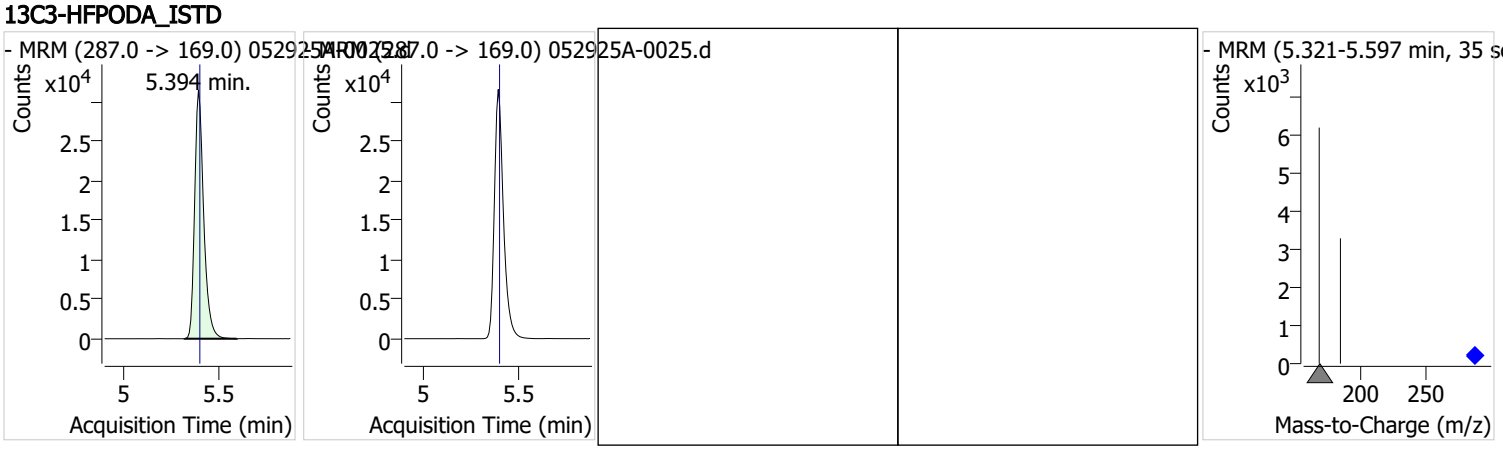
HFPO-DA



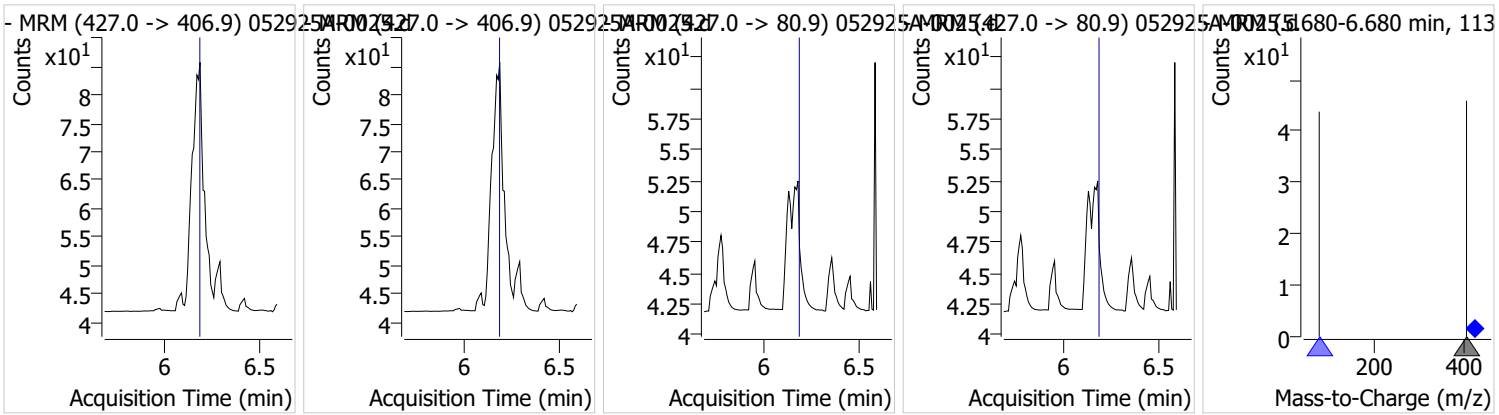
4:2FTS



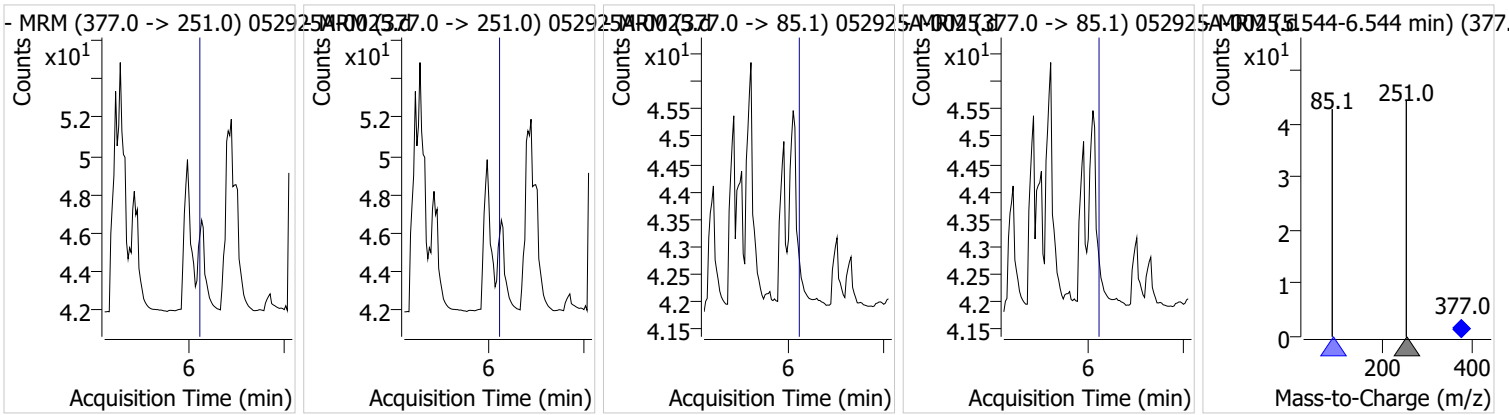
13C3-HFPODA_ISTD



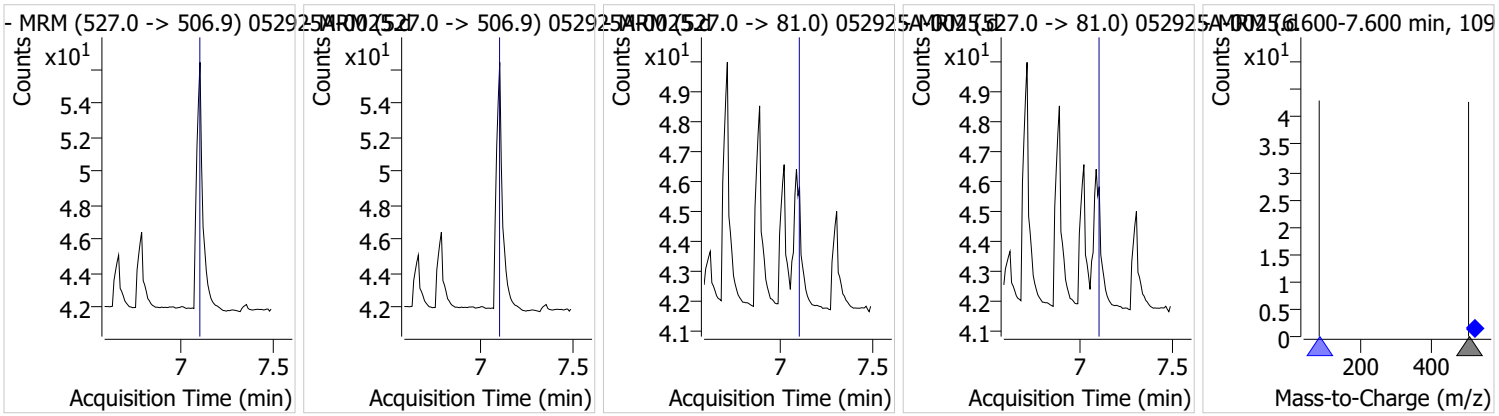
6:2FTS



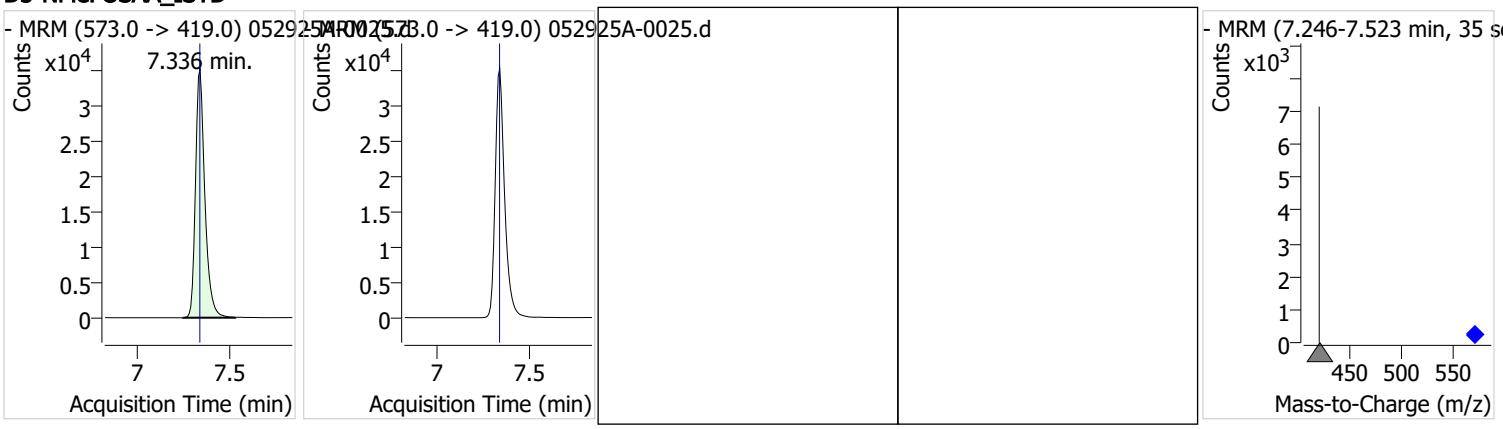
ADONA



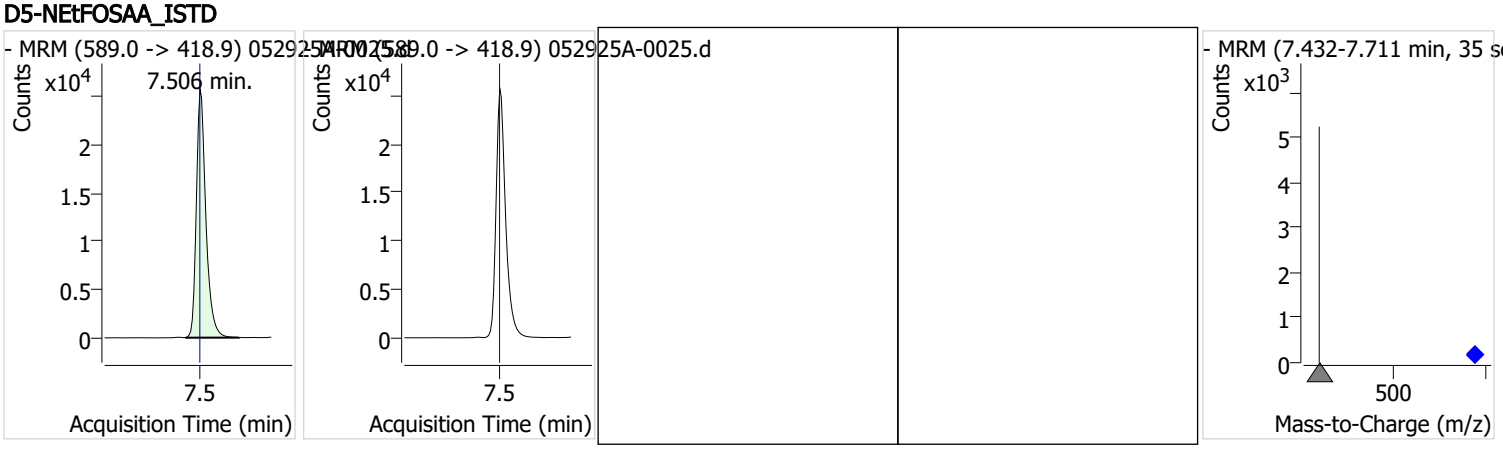
8:2FTS



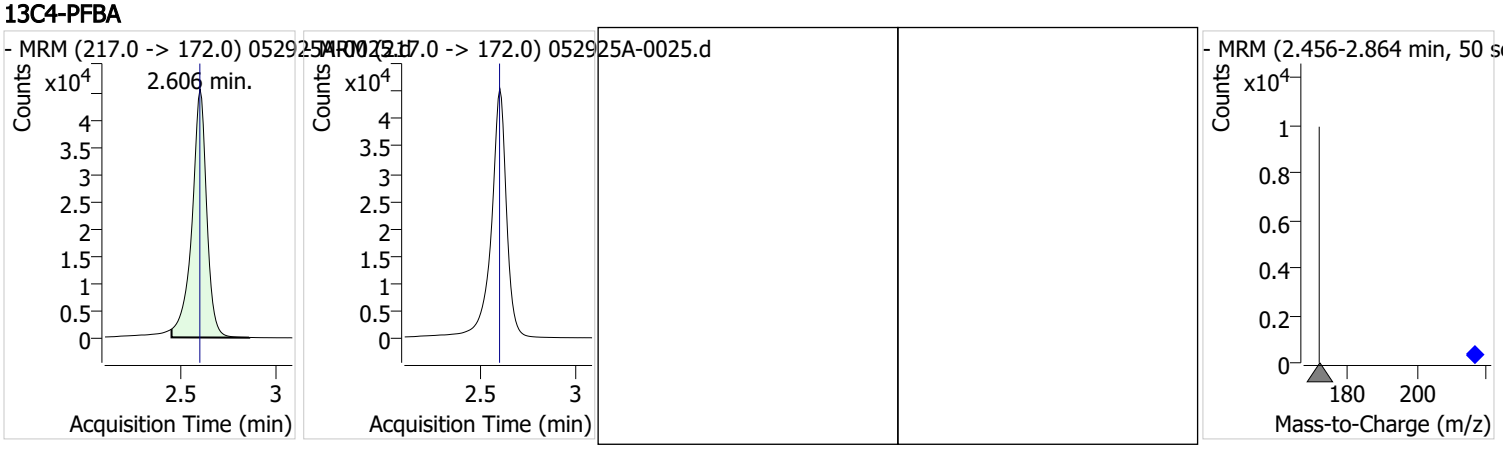
D3-NMeFOSAA_ISTD



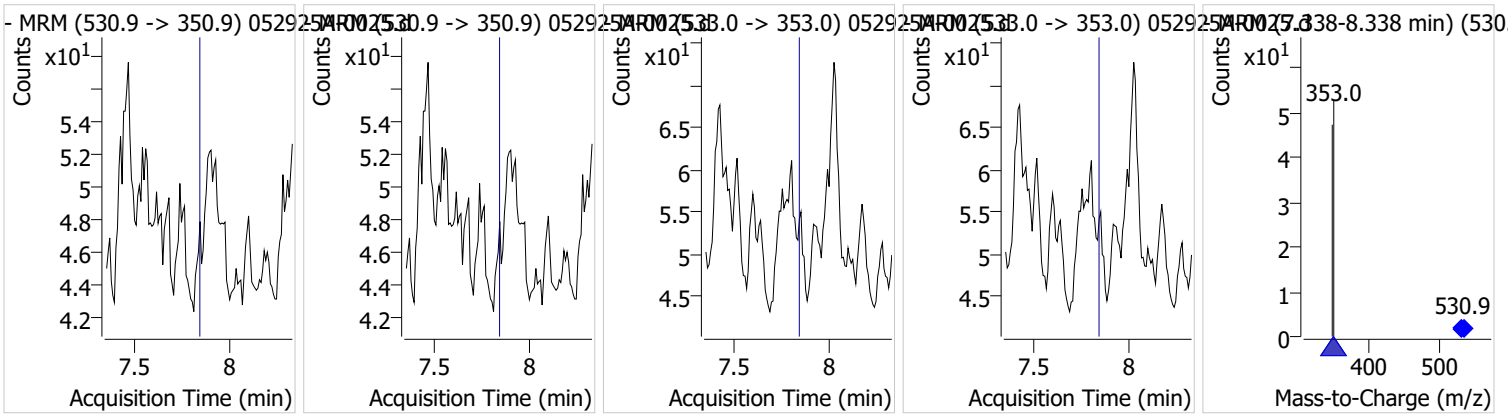
D5-NEtFOSAA_ISTD



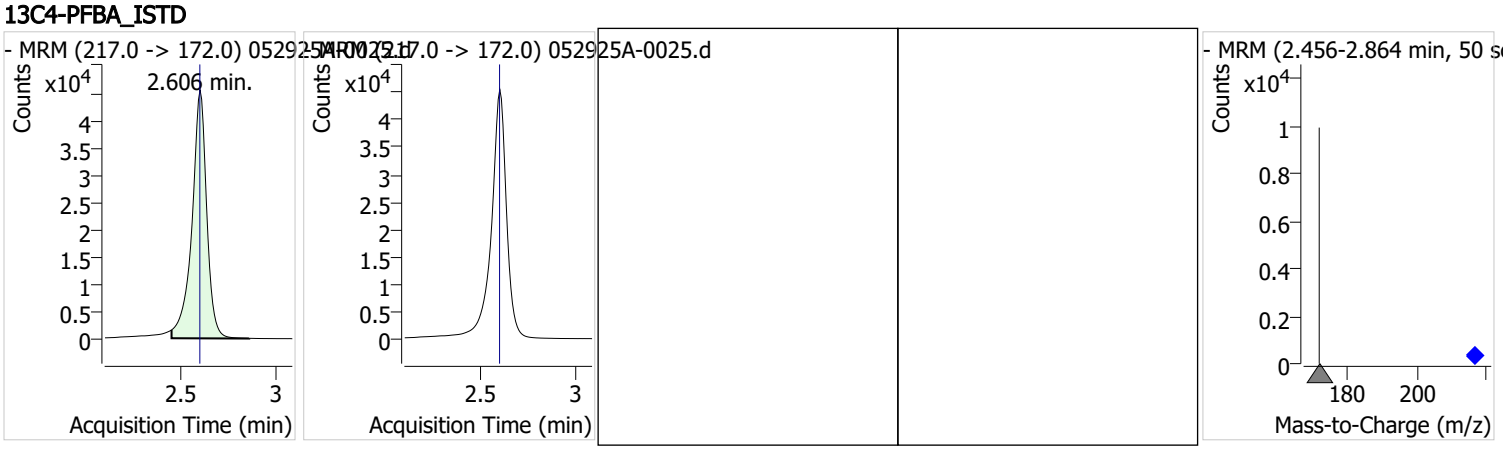
13C4-PFBA



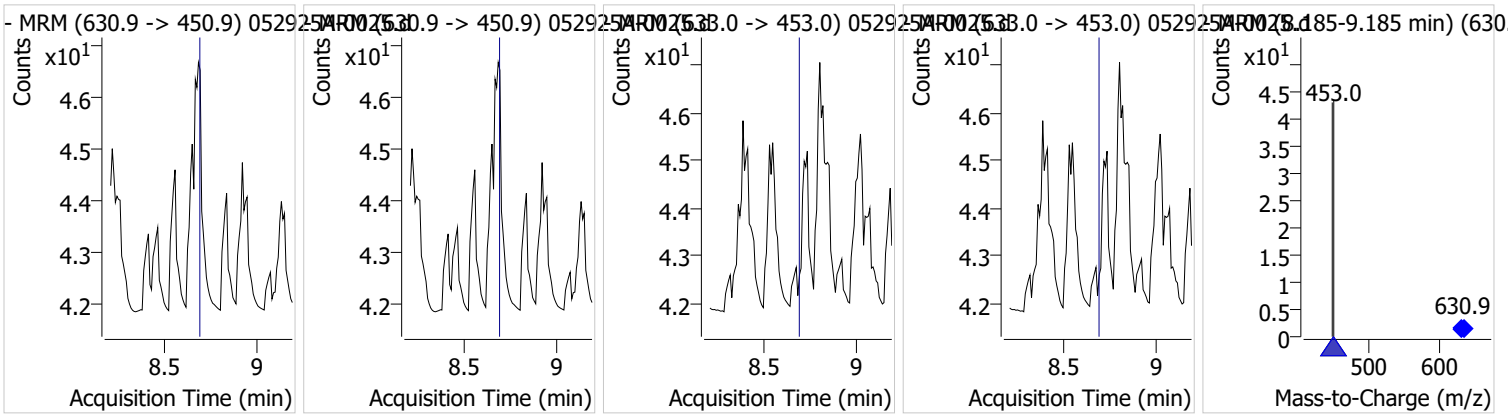
9Cl-PF3ONS



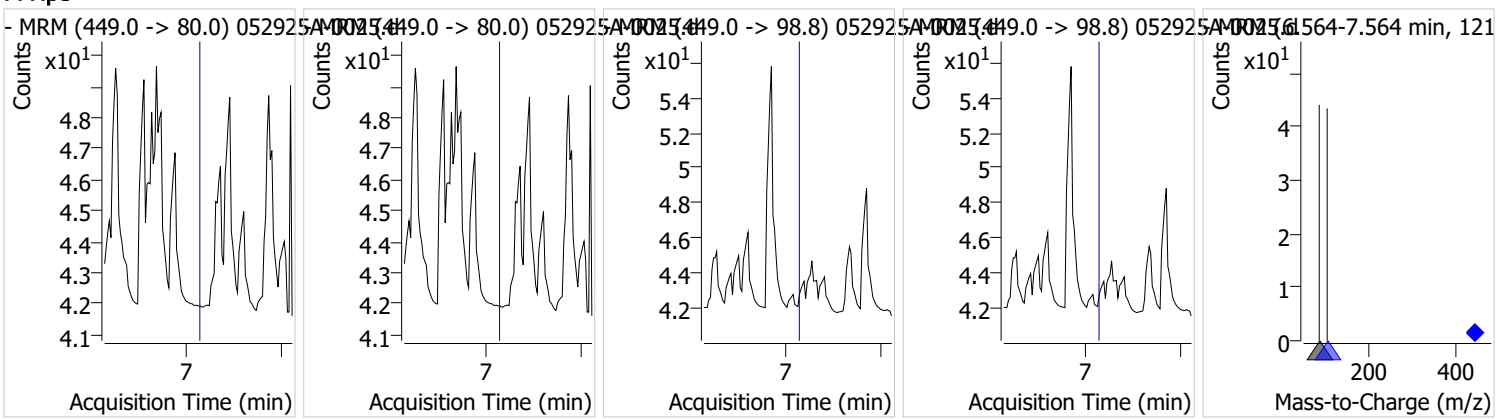
13C4-PFBA_ISTD



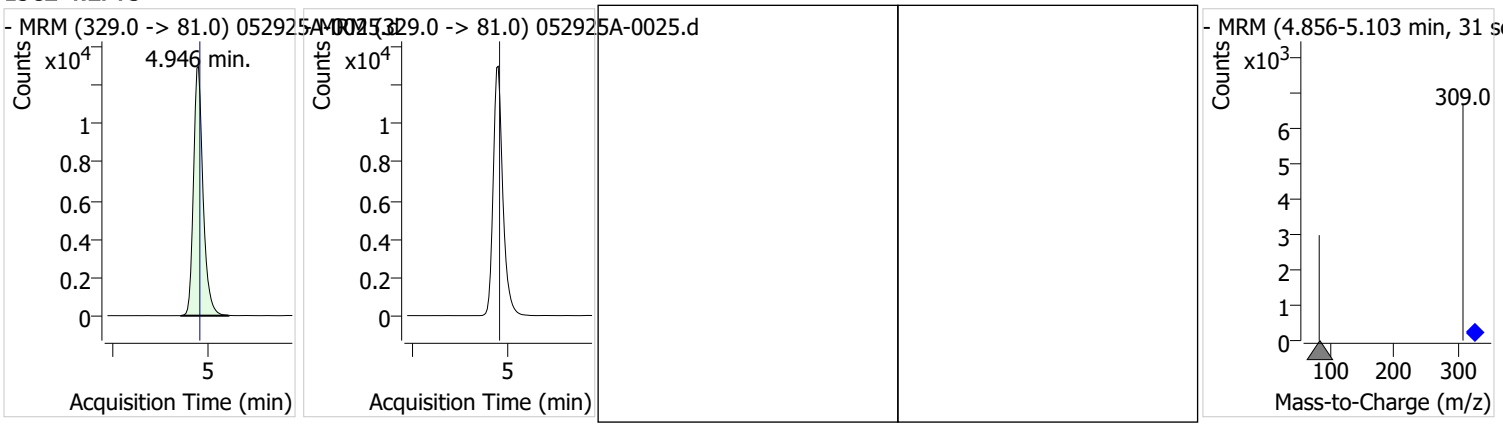
11Cl-PF3OUdS



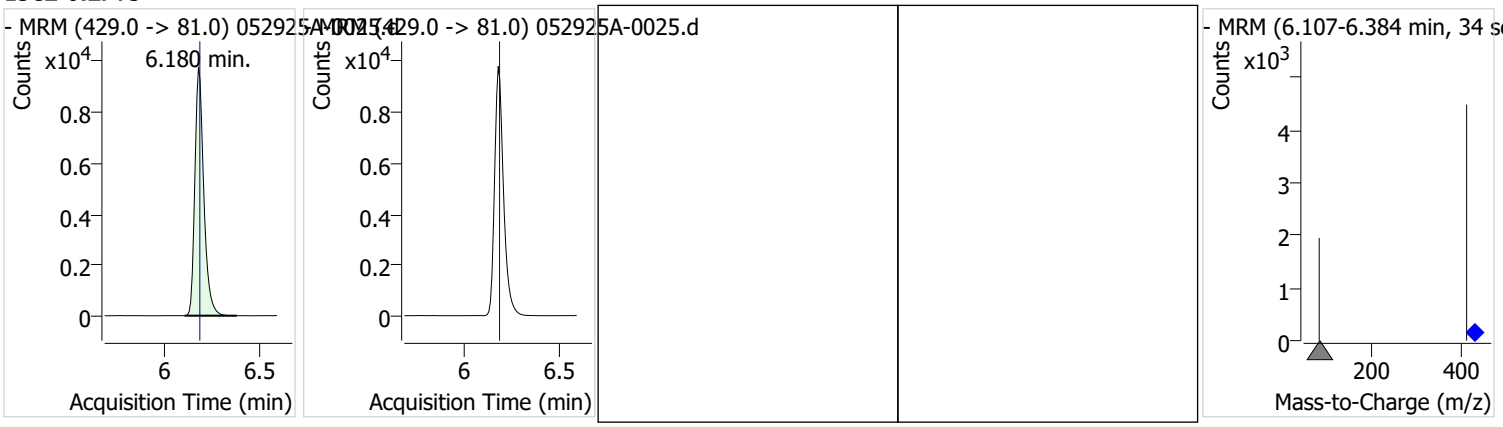
PFHpS



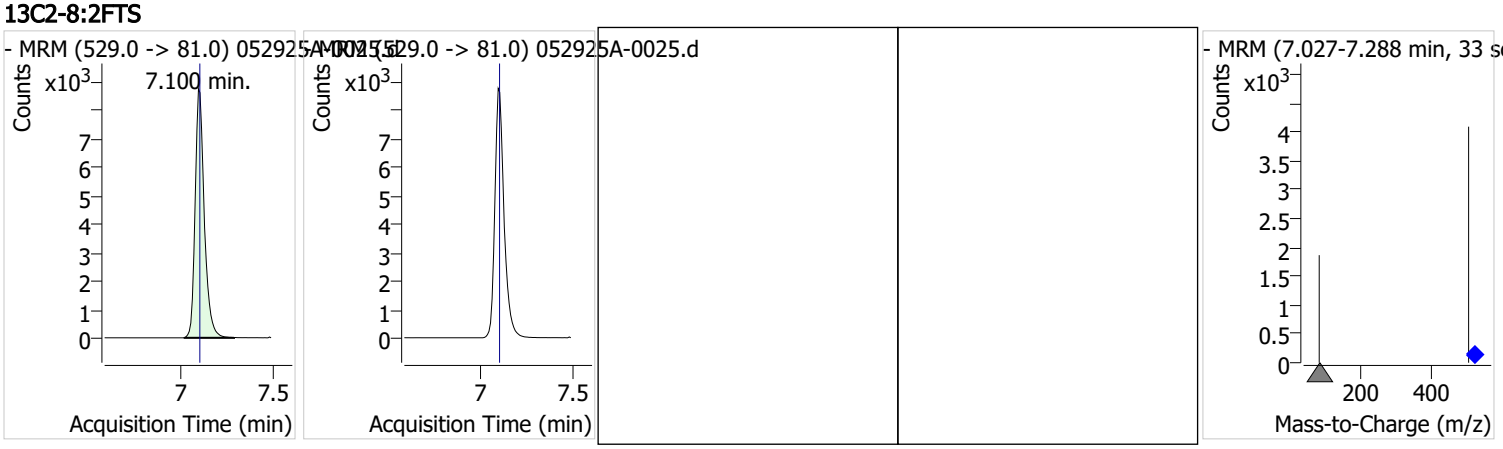
13C2-4:2FTS



13C2-6:2FTS



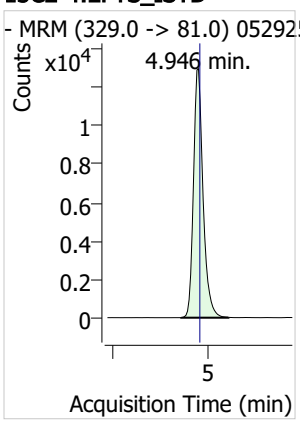
13C2-8:2FTS

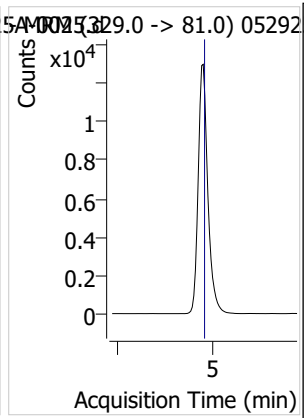


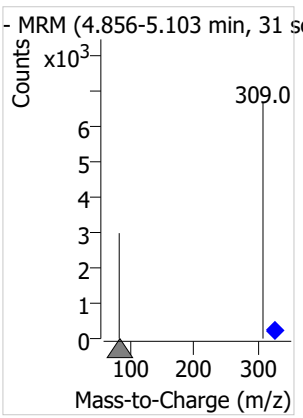
13C2-PFDoA



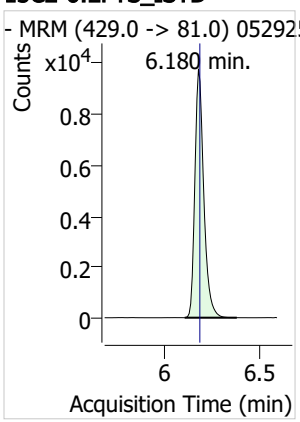
13C2-4:2FTS_ISTD

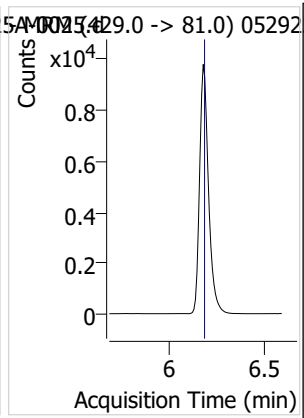


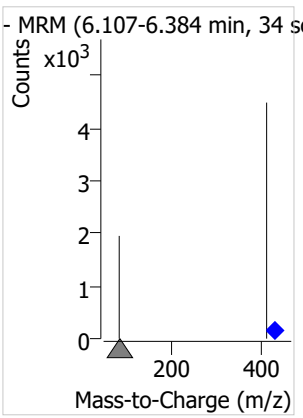




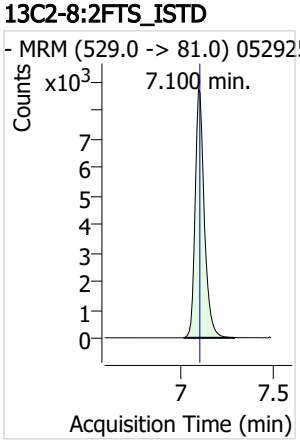
13C2-6:2FTS_ISTD

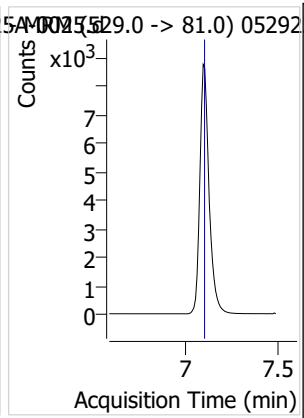


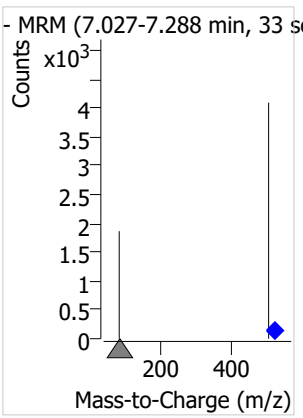




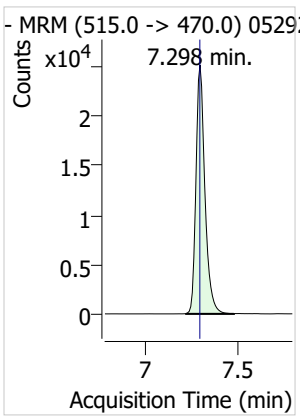
13C2-8:2FTS_ISTD

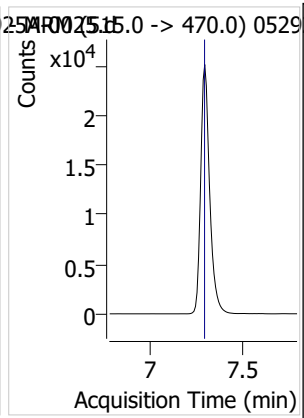


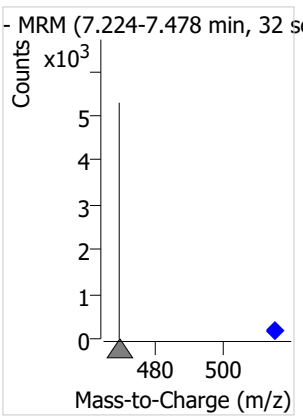




13C2-PFDA



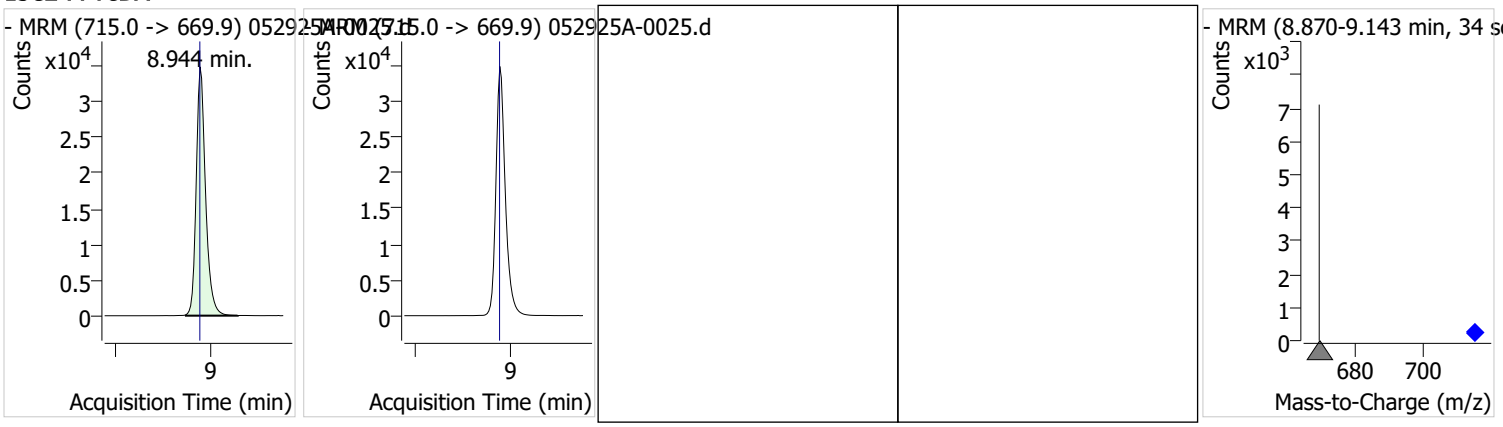




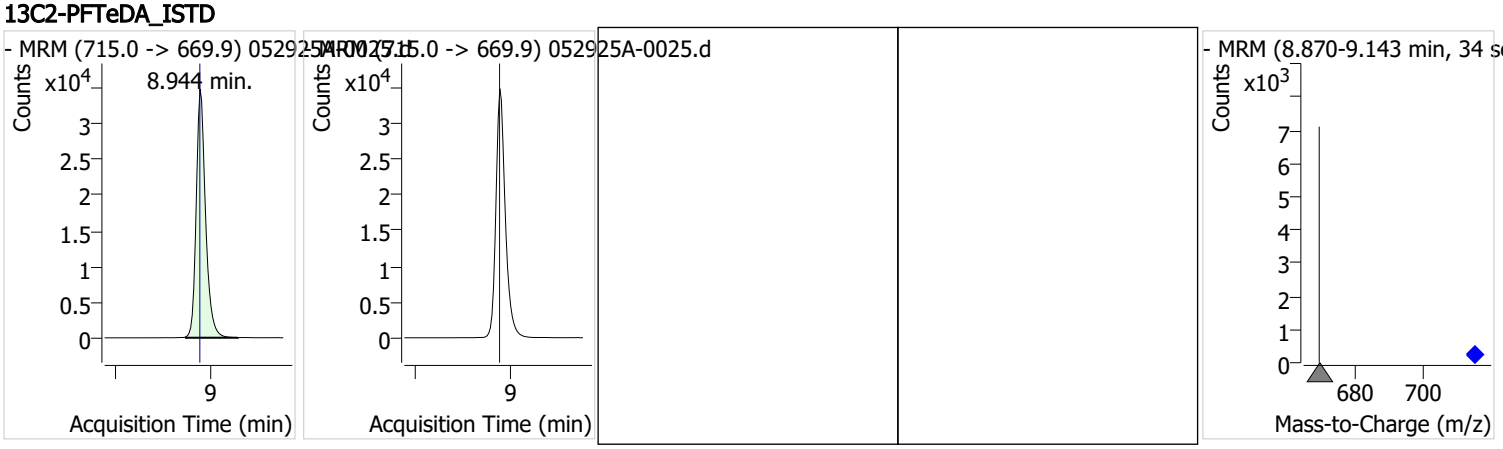
13C2-PFHxA



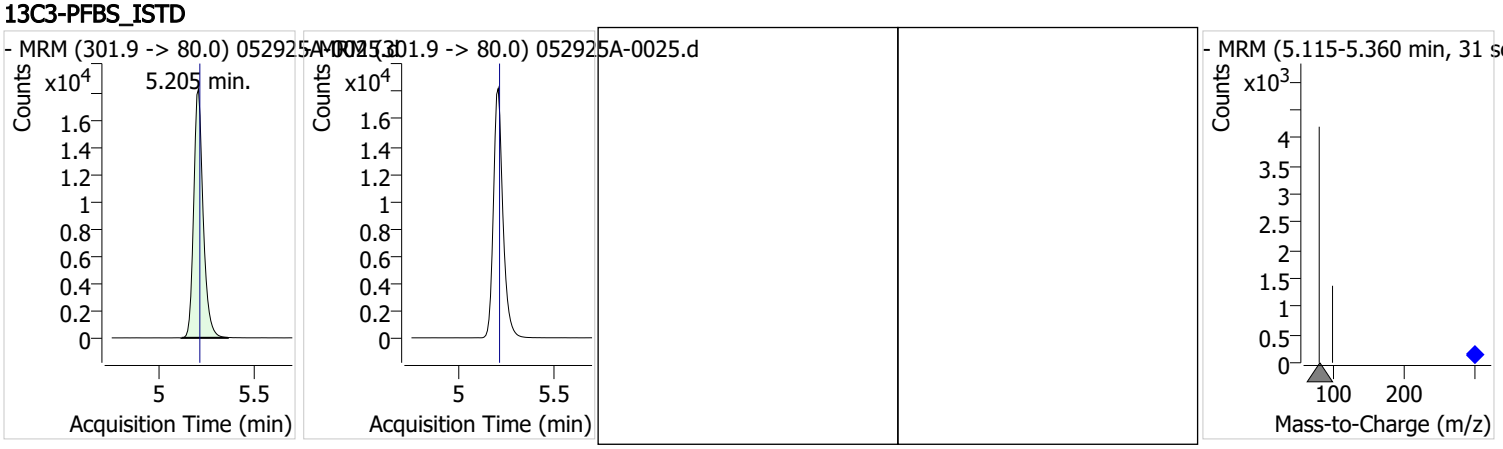
13C2-PFTeDA



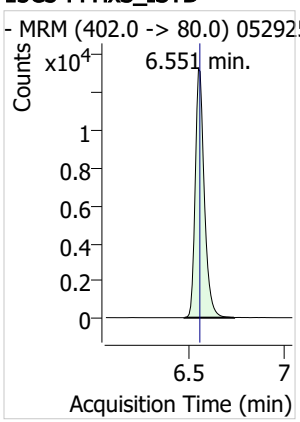
13C2-PFTeDA_ISTD

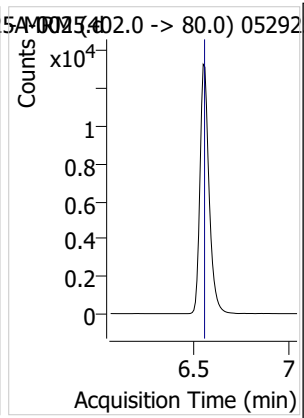


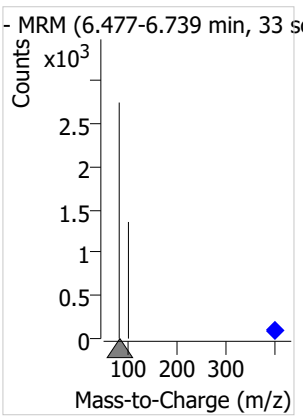
13C3-PFBS_ISTD



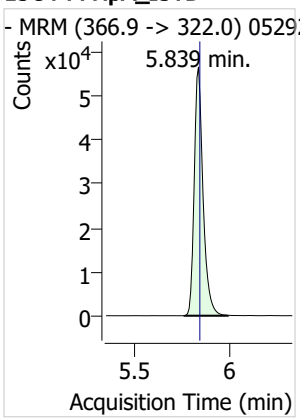
13C3-PFHxS_ISTD

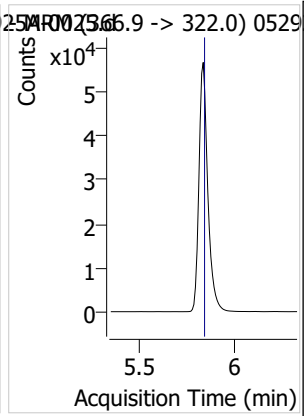


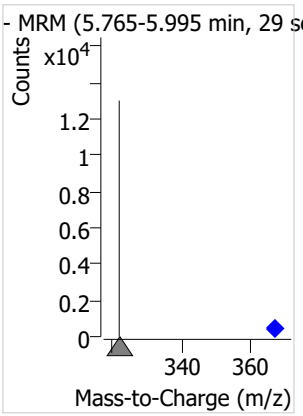




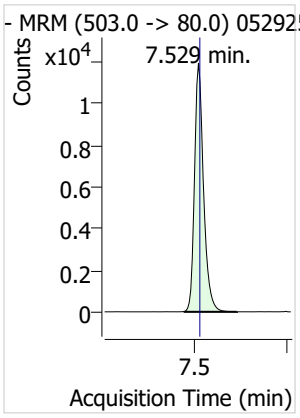
13C4-PFHpA_ISTD

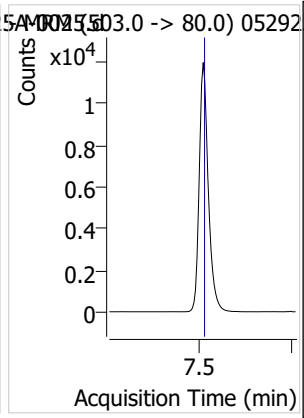


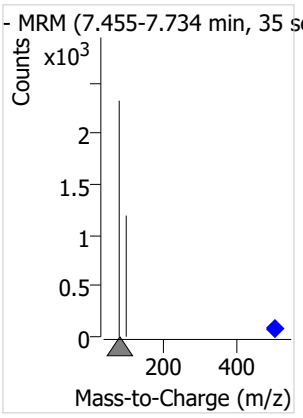




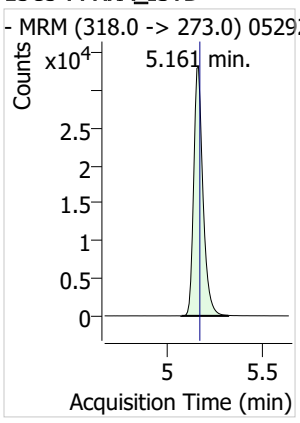
13C4-PFOS

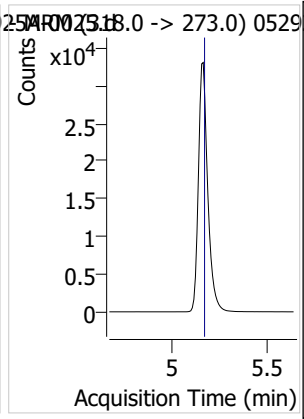


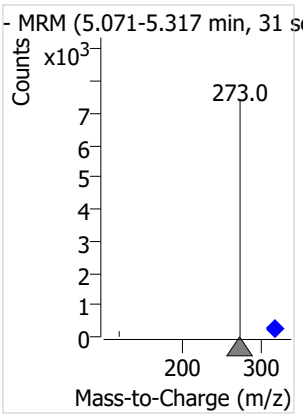




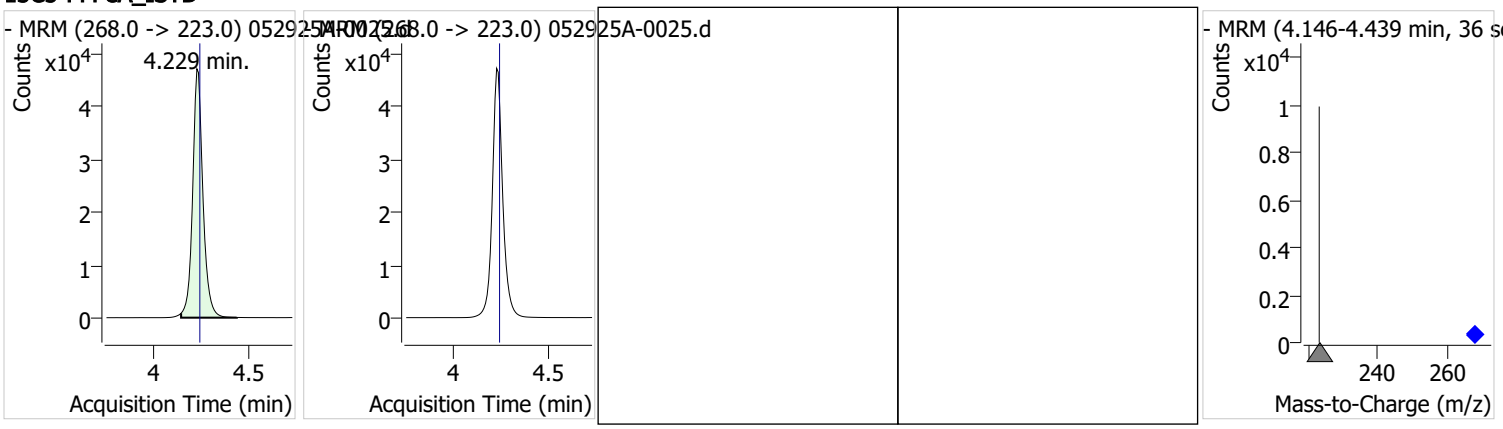
13C5-PFHxA_ISTD



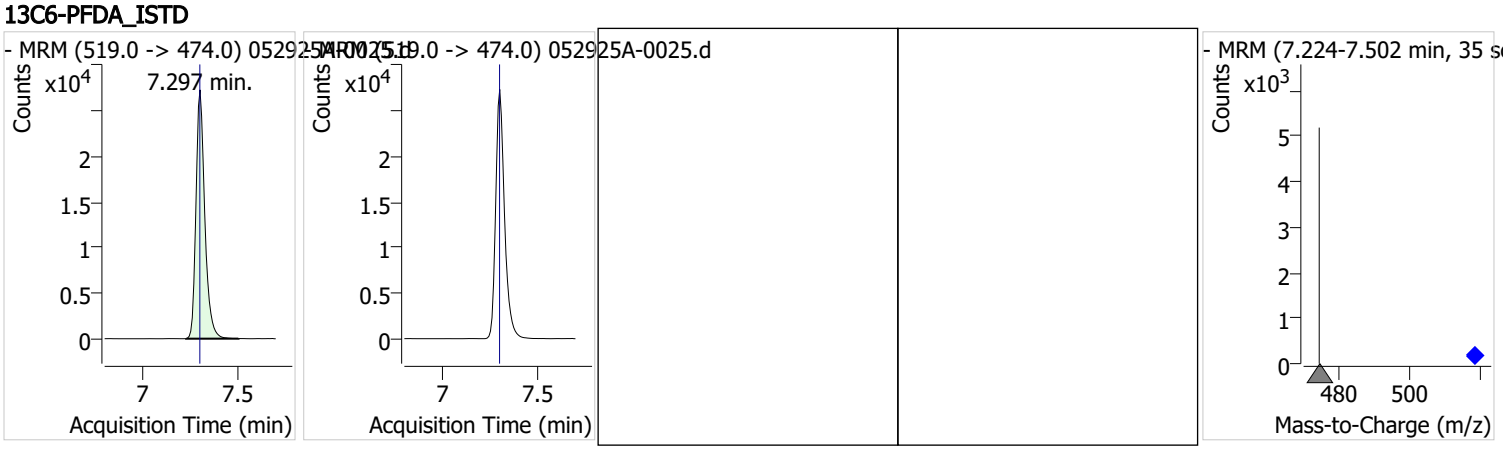




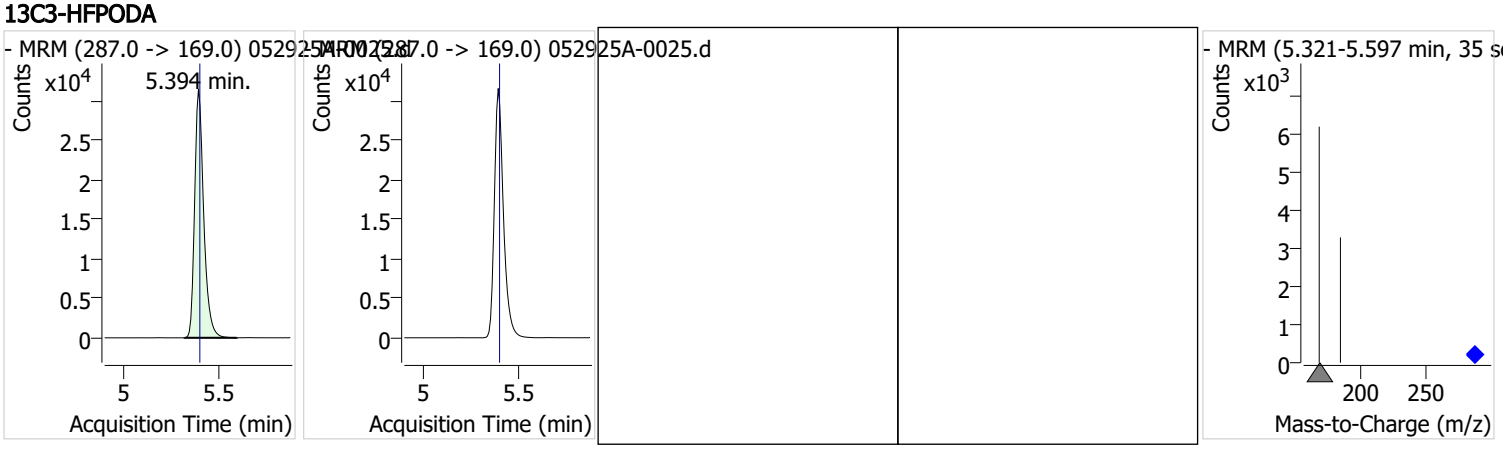
13C5-PFPeA_ISTD



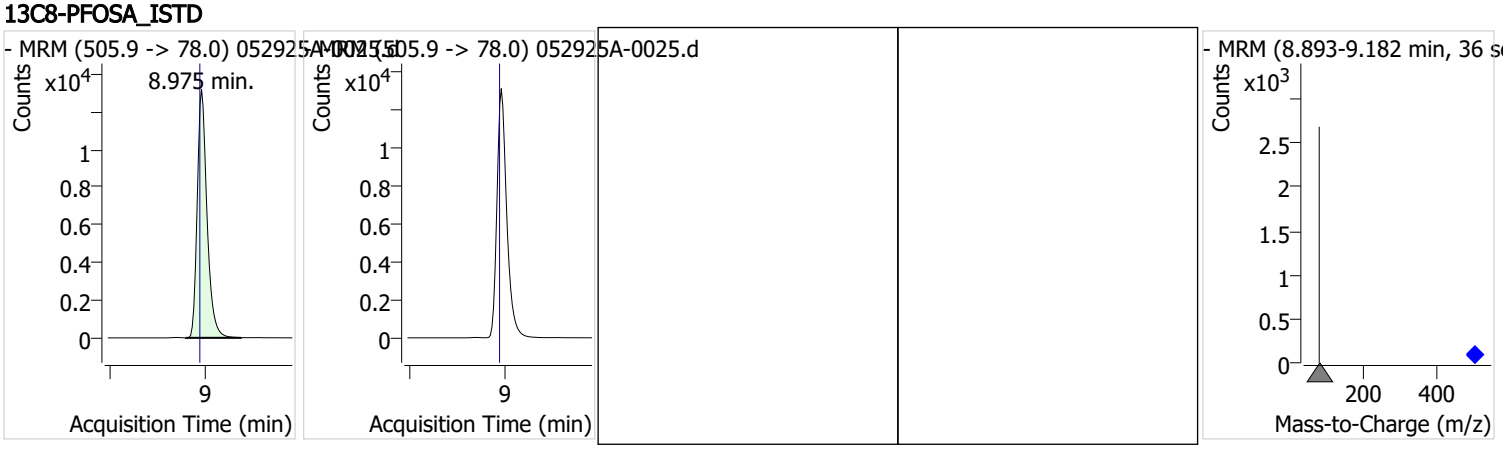
13C6-PFDA_ISTD



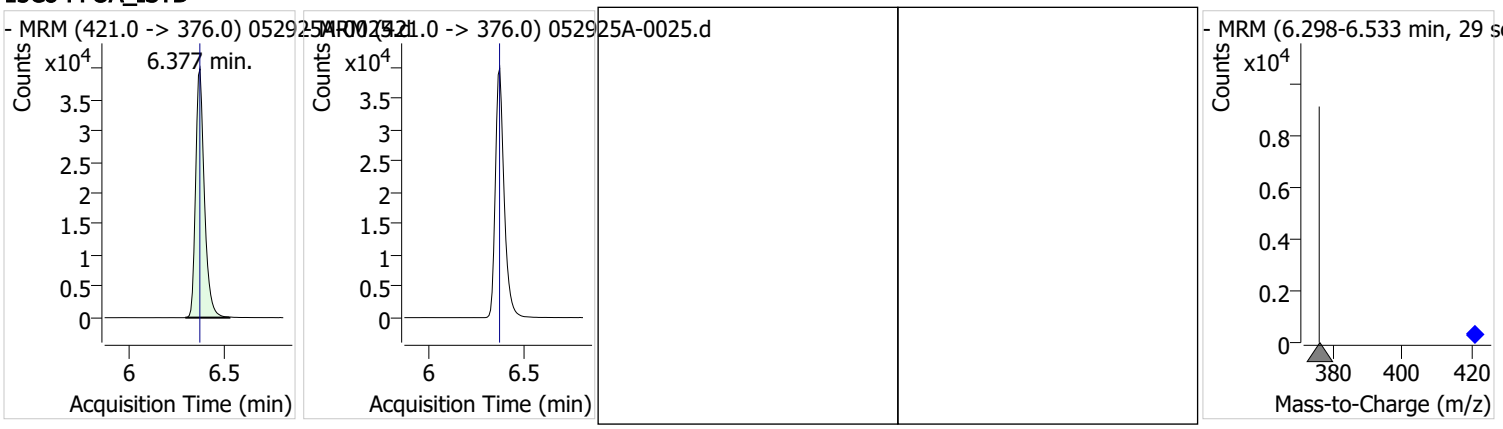
13C3-HFPODA



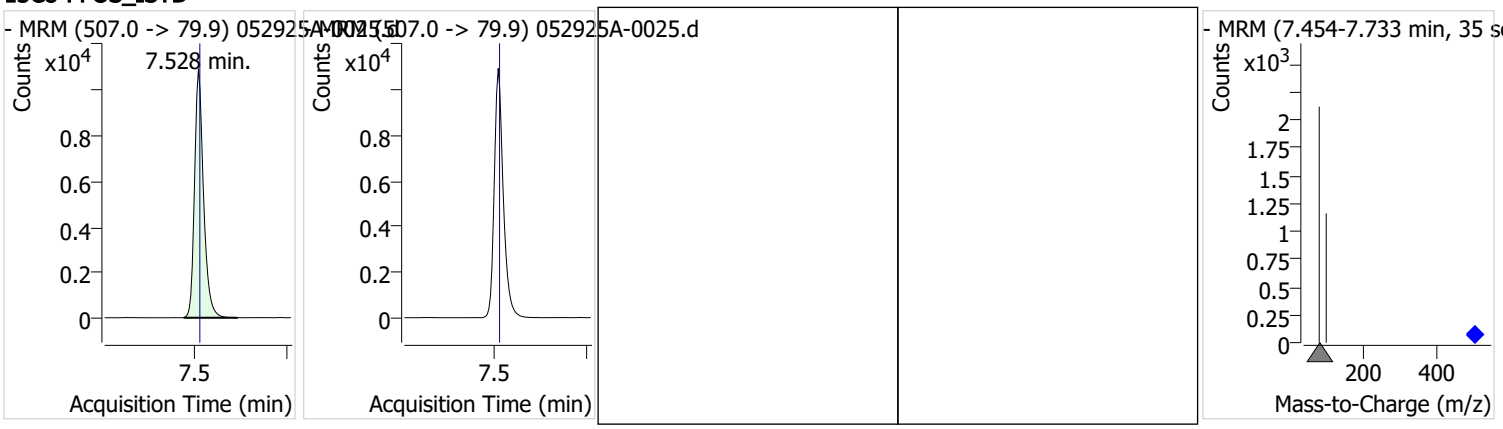
13C8-PFOSA_ISTD



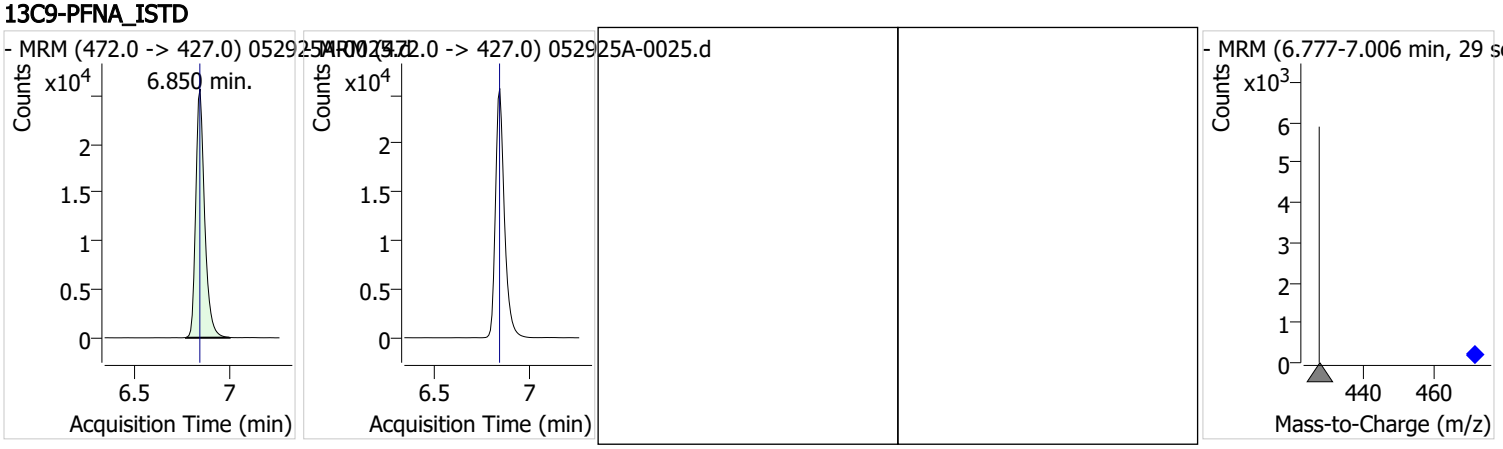
13C8-PFOA_ISTD



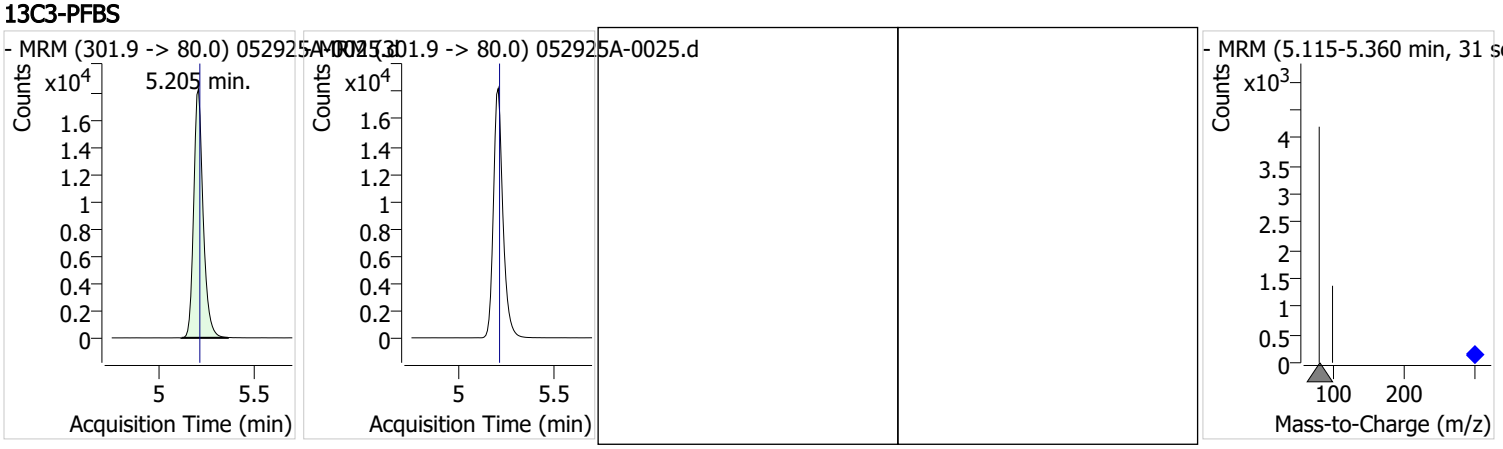
13C8-PFOS_ISTD



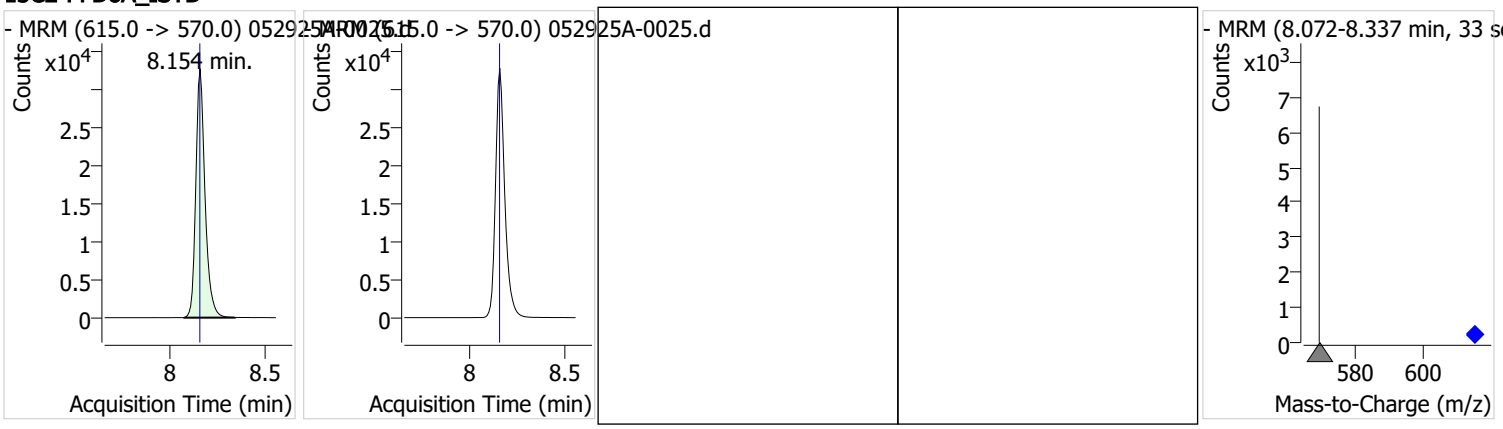
13C9-PFNA_ISTD



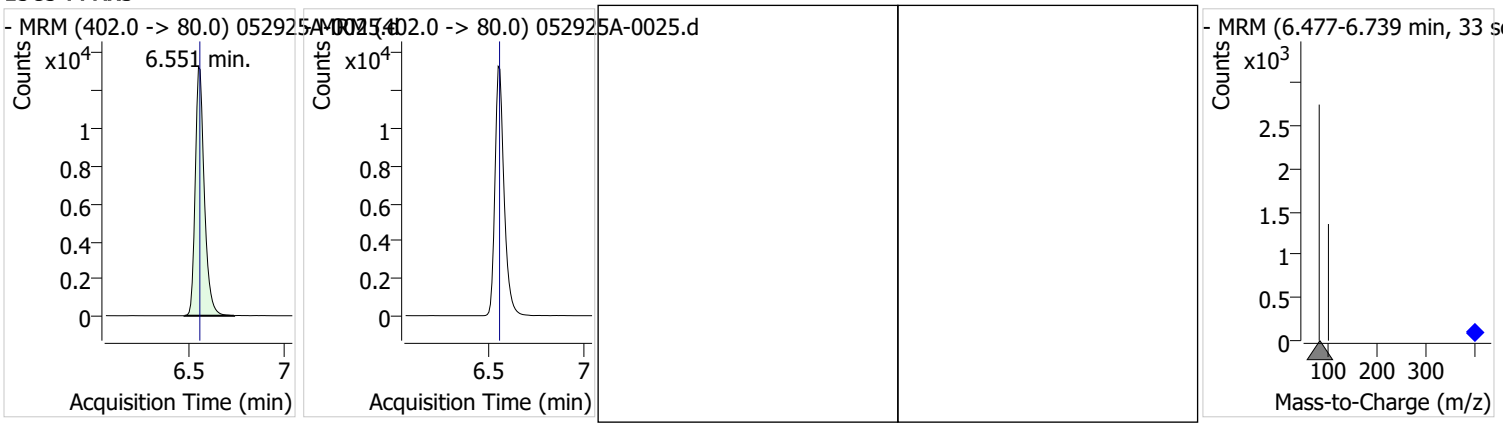
13C3-PFBS



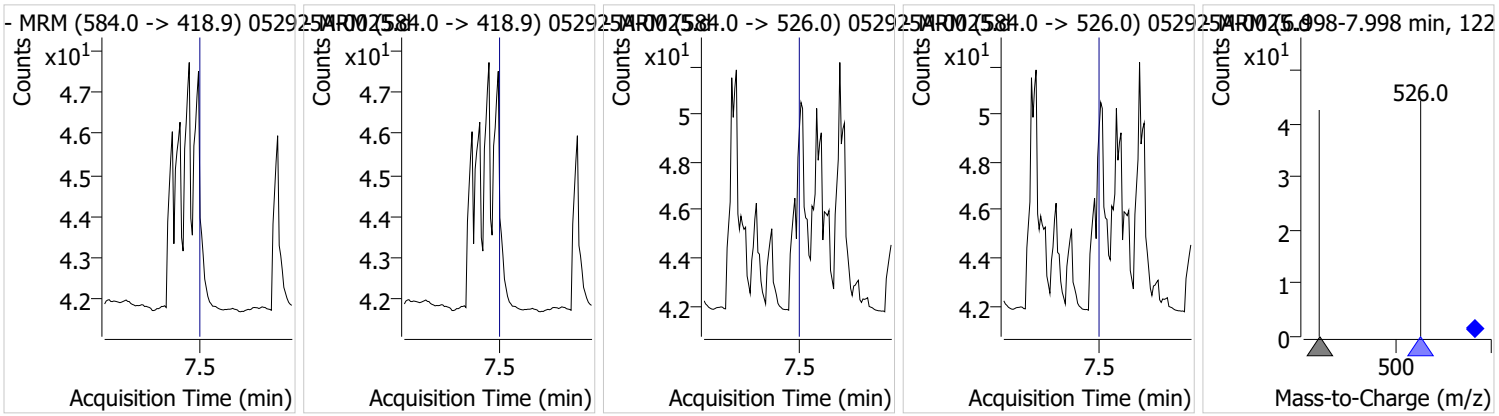
13C2-PFDoA_ISTD



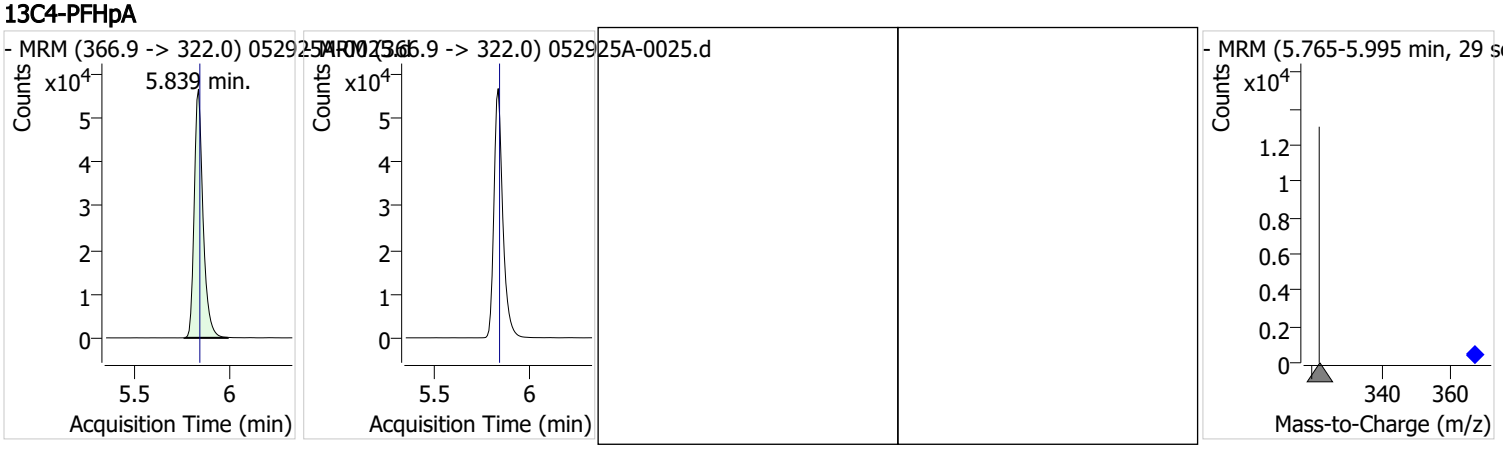
13C3-PFHxS



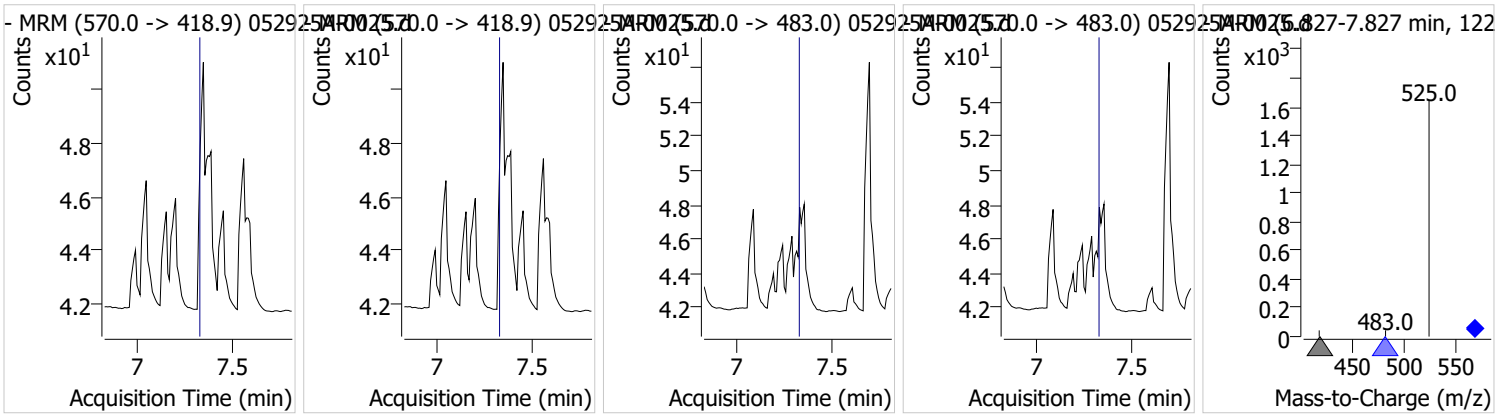
NEtFOSAA



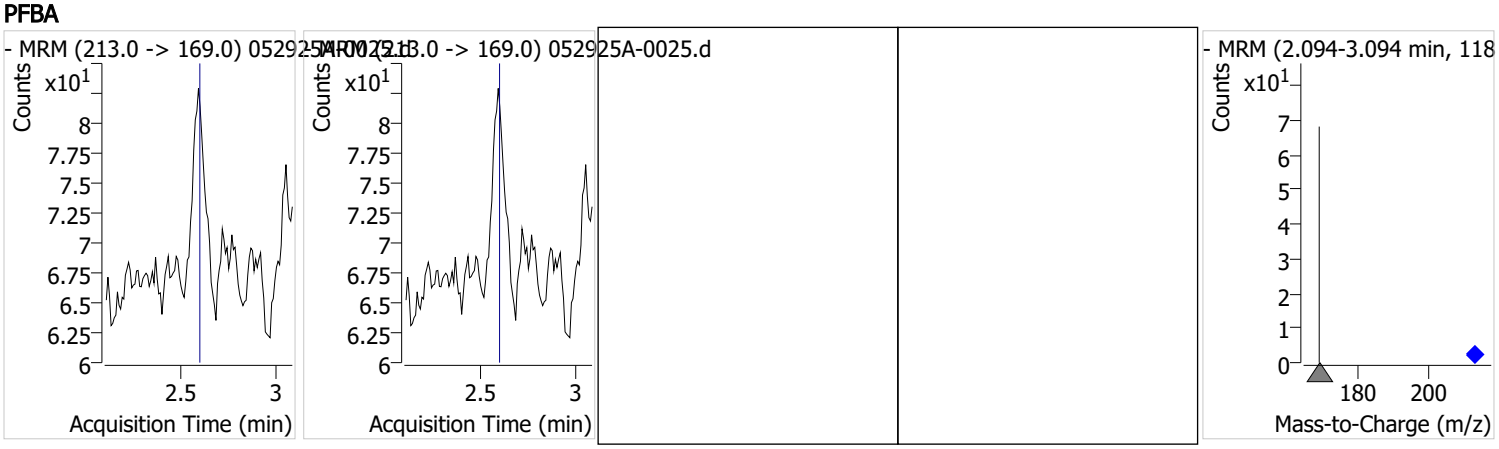
13C4-PFHpA



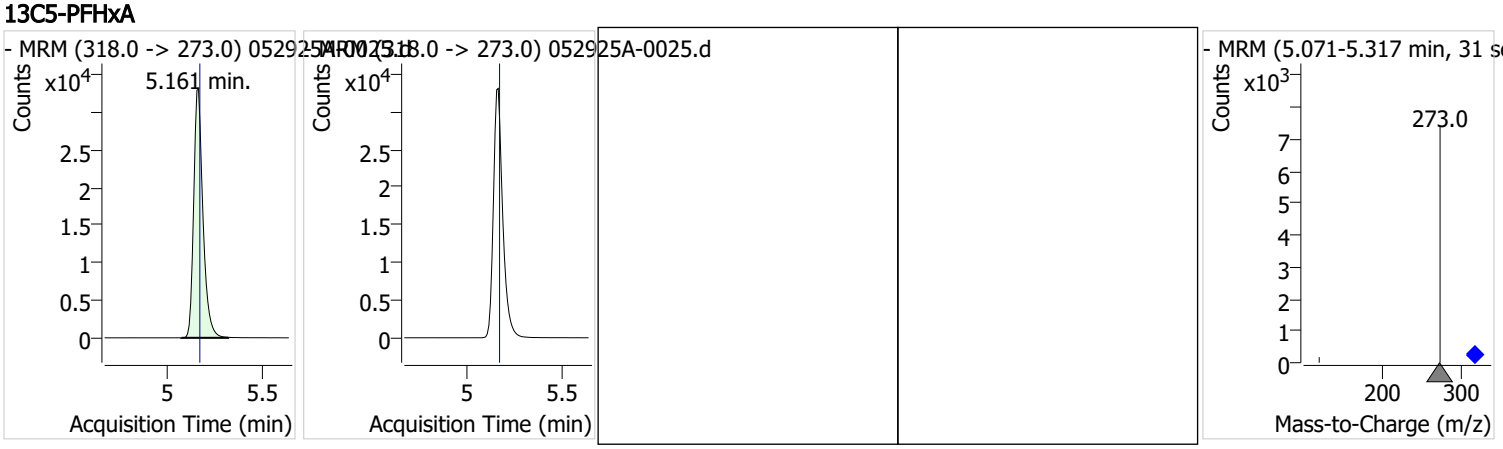
NMeFOSAA



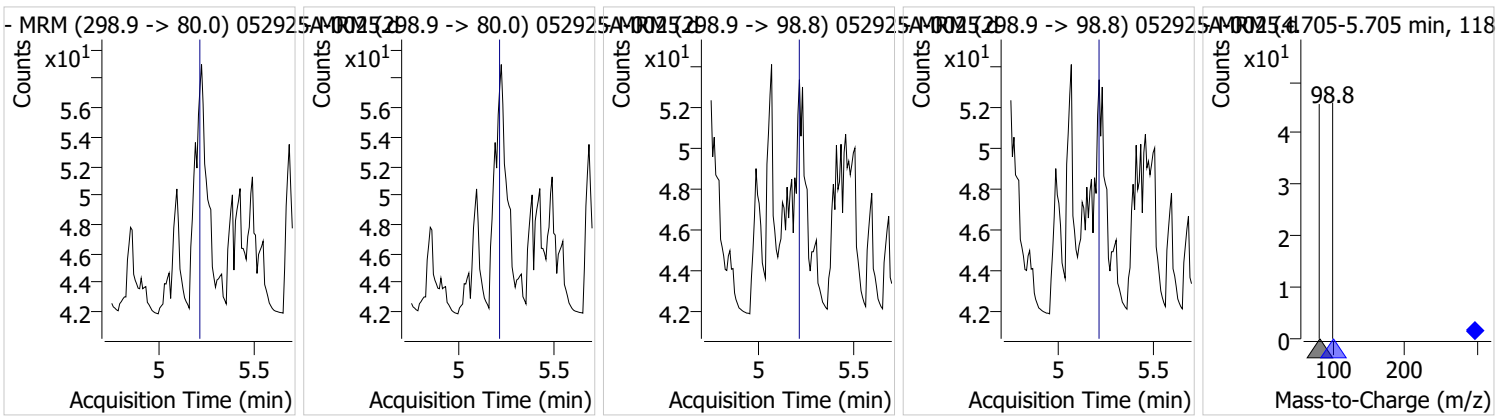
PFBA



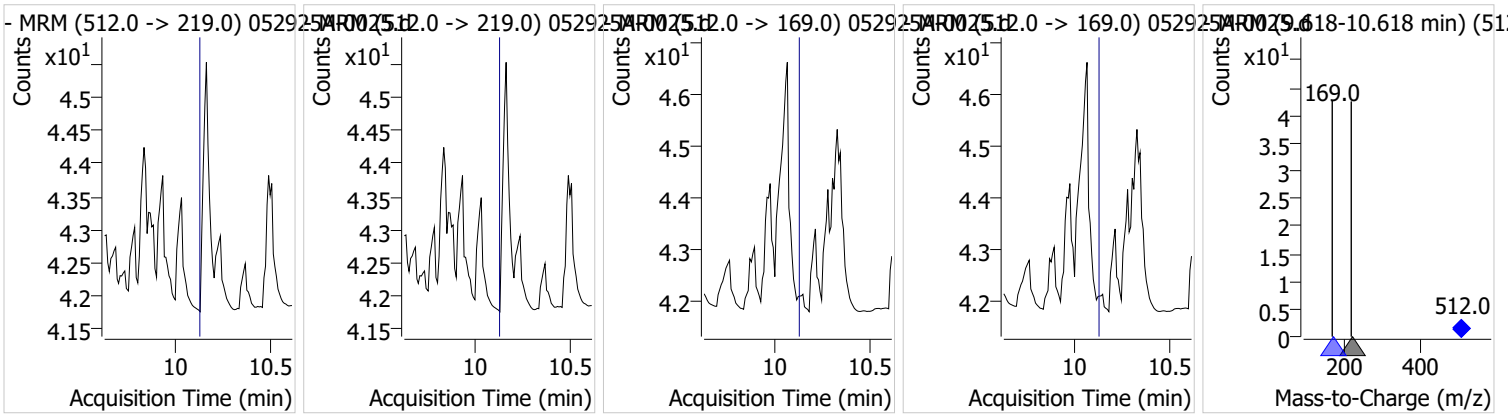
13C5-PFHxA



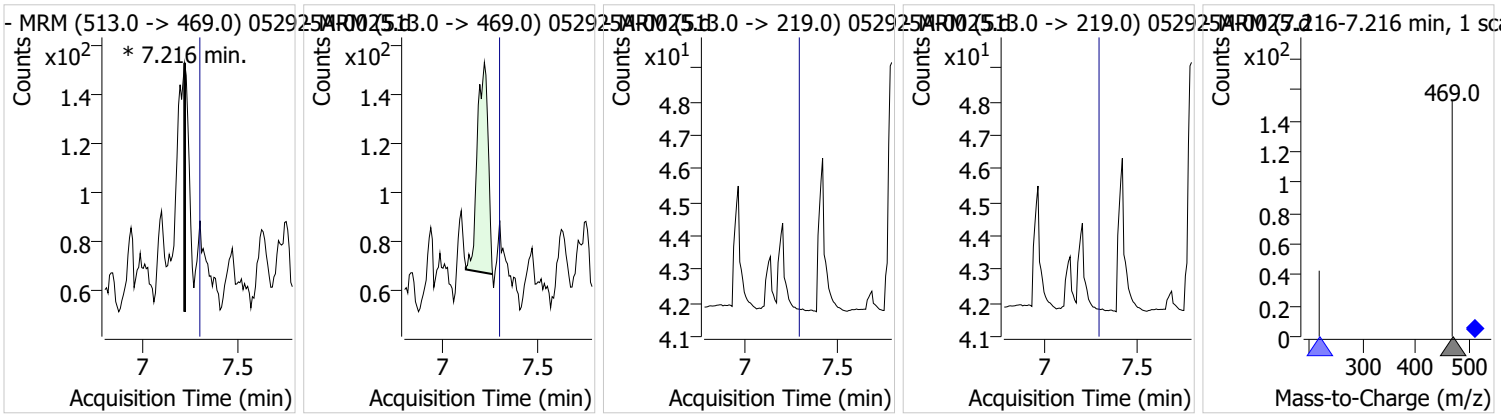
PFBS



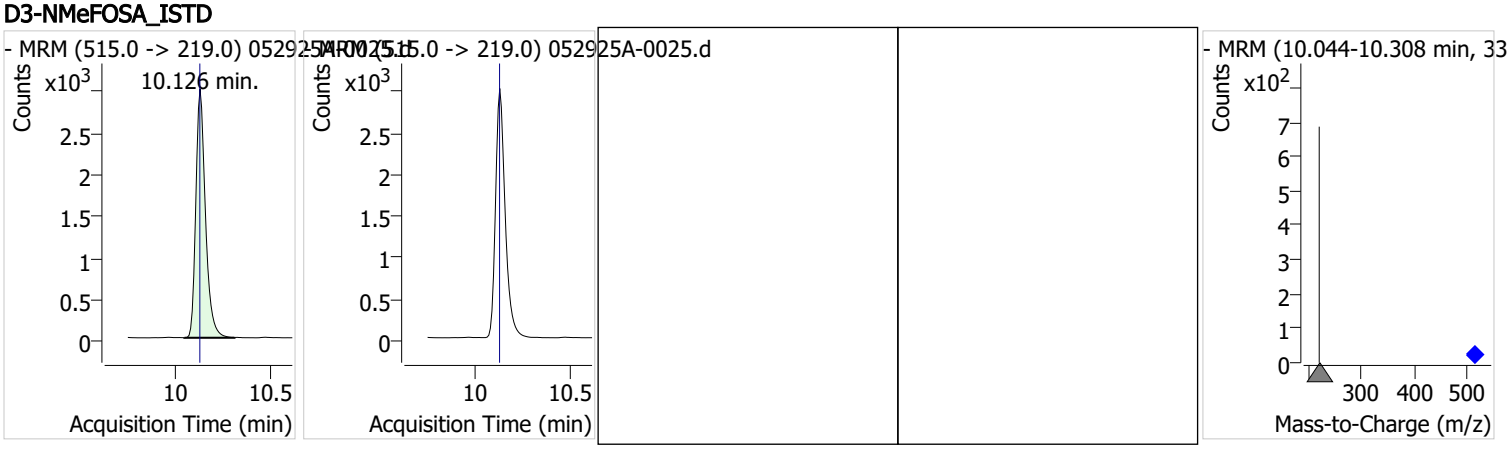
NMeFOSA



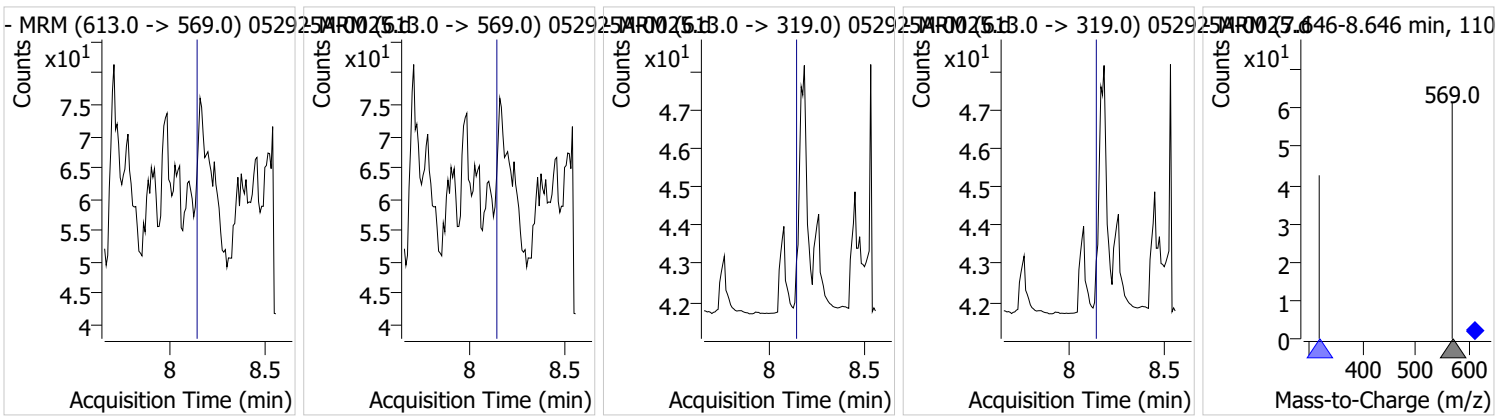
PFDA



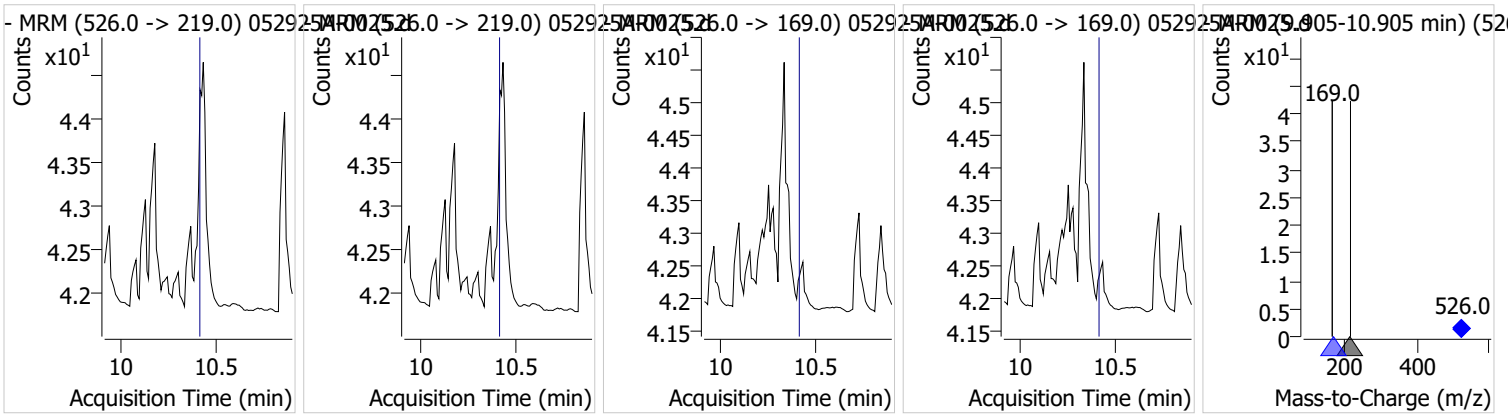
D3-NMeFOSA_ISTD



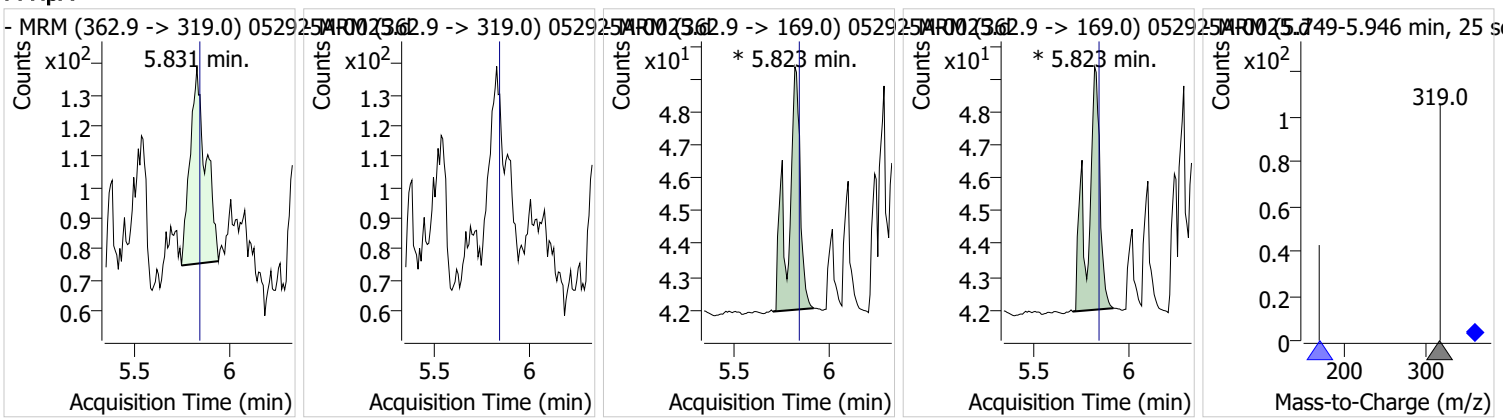
PFDoA



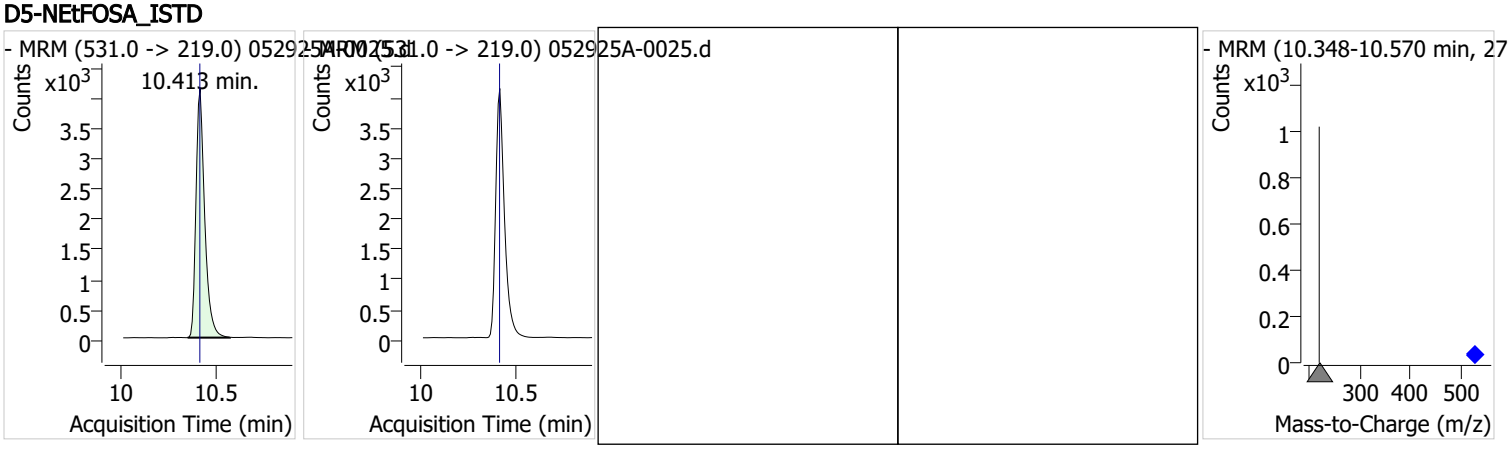
NEtFOSA



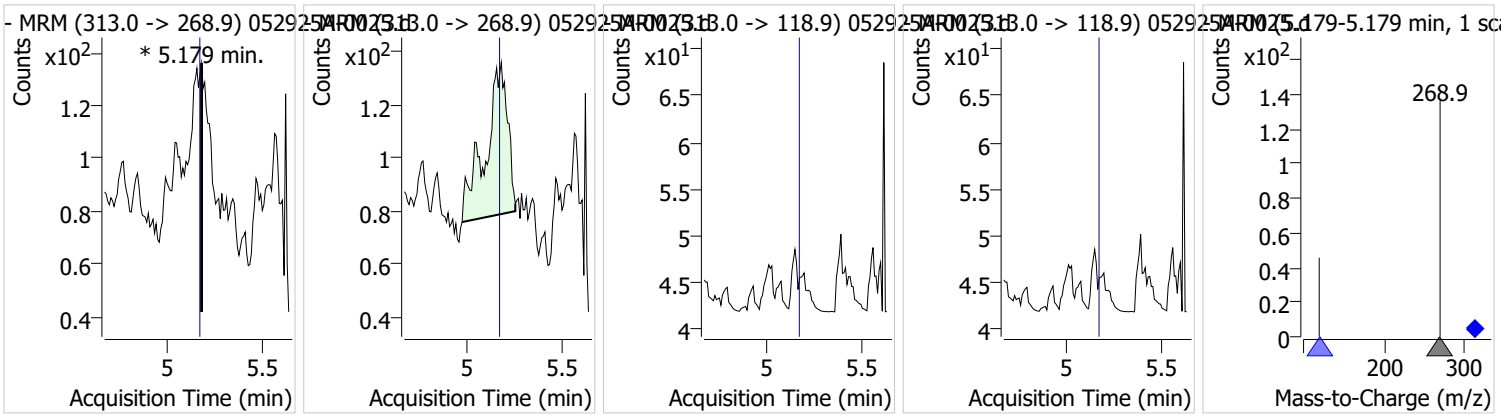
PFHpA



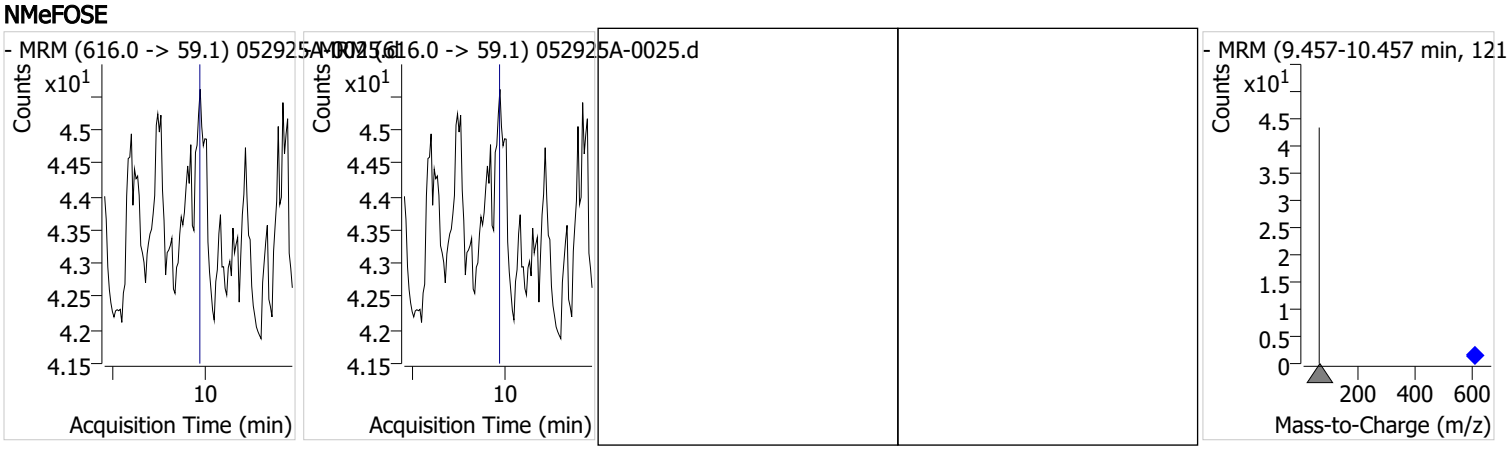
D5-NEtFOSA_ISTD



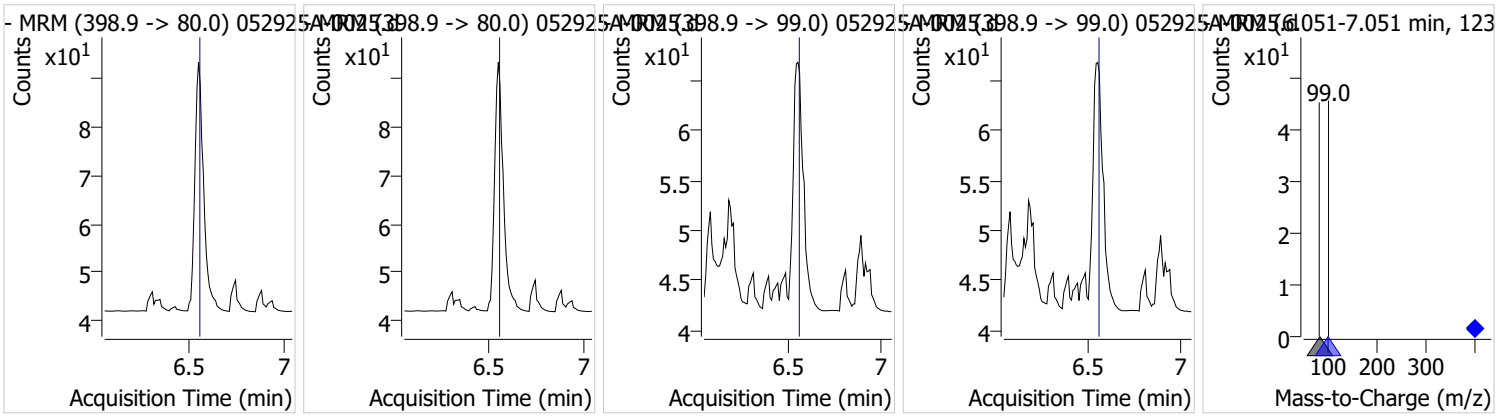
PFHxA



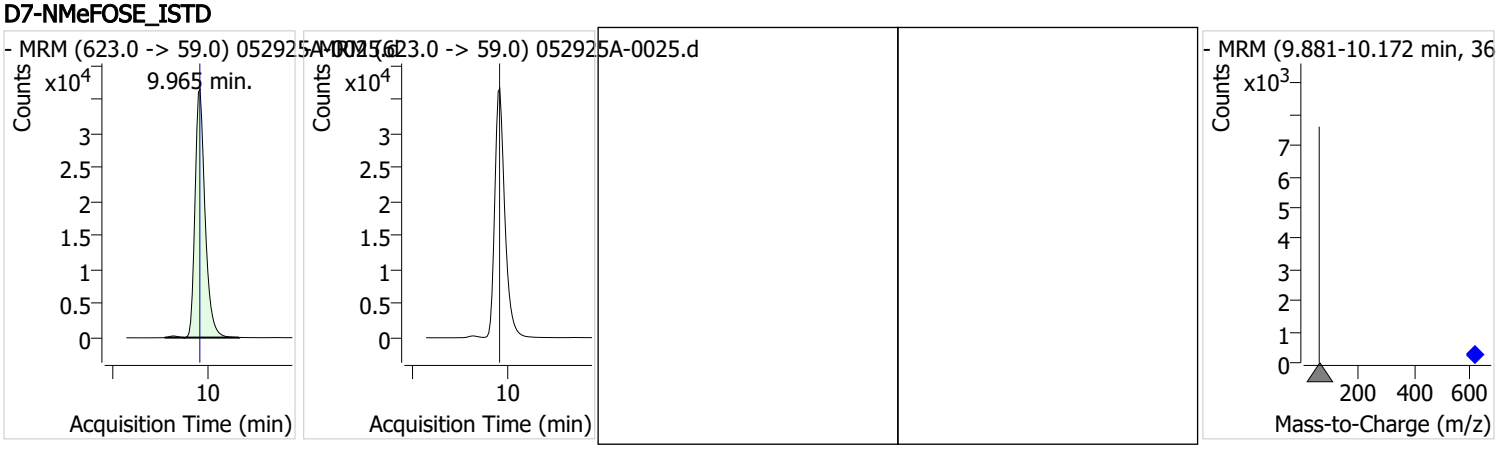
NMeFOSE



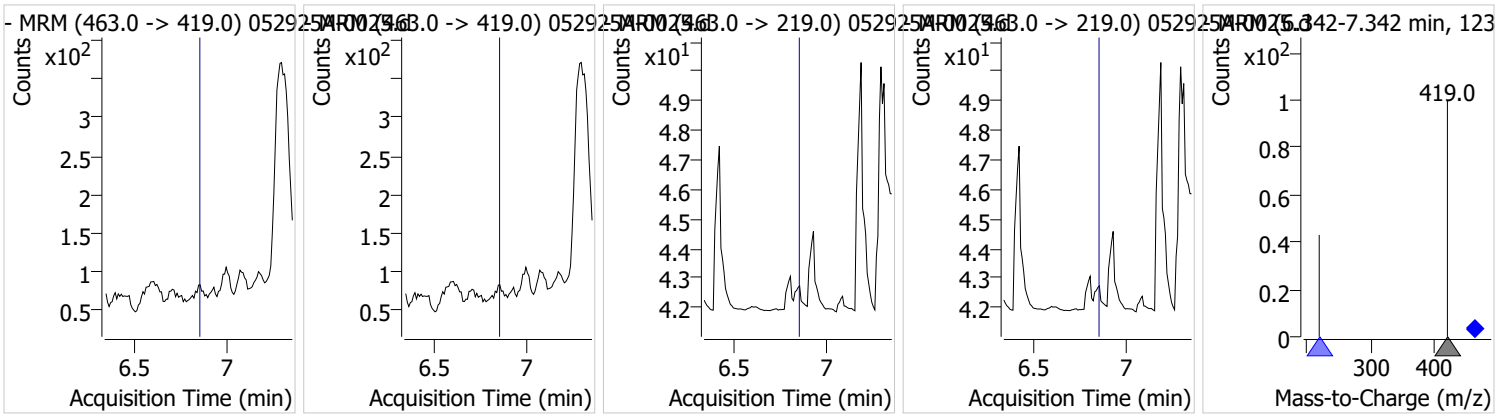
PFHxS



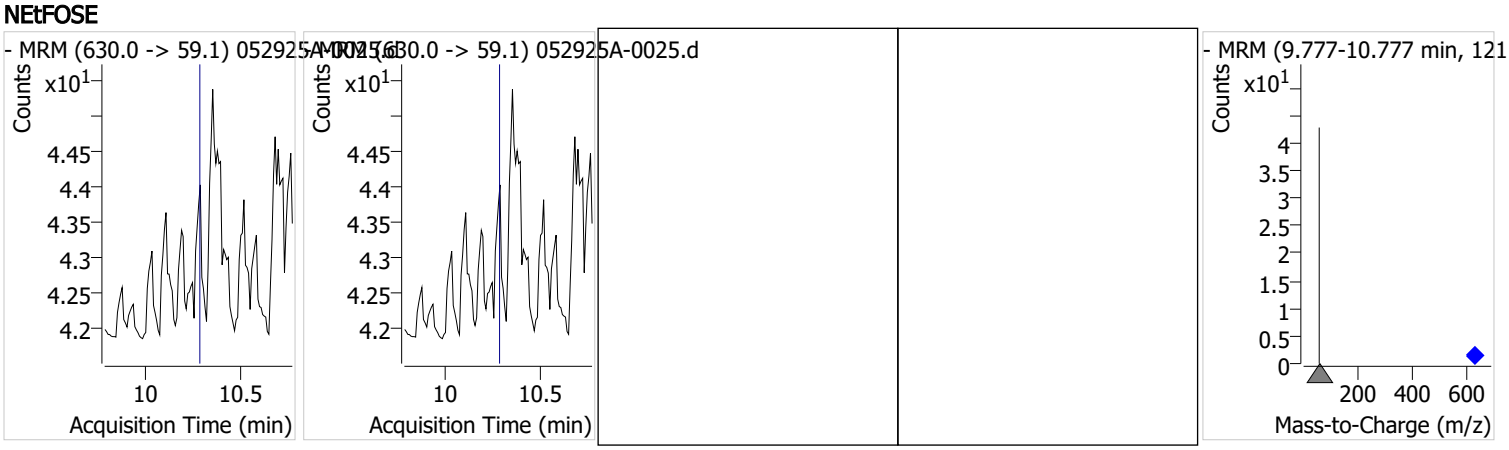
D7-NMeFOSE_ISTD



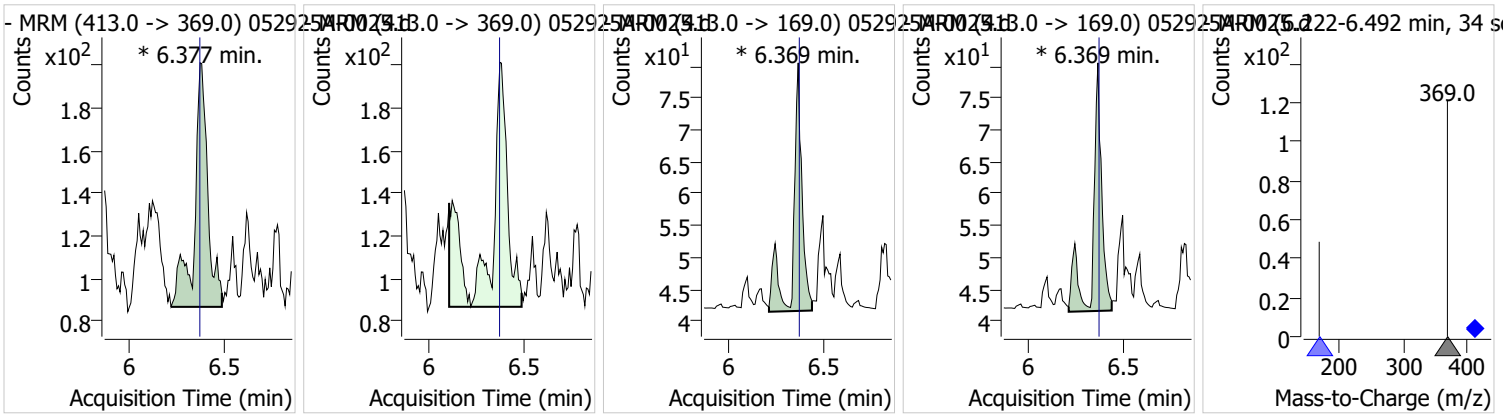
PFNA



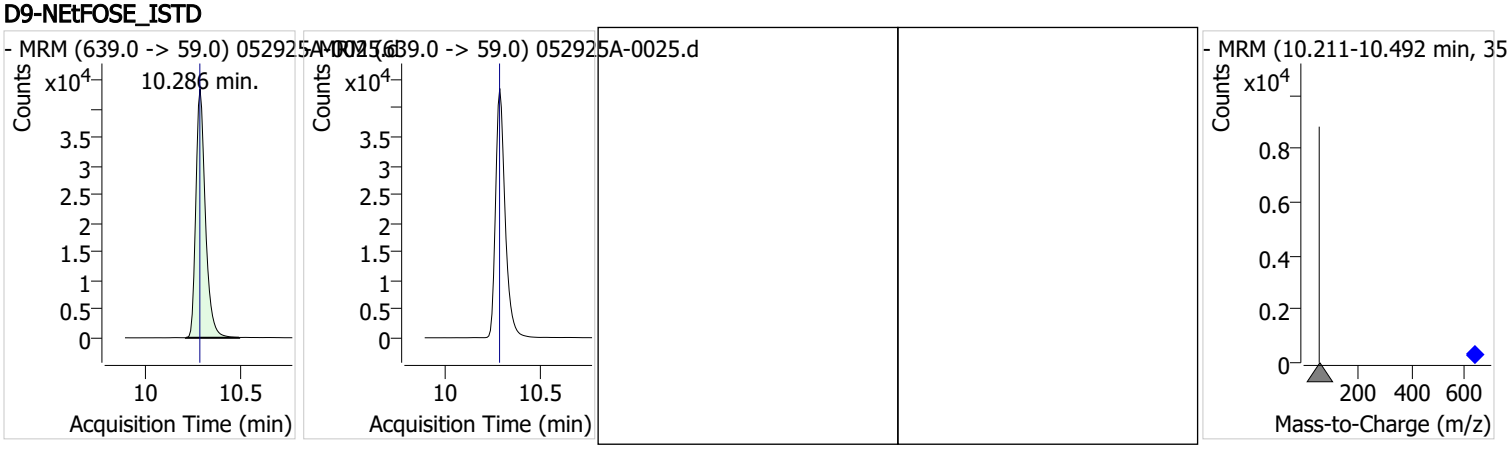
NEtFOSE



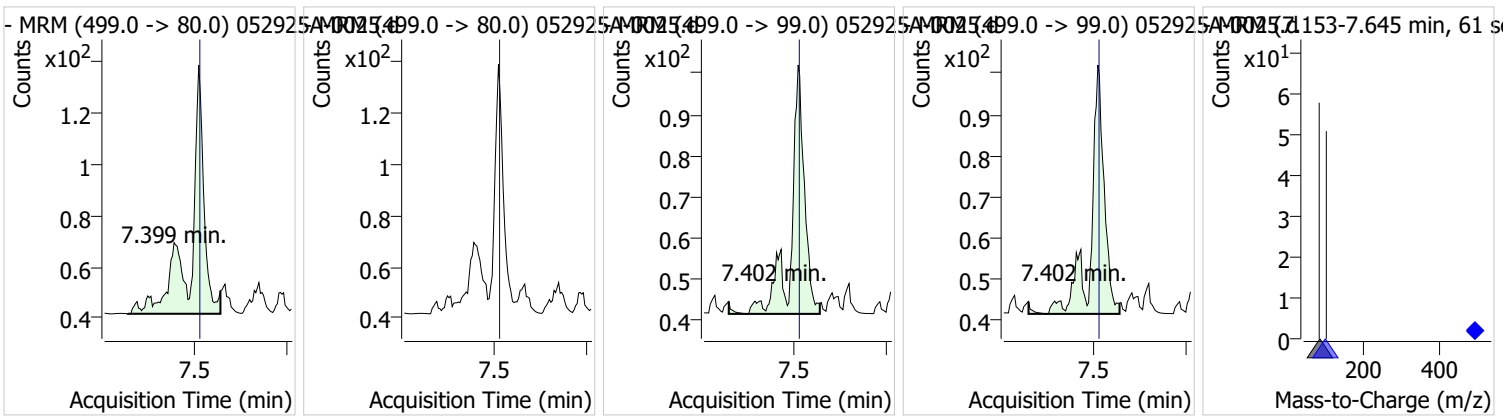
PFOA



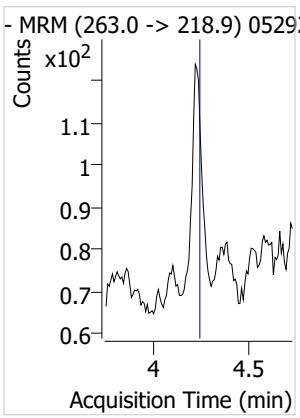
D9-NEtFOSE_ISTD

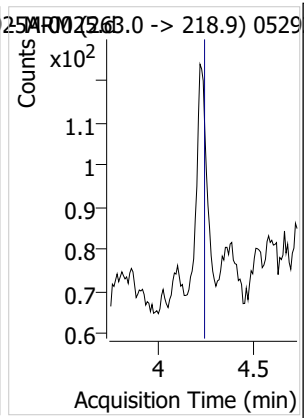


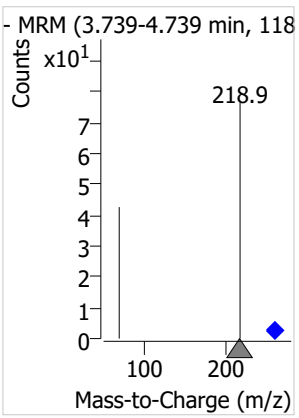
PFOS



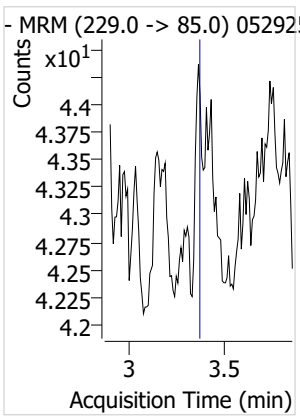
PFPeA

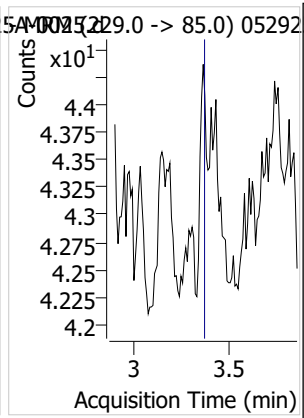


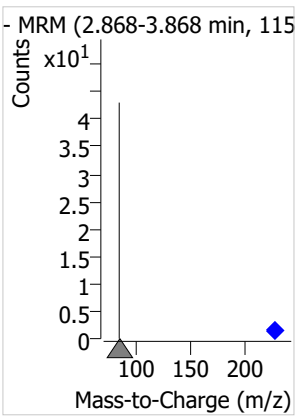




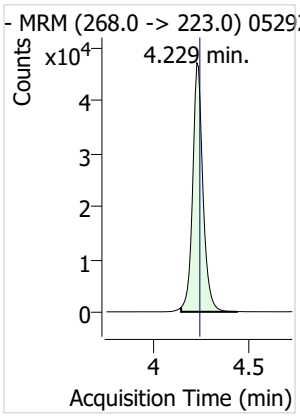
PFMPA

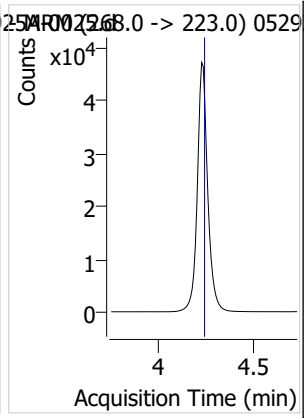


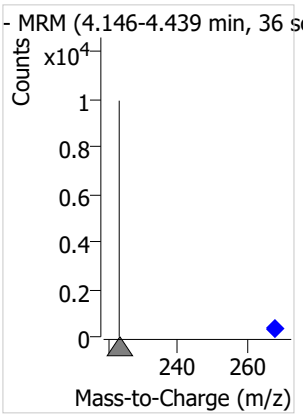




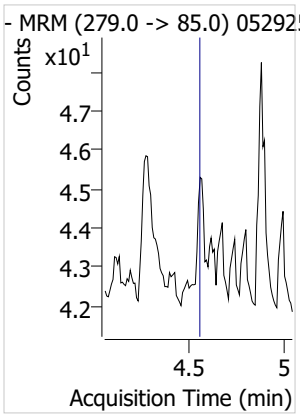
13C5-PFPeA

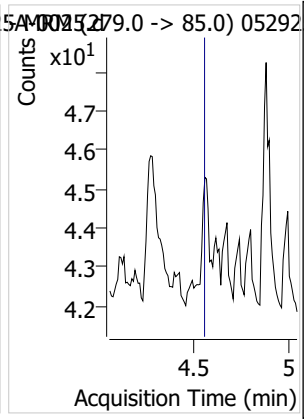


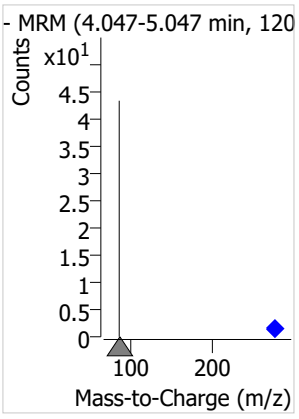




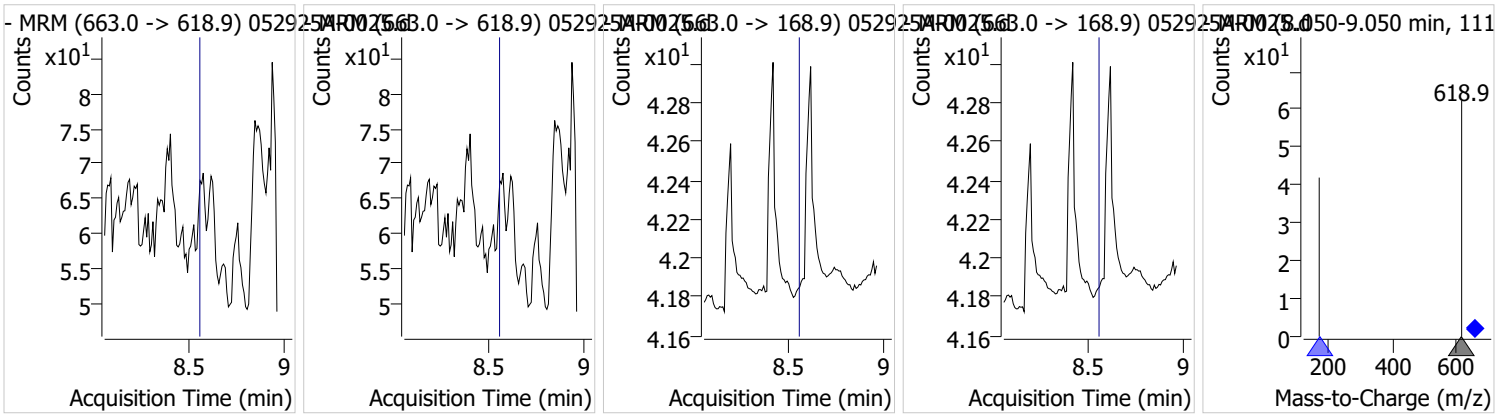
PFMBA



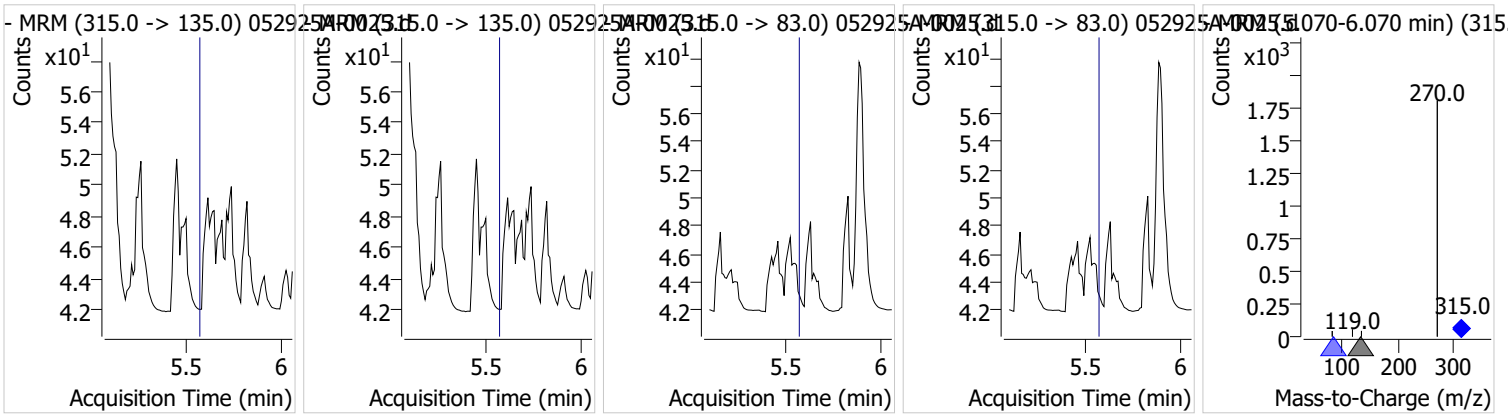




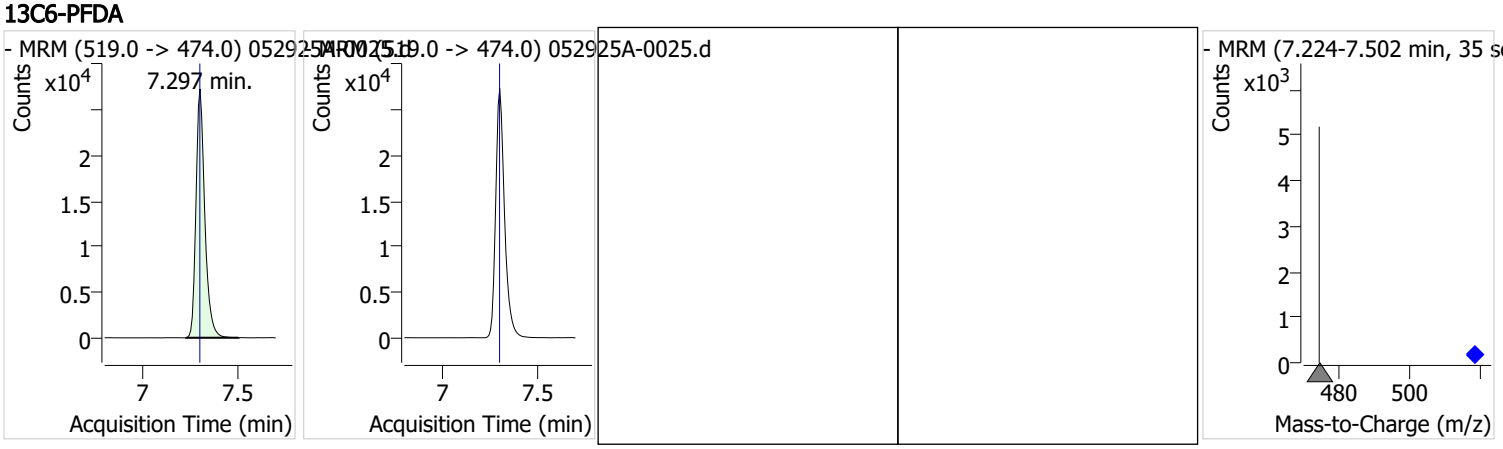
PFTrDA



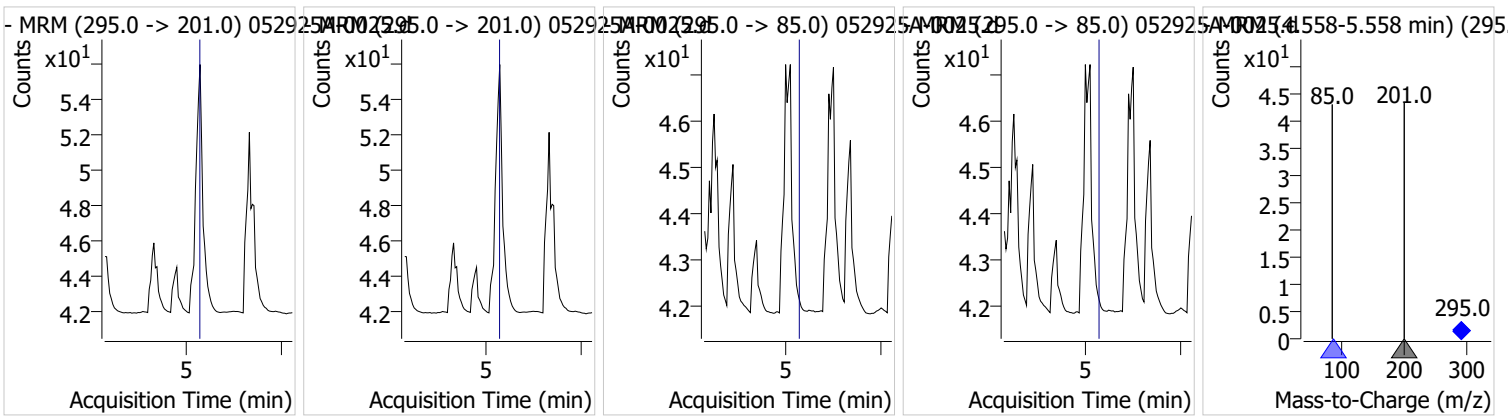
PFEESA



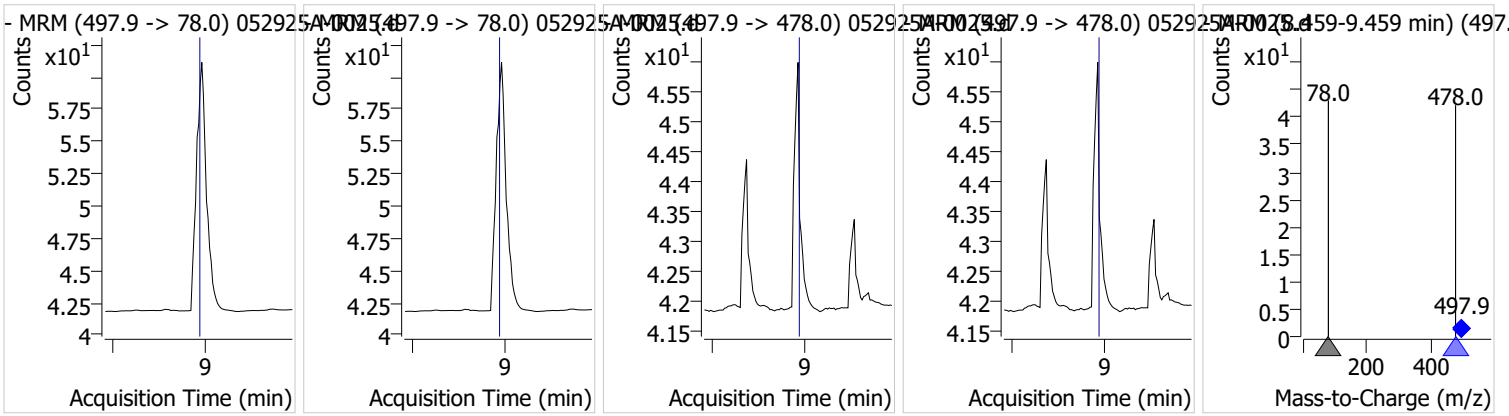
13C6-PFDA



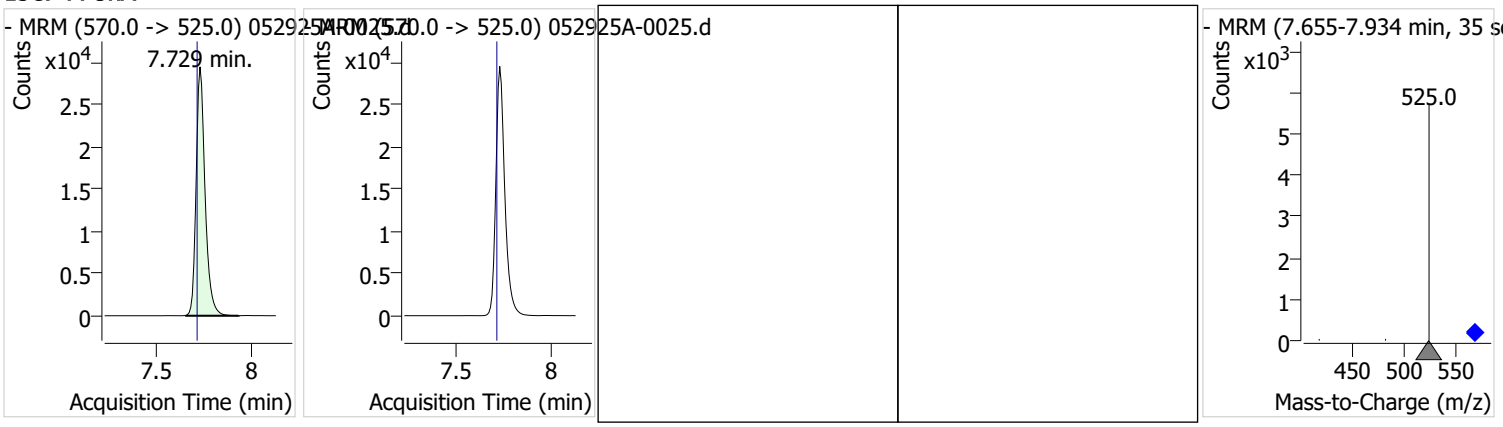
NFDHA



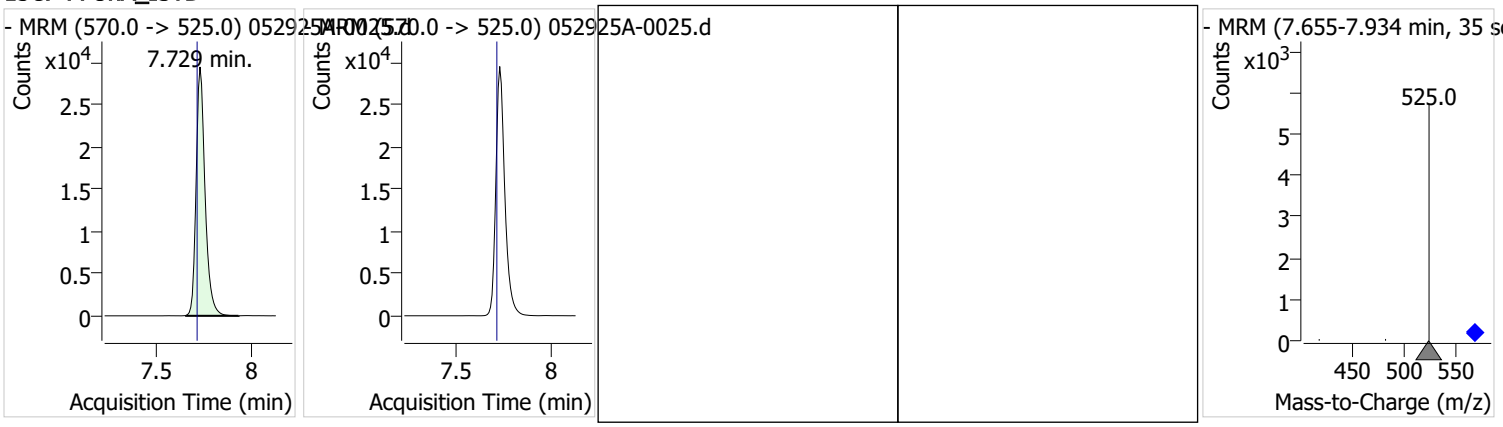
PFOSA



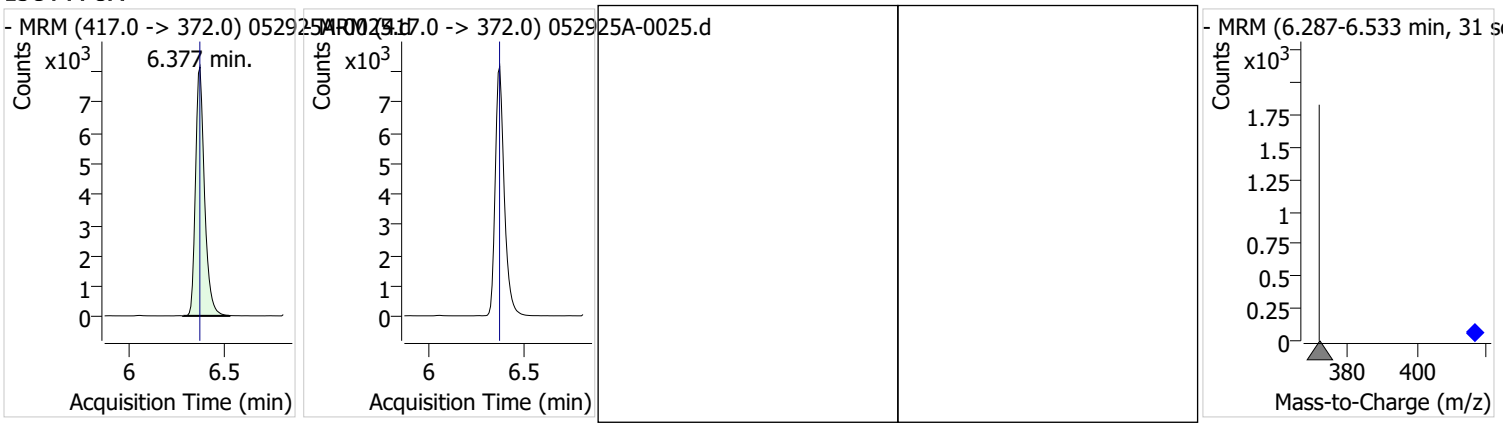
13C7-PFUnA



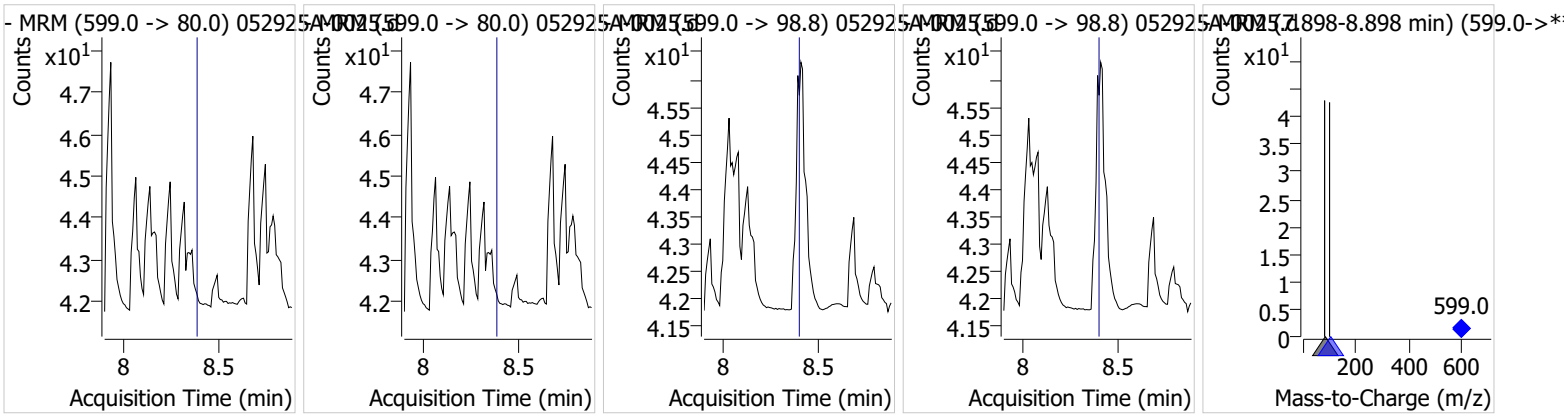
13C7-PFUnA_ISTD



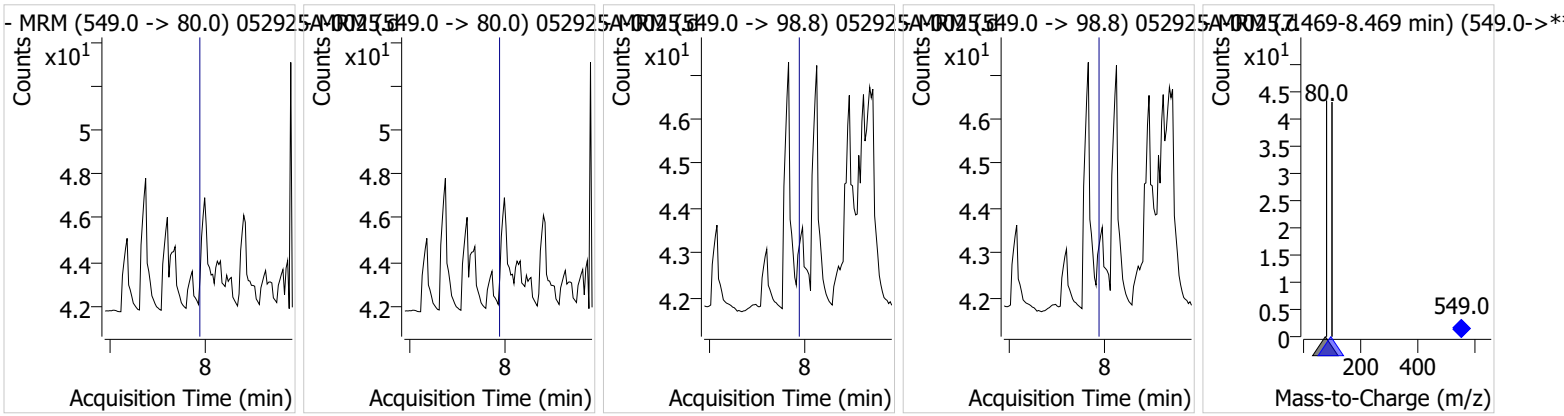
13C4-PFOA



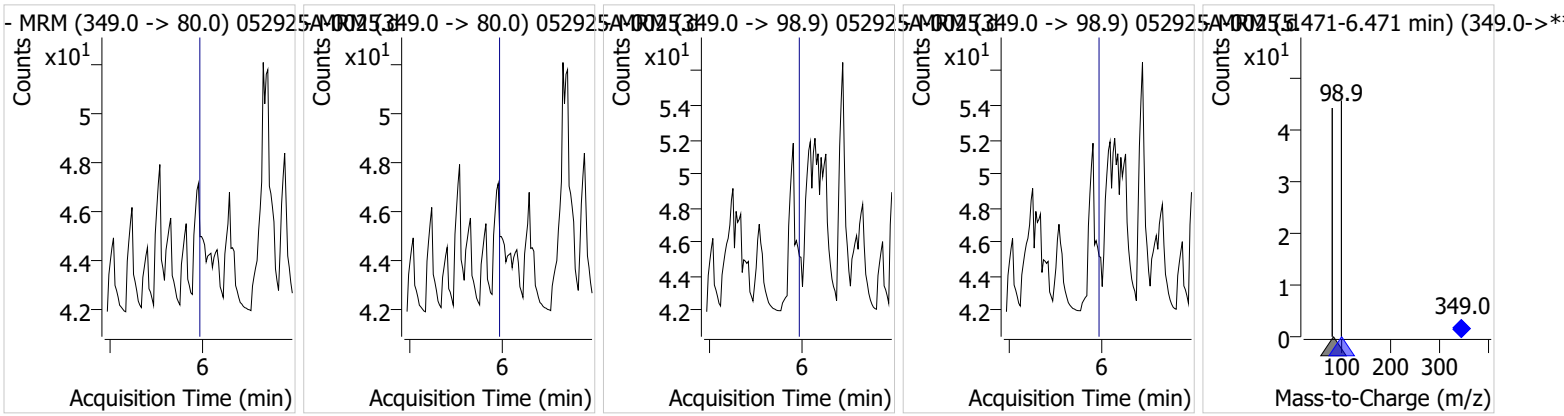
PFDS



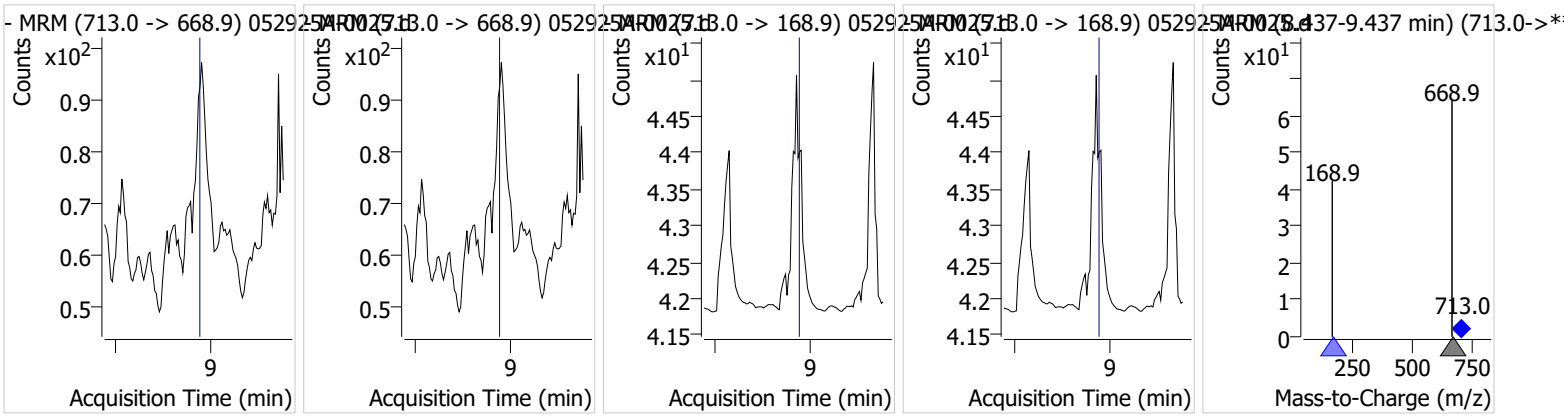
PFNS



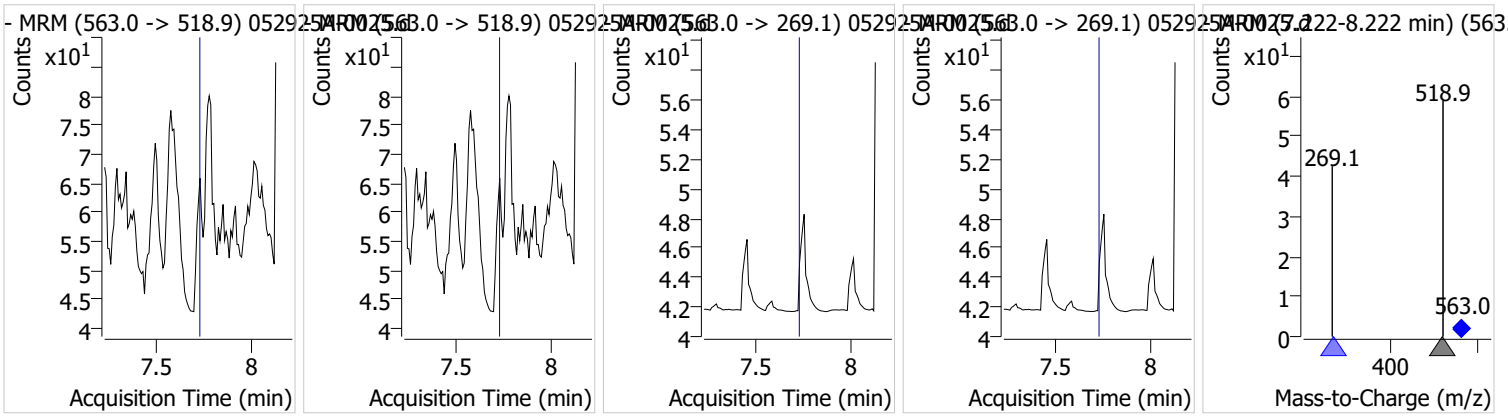
PFPeS



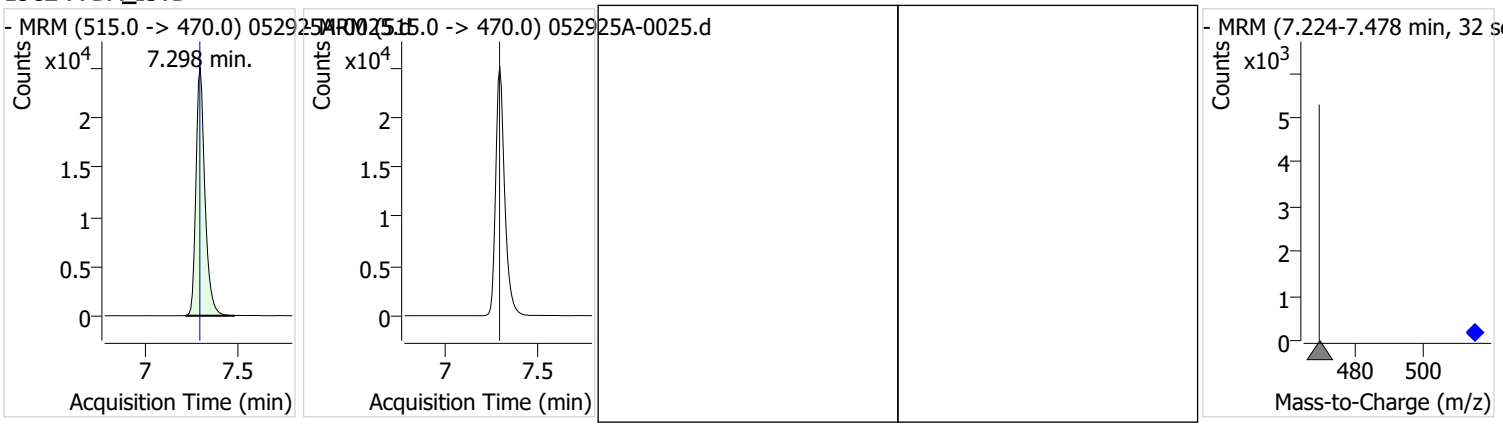
PFTeDA



PFUnA



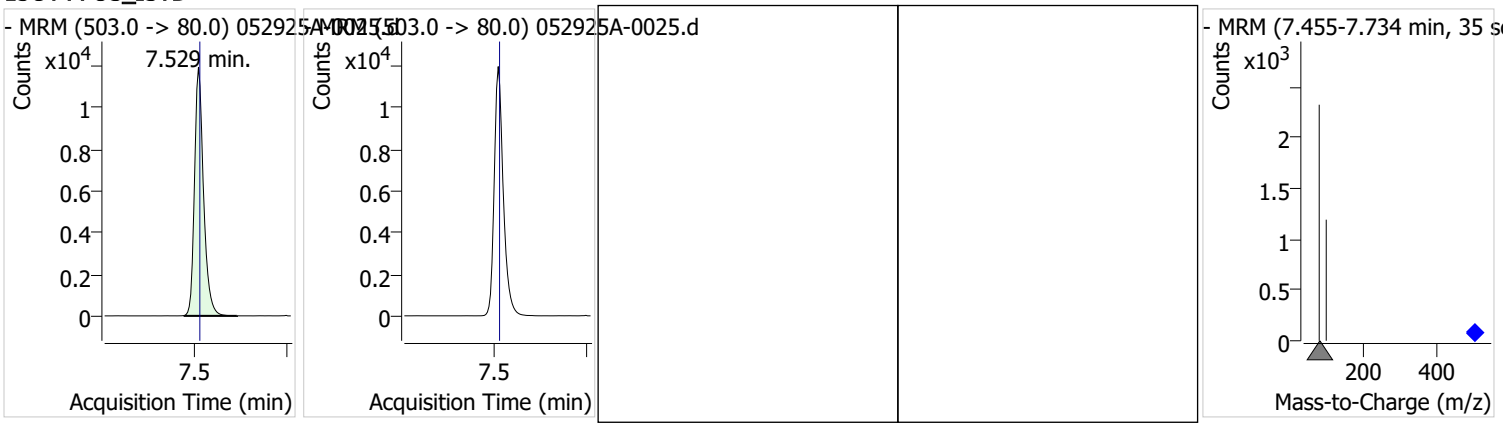
13C2-PFDA_ISTD



13C2-PFHxA_ISTD



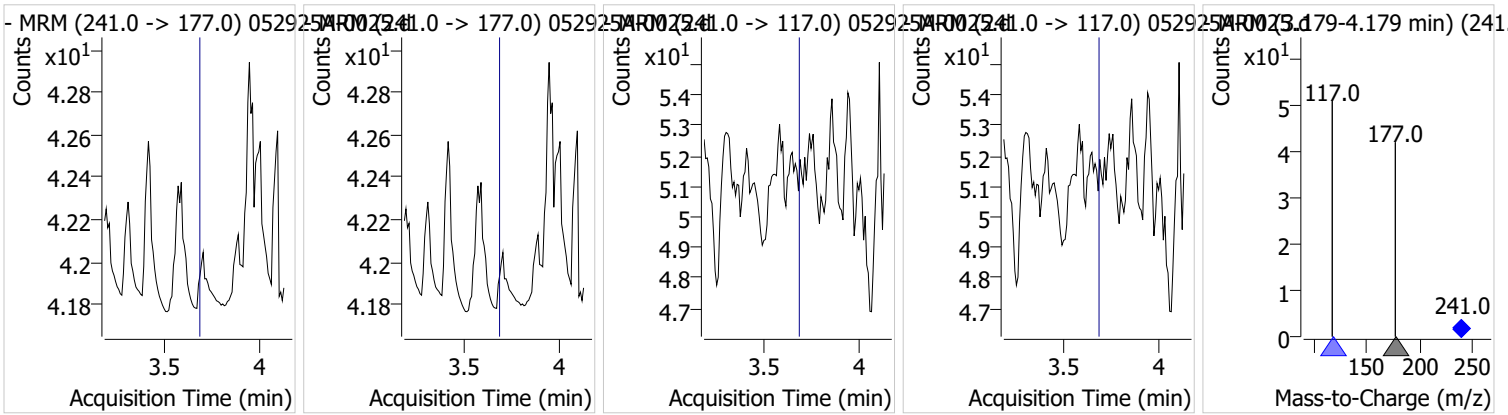
13C4-PFOS_ISTD



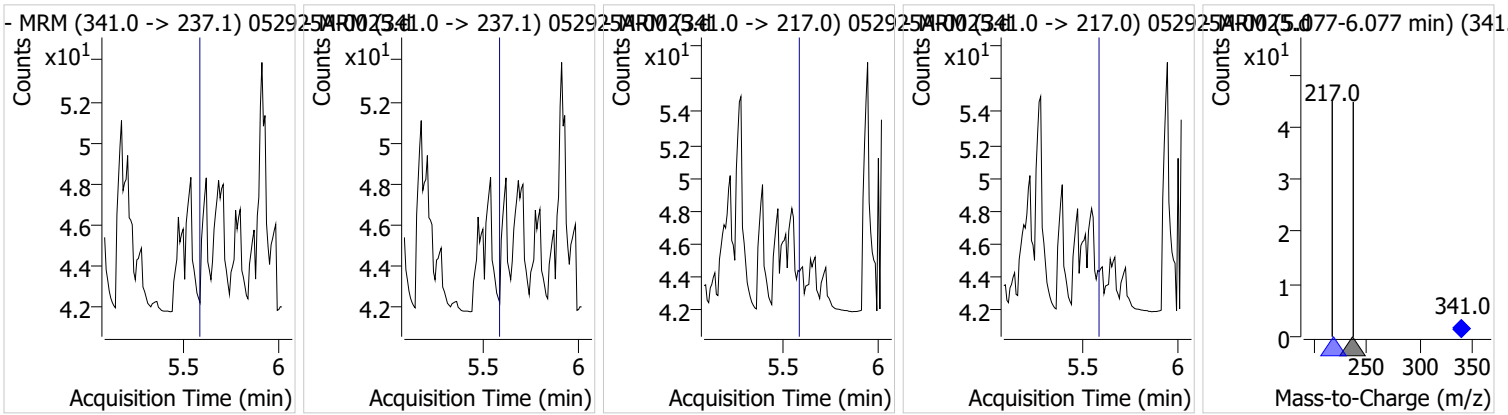
13C3-PFBA



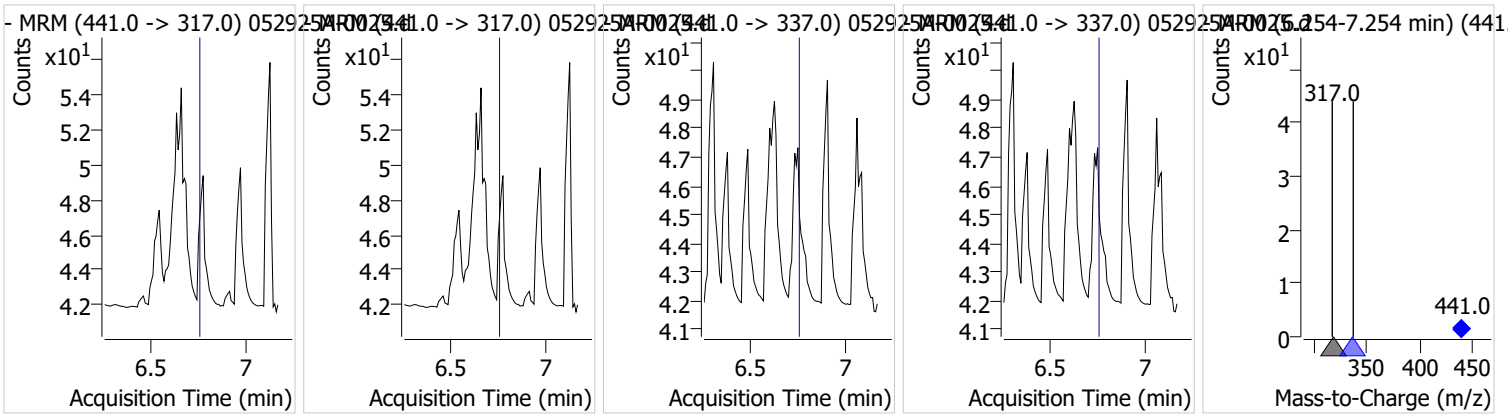
3:3FTCA



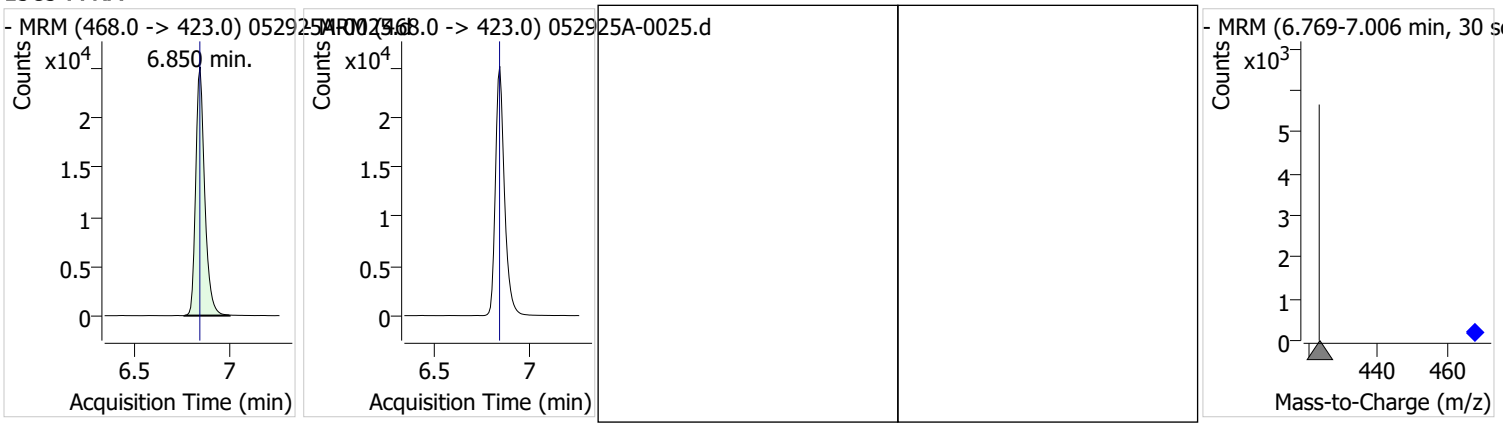
5:3FTCA



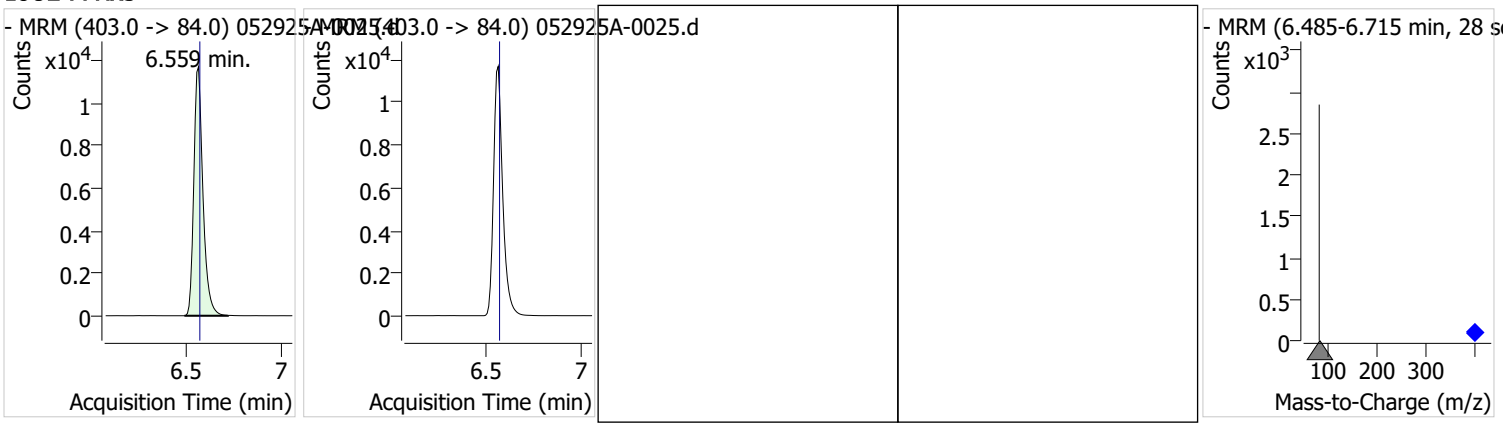
7:3FTCA



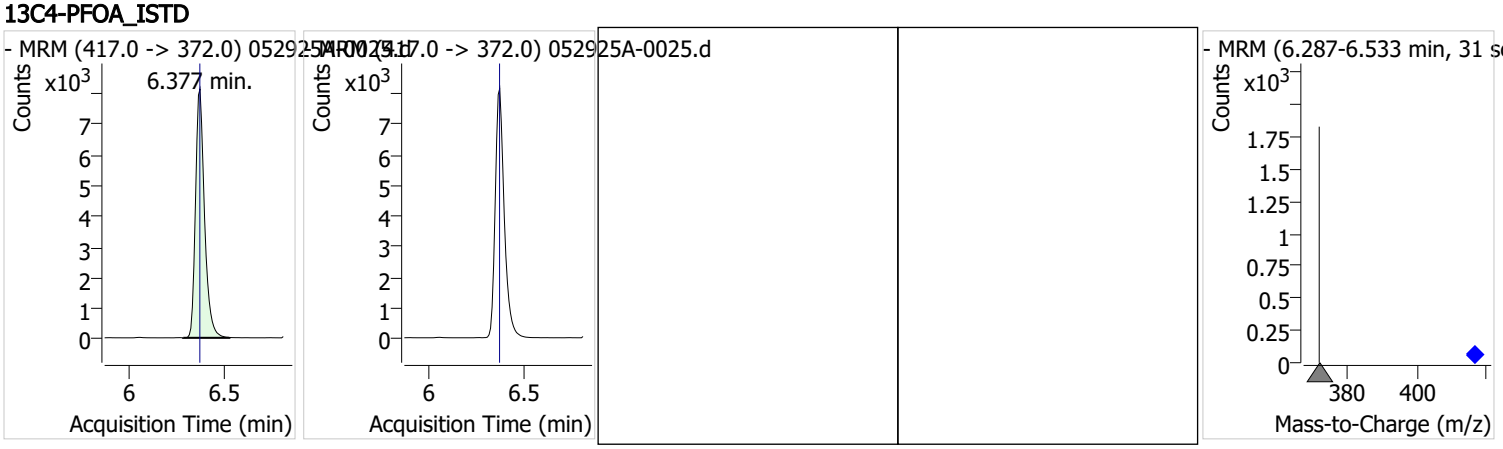
13C5-PFNA



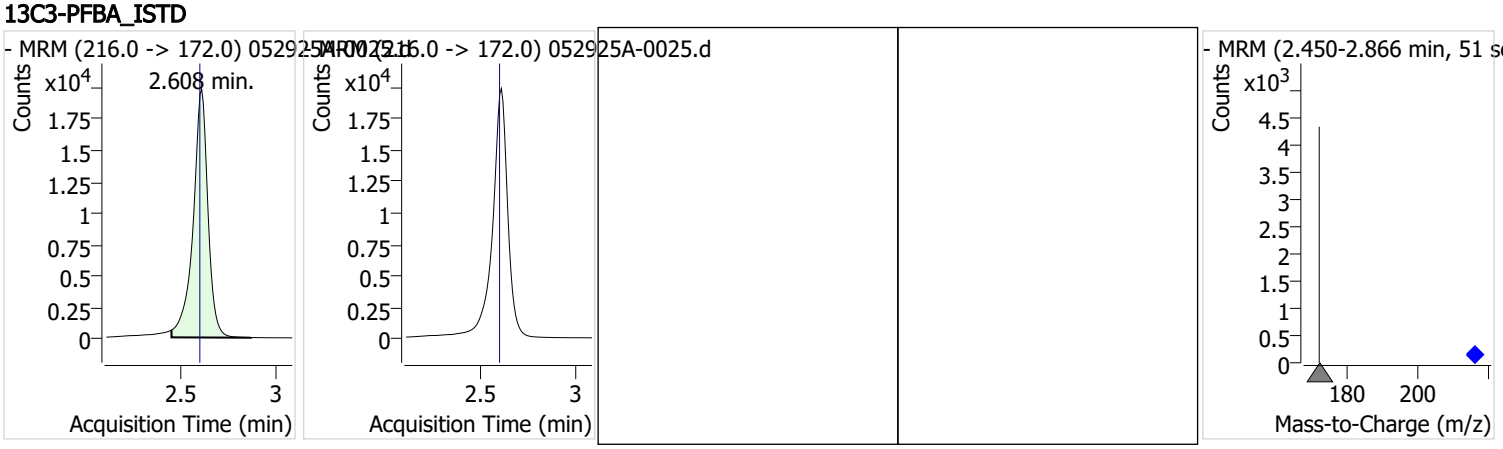
18O2-PFHxS



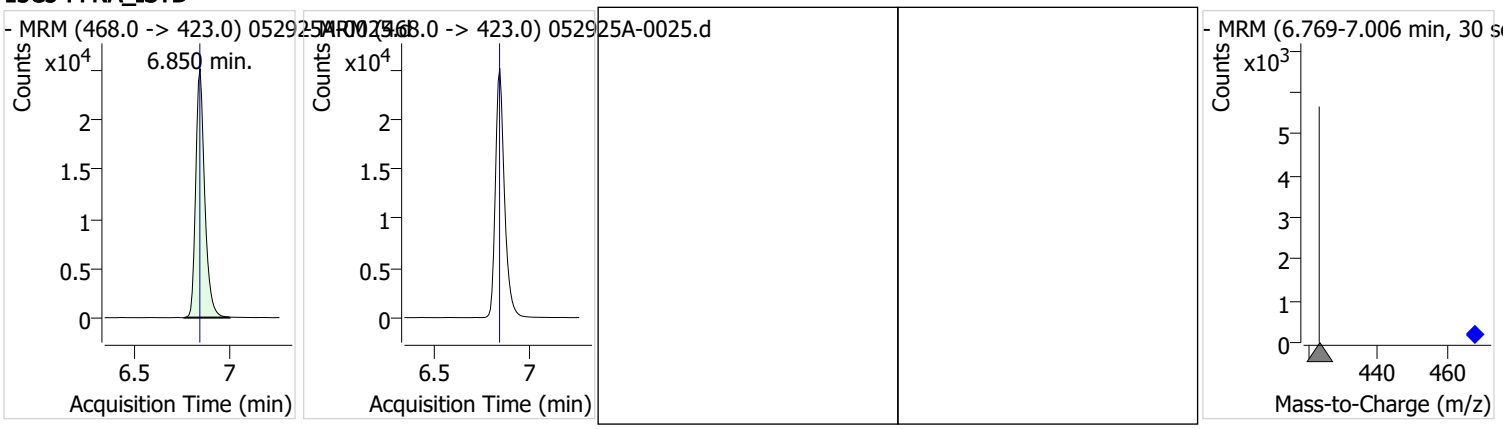
13C4-PFOA_ISTD



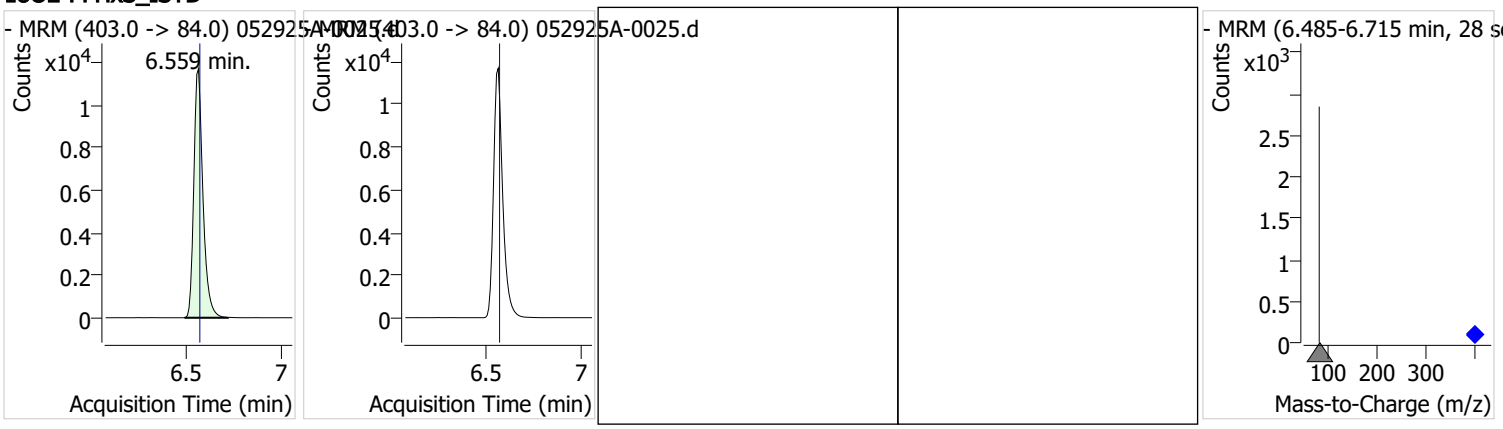
13C3-PFBA_ISTD



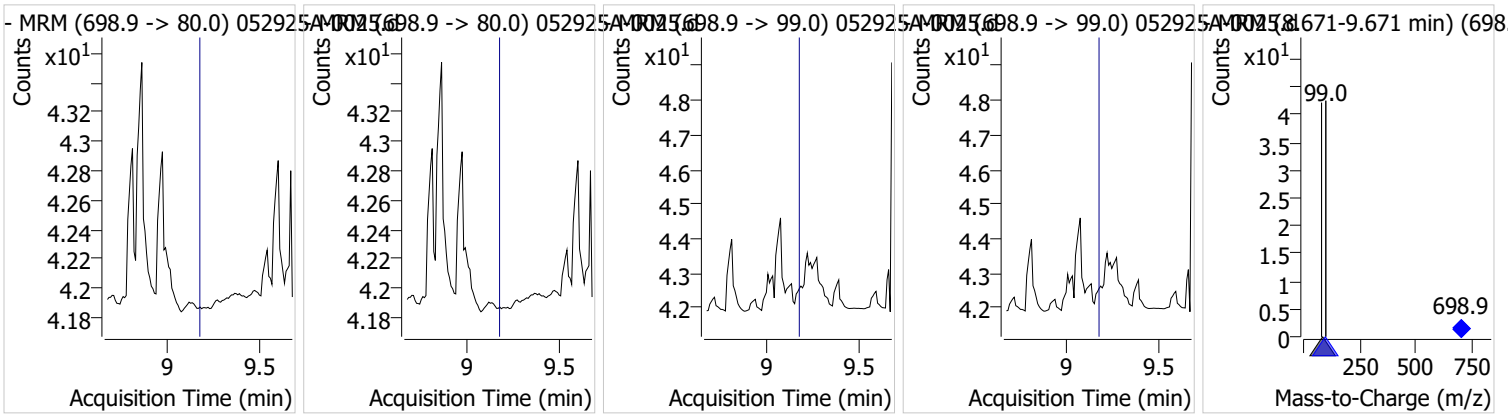
13C5-PFNA_ISTD



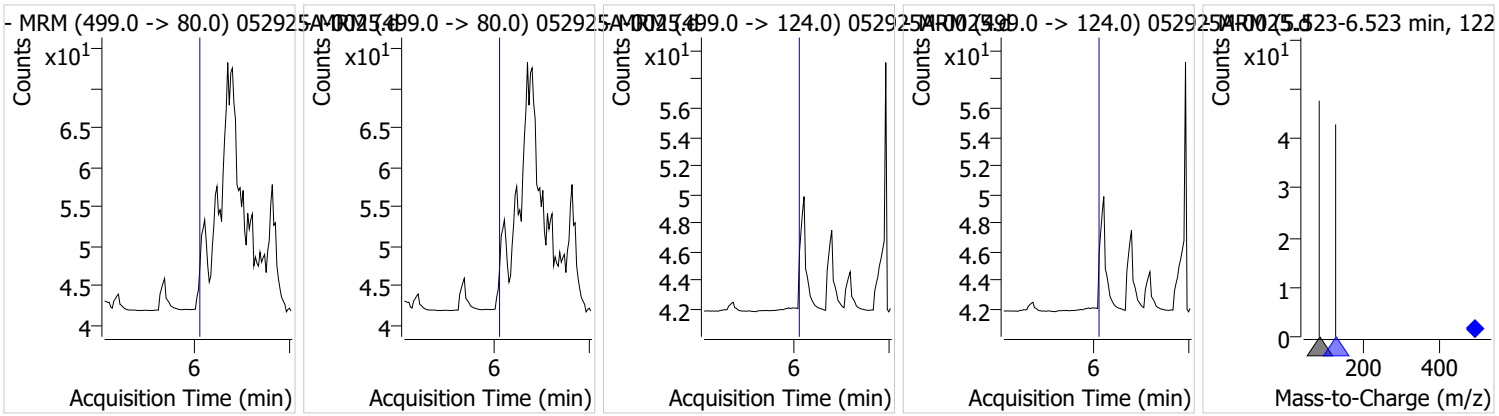
18O2-PFHxS_ISTD



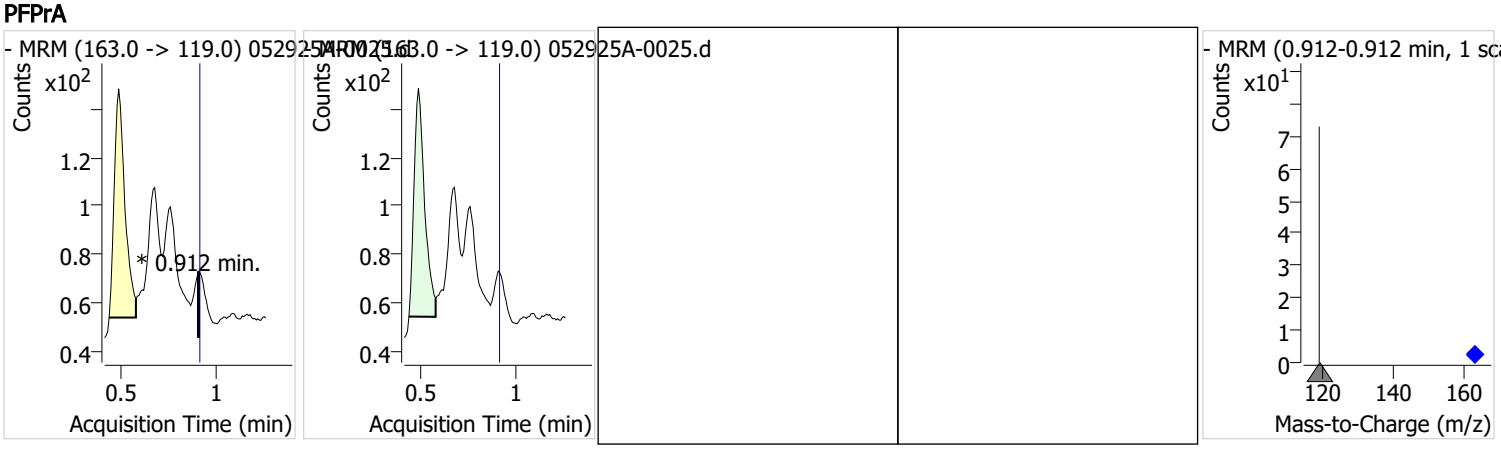
PFDoS



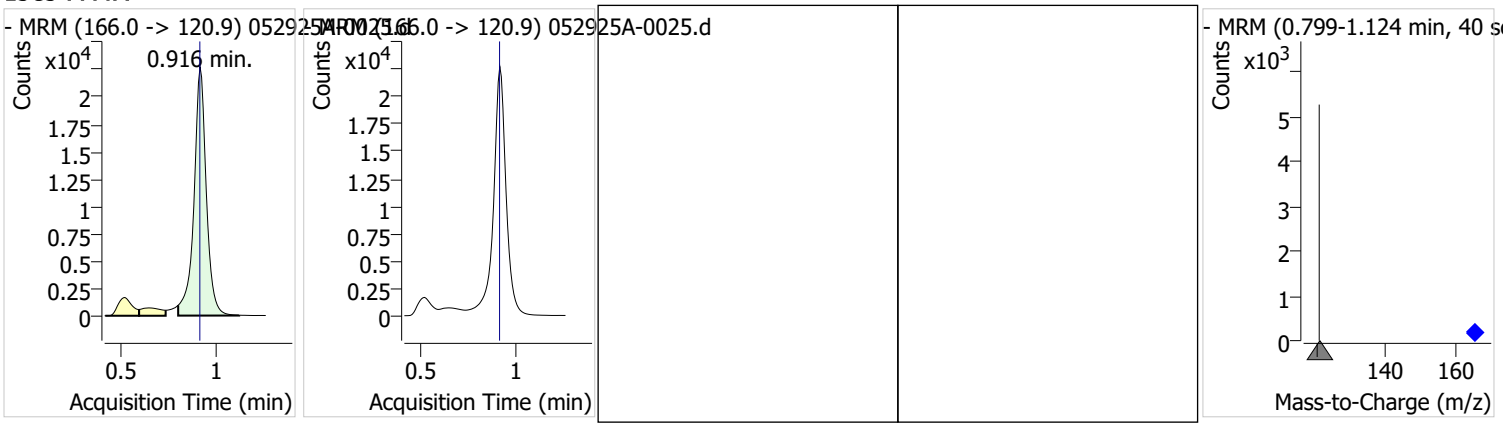
TDCA



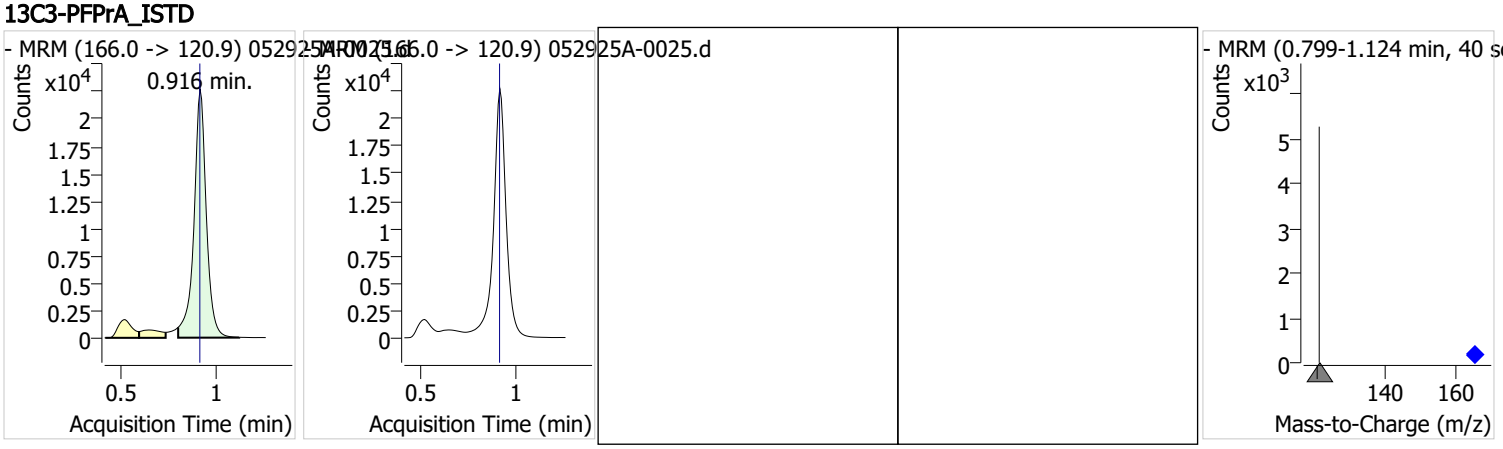
PFPrA



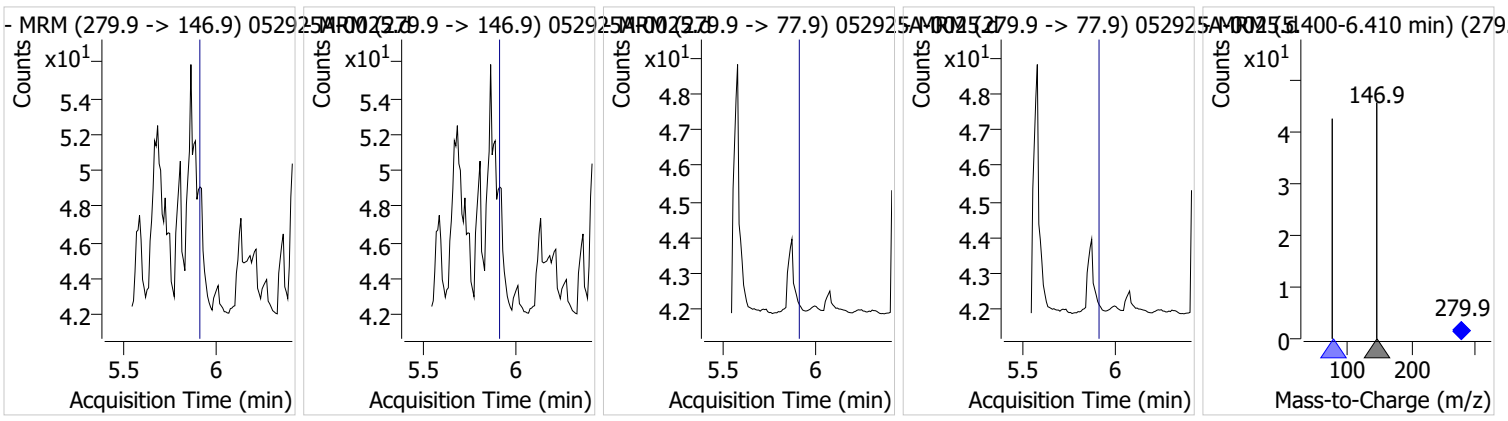
13C3-PFPrA



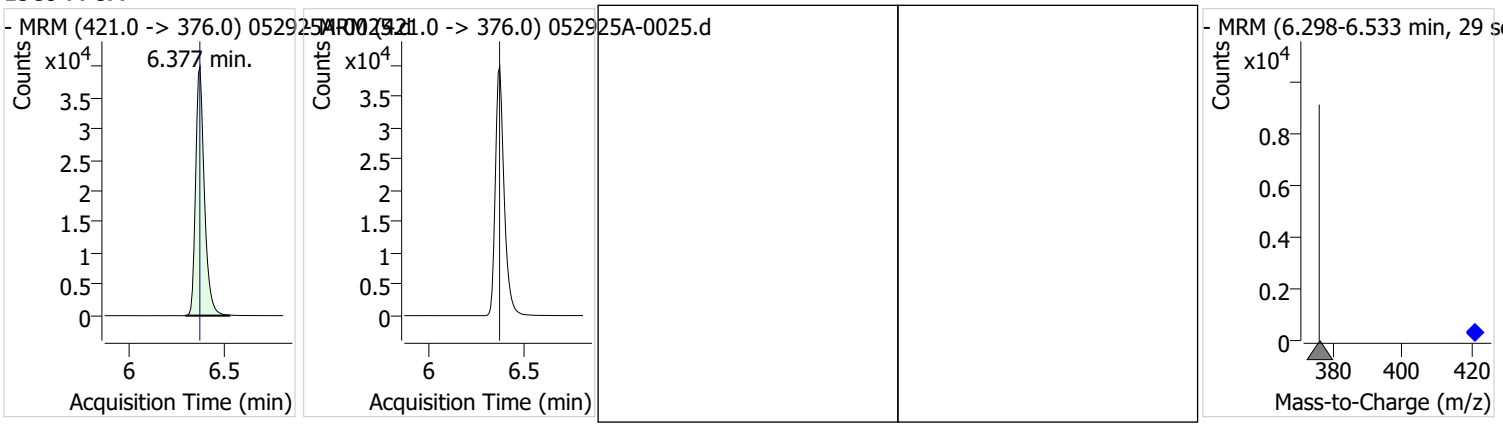
13C3-PFPrA_ISTD



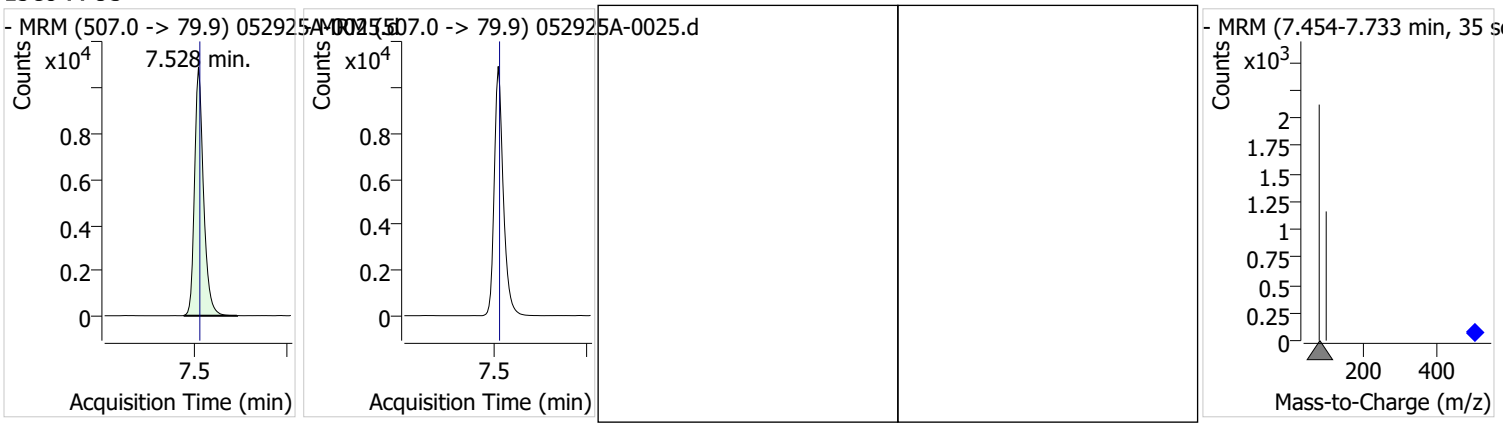
TFSI



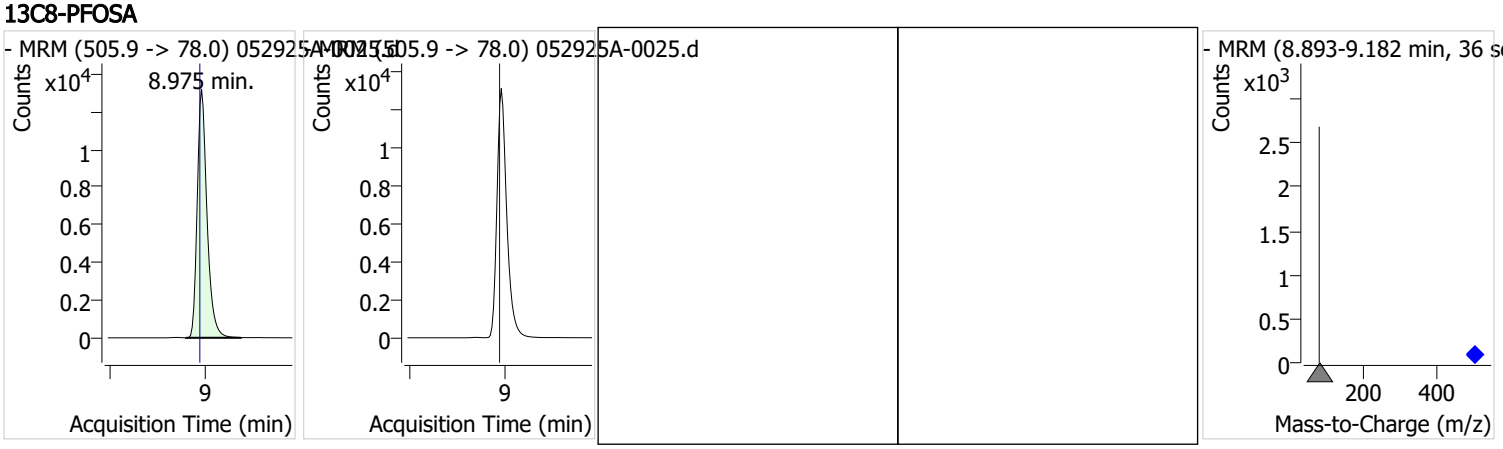
13C8-PFOA



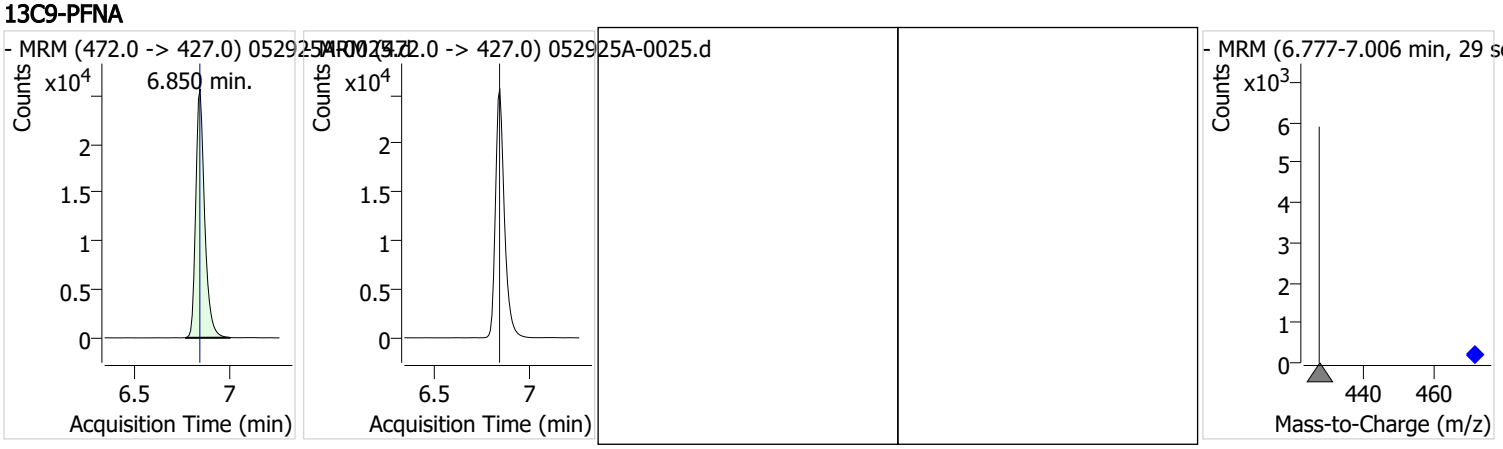
13C8-PFOS



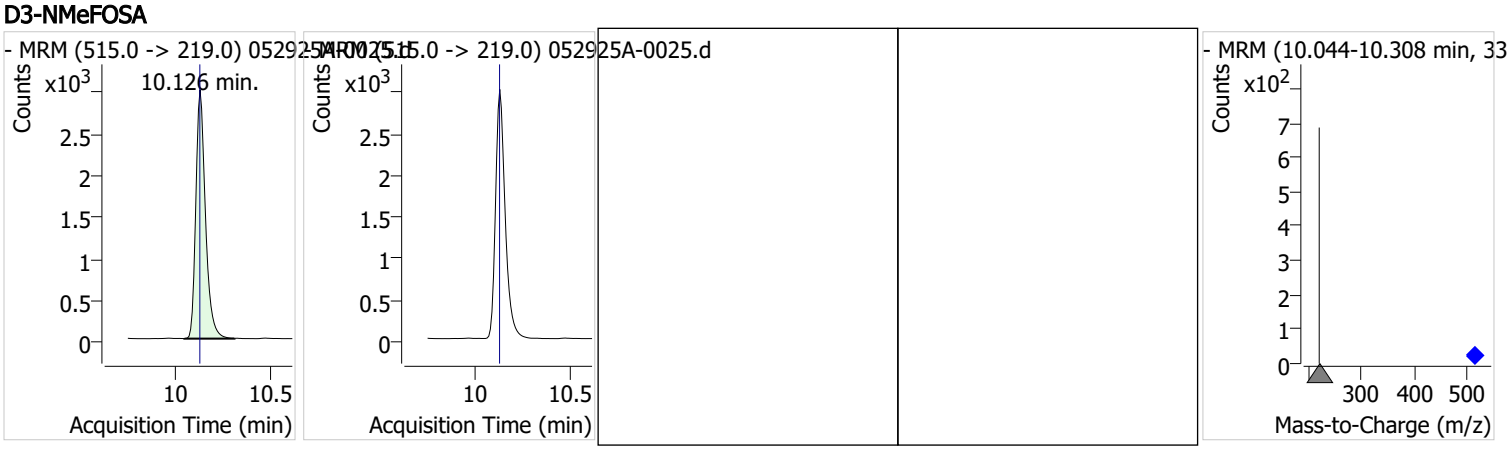
13C8-PFOSA



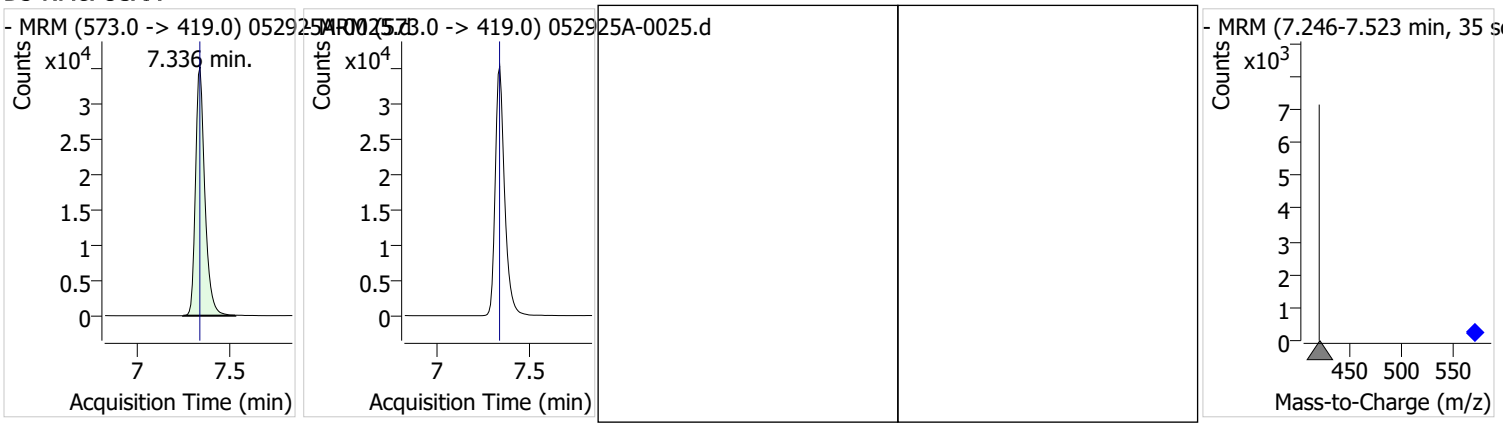
13C9-PFNA



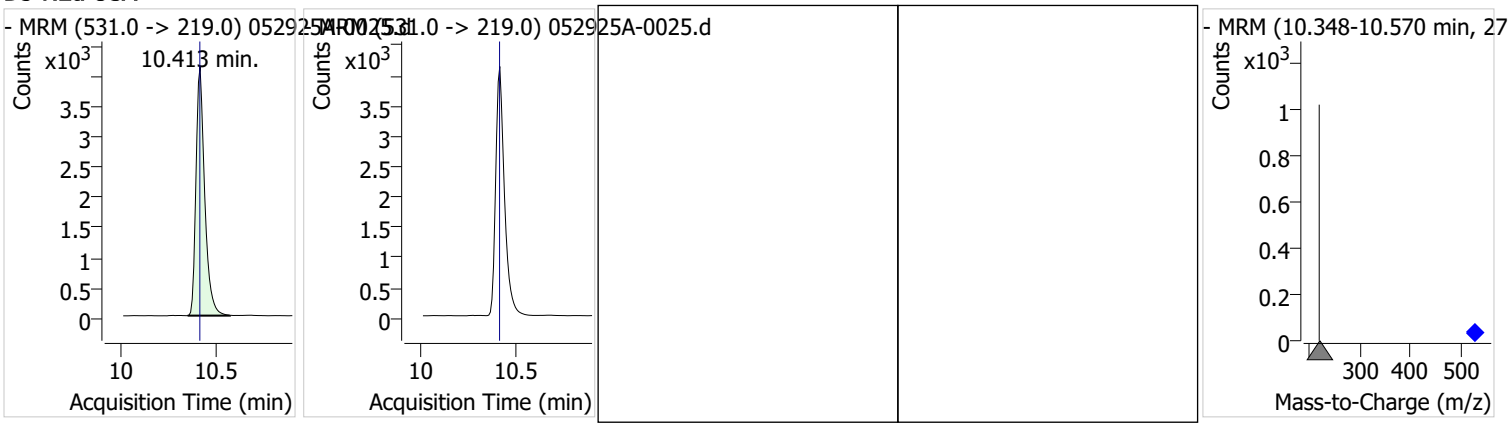
D3-NMeFOSA



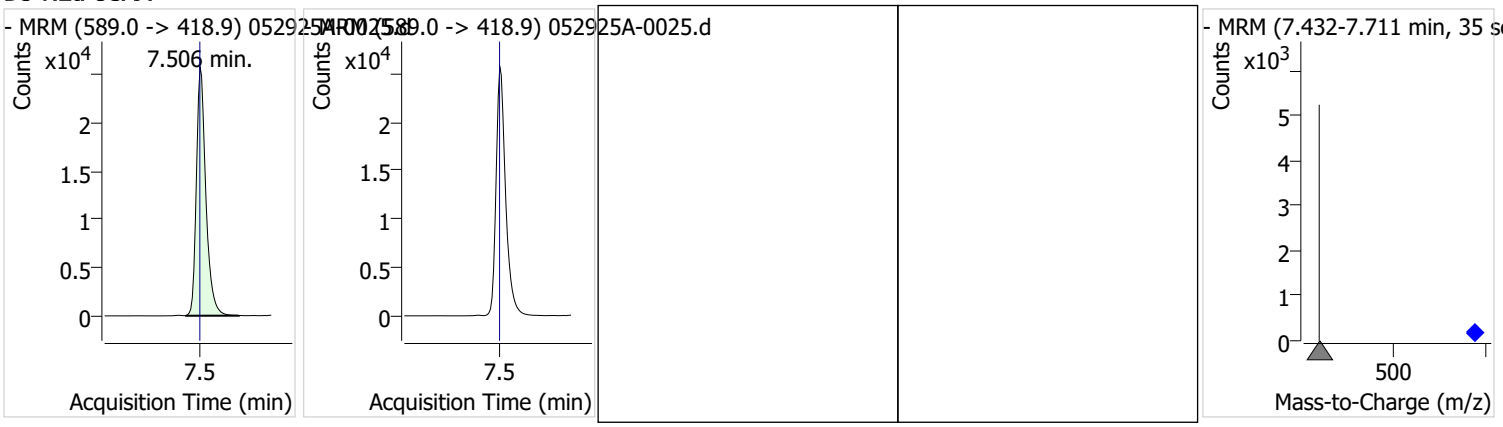
D3-NMeFOSAA



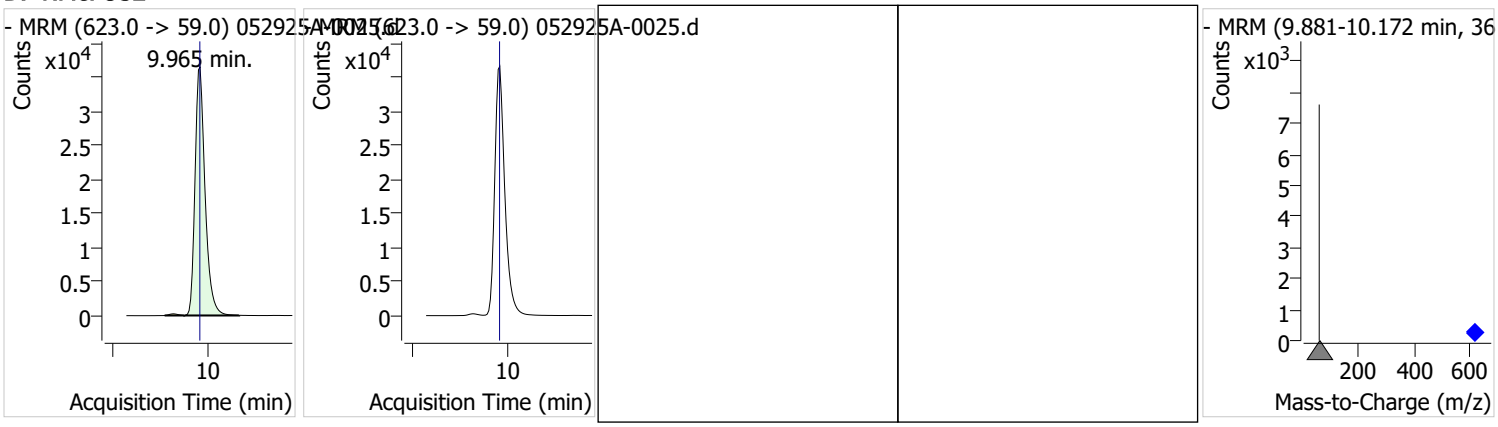
D5-NEtFOSA



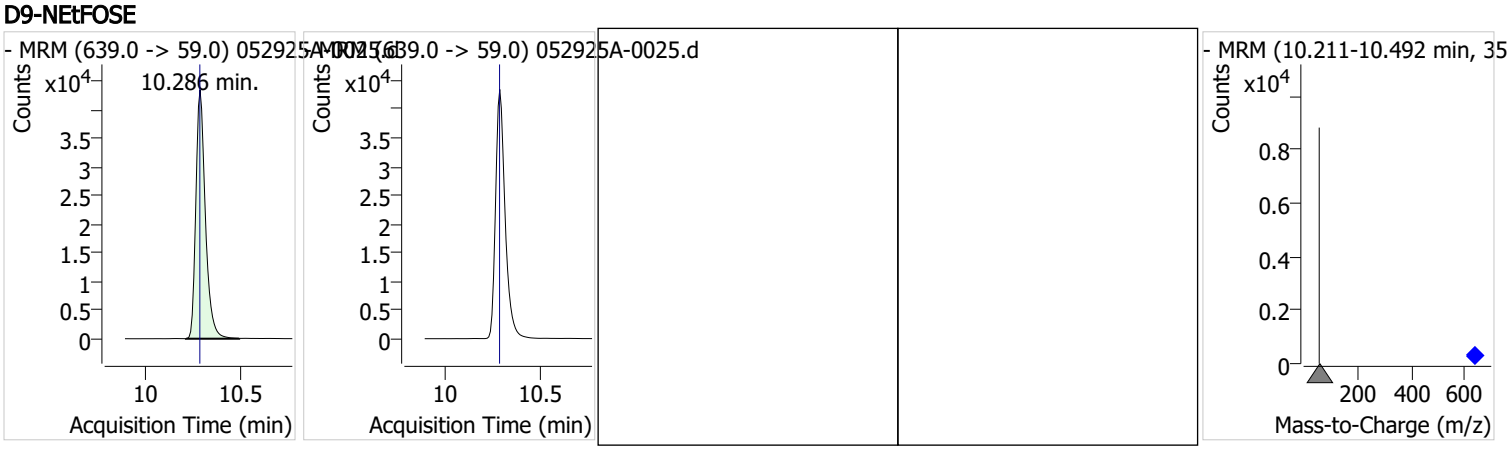
D5-NEtFOSAA



D7-NMeFOSE

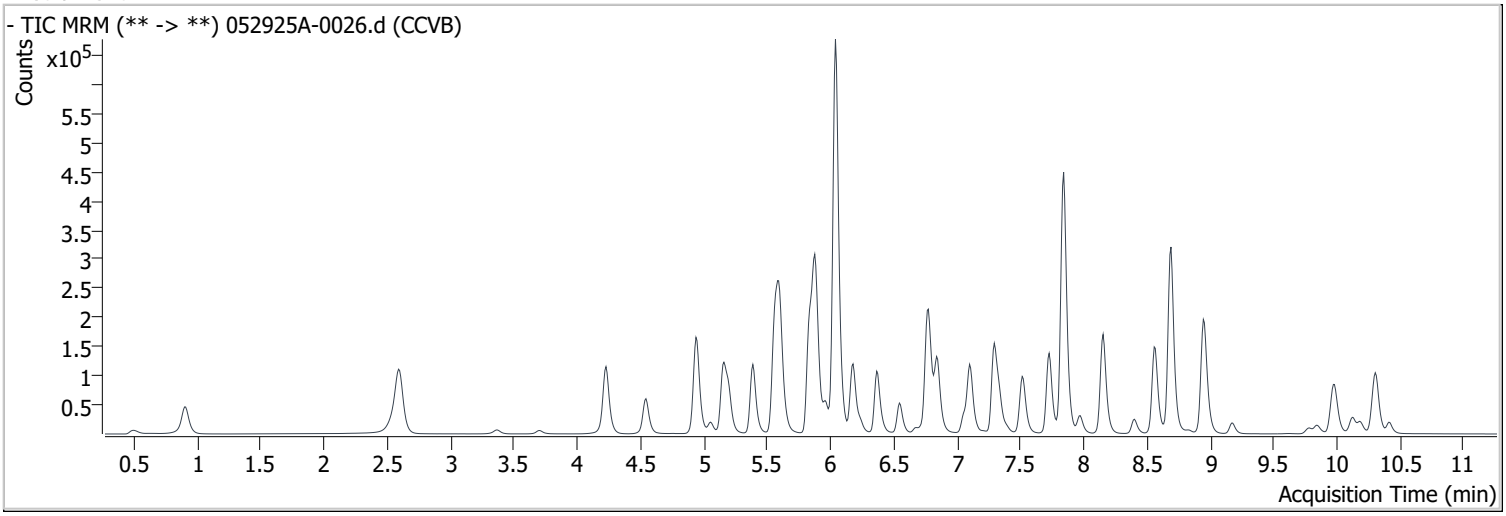


D9-NEtFOSE



Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-B 6320.batch.bin		
Analysis Time	5/30/2025 12:34 PM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 4:03 PM	**Data File**	052925A-0026.d
Sample Type	CC	**Sample Name**	CCVB
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510289	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	164964	11469.76		13C3-HFPODA_ISTD	5.394	82366	20.4029	ng/ml			
285.0 -> 184.9	5.394	98911	14578.92	60.0								
4:2FTS	4.938	352086	208483.09		13C2-4:2FTS_ISTD	4.938	28082	19.0488	ng/ml			
327.0 -> 80.9	4.939	129359	8570.35	36.7								
6:2FTS	6.180	205242	7449.14		13C2-6:2FTS_ISTD	6.180	20363	18.7127	ng/ml			
427.0 -> 80.9	6.181	91921	316730.21	44.8								
ADONA	6.044	1497209	391682.71		13C4-PFHpA_ISTD	5.831	139415	16.5626	ng/ml			
377.0 -> 85.1	6.044	618298	13023.39	41.3								
8:2FTS	7.100	209049	893435.77		13C2-8:2FTS_ISTD	7.100	19990	19.0785	ng/ml			
527.0 -> 81.0	7.101	91681	27117.76	43.9								
13C4-PFBA	2.589	179879	32248.16		13C3-PFBA_ISTD	2.592	76933	9.6066	ng/ml			
9Cl-PF3ONS	7.846	1185754	80106.38		13C8-PFOS_ISTD	7.528	27394	19.1434	ng/ml			
533.0 -> 353.0	7.846	323882	18886.37	27.3								
11Cl-PF3OUdS	8.694	865724	607049.63		13C8-PFOS_ISTD	7.528	27394	19.9627	ng/ml			
633.0 -> 453.0	8.693	214476	24571.18	24.8								
PFHpS	7.055	71171	21269.95		13C8-PFOS_ISTD	7.528	27394	4.6815	ng/ml			
449.0 -> 98.8	7.064	32307	5662.04	45.4								
13C2-4:2FTS	4.938	28082	7999.76		18O2-PFHxS_ISTD	6.550	29091	5.6061	ng/ml			
13C2-6:2FTS	6.180	20363	20949.81		18O2-PFHxS_ISTD	6.550	29091	5.3954	ng/ml			
13C2-8:2FTS	7.100	19990	41577.89		18O2-PFHxS_ISTD	6.550	29091	5.2766	ng/ml			
13C2-PFDoA	8.154	94698	242228.75		13C2-PFDA_ISTD	7.298	60624	1.2502	ng/ml			
13C2-PFDA	7.298	60624	18347.81					1.2469	ng/ml			
13C2-PFHxA	5.154	77331	8631.64					2.5089	ng/ml			
13C2-PFTeDA	8.944	102840	7489.03		13C2-PFDA_ISTD	7.298	60624	1.2083	ng/ml			
13C4-PFOS	7.529	27805	173779.05					2.5224	ng/ml			
13C3-HFPODA	5.394	82366	97183.15		13C2-PFHxA_ISTD	5.154	77331	9.9688	ng/ml			
13C3-PFBS	5.196	48766	92916.83		18O2-PFHxS_ISTD	6.550	29091	2.4553	ng/ml			
13C3-PFHxS	6.551	32889	9977.76		18O2-PFHxS_ISTD	6.550	29091	2.4455	ng/ml			
NEtFOSAA	7.434	66700	2539.95		D5-NEtFOSAA_ISTD	7.506	74129	4.6219	ng/ml			
584.0 -> 526.0	7.433	59917	1528.05	89.8								

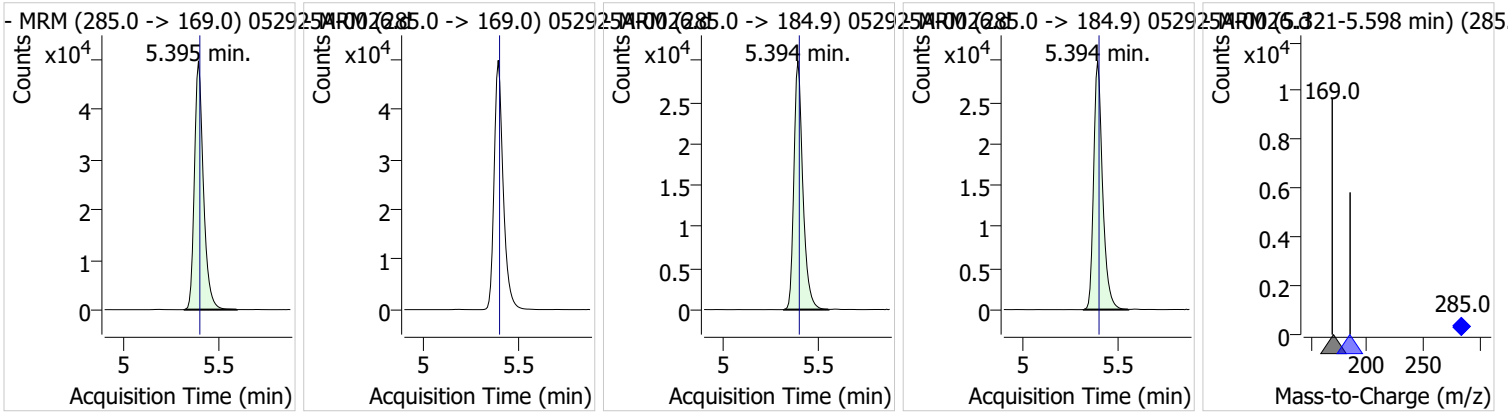
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	139415	5648.48		13C2-PFHxA_ISTD	5.154	77331	2.5387	ng/ml			
NMeFOSAA	7.247	31788	6876.93		D3-NMeFOSAA_ISTD	7.327	93081	4.5945	ng/ml			
570.0 -> 483.0	7.246	41175	1522.00	129.5								
PFBA	2.594	358390	1373.48		13C4-PFBA_ISTD	2.589	179879	19.9934	ng/ml			
13C5-PFHxA	5.153	85758	15522.02		13C2-PFHxA_ISTD	5.154	77331	2.4981	ng/ml			
PFBS	5.197	114672	17187.71		13C3-PFBS_ISTD	5.196	48766	4.4585	ng/ml			
298.9 -> 98.8	5.197	39641	4198.43	34.6								
NMeFOSA	10.073	27524	3195.63		D3-NMeFOSA_ISTD	10.126	11390	5.0767	ng/ml			
512.0 -> 169.0	10.074	37904	2242.10	137.7								
PFDA	7.298	296721	4271.21		13C6-PFDA_ISTD	7.297	71860	5.0461	ng/ml			
513.0 -> 219.0	7.298	54676	184756.24	18.4								
PFDoA	8.155	432078	24329.72		13C2-PFDoA_ISTD	8.154	94698	5.0658	ng/ml			
613.0 -> 319.0	8.155	48766	19531.38	11.3								
NEtFOSA	10.377	34009	3523.77		D5-NEtFOSA_ISTD	10.413	14389	4.8313	ng/ml			
526.0 -> 169.0	10.377	46119	1995.14	135.6								
PFHpA	5.831	318343	3768.85		13C4-PFHpA_ISTD	5.831	139415	5.0900	ng/ml			
362.9 -> 169.0	5.839	51538	15670.20	16.2								
PFHxA	5.155	198868	2009.78		13C5-PFHxA_ISTD	5.153	85758	4.9706	ng/ml			
313.0 -> 118.9	5.155	6318	2484.20	3.2								
NMeFOSE	9.899	293773	3058.92		D7-NMeFOSE_ISTD	9.965	118639	50.3033	ng/ml			
PFHxS	6.498	74550	7666.98		13C3-PFHxS_ISTD	6.551	32889	4.4863	ng/ml			
398.9 -> 99.0	6.498	33472	2449.75	44.9								
PFNA	6.789	224014	5453.53		13C9-PFNA_ISTD	6.850	62829	5.0950	ng/ml			
463.0 -> 219.0	6.789	65680	2158.02	29.3								
NEtFOSE	10.249	362766	1994.82		D9-NEtFOSE_ISTD	10.286	133427	50.1817	ng/ml			
PFOA	6.300	219272	4561.04		13C8-PFOA_ISTD	6.368	97159	4.7777	ng/ml			
413.0 -> 169.0	6.300	63177	4153.41	28.8								
PFOS	7.399	68617	4866.95		13C8-PFOS_ISTD	7.528	27394	4.2372	ng/ml			
499.0 -> 99.0	7.402	33190	7732.72	48.4								
PFPeA	4.231	299573	23829.84		13C5-PFPeA_ISTD	4.229	133977	9.9318	ng/ml			
PFMPA	3.368	30669	2218.65		13C4-PFBA_ISTD	2.589	179879	9.8562	ng/ml			
13C5-PFPeA	4.229	133977	6514.03		13C2-PFHxA_ISTD	5.154	77331	4.8919	ng/ml			
PFMBA	4.547	221496	112252.24		13C5-PFPeA_ISTD	4.229	133977	9.9540	ng/ml			
PFTrDA	8.559	472653	9227.92		13C2-PFDoA_ISTD	8.154	94698	4.7455	ng/ml			
663.0 -> 168.9	8.559	42373	12260.67	9.0								
PFEESA	5.562	616691	23741.15		13C5-PFHxA_ISTD	5.153	85758	8.9959	ng/ml			
315.0 -> 83.0	5.562	43363	3709.33	7.0								
13C6-PFDA	7.297	71860	30625.27		13C2-PFDA_ISTD	7.298	60624	1.2588	ng/ml			
NFDHA	5.058	45372	13373.26		13C5-PFHxA_ISTD	5.153	85758	9.7803	ng/ml			
295.0 -> 85.0	5.058	15041	5022.40	33.2								
PFOSA	8.899	85492	4334.36		13C8-PFOSA_ISTD	8.975	39288	4.9471	ng/ml			
497.9 -> 478.0	8.902	2335	551.45	2.7								
13C7-PFUnA	7.729	79612	24032.53		13C2-PFDA_ISTD	7.298	60624	1.2487	ng/ml			
13C4-PFOA	6.369	20214	6300.79					2.4447	ng/ml			
PFDS	8.406	54669	7150.23		13C8-PFOS_ISTD	7.528	27394	4.7458	ng/ml			
599.0 -> 98.8	8.405	27591	3246.50	50.5								
PFNS	7.977	67576	18766.05		13C8-PFOS_ISTD	7.528	27394	4.7719	ng/ml			
549.0 -> 98.8	7.977	29874	1845.60	44.2								
PFPeS	5.971	98042	12773.63		13C3-PFHxS_ISTD	6.551	32889	4.7531	ng/ml			
349.0 -> 98.9	5.971	42668	1319.35	43.5								
PFTeDA	8.945	481911	19995.42		13C2-PFTeDA_ISTD	8.944	102840	5.0768	ng/ml			

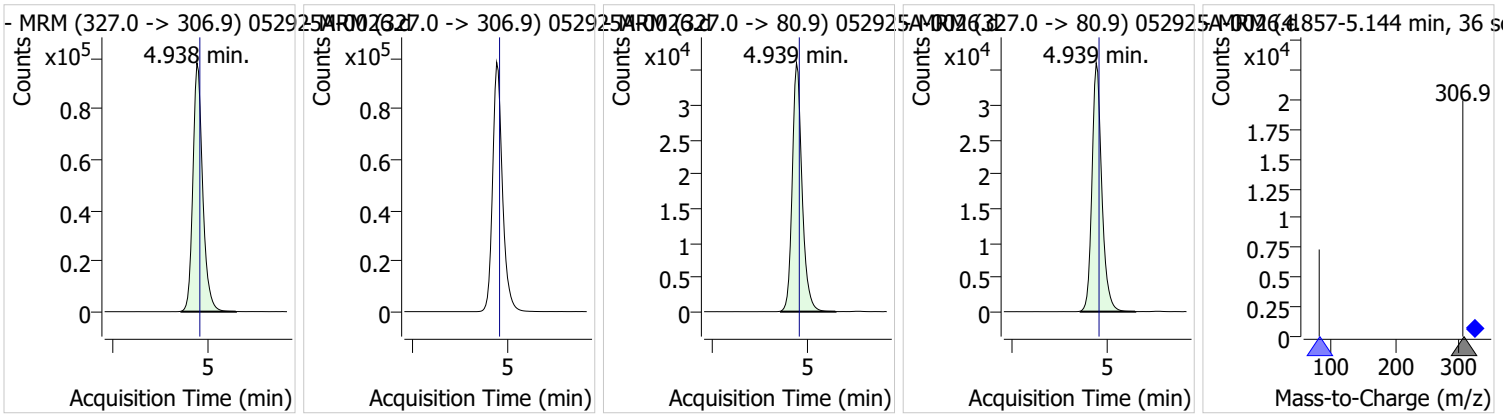
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.946	26750	7702.11	5.6								
PFUnA	7.730	322576	3729.52		13C7-PFUnA_ISTD	7.729	79612	4.8519	ng/ml			
563.0 -> 269.1	7.730	57323	16999.48	17.8								
13C3-PFBA	2.592	76933	1238.19					5.0659	ng/ml			
3:3FTCA	3.704	15178	709.29		13C5-PFPeA_ISTD	4.229	133977	20.0057	ng/ml			
241.0 -> 117.0	3.698	8551	919.98	56.3								
5:3FTCA	5.601	369741	46220.17		13C5-PFHxA_ISTD	5.153	85758	115.5197	ng/ml			
341.0 -> 217.0	5.602	329896	89473.82	89.2								
7:3FTCA	6.778	405595	10984.52		13C9-PFNA_ISTD	6.850	62829	120.6692	ng/ml			
441.0 -> 337.0	6.778	435559	17778.44	107.4								
13C5-PFNA	6.850	60588	18387.16					1.2812	ng/ml			
18O2-PFHxS	6.550	29091	8784.91					2.5610	ng/ml			
PFDoS	9.171	40482	11776.04		13C8-PFOS_ISTD	7.528	27394	5.2276	ng/ml			
698.9 -> 99.0	9.179	21906	8035.29	54.1								
TDCA	6.023	57462	12627.33		13C8-PFOS_ISTD	7.528	27394	13.1611	ng/ml			
499.0 -> 124.0	6.023	99601	42655.18	173.3								
PFPrA	0.903	137169	10282.47		13C3-PFPrA_ISTD	0.907	79511	19.6332	ng/ml			
13C3-PFPrA	0.907	79511	25240.31		13C3-PFBA_ISTD	2.592	76933	9.5536	ng/ml			
TFSI	5.883	636790	13688.59		13C3-HFPODA_ISTD	5.394	82366	9.8034	ng/ml			
279.9 -> 77.9	5.884	446113	890302.03	70.1								
13C8-PFOA	6.368	97159	29916.92		13C4-PFOA_ISTD	6.369	20214	2.5654	ng/ml			
13C8-PFOS	7.528	27394	11428.92		13C4-PFOS_ISTD	7.529	27805	2.5191	ng/ml			
13C8-PFOSA	8.975	39288	10942.81		13C4-PFOS_ISTD	7.529	27805	2.5126	ng/ml			
13C9-PFNA	6.850	62829	18828.02		13C5-PFNA_ISTD	6.850	60588	1.1737	ng/ml			
D3-NMeFOSA	10.126	11390	1438.22		13C4-PFOS_ISTD	7.529	27805	2.2863	ng/ml			
D3-NMeFOSAA	7.327	93081	2278.68		13C4-PFOS_ISTD	7.529	27805	5.3822	ng/ml			
D5-NEtFOSA	10.413	14389	2317.10		13C4-PFOS_ISTD	7.529	27805	2.4027	ng/ml			
D5-NEtFOSAA	7.506	74129	10333.95		13C4-PFOS_ISTD	7.529	27805	5.6440	ng/ml			
D7-NMeFOSE	9.965	118639	16136.72		13C4-PFOS_ISTD	7.529	27805	24.8058	ng/ml			
D9-NEtFOSE	10.286	133427	4642.10		13C4-PFOS_ISTD	7.529	27805	25.1235	ng/ml			

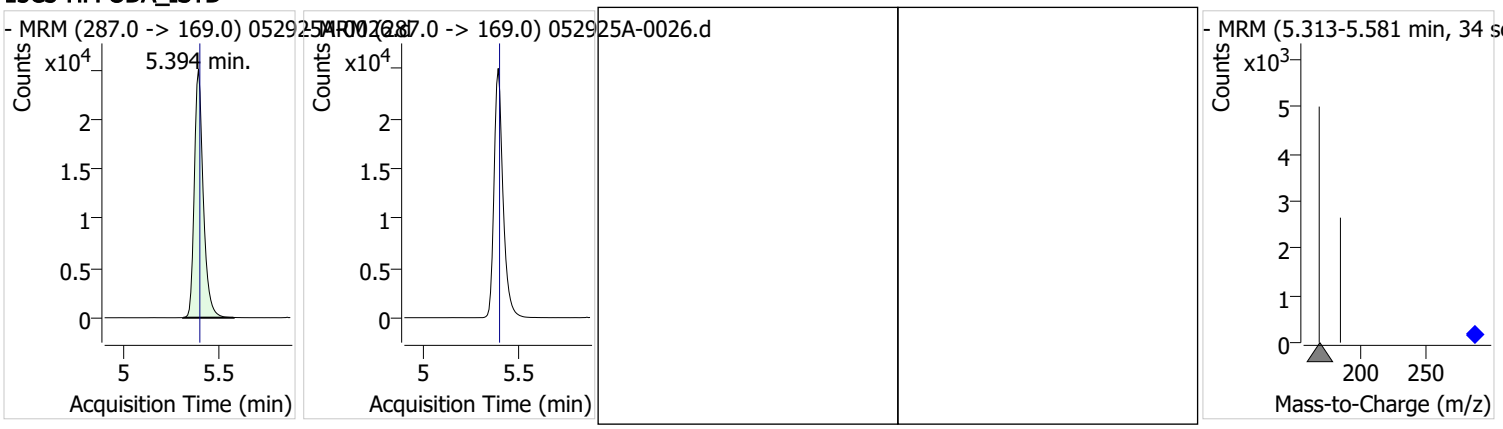
HFPO-DA



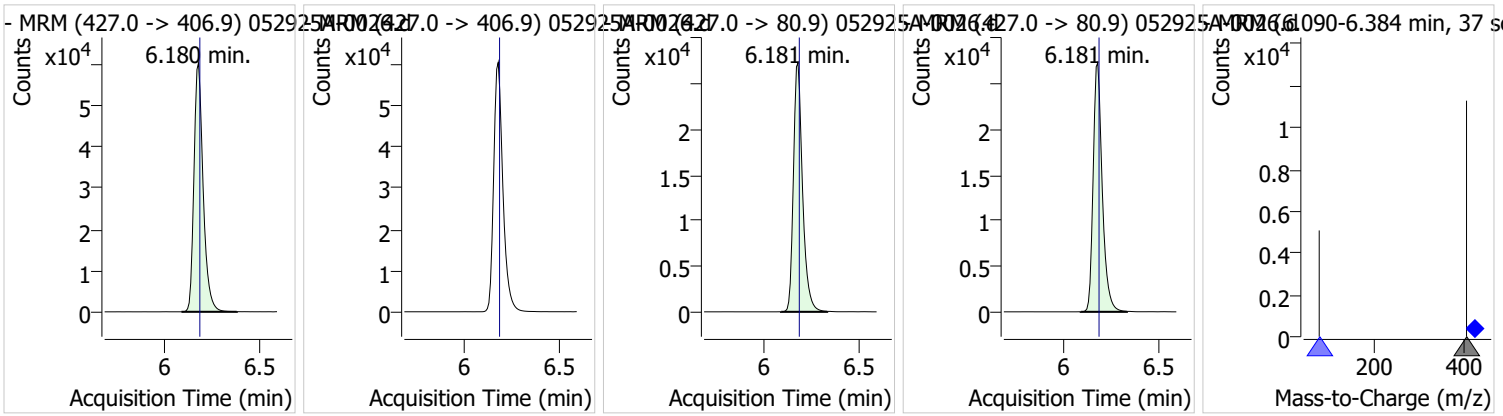
4:2FTS



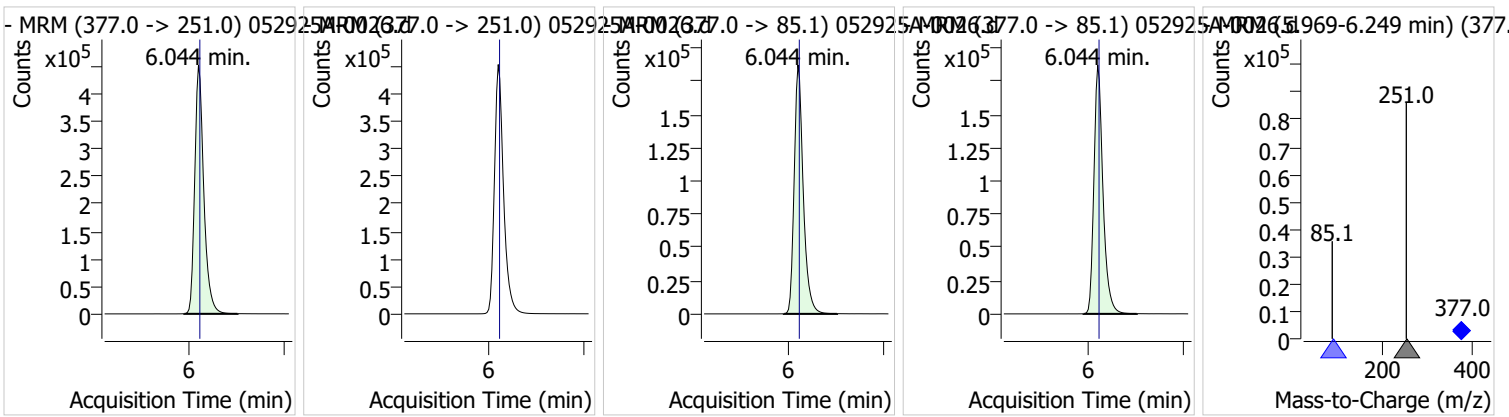
13C3-HFPODA_ISTD



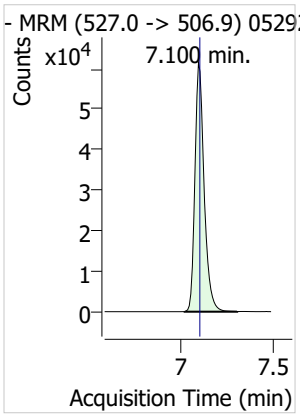
6:2FTS

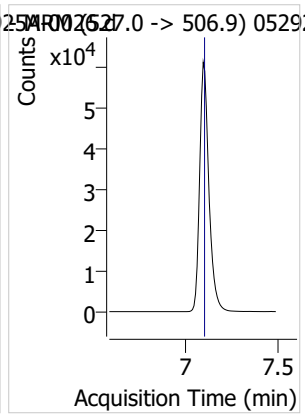


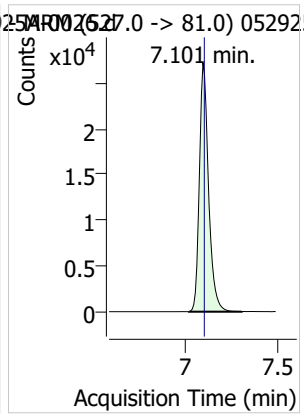
ADONA

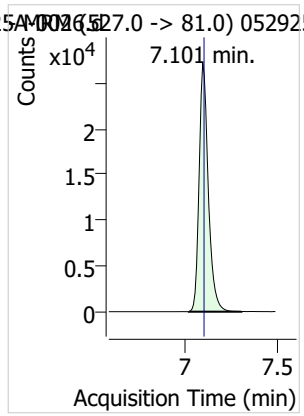


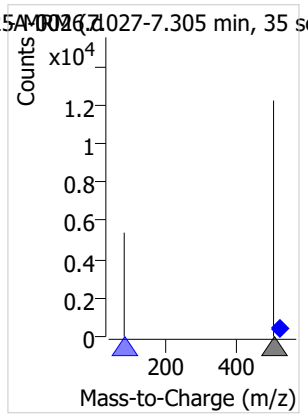
8:2FTS



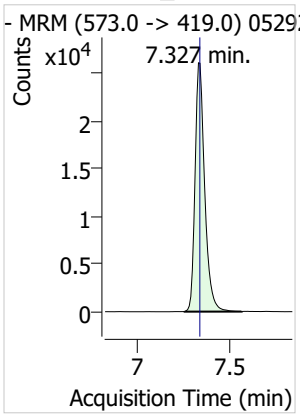


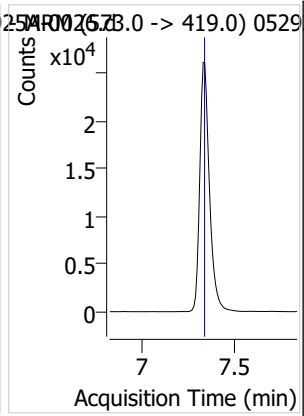


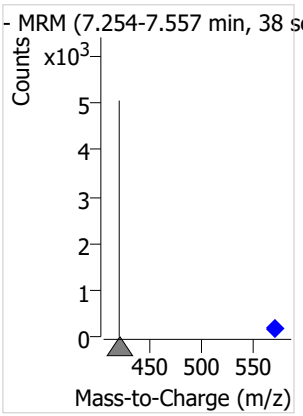




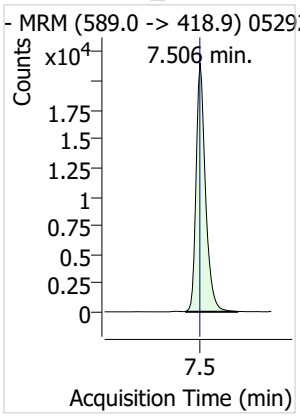
D3-NMeFOSAA_ISTD

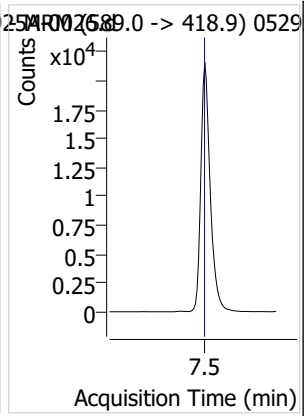


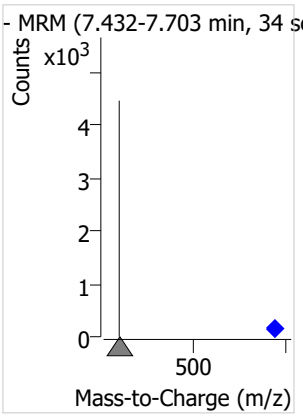




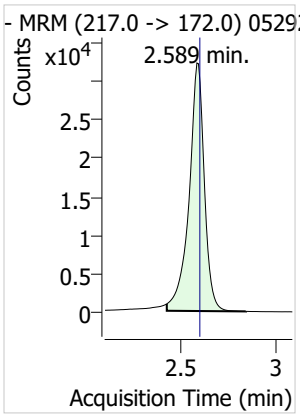
D5-NEtFOSAA_ISTD

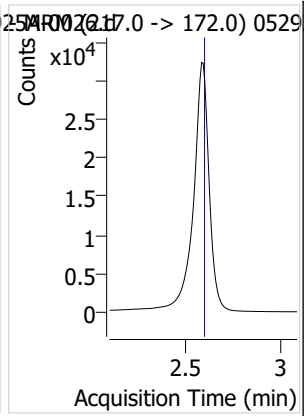


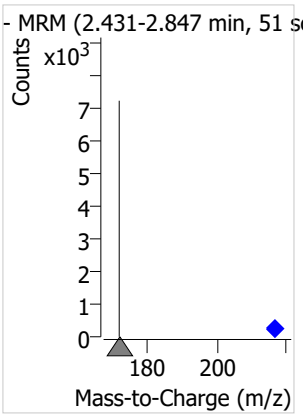




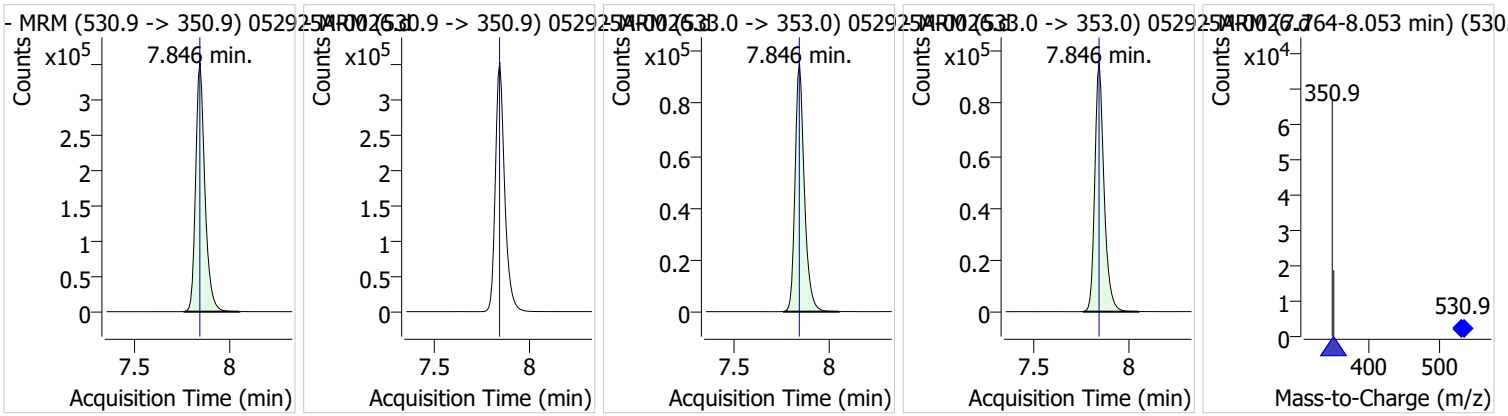
13C4-PFBA



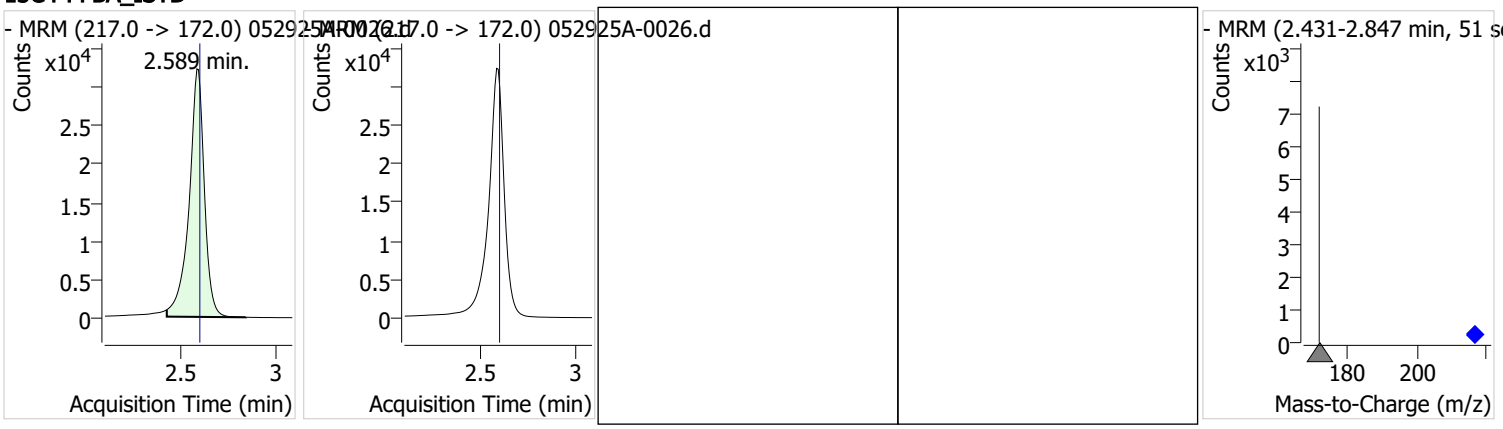




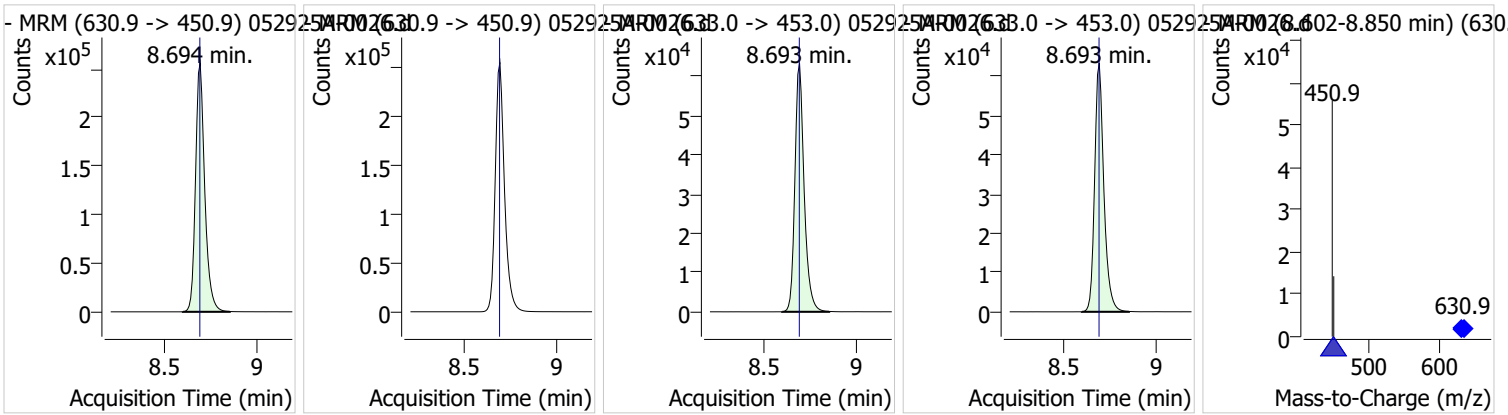
9Cl-PF3ONS



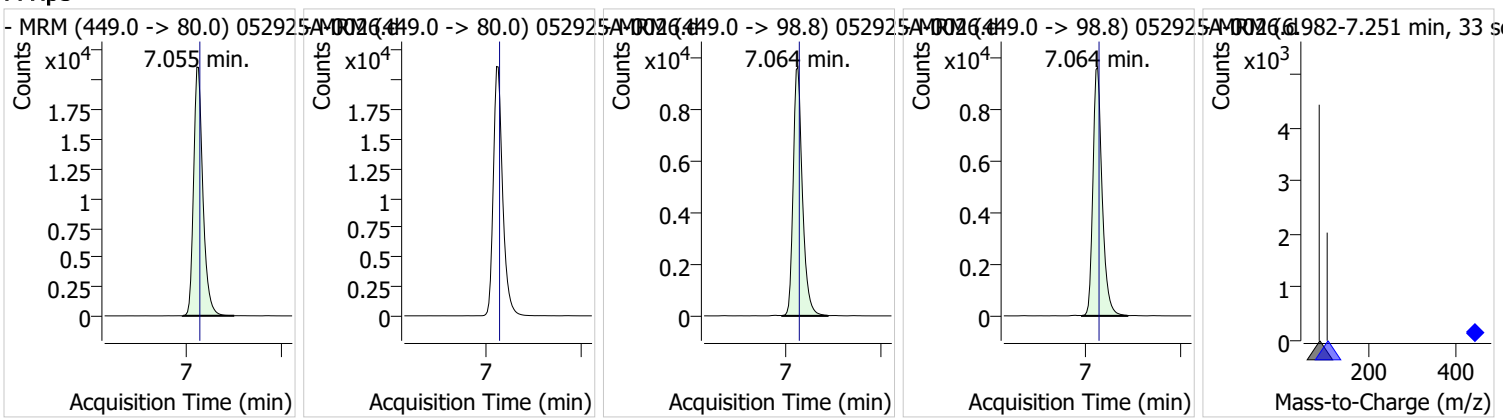
13C4-PFBA_ISTD



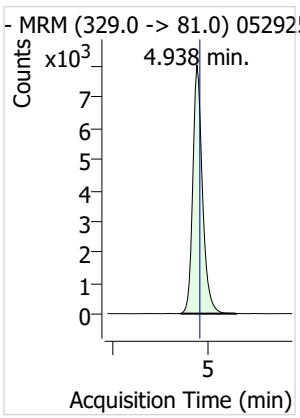
11Cl-PF3OUdS

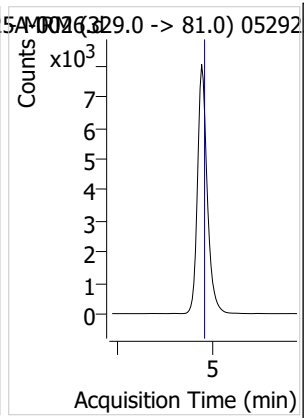


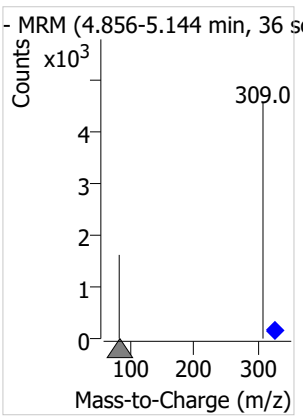
PFHpS



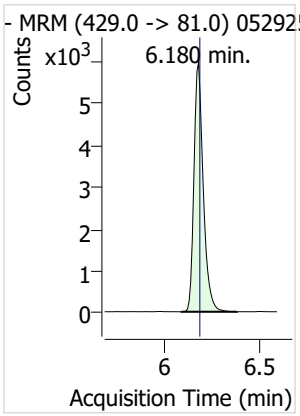
13C2-4:2FTS

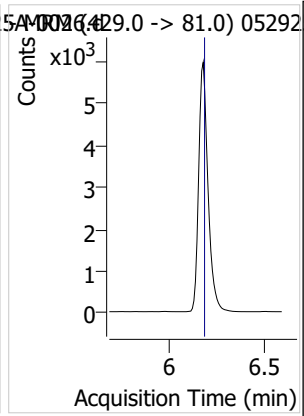


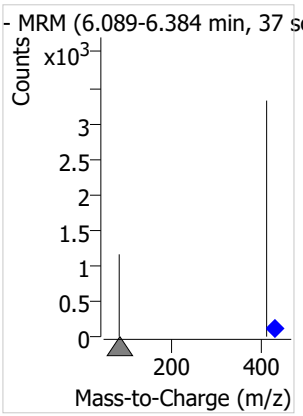




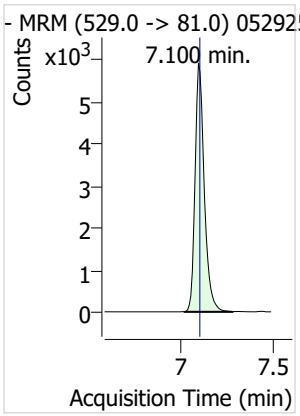
13C2-6:2FTS

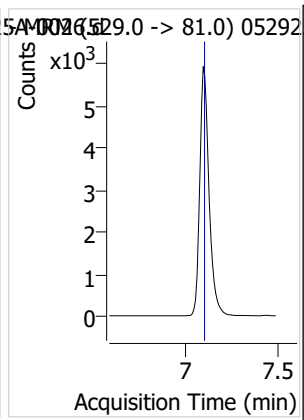


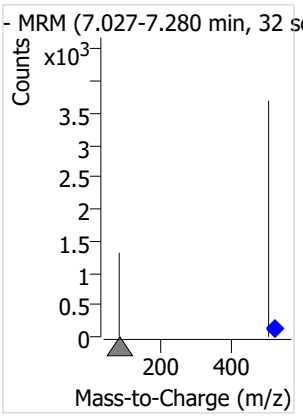




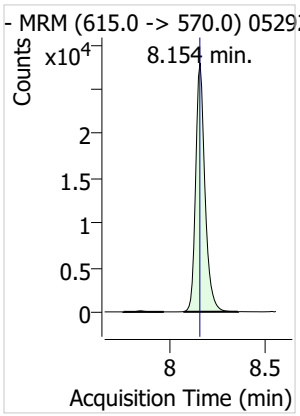
13C2-8:2FTS

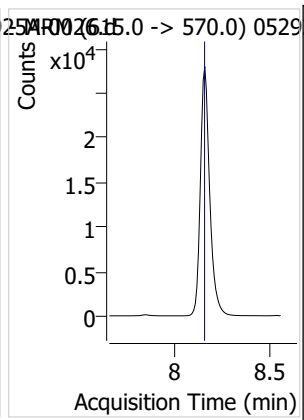


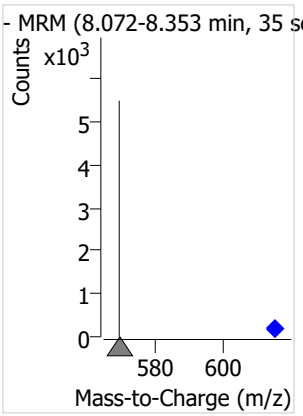




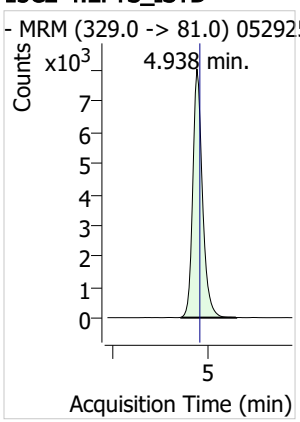
13C2-PFDoA

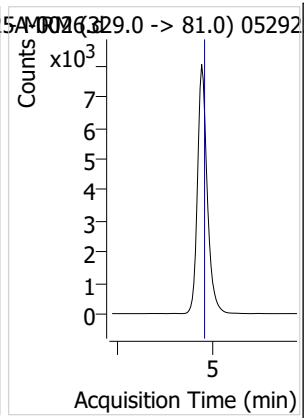


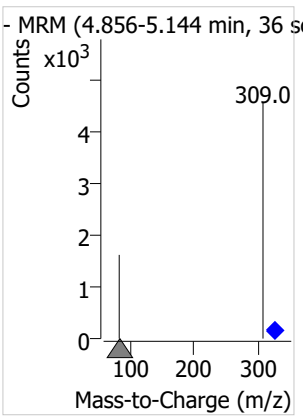




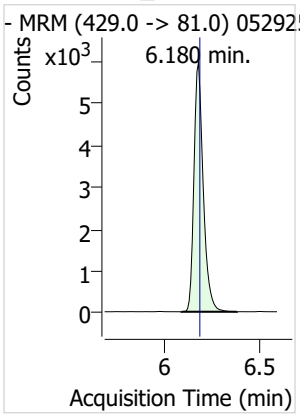
13C2-4:2FTS_ISTD

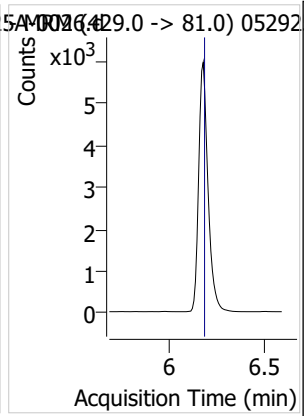


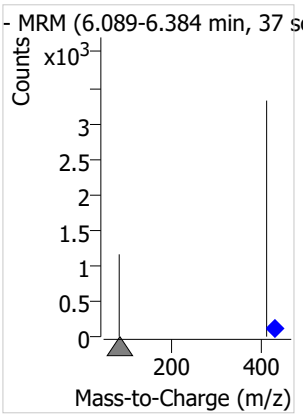




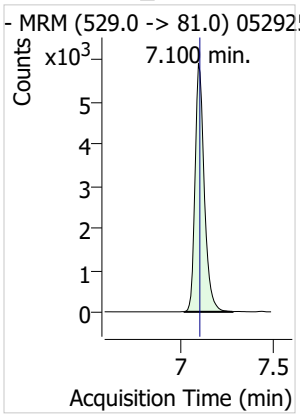
13C2-6:2FTS_ISTD

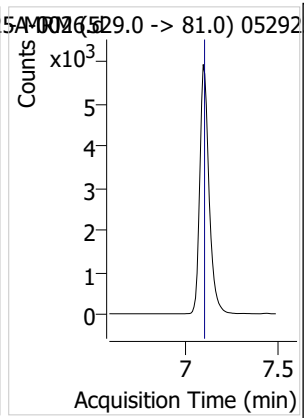


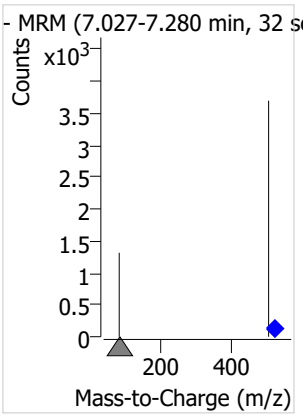




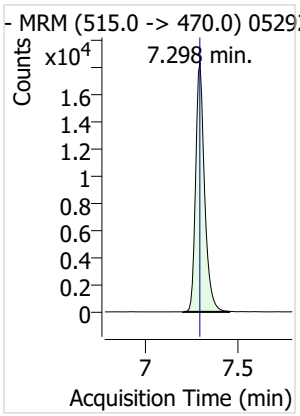
13C2-8:2FTS_ISTD

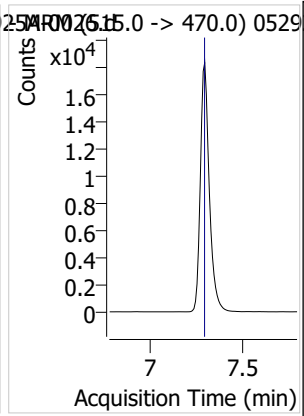


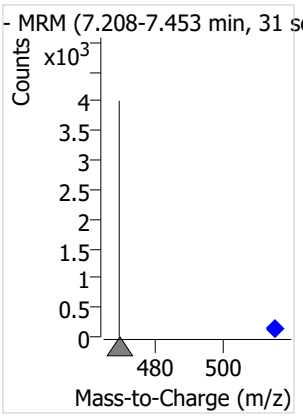




13C2-PFDA



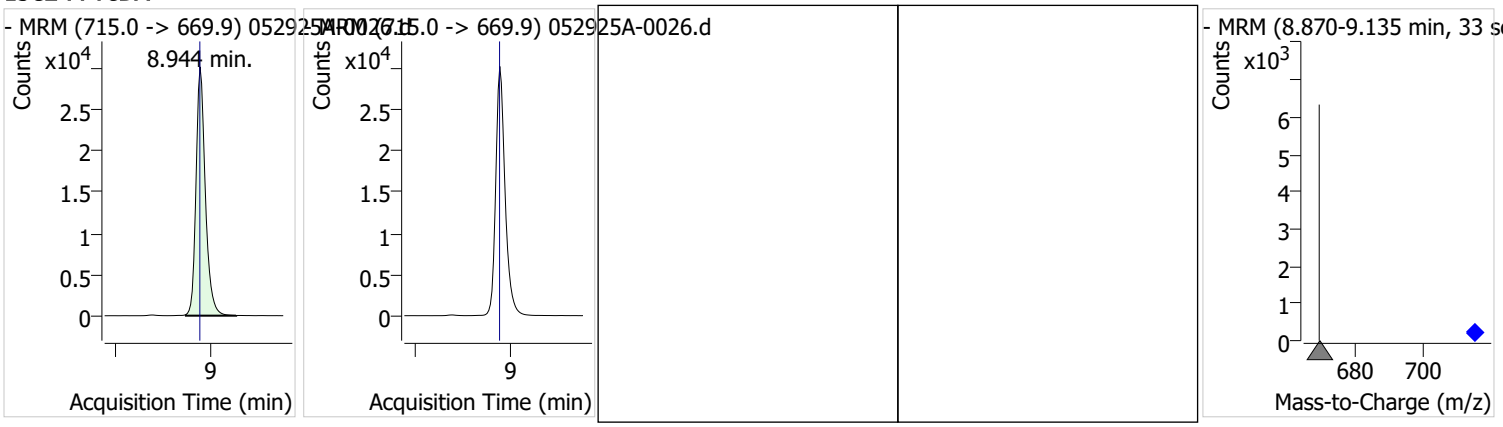




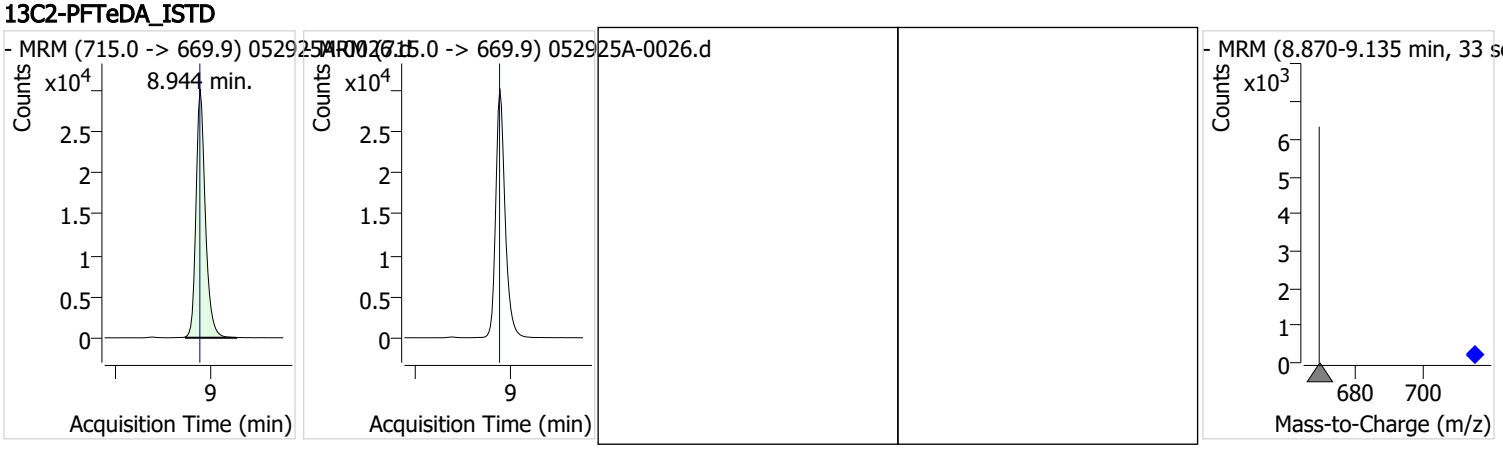
13C2-PFHxA



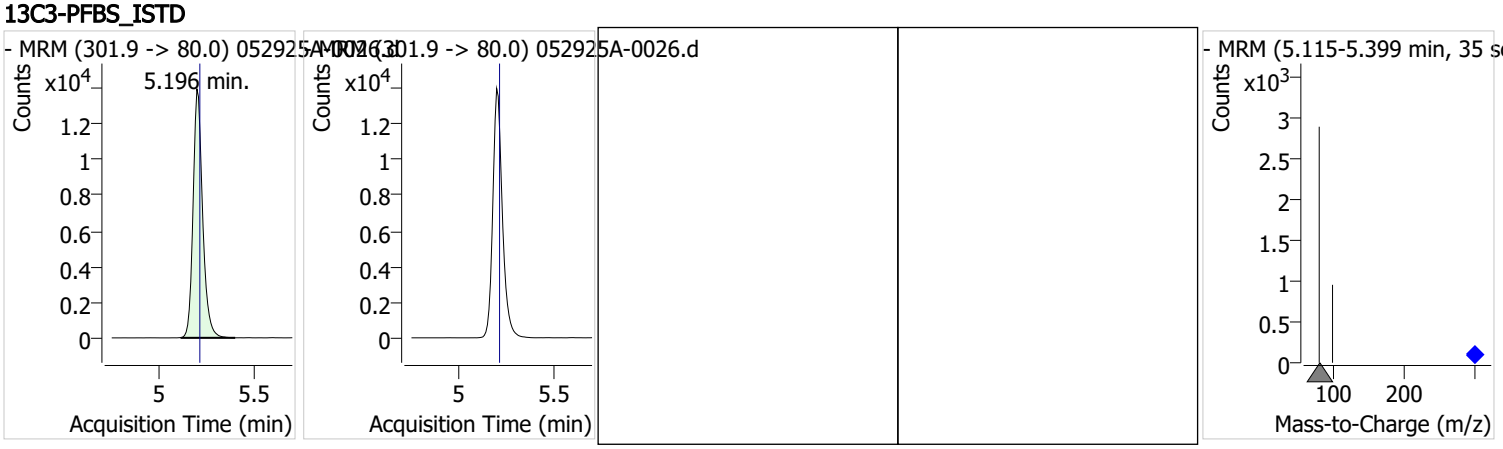
13C2-PFTeDA



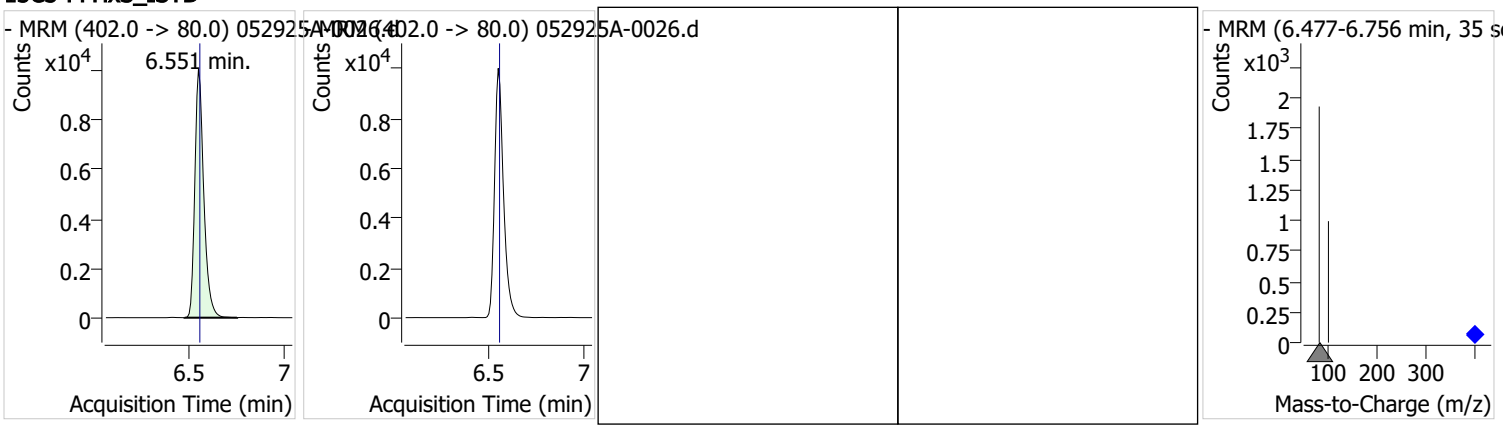
13C2-PFTeDA_ISTD



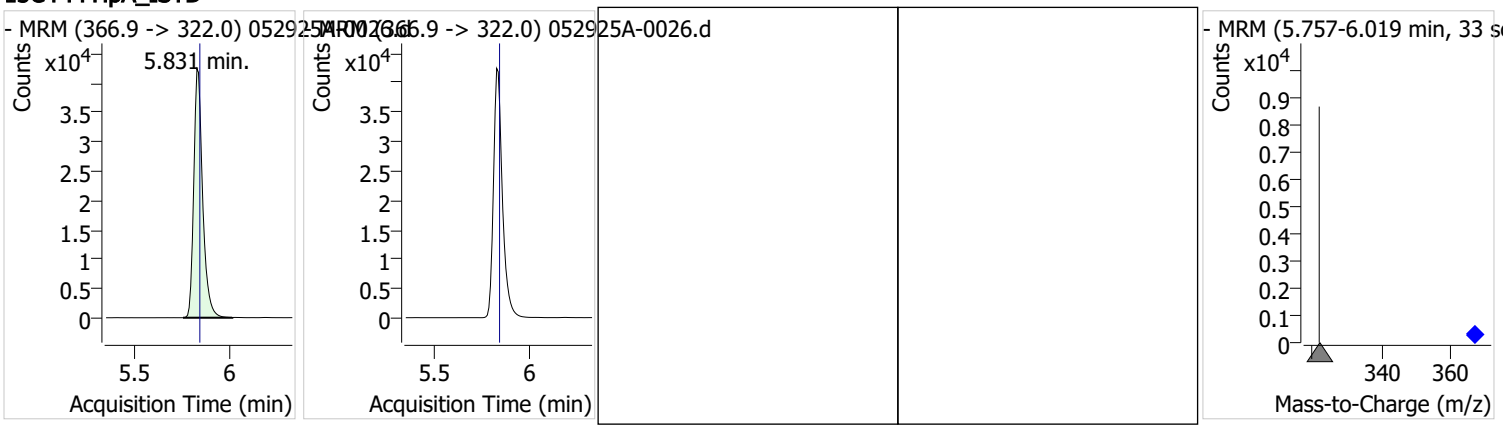
13C3-PFBS_ISTD



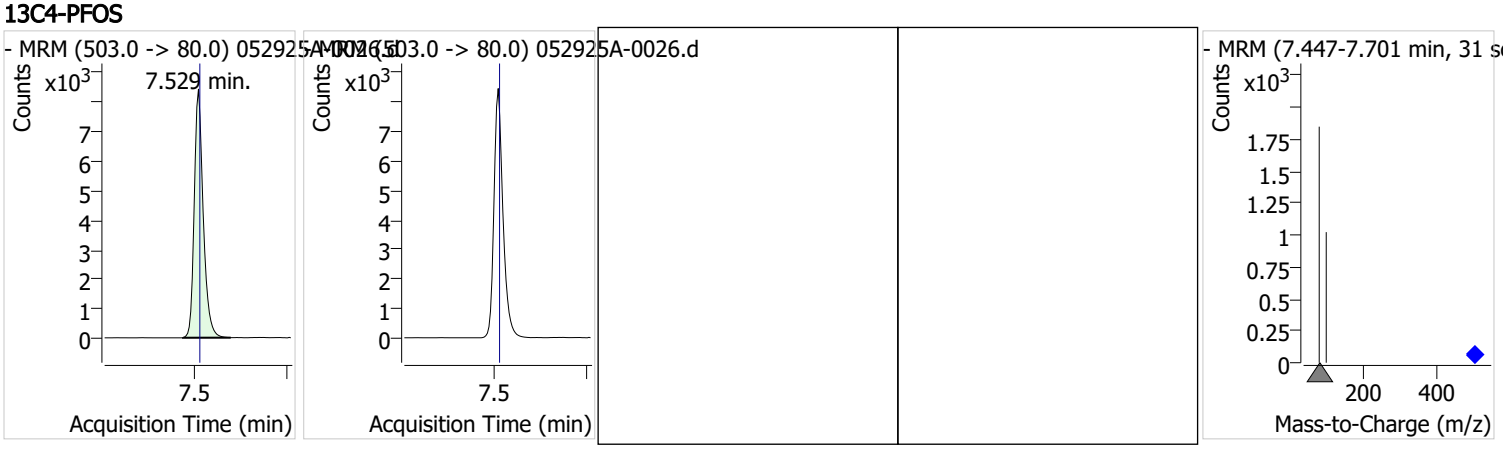
13C3-PFHxS_ISTD



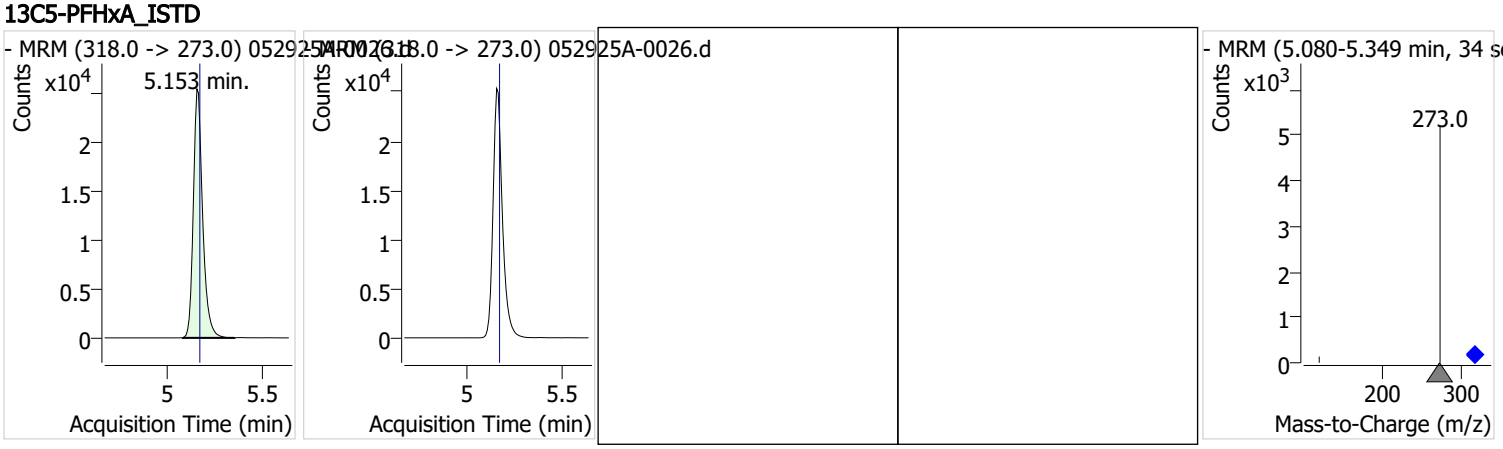
13C4-PFHpA_ISTD



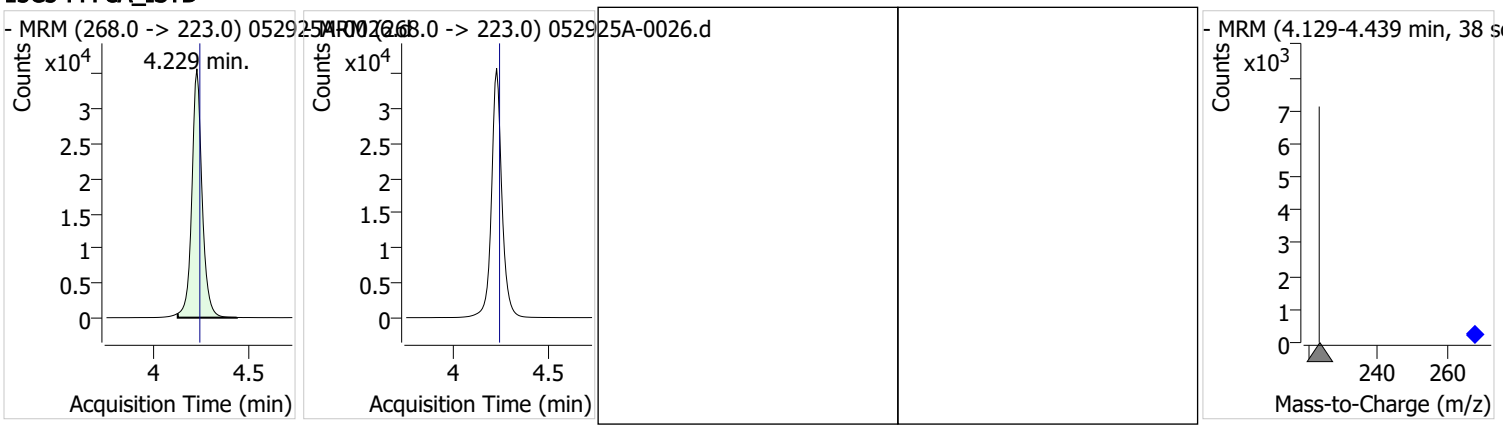
13C4-PFOS



13C5-PFHxA_ISTD



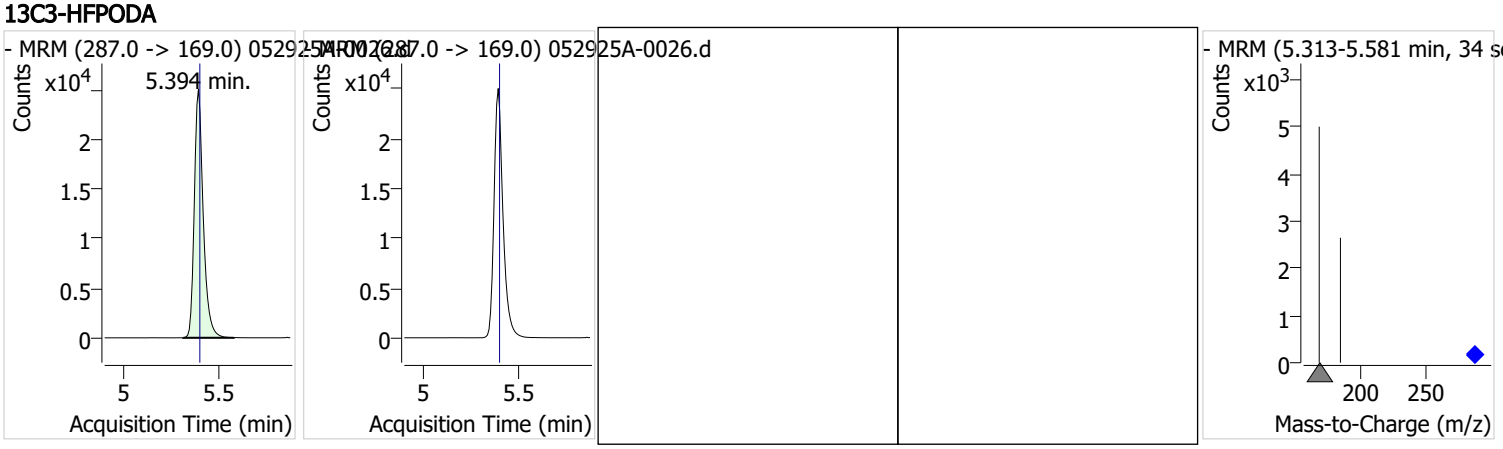
13C5-PFPeA_ISTD



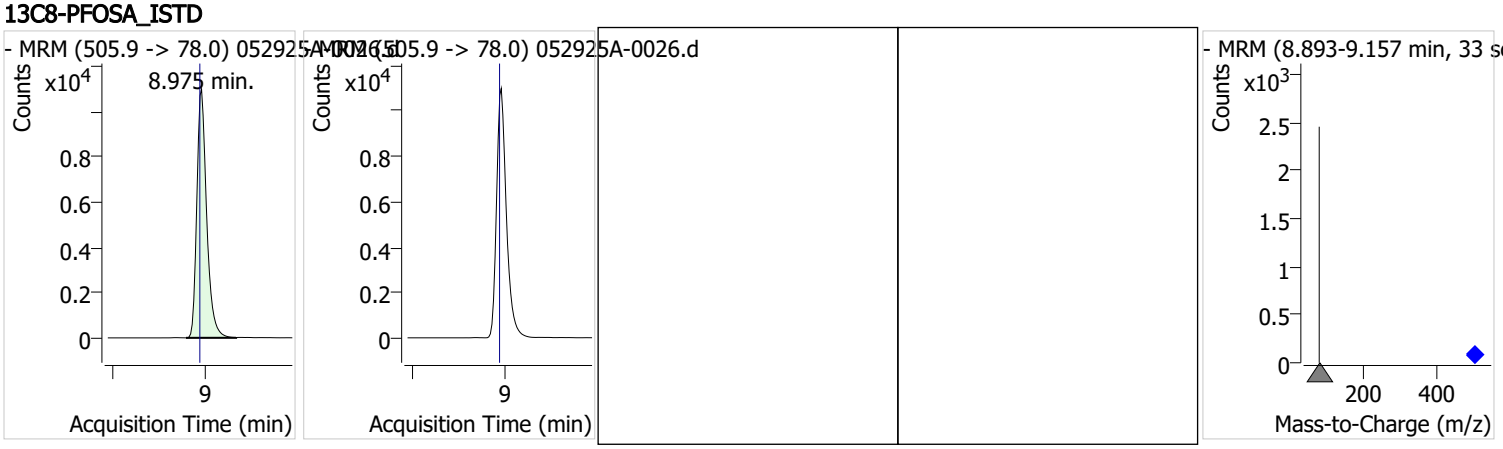
13C6-PFDA_ISTD



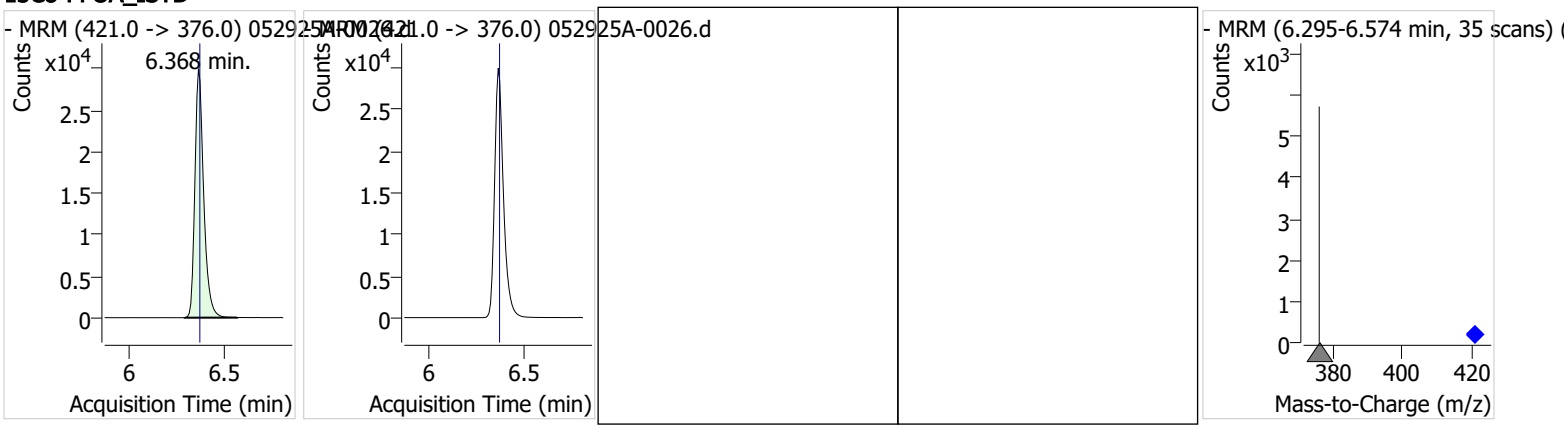
13C3-HFPODA



13C8-PFOSA_ISTD



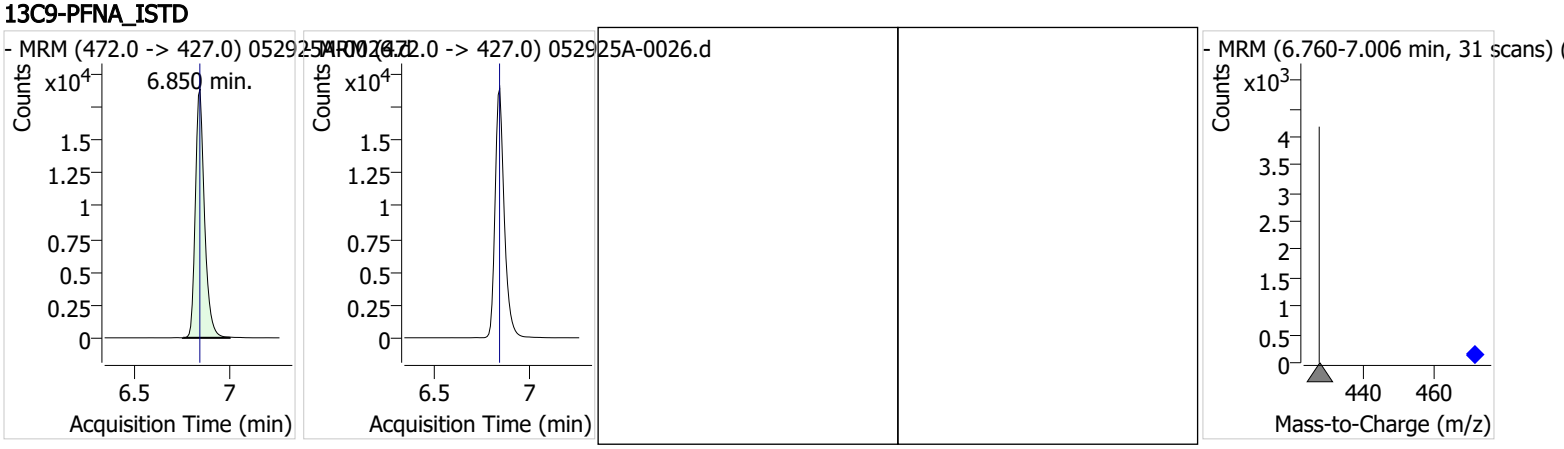
13C8-PFOA_ISTD



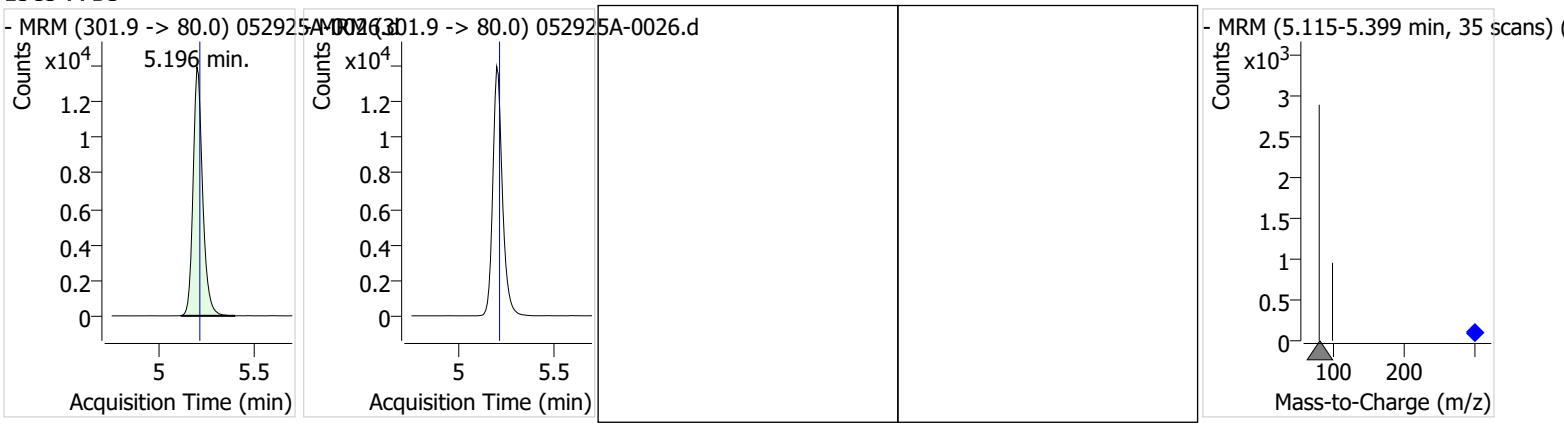
13C8-PFOS_ISTD



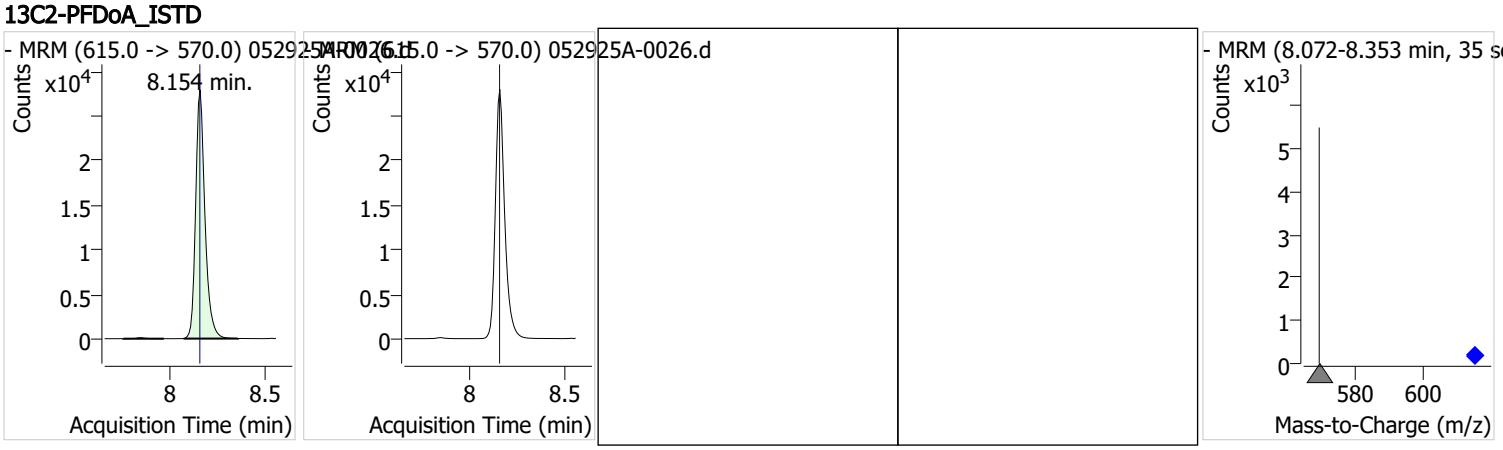
13C9-PFNA_ISTD



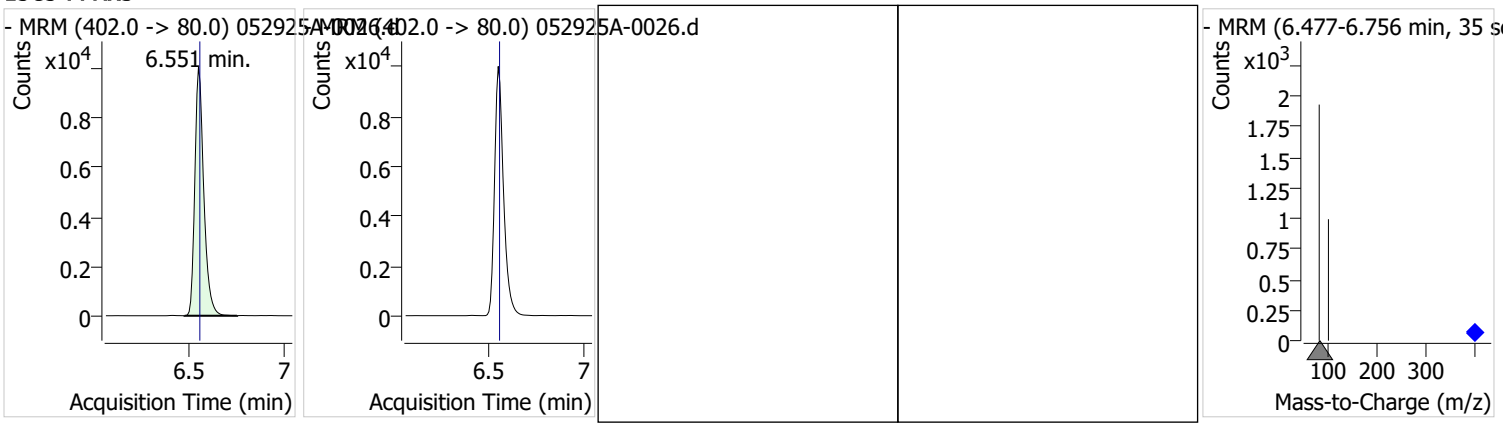
13C3-PFBS



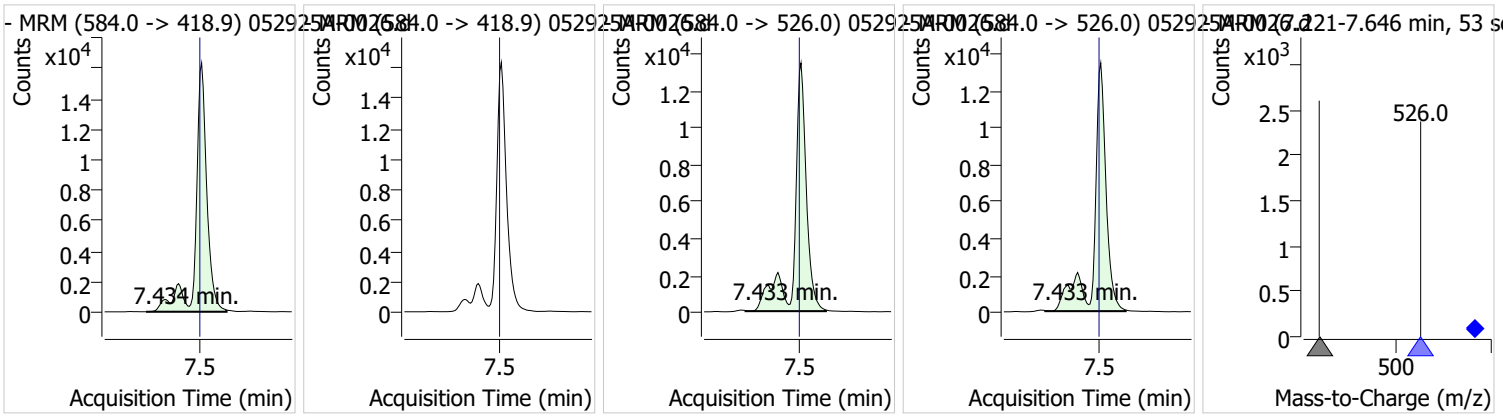
13C2-PFDoA_ISTD



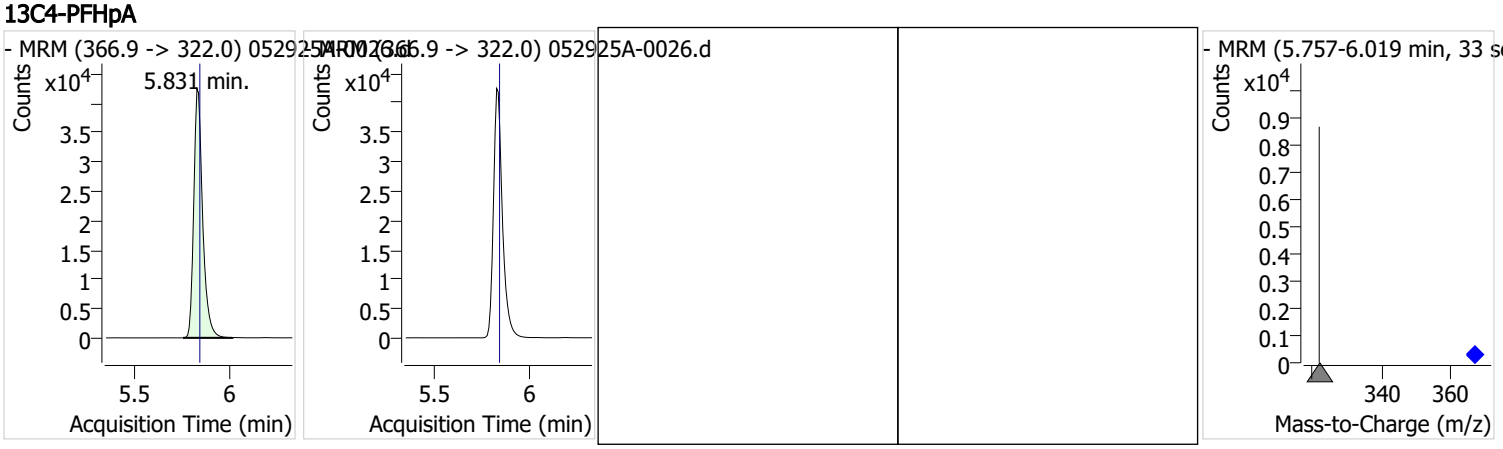
13C3-PFHxS



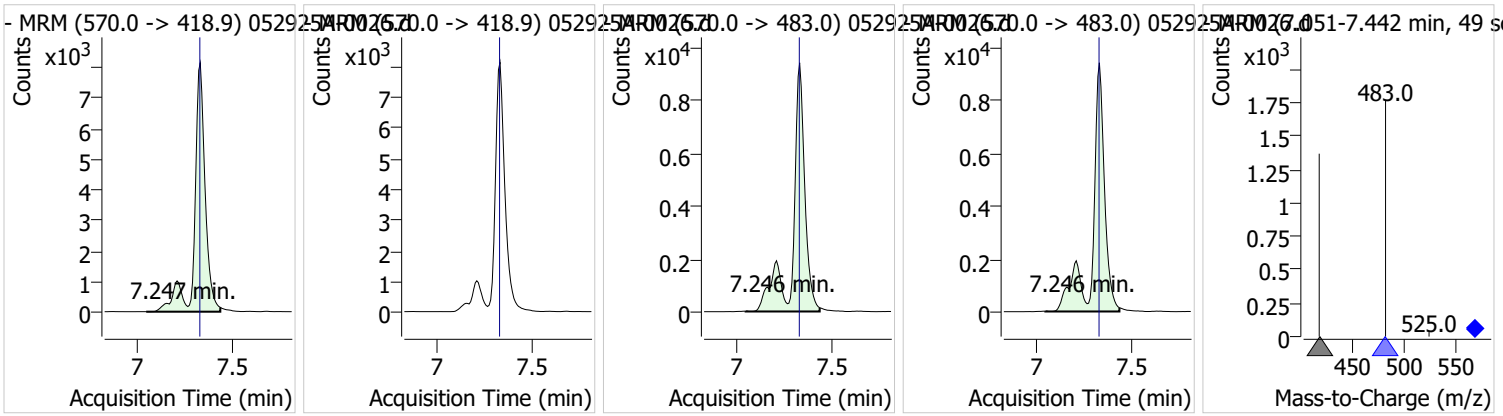
NEtFOSAA



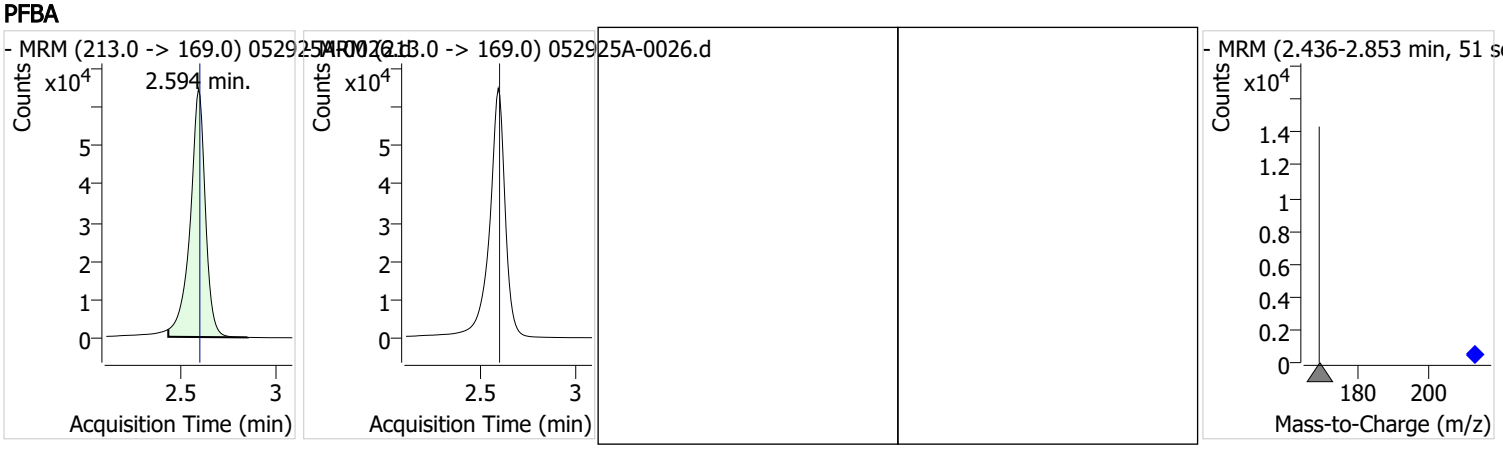
13C4-PFHpA



NMeFOSAA



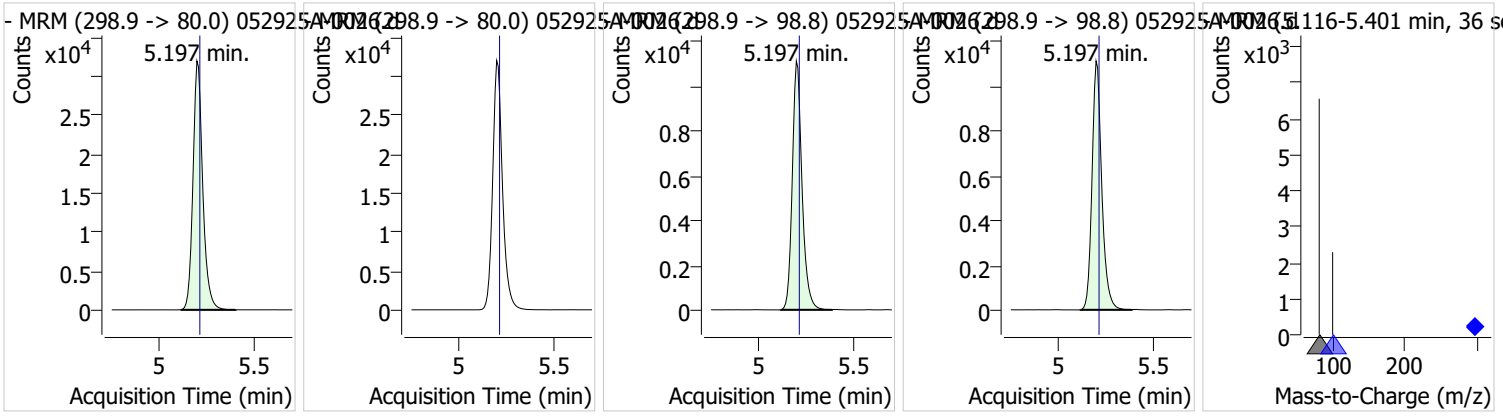
PFBA



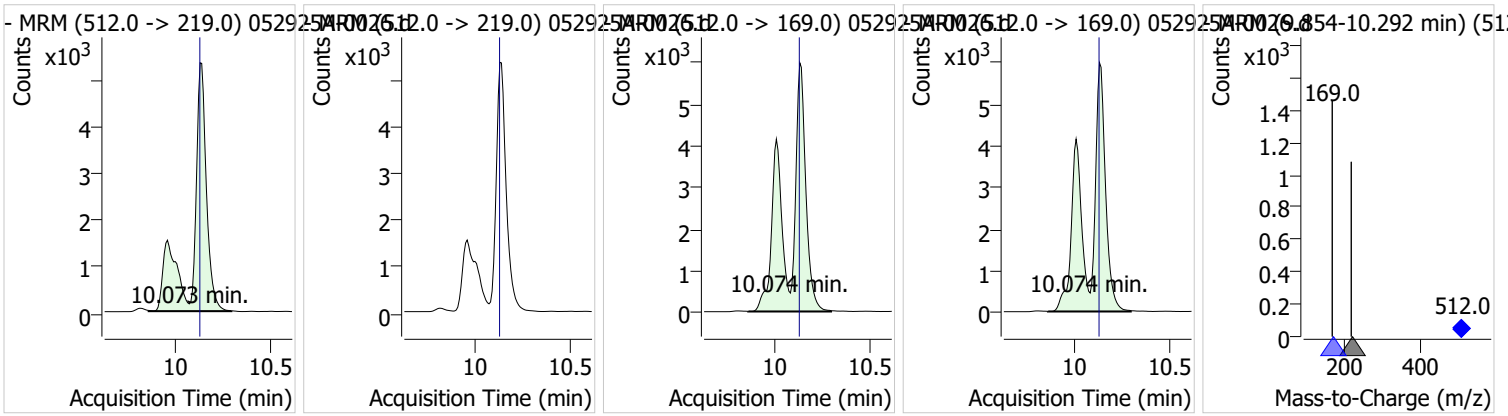
13C5-PFHxA



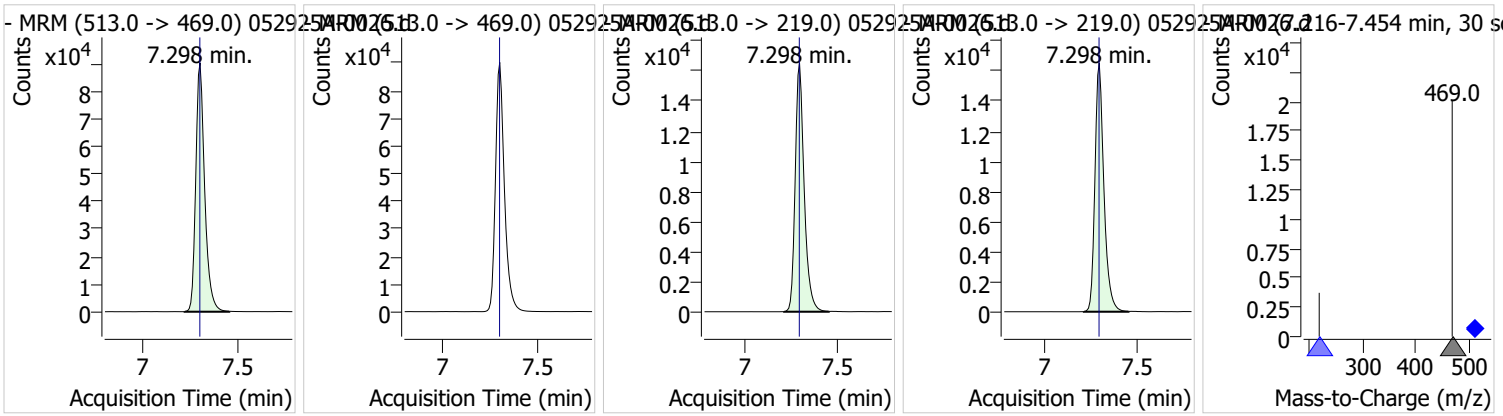
PFBS



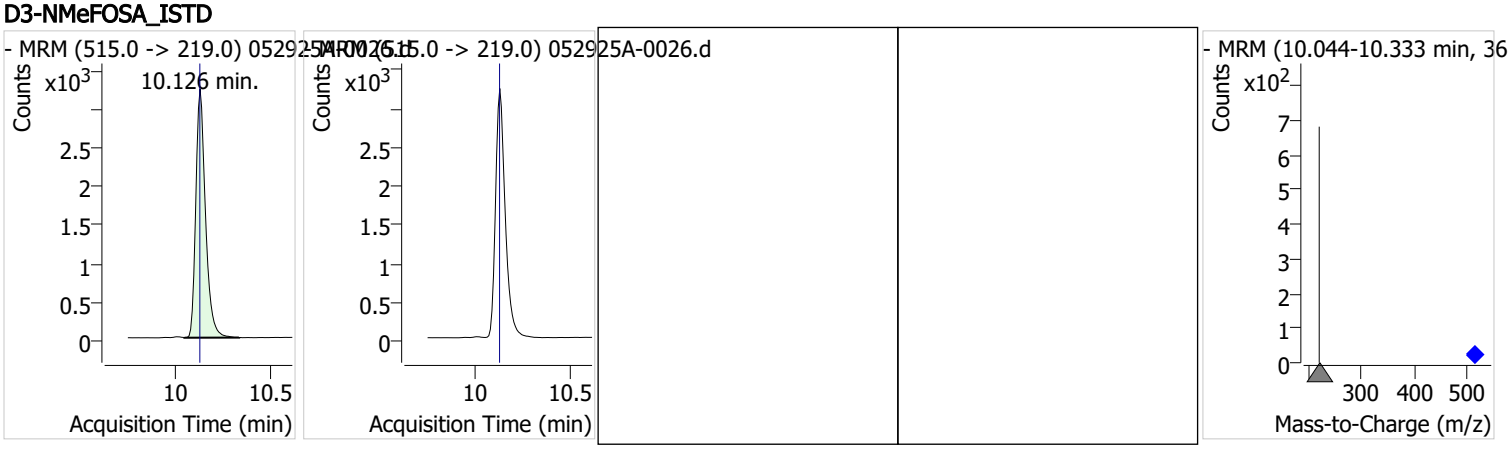
NMeFOSA



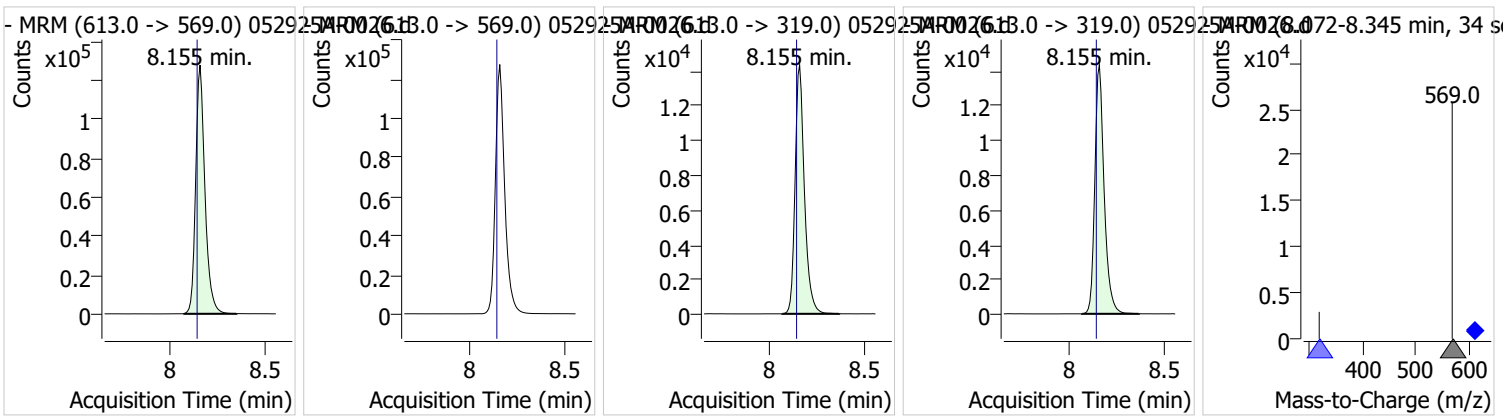
PFDA



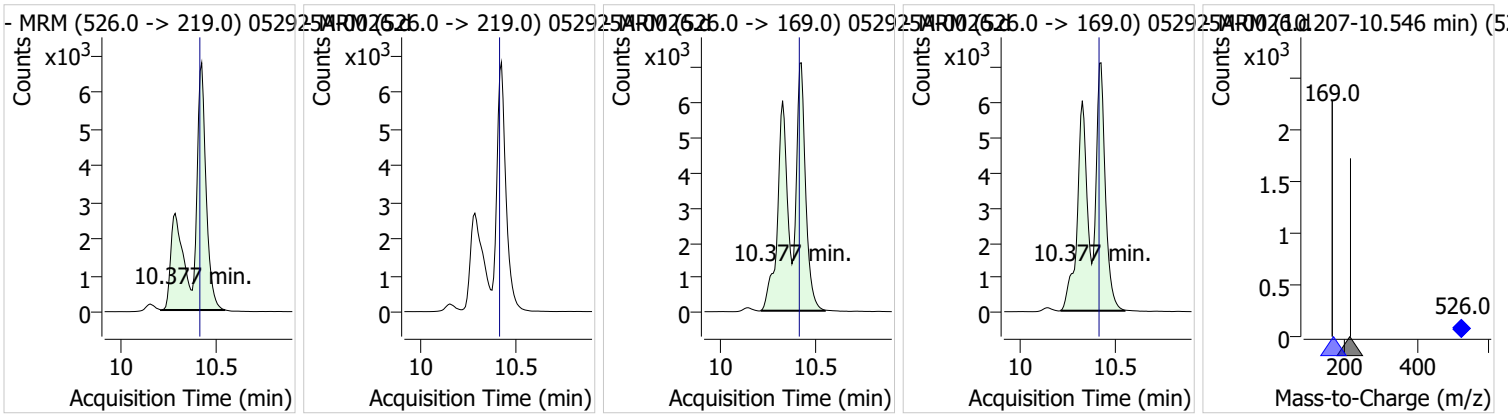
D3-NMeFOSA_ISTD



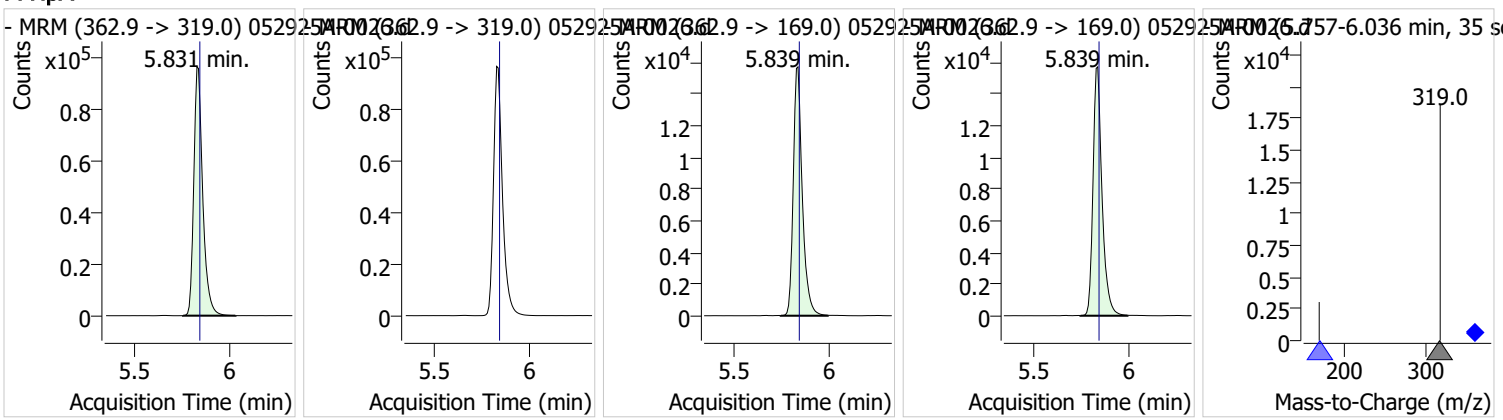
PFDoA



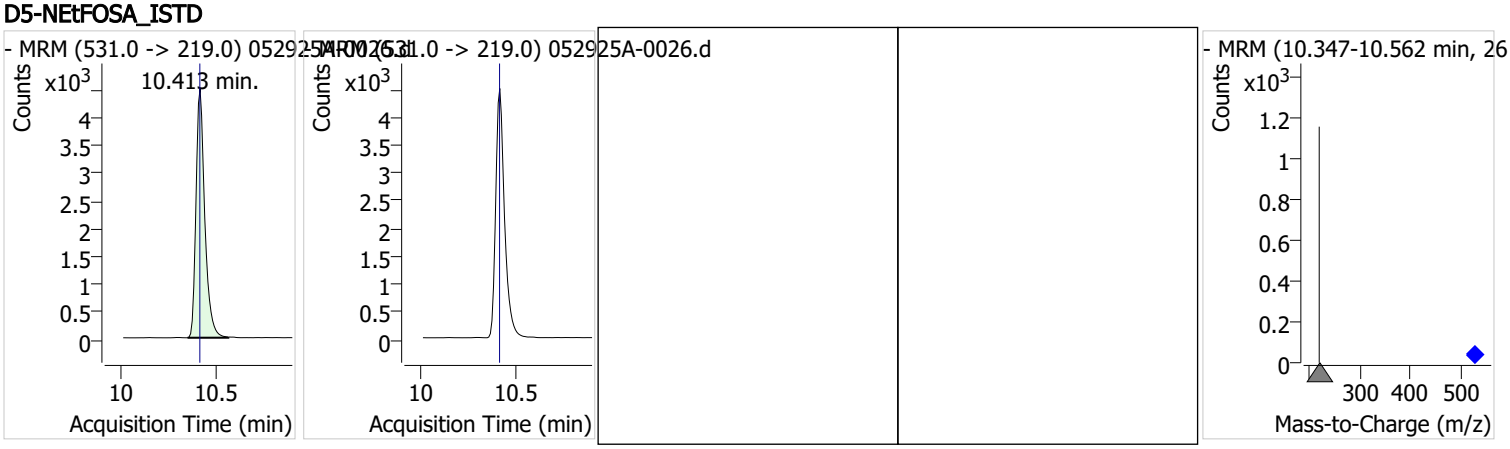
NEtFOSA



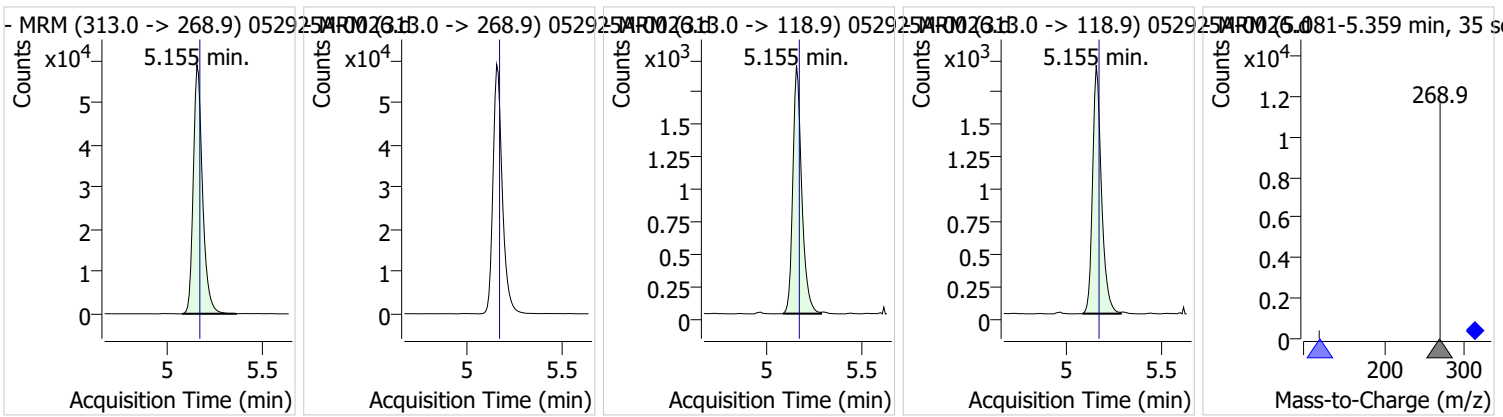
PFHpA



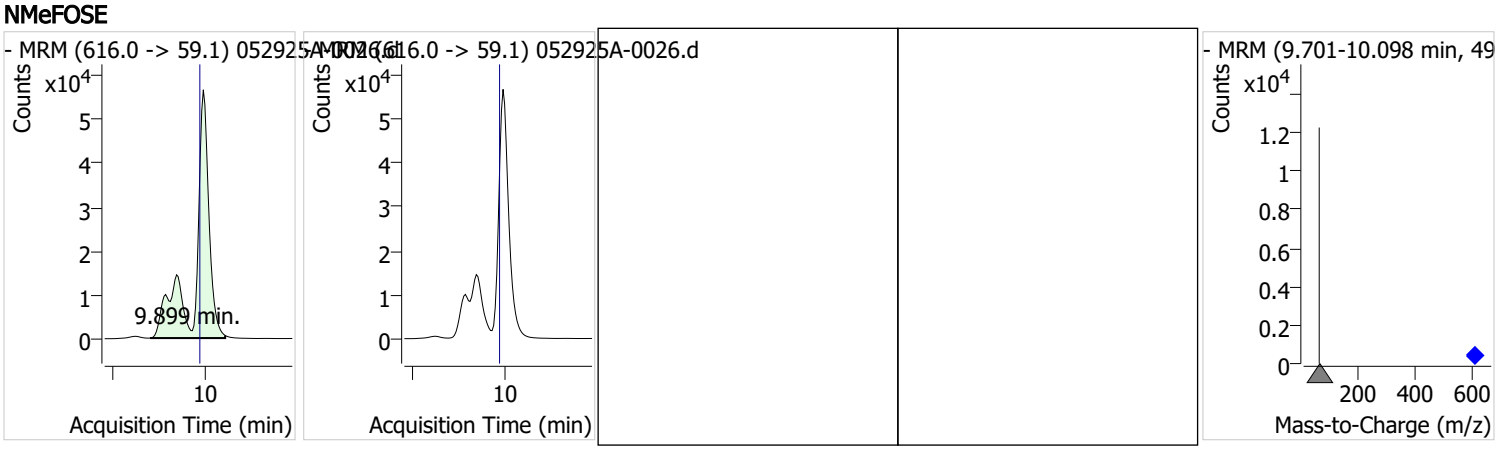
D5-NEtFOSA_ISTD



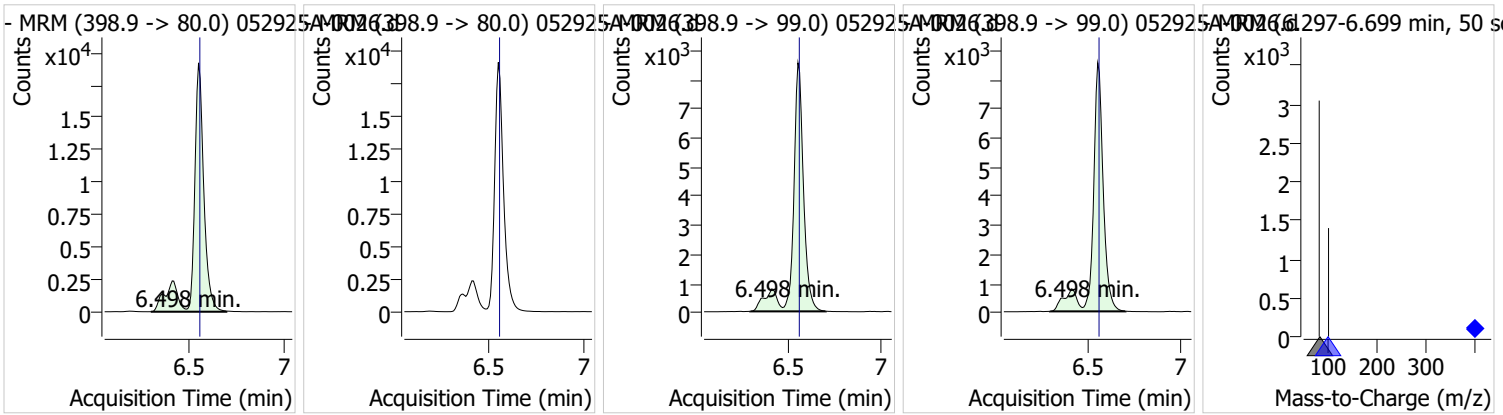
PFHxA



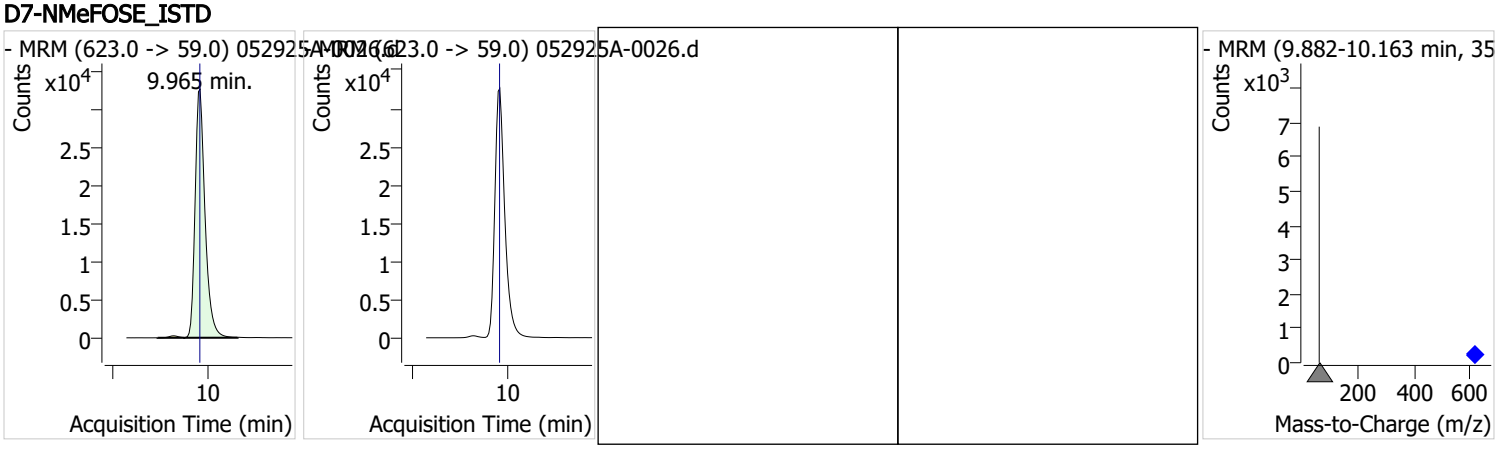
NMeFOSE



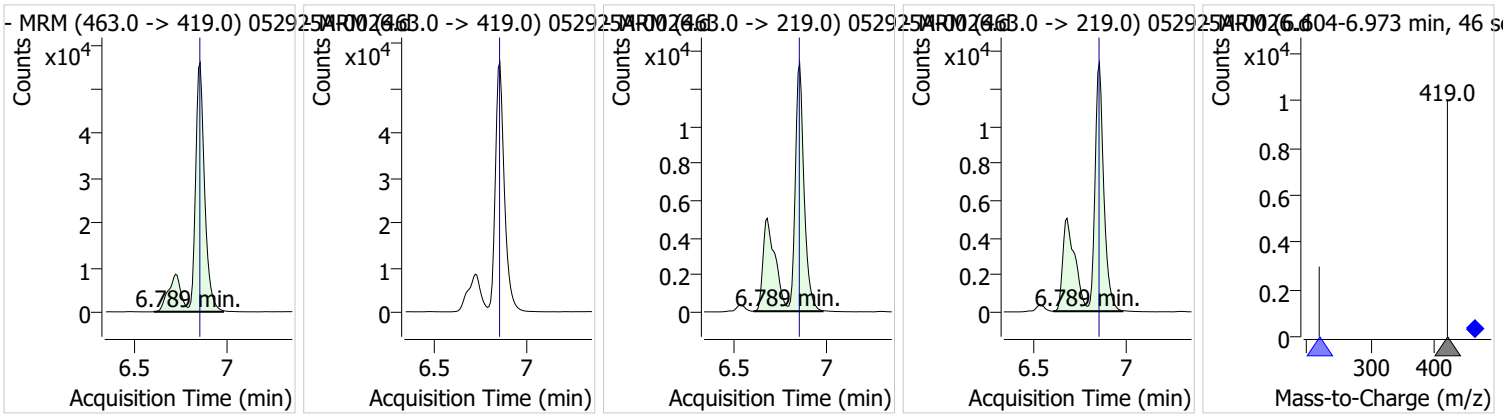
PFHxS



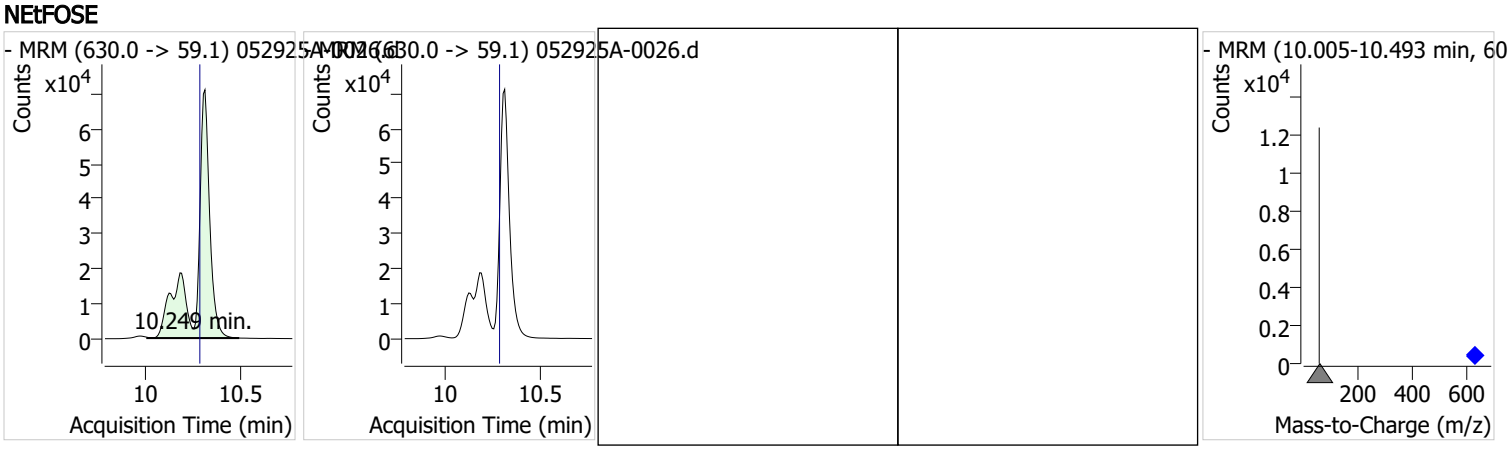
D7-NMeFOSE_ISTD



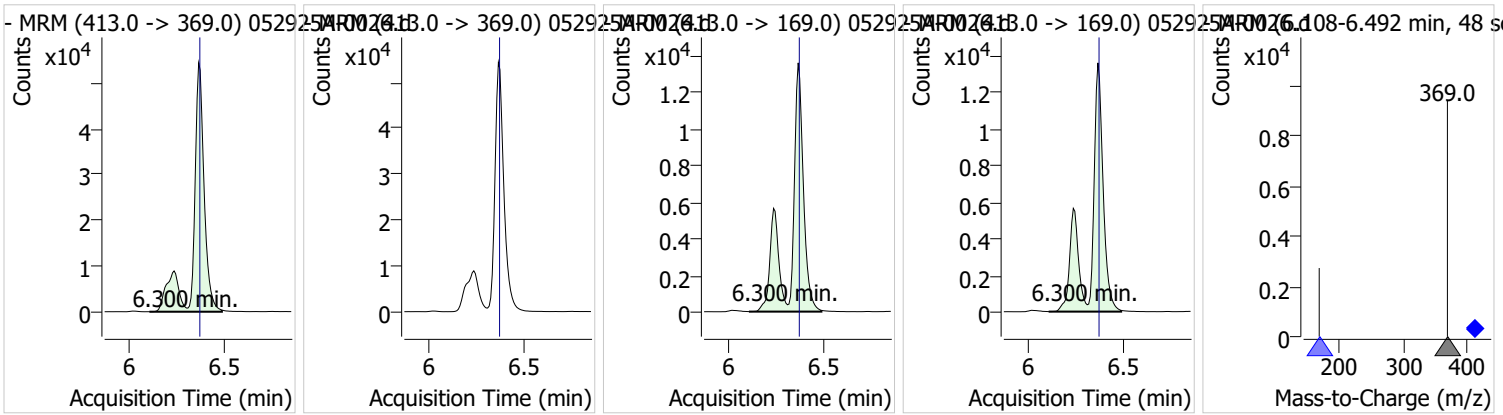
PFNA



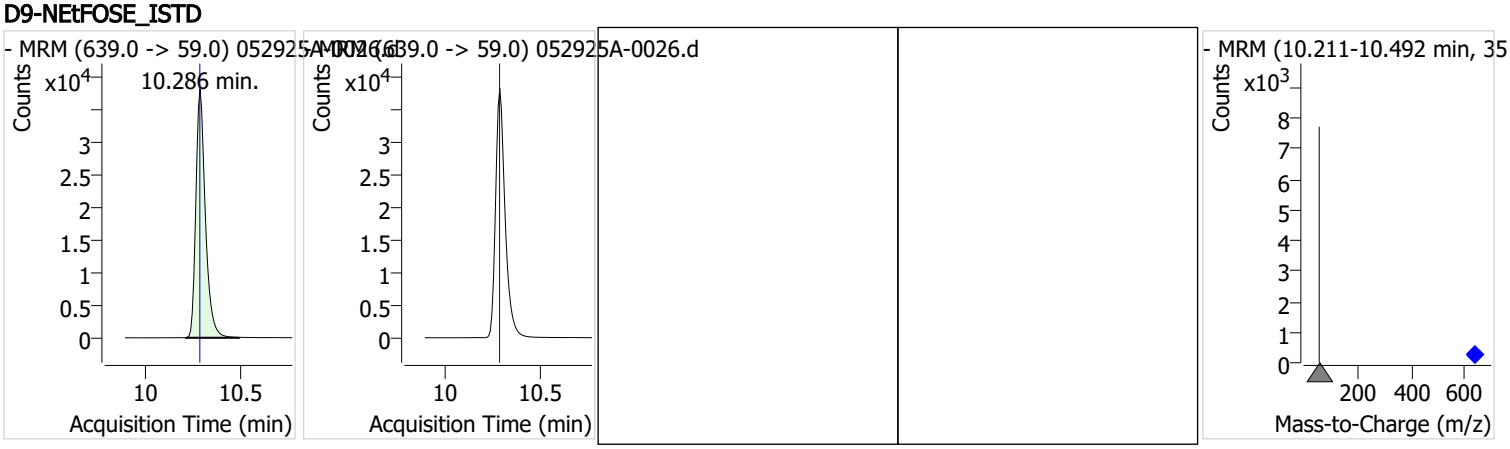
NEtFOSE



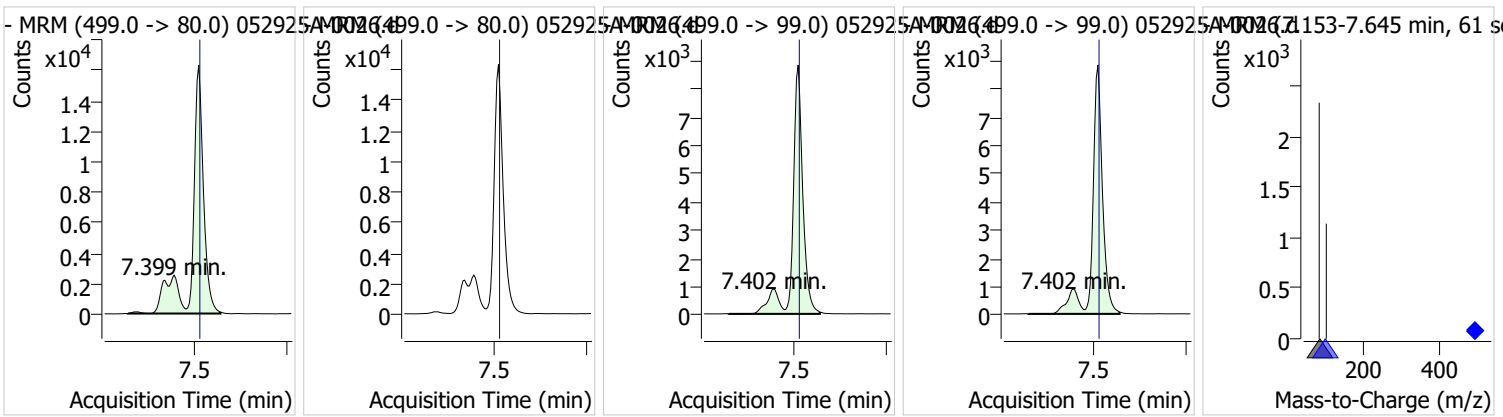
PFOA



D9-NEtFOSE_ISTD



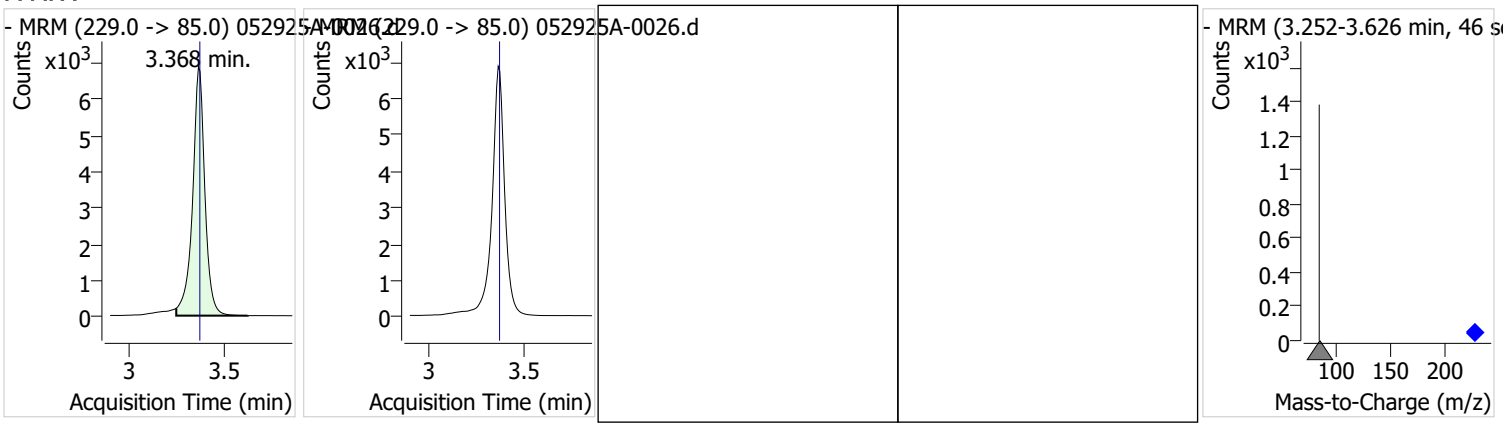
PFOS



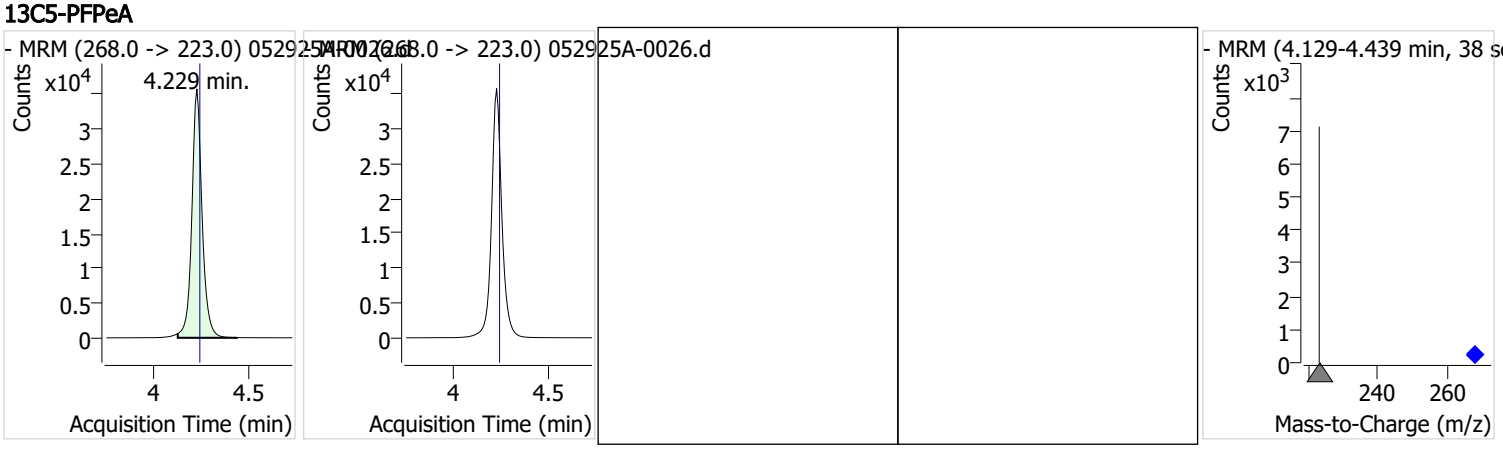
PFPeA



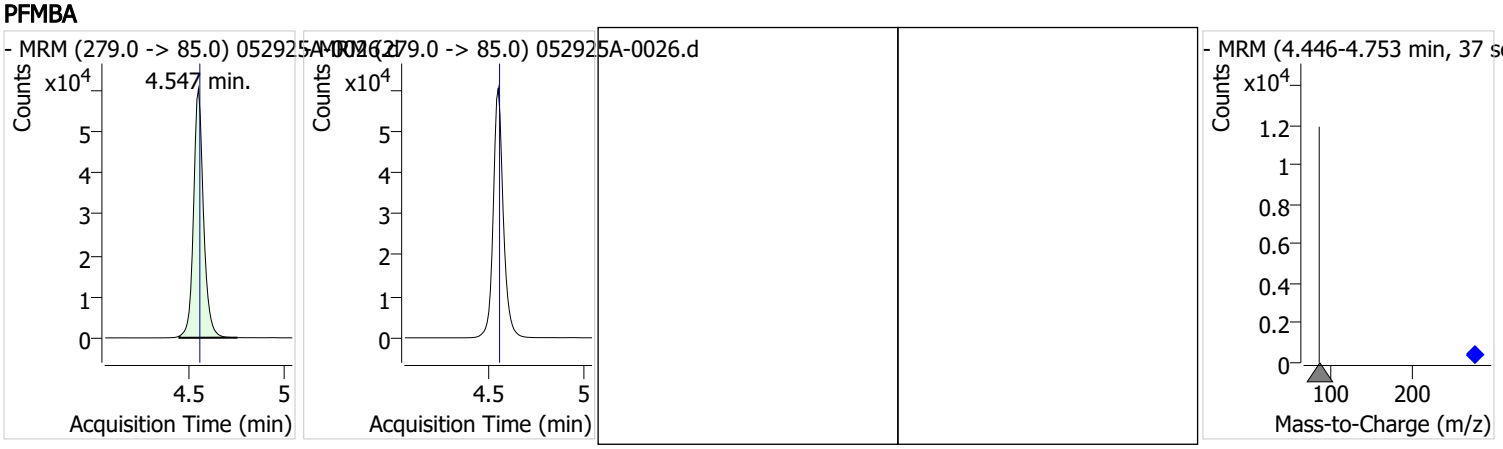
PFMPA



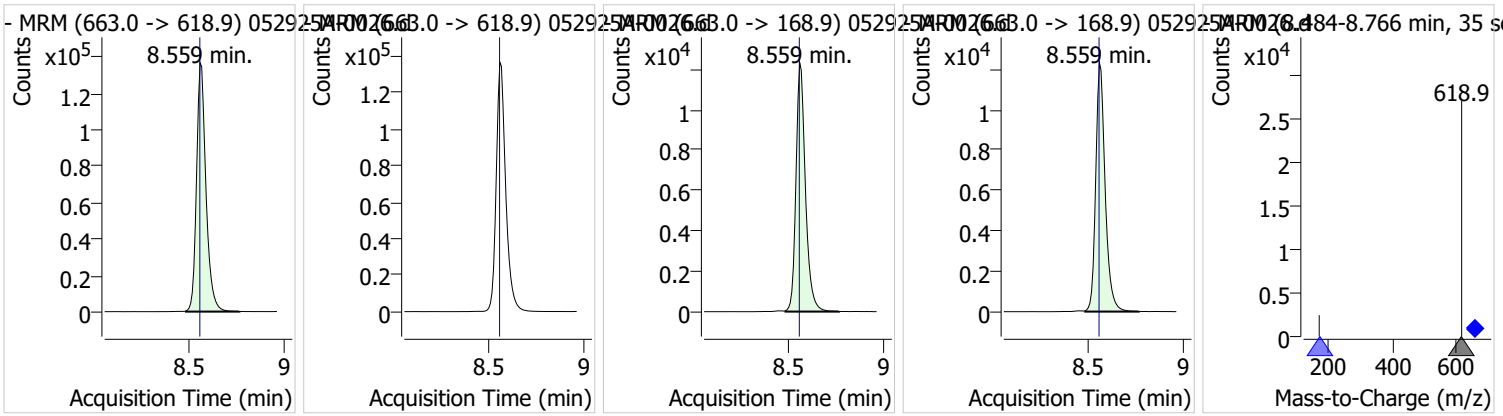
13C5-PFPeA



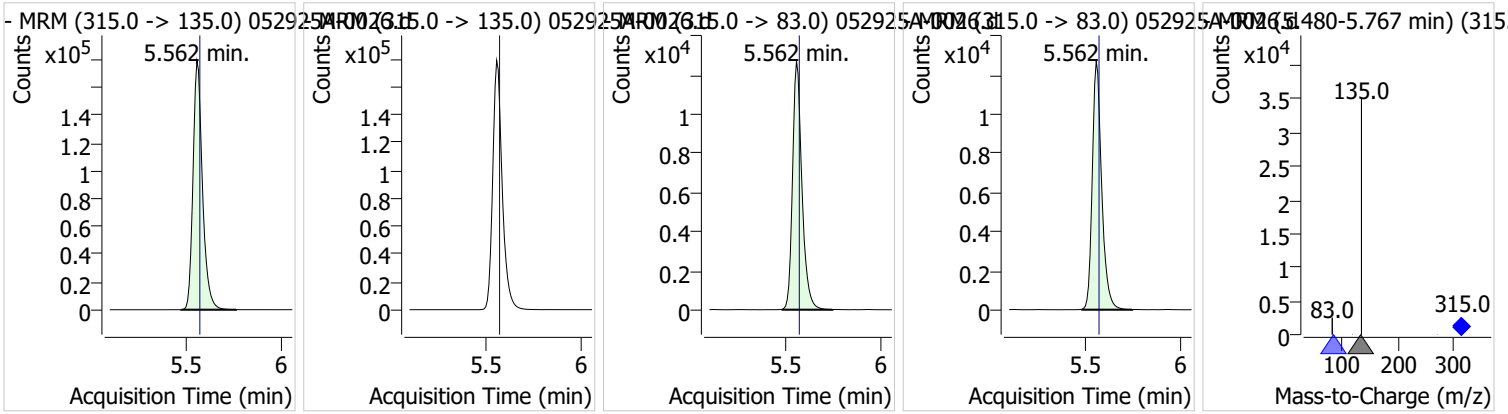
PFMBA



PFTrDA



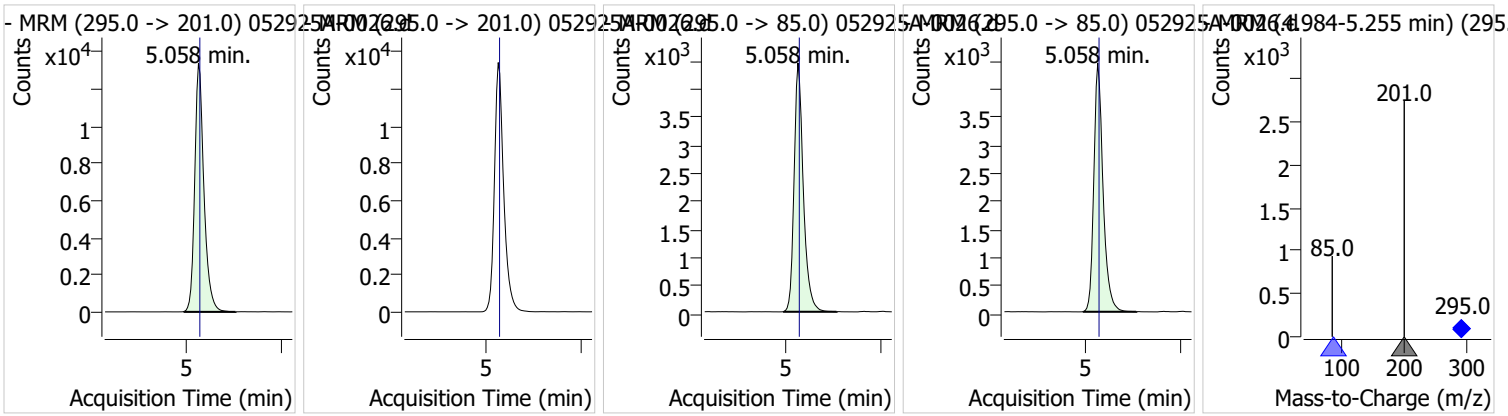
PFEESA



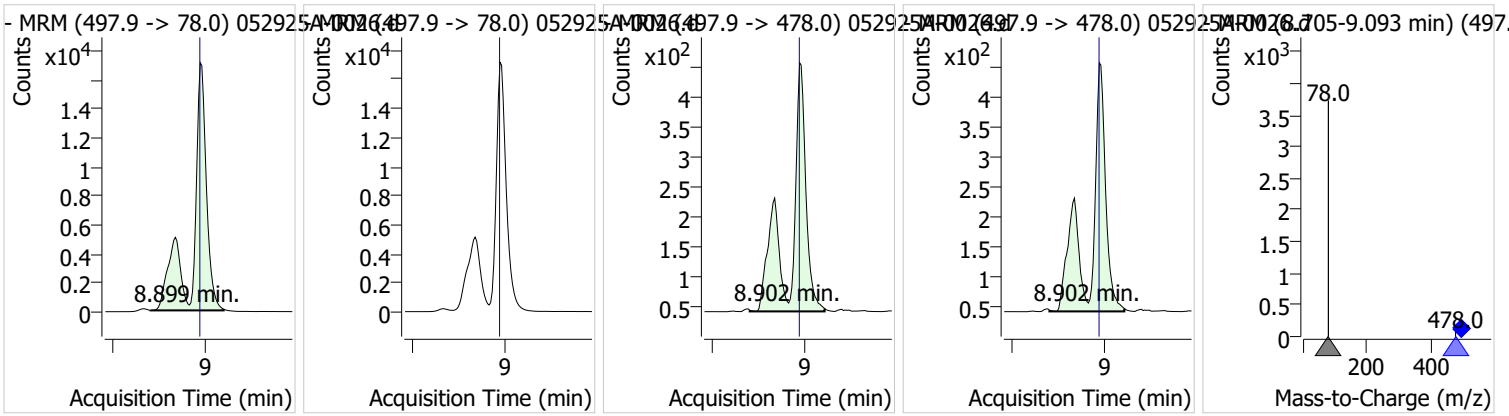
13C6-PFDA



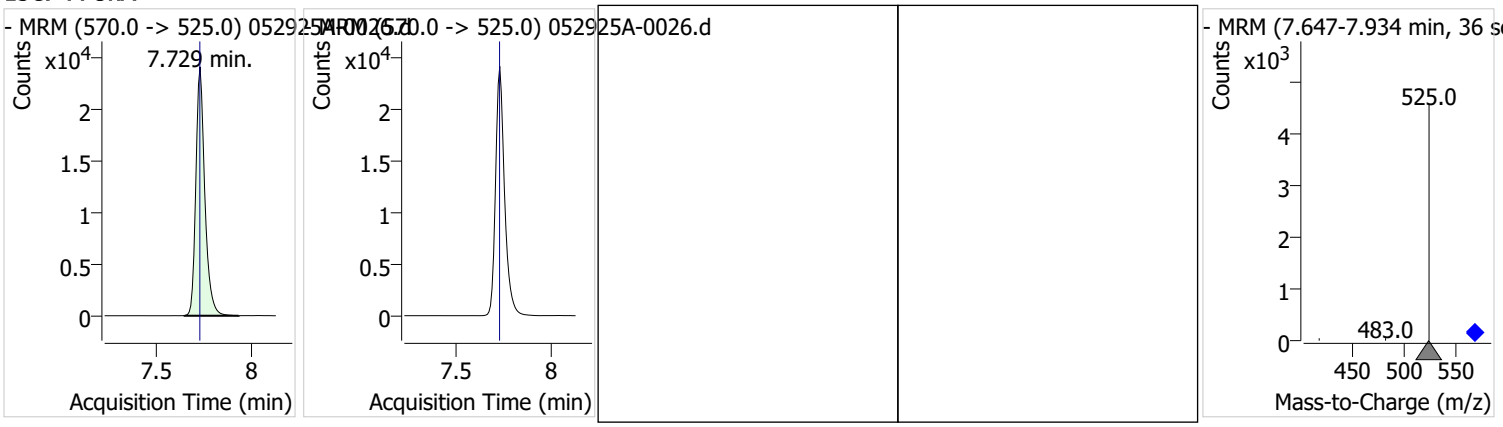
NFDHA



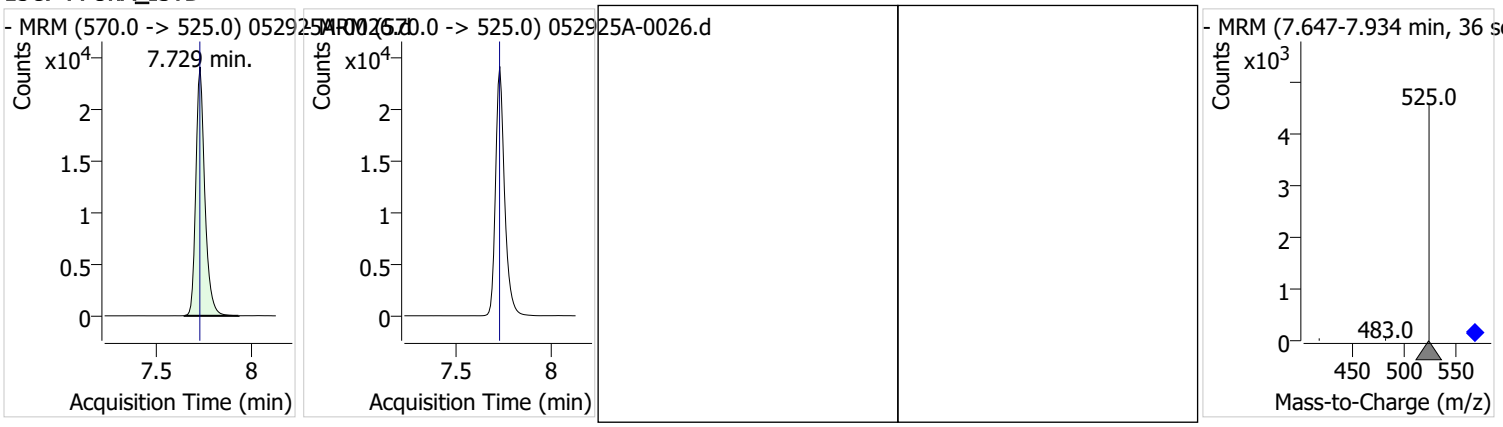
PFOSA



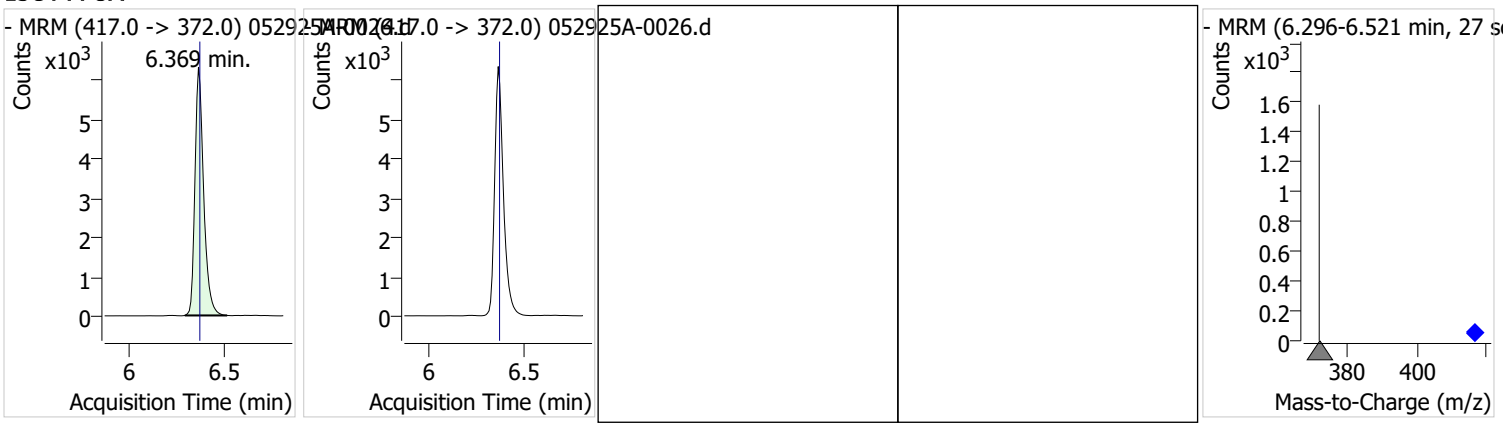
13C7-PFUnA



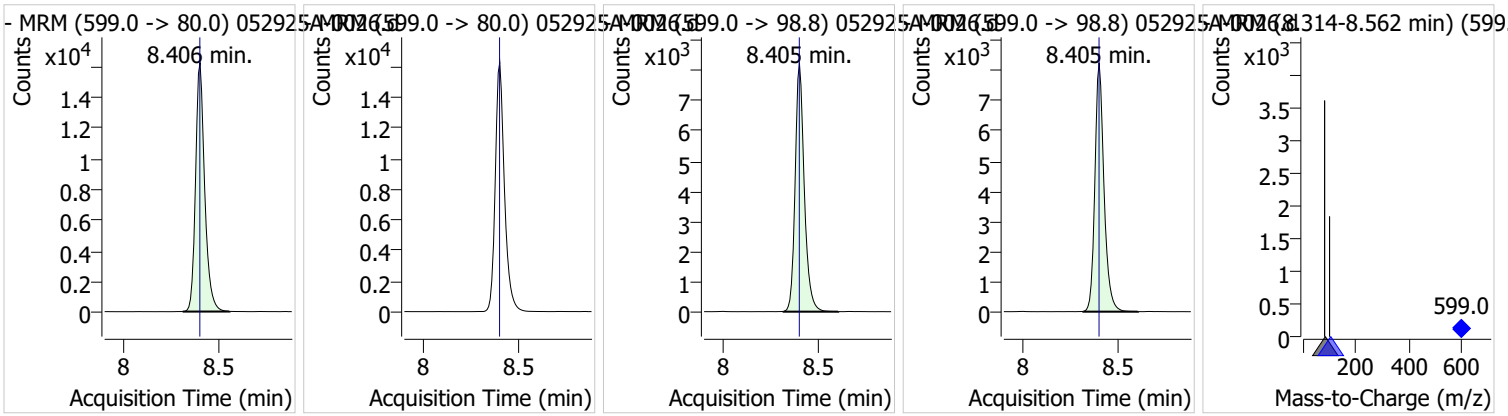
13C7-PFUnA_ISTD



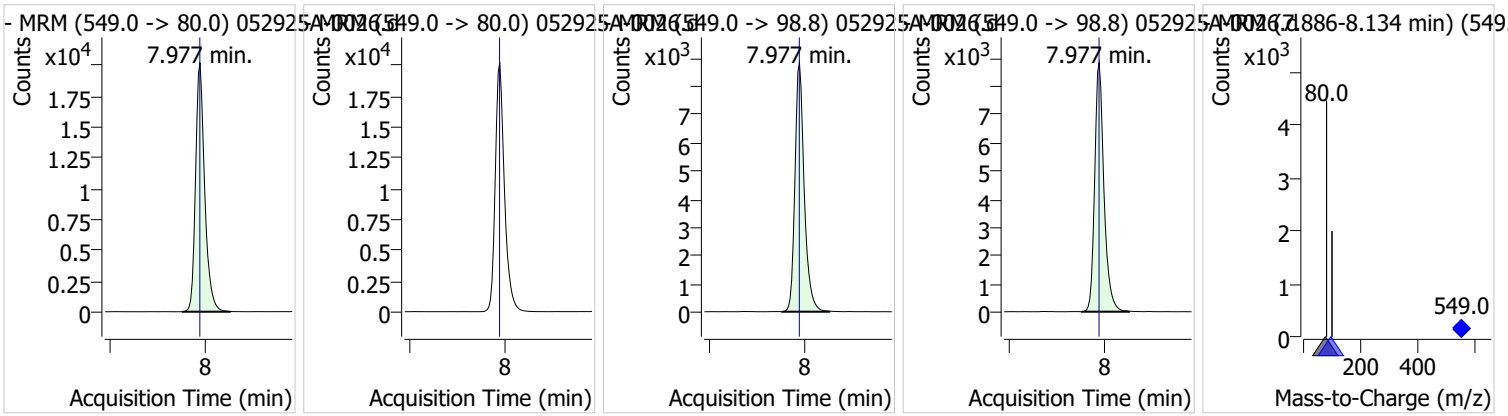
13C4-PFOA



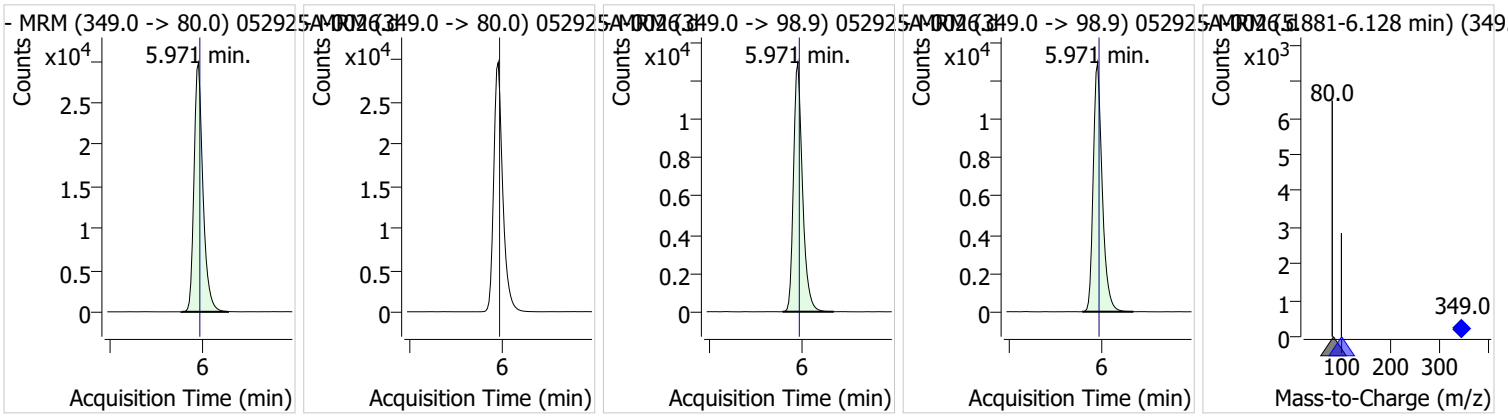
PFDS



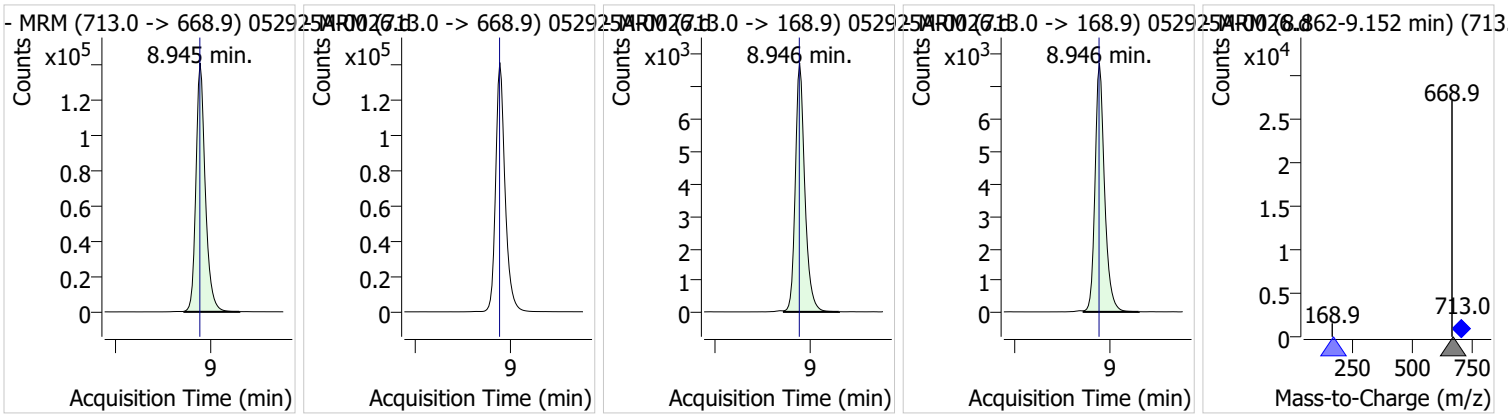
PFNS



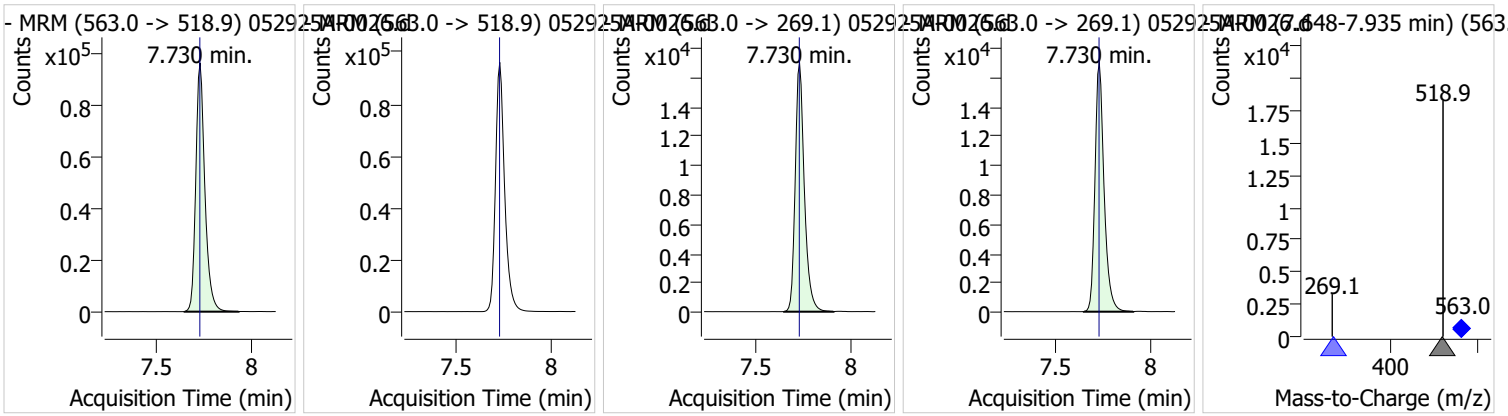
PFPeS



PFTeDA



PFUnA



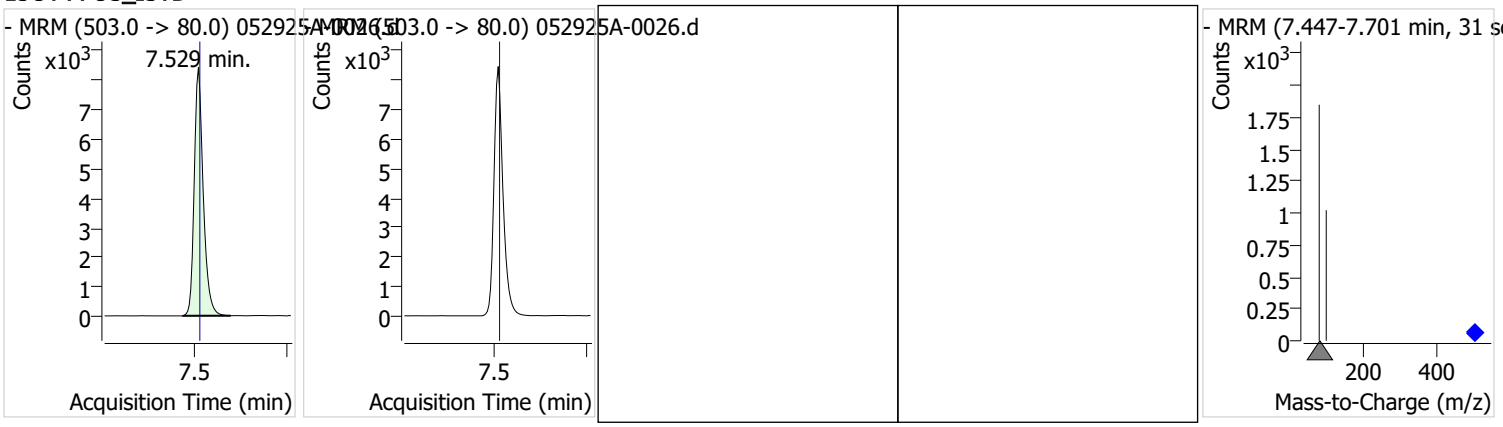
13C2-PFDA_ISTD



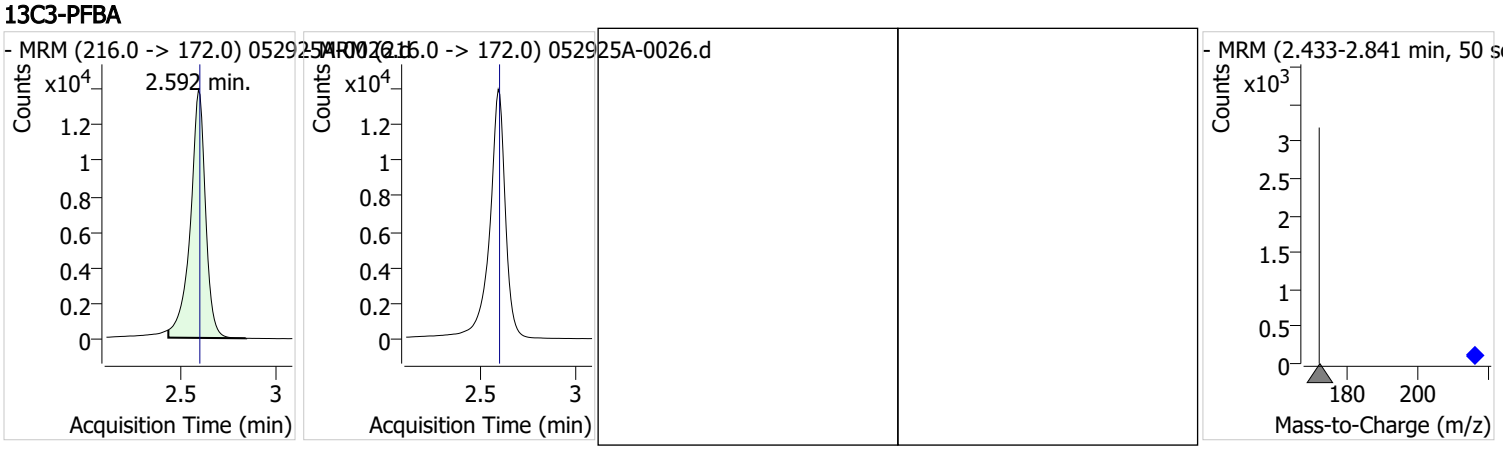
13C2-PFHxA_ISTD



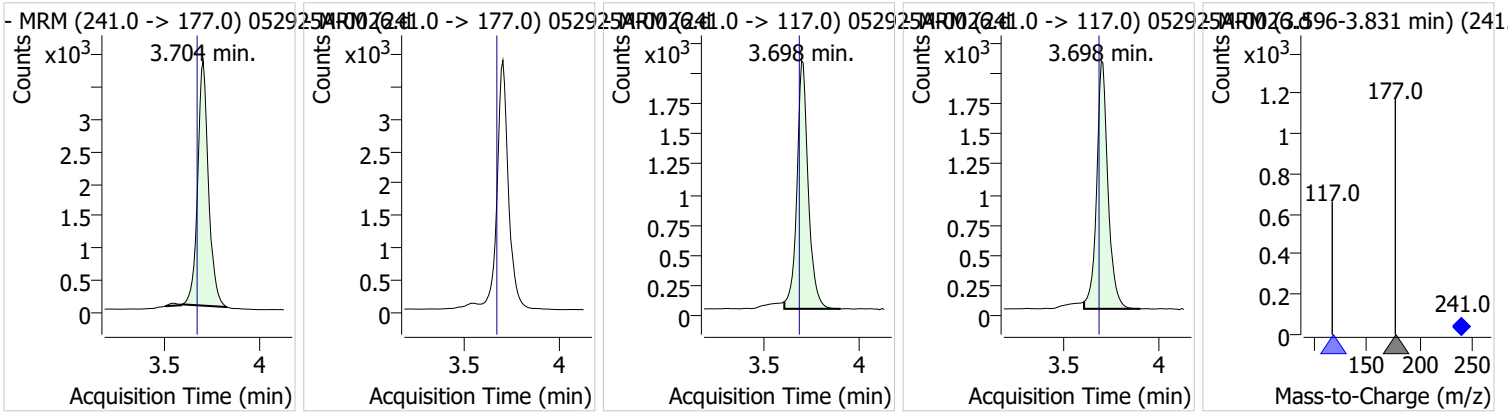
13C4-PFOS_ISTD



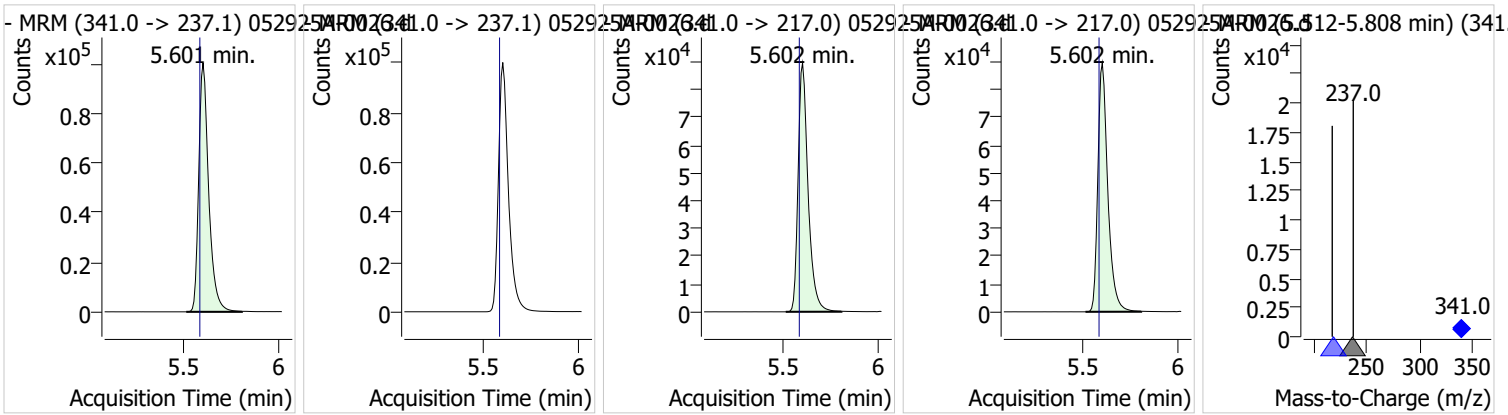
13C3-PFBA



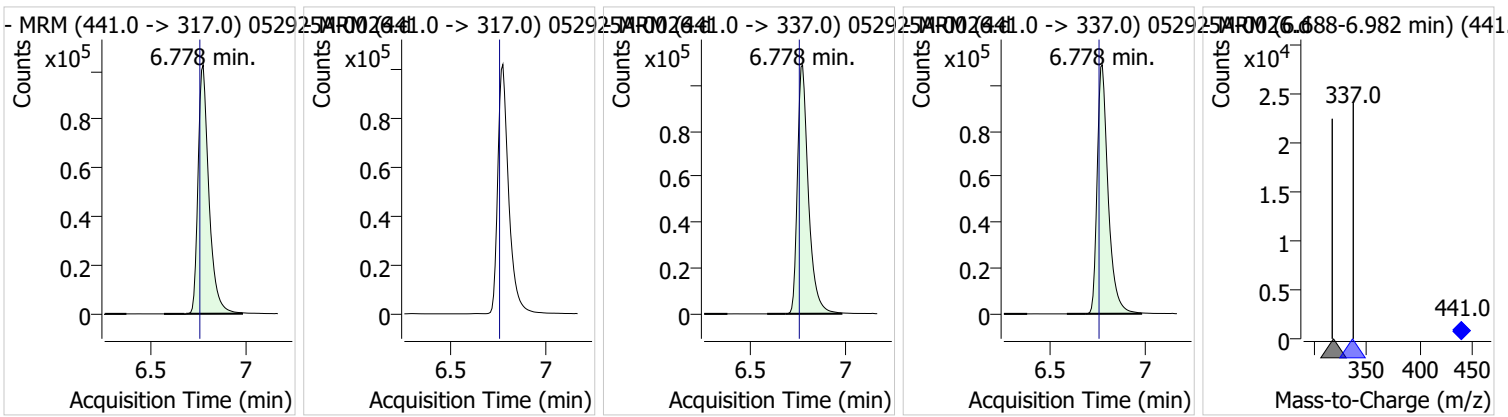
3:3FTCA



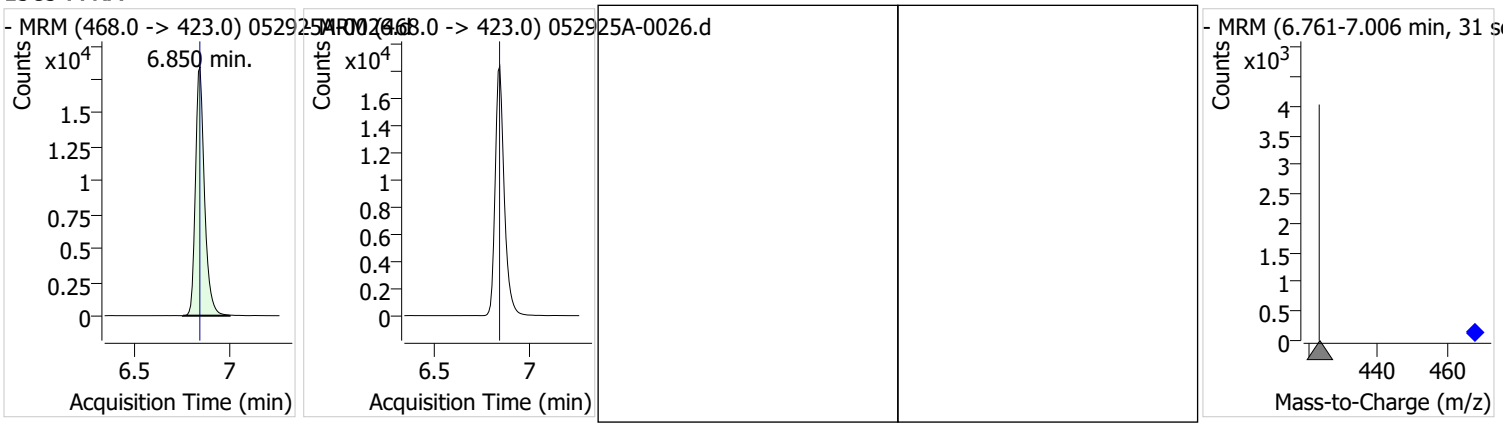
5:3FTCA



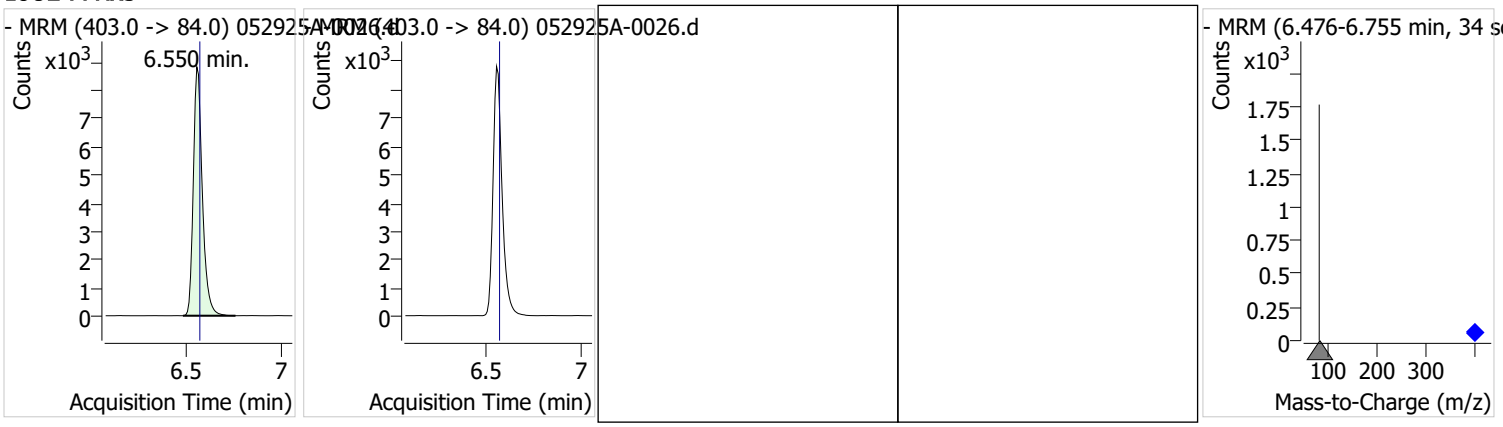
7:3FTCA



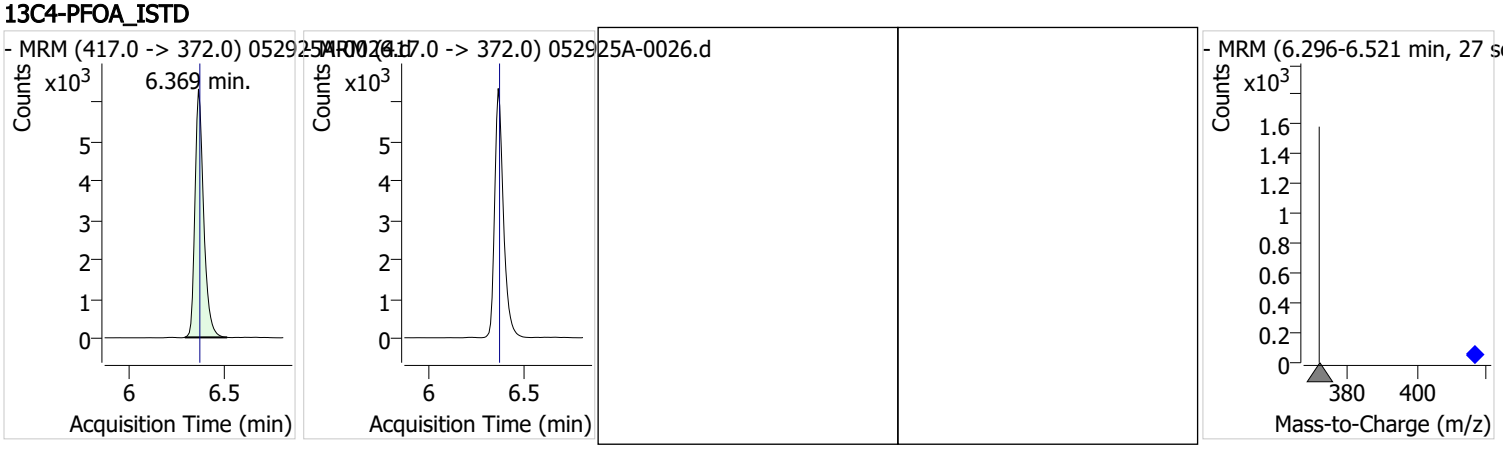
13C5-PFNA



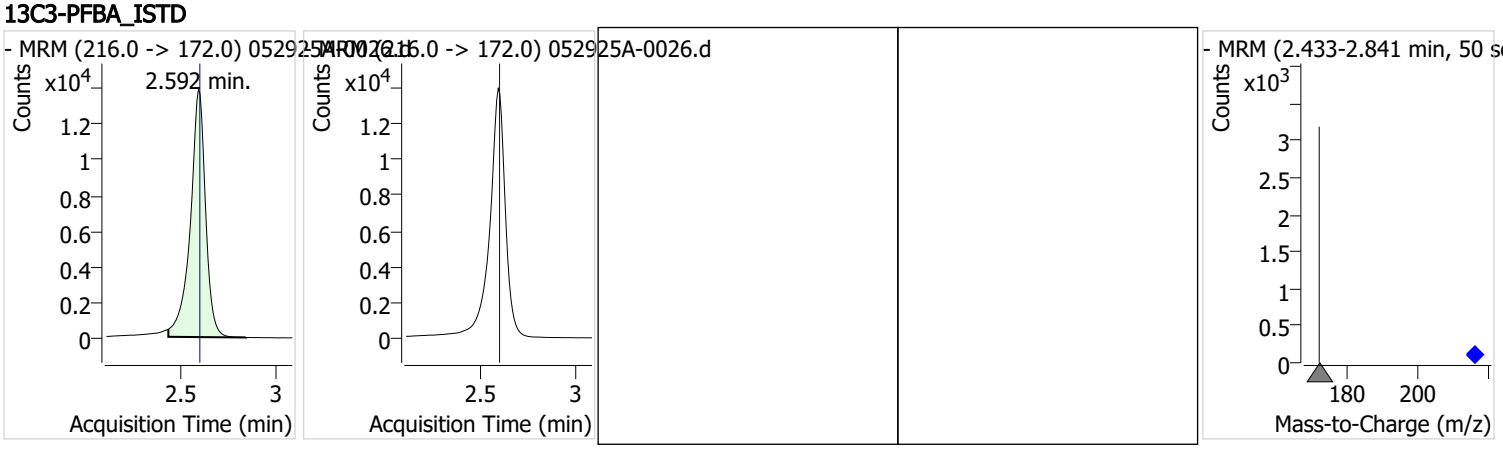
18O2-PFHxS



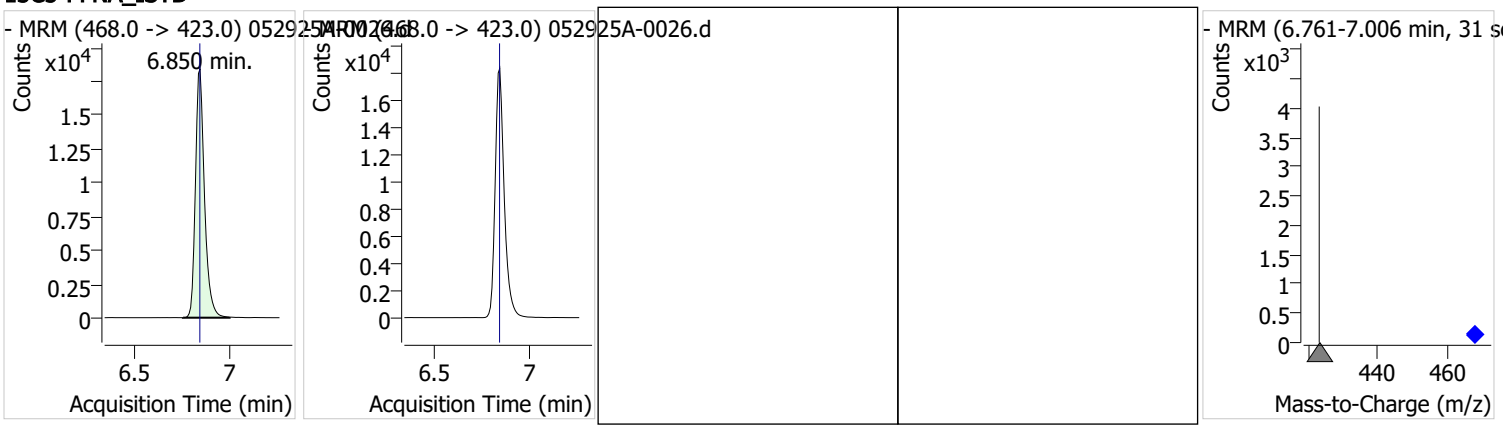
13C4-PFOA_ISTD



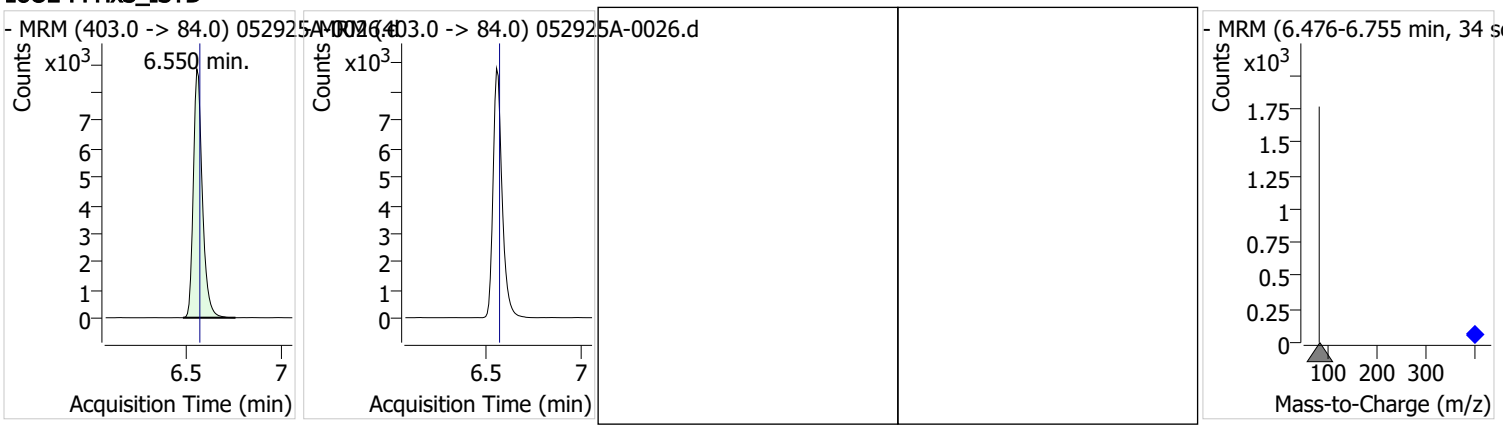
13C3-PFBA_ISTD



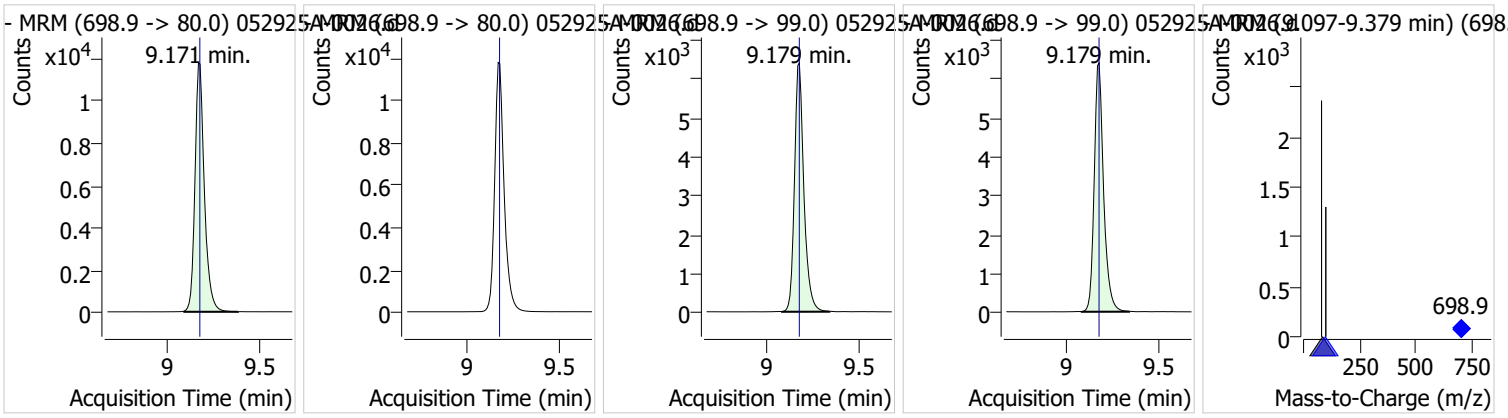
13C5-PFNA_ISTD



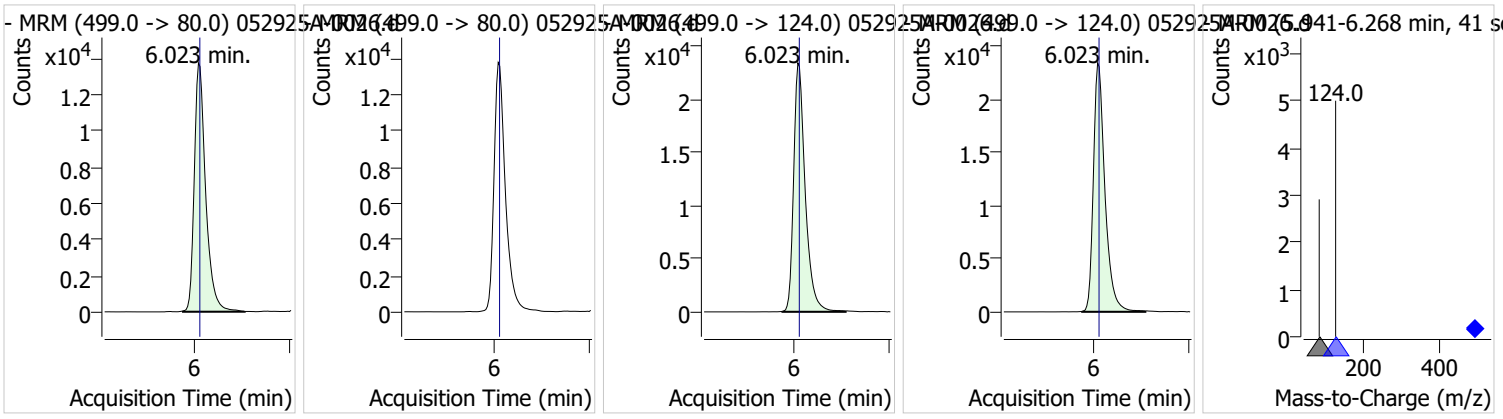
18O2-PFHxS_ISTD



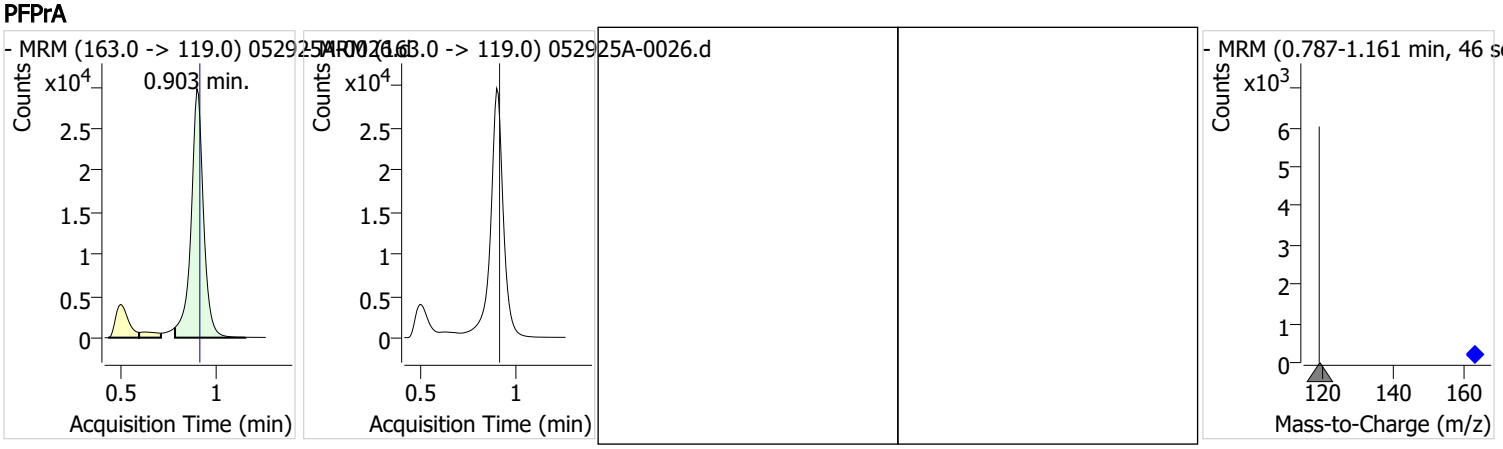
PFDoS



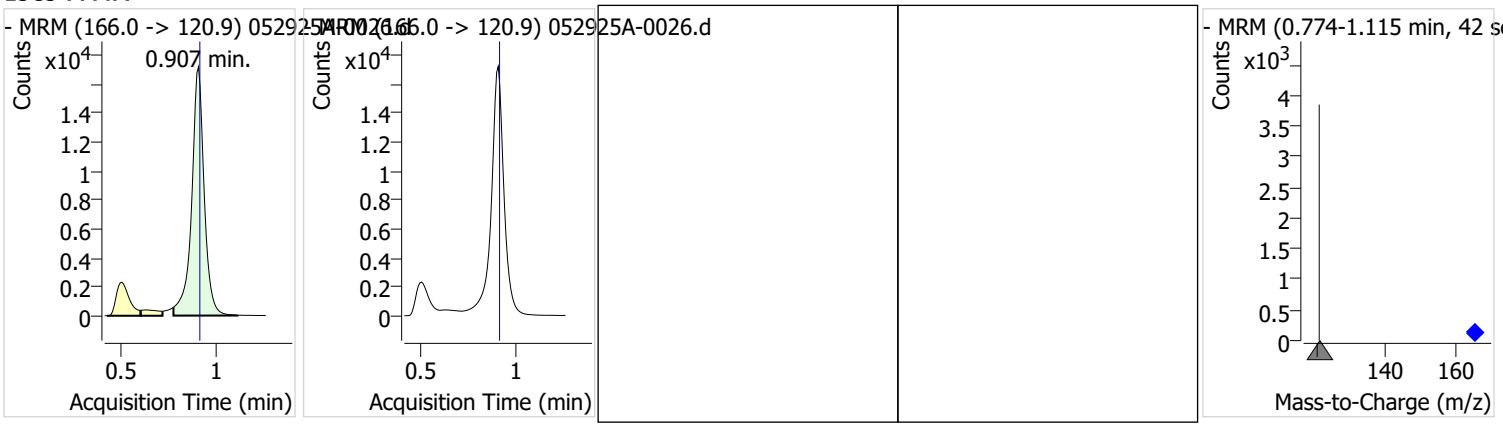
TDCA



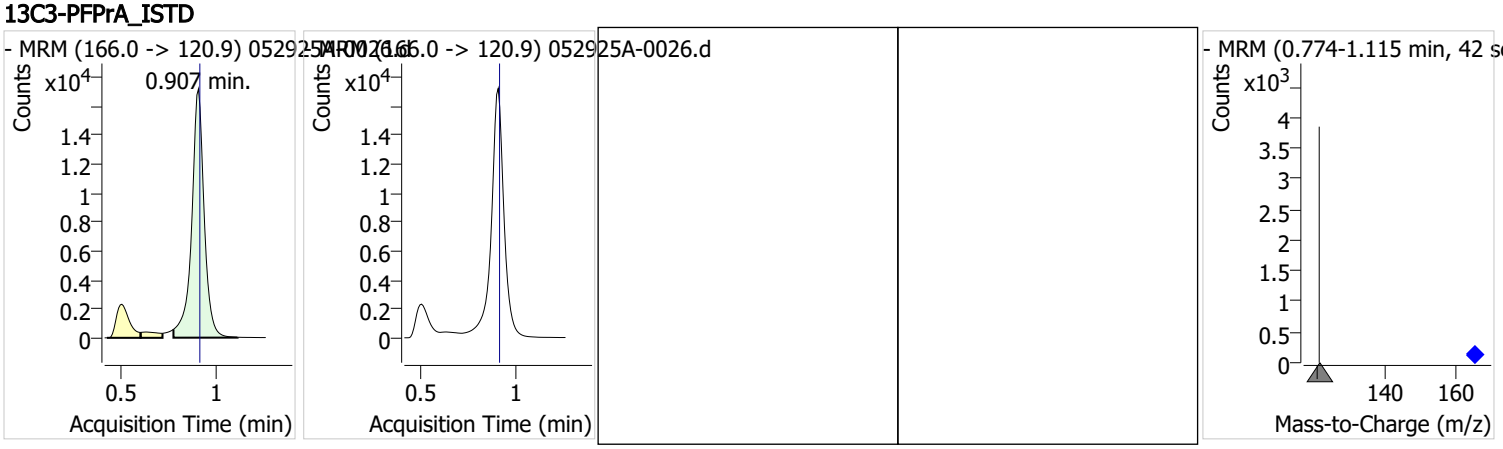
PFPrA



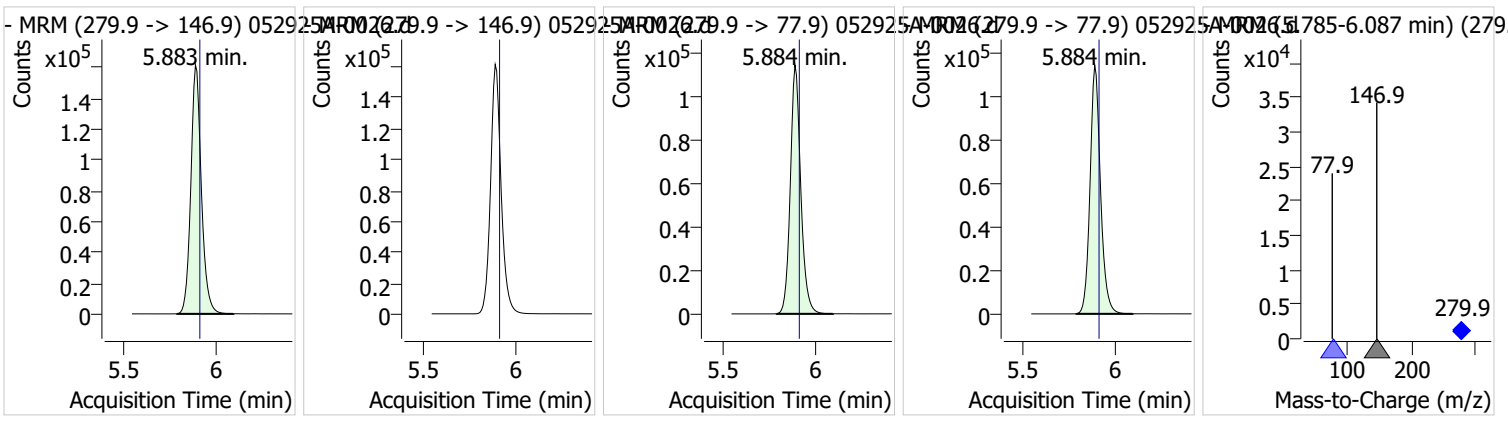
13C3-PFPrA



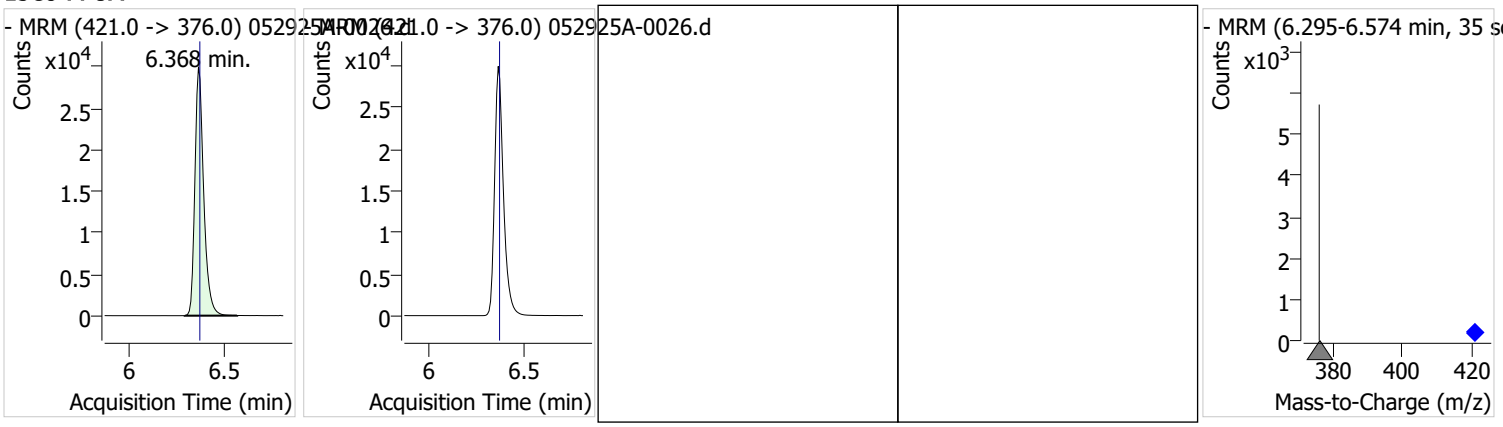
13C3-PFPrA_ISTD



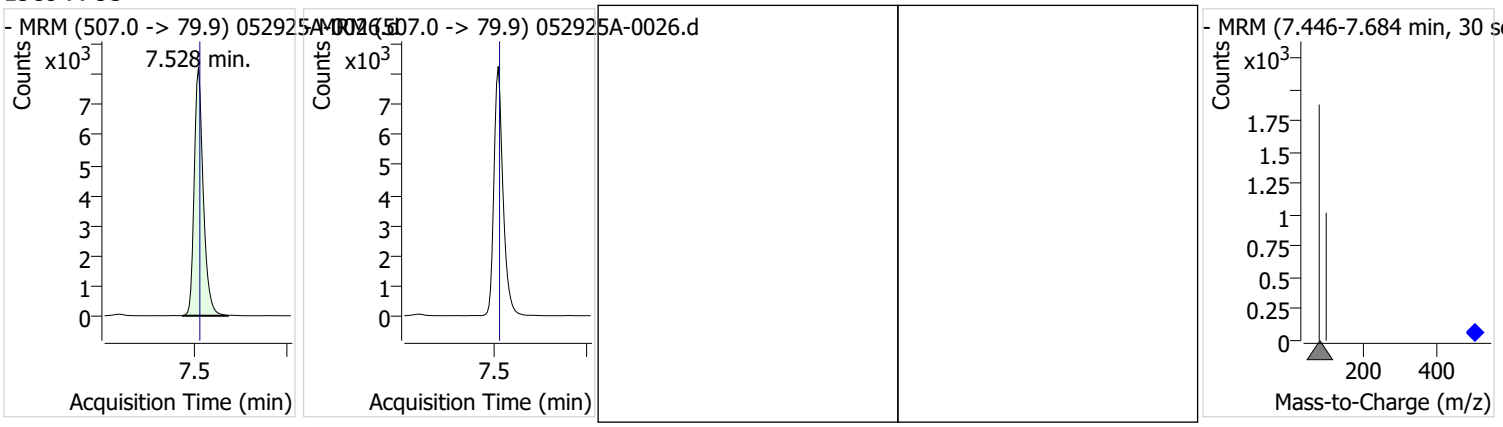
TFSI



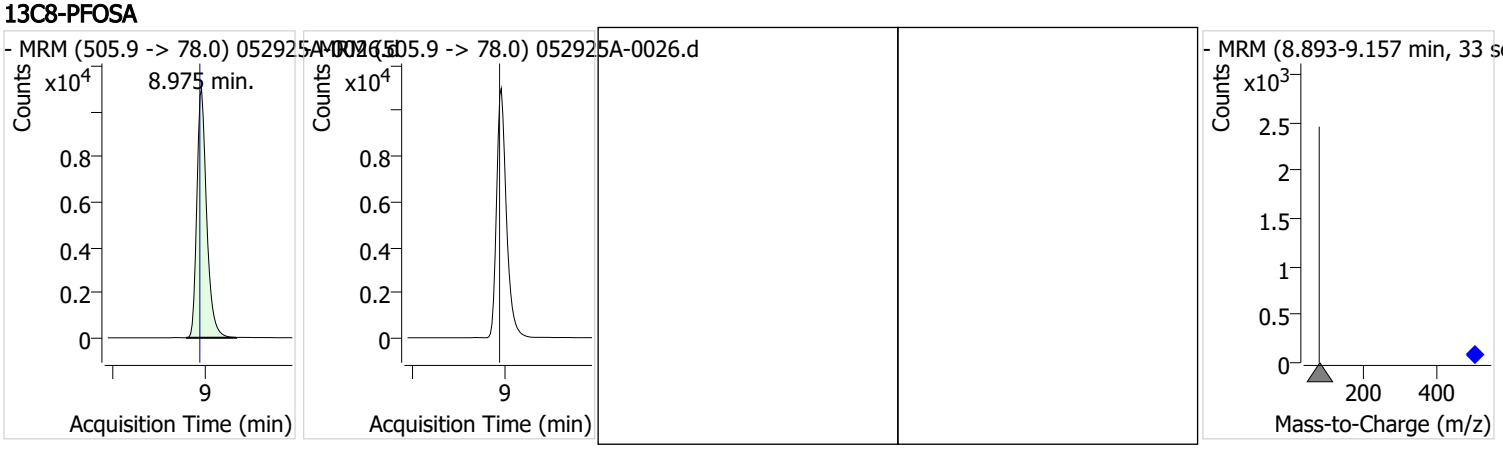
13C8-PFOA



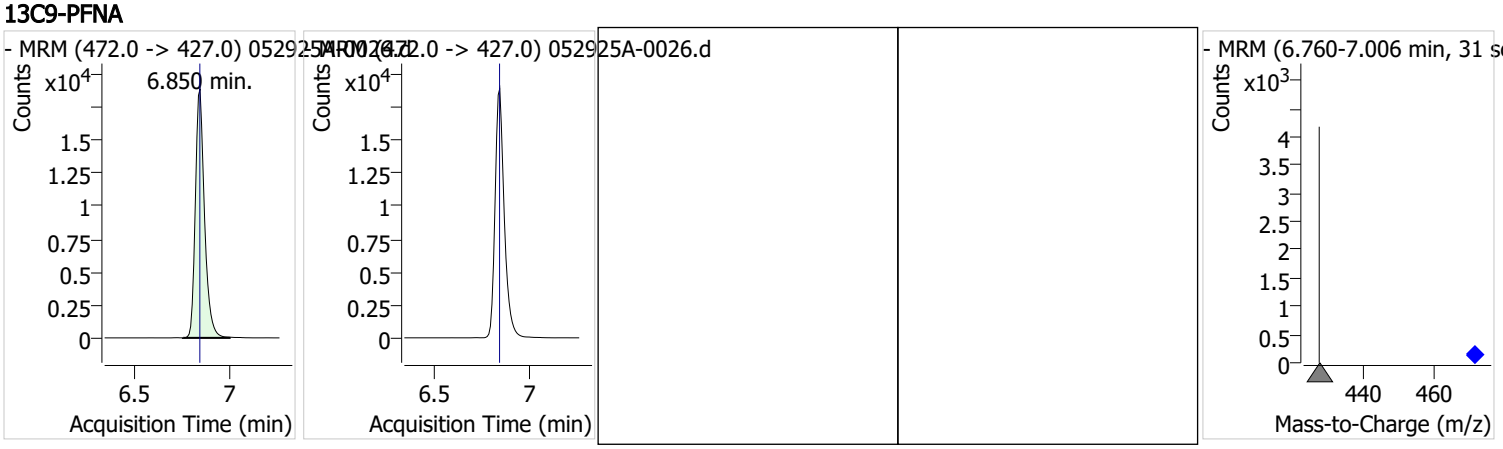
13C8-PFOS



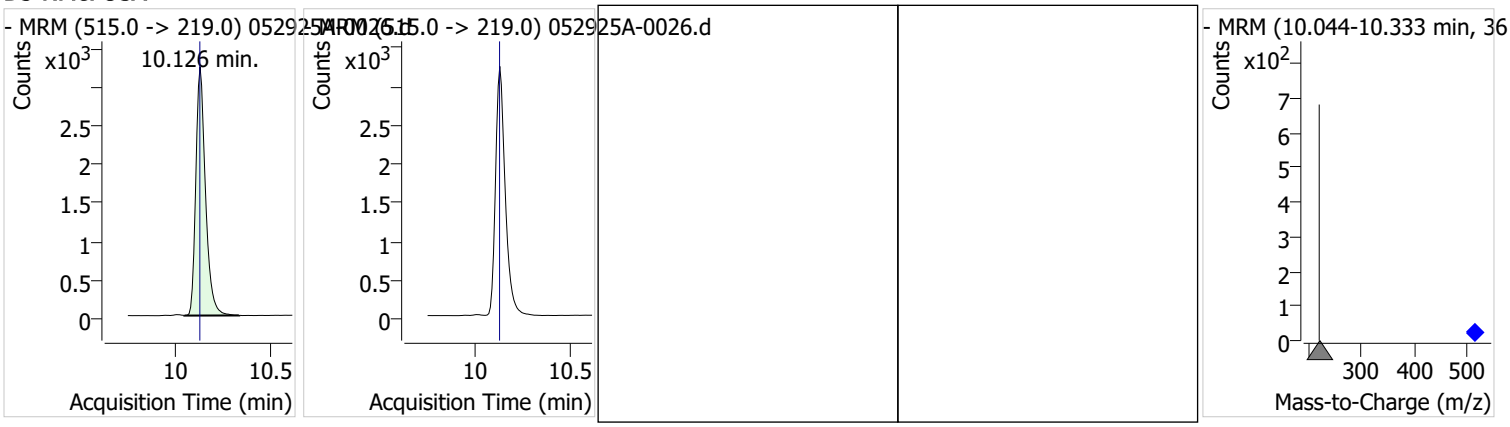
13C8-PFOSA



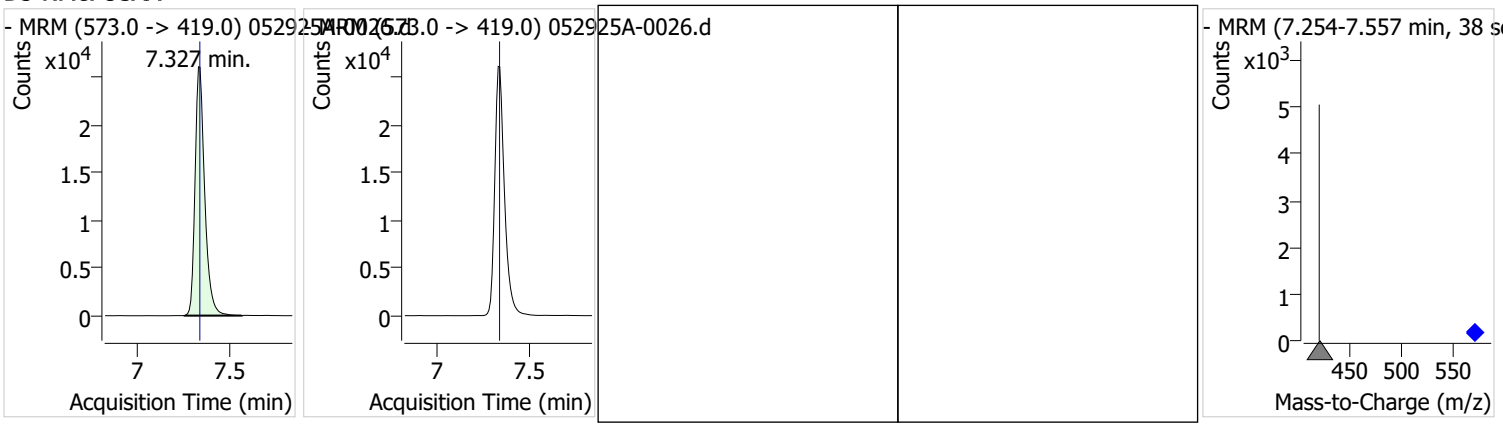
13C9-PFNA



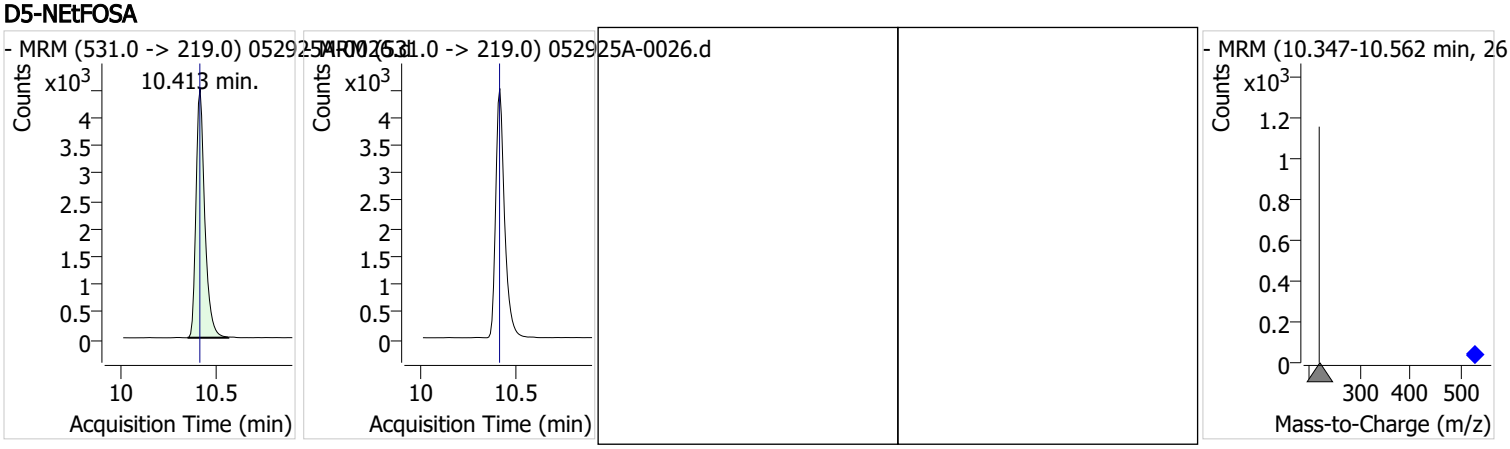
D3-NMeFOSA



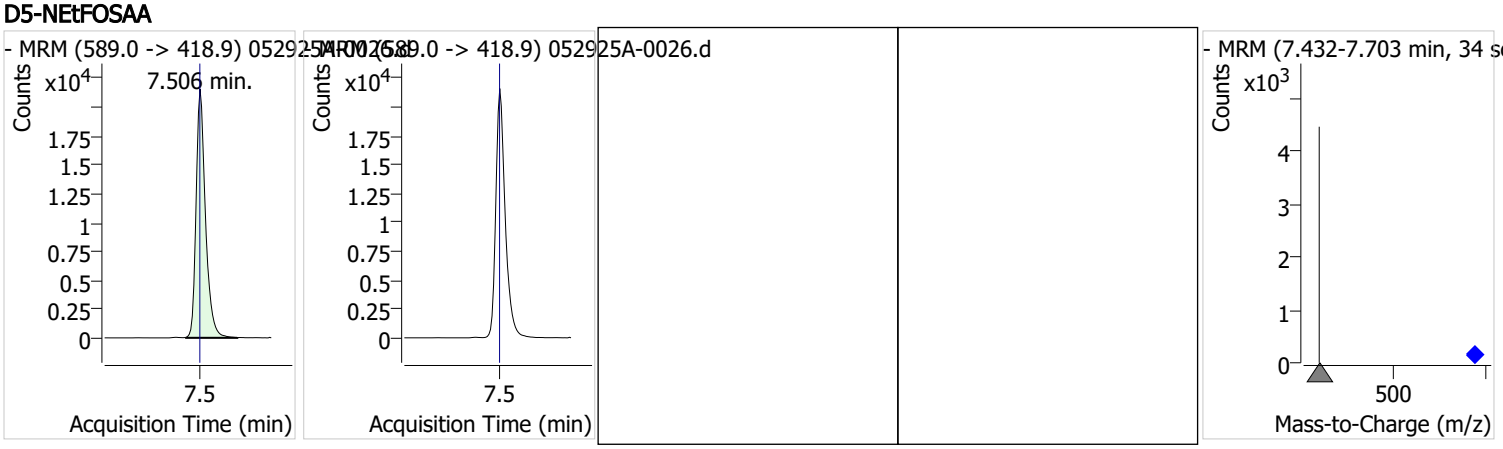
D3-NMeFOSAA



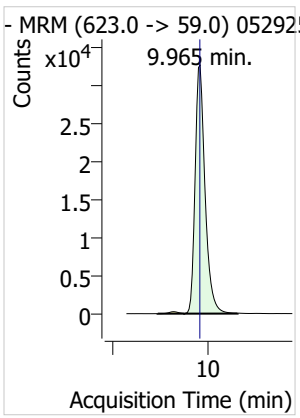
D5-NEtFOSA

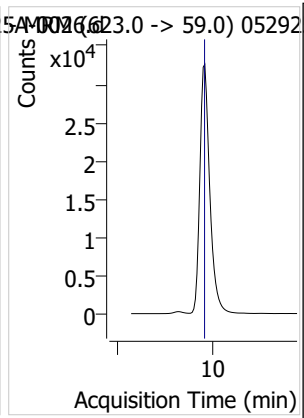


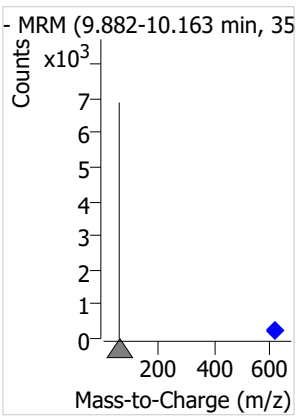
D5-NEtFOSAA



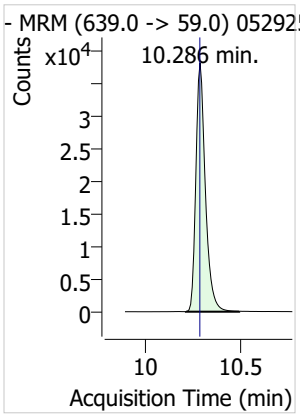
D7-NMeFOSE

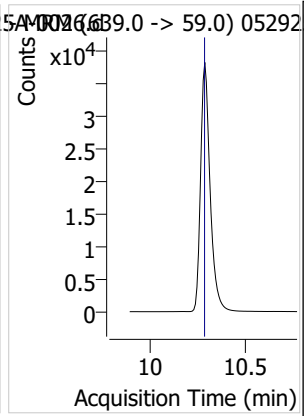


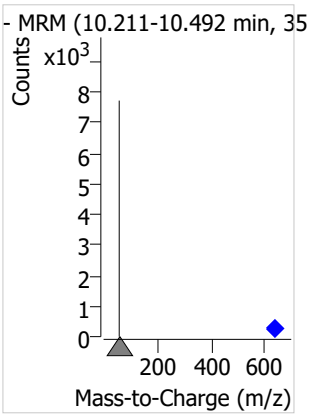




D9-NEtFOSE

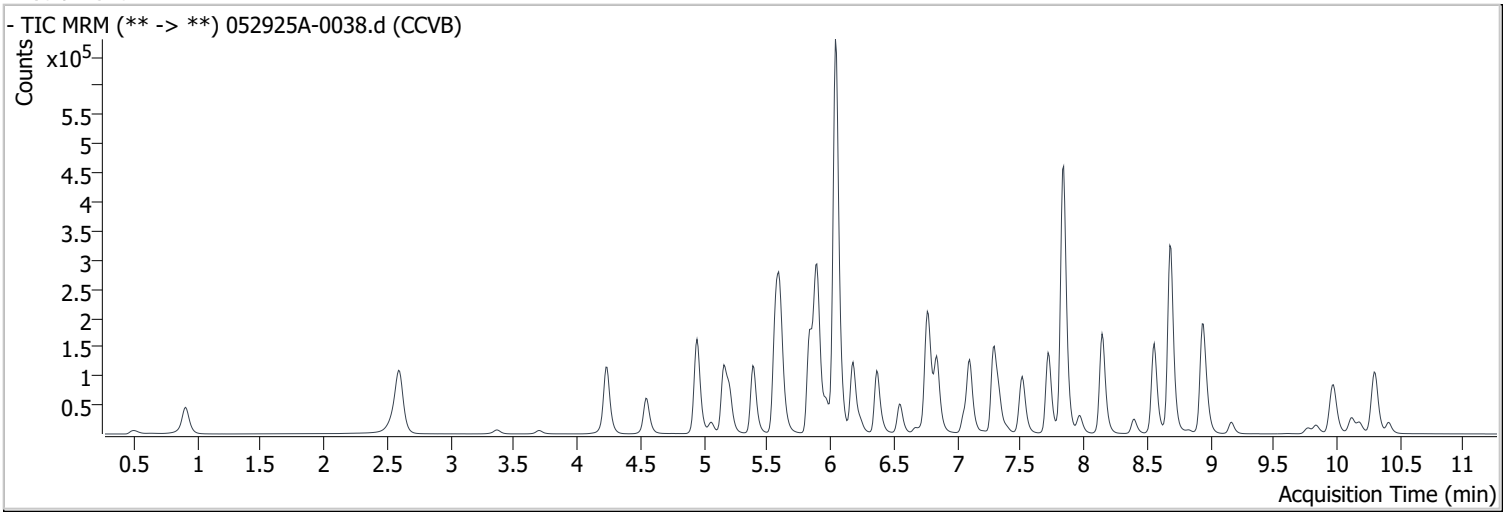






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 6:52 PM	**Data File**	052925A-0038.d
Sample Type	CC	**Sample Name**	CCVB
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	2	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	164390	48718.63		13C3-HFPODA_ISTD	5.394	81808	20.4706	ng/ml			
285.0 -> 184.9	5.394	95660	3130.42	58.2								
4:2FTS	4.947	342302	79374.62		13C2-4:2FTS_ISTD	4.946	27460	18.9391	ng/ml			
327.0 -> 80.9	4.947	124687	36318.15	36.4								
6:2FTS	6.180	210830	62367.36		13C2-6:2FTS_ISTD	6.180	19829	19.7398	ng/ml			
427.0 -> 80.9	6.181	91950	33064.29	43.6								
ADONA	6.044	1511850	70021.40		13C4-PFHpA_ISTD	5.839	144280	16.1606	ng/ml			
377.0 -> 85.1	6.044	615495	42940.24	40.7								
8:2FTS	7.100	228236	18474.52		13C2-8:2FTS_ISTD	7.100	19602	21.2419	ng/ml			
527.0 -> 81.0	7.101	95798	323136.94	42.0								
13C4-PFBA	2.597	180488	7189.83		13C3-PFBA_ISTD	2.592	76673	9.6718	ng/ml			
9Cl-PF3ONS	7.846	1223779	20618.56		13C8-PFOS_ISTD	7.528	26904	20.1170	ng/ml			
533.0 -> 353.0	7.846	337140	10606.61	27.5								
11Cl-PF3OUdS	8.685	878269	134922.07		13C8-PFOS_ISTD	7.528	26904	20.6207	ng/ml			
633.0 -> 453.0	8.684	223010	15706.96	25.4								
PFHpS	7.064	72915	4234.81		13C8-PFOS_ISTD	7.528	26904	4.8836	ng/ml			
449.0 -> 98.8	7.064	32599	2238.16	44.7								
13C2-4:2FTS	4.946	27460	3961.39		18O2-PFHxS_ISTD	6.559	28952	5.5082	ng/ml			
13C2-6:2FTS	6.180	19829	5886.90		18O2-PFHxS_ISTD	6.559	28952	5.2791	ng/ml			
13C2-8:2FTS	7.100	19602	35365.62		18O2-PFHxS_ISTD	6.559	28952	5.1991	ng/ml			
13C2-PFDoA	8.146	96945	2903.21		13C2-PFDA_ISTD	7.290	60473	1.2831	ng/ml			
13C2-PFDA	7.290	60473	73821.11					1.2438	ng/ml			
13C2-PFHxA	5.162	76848	3155.72					2.4932	ng/ml			
13C2-PFTeDA	8.936	105506	18649.39		13C2-PFDA_ISTD	7.290	60473	1.2428	ng/ml			
13C4-PFOS	7.529	29149	2158.33					2.6444	ng/ml			
13C3-HFPODA	5.394	81808	44921.07		13C2-PFHxA_ISTD	5.162	76848	9.9635	ng/ml			
13C3-PFBS	5.205	47798	20020.37		18O2-PFHxS_ISTD	6.559	28952	2.4182	ng/ml			
13C3-PFHxS	6.551	32534	16121.73		18O2-PFHxS_ISTD	6.559	28952	2.4307	ng/ml			
NEtFOSAA	7.434	66735	3720.35		D5-NEtFOSAA_ISTD	7.498	77152	4.4430	ng/ml			
584.0 -> 526.0	7.433	64288	1846.33	96.3								

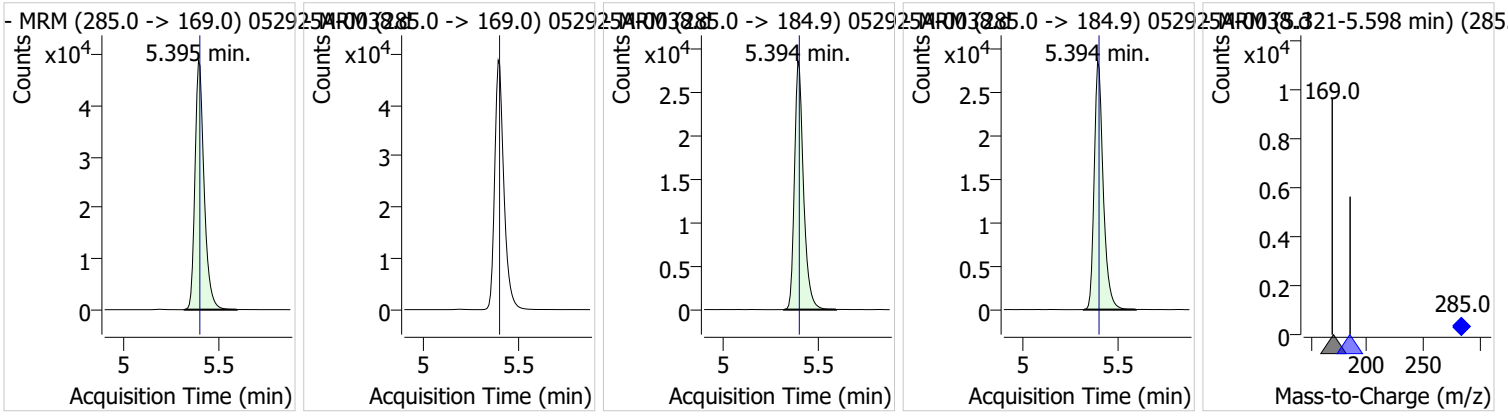
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	144280	6154.77		13C2-PFHxA_ISTD	5.162	76848	2.6438	ng/ml			
NMeFOSAA	7.247	32201	2135.84		D3-NMeFOSAA_ISTD	7.327	94095	4.6040	ng/ml			
570.0 -> 483.0	7.246	40637	2988.44	126.2								
PFBA	2.594	353741	5240.37		13C4-PFBA_ISTD	2.597	180488	19.6676	ng/ml			
13C5-PFHxA	5.161	86336	11195.25		13C2-PFHxA_ISTD	5.162	76848	2.5308	ng/ml			
PFBS	5.205	110724	43706.68		13C3-PFBS_ISTD	5.205	47798	4.3921	ng/ml			
298.9 -> 98.8	5.205	40102	6846.81	36.2								
NMeFOSA	10.073	27360	2069.49		D3-NMeFOSA_ISTD	10.118	11937	4.8153	ng/ml			
512.0 -> 169.0	10.074	37538	1339.41	137.2								
PFDA	7.290	288814	13862.39		13C6-PFDA_ISTD	7.289	72431	4.8730	ng/ml			
513.0 -> 219.0	7.290	53820	7221.83	18.6								
PFDoA	8.146	438324	8267.58		13C2-PFDoA_ISTD	8.146	96945	5.0199	ng/ml			
613.0 -> 319.0	8.147	48603	70369.14	11.1								
NEtFOSA	10.377	33696	3084.11		D5-NEtFOSA_ISTD	10.405	14088	4.8892	ng/ml			
526.0 -> 169.0	10.377	46292	1803.40	137.4								
PFHpA	5.839	313847	2359.10		13C4-PFHpA_ISTD	5.839	144280	4.8489	ng/ml			
362.9 -> 169.0	5.839	52134	16146.83	16.6								
PFHxA	5.163	196300	2240.84		13C5-PFHxA_ISTD	5.161	86336	4.8735	ng/ml			
313.0 -> 118.9	5.163	6124	2787.80	3.1								
NMeFOSE	9.899	293471	3314.72		D7-NMeFOSE_ISTD	9.957	120760	49.3686	ng/ml			
PFHxS	6.498	74752	6277.00		13C3-PFHxS_ISTD	6.551	32534	4.5476	ng/ml			
398.9 -> 99.0	6.498	33319	3759.31	44.6								
PFNA	6.789	219063	4901.21		13C9-PFNA_ISTD	6.842	64804	4.8306	ng/ml			
463.0 -> 219.0	6.789	69442	3085.15	31.7								
NEtFOSE	10.249	363812	2144.77		D9-NEtFOSE_ISTD	10.277	139453	48.1514	ng/ml			
PFOA	6.300	226548	3803.83		13C8-PFOA_ISTD	6.368	94117	5.0958	ng/ml			
413.0 -> 169.0	6.300	64935	5285.84	28.7								
PFOS	7.399	70948	3226.07		13C8-PFOS_ISTD	7.528	26904	4.4608	ng/ml			
499.0 -> 99.0	7.402	33503	2589.58	47.2								
PFPeA	4.231	304092	52224.74		13C5-PFPeA_ISTD	4.237	136629	9.8860	ng/ml			
PFMPA	3.368	31017	2236.16		13C4-PFBA_ISTD	2.597	180488	9.9345	ng/ml			
13C5-PFPeA	4.237	136629	9779.56		13C2-PFHxA_ISTD	5.162	76848	5.0201	ng/ml			
PFMBA	4.547	227093	121458.30		13C5-PFPeA_ISTD	4.237	136629	10.0074	ng/ml			
PFTrDA	8.559	481414	8349.56		13C2-PFDoA_ISTD	8.146	96945	4.7214	ng/ml			
663.0 -> 168.9	8.559	42969	9854.04	8.9								
PFEESA	5.570	615074	26643.14		13C5-PFHxA_ISTD	5.161	86336	8.9122	ng/ml			
315.0 -> 83.0	5.571	43412	42441.57	7.1								
13C6-PFDA	7.289	72431	4022.06		13C2-PFDA_ISTD	7.290	60473	1.2720	ng/ml			
NFDHA	5.066	46339	91601.13		13C5-PFHxA_ISTD	5.161	86336	9.9220	ng/ml			
295.0 -> 85.0	5.067	14475	22896.75	31.2								
PFOSA	8.899	86639	2738.61		13C8-PFOSA_ISTD	8.975	40951	4.8099	ng/ml			
497.9 -> 478.0	8.902	2314	653.63	2.7								
13C7-PFUnA	7.721	81042	24246.83		13C2-PFDA_ISTD	7.290	60473	1.2743	ng/ml			
13C4-PFOA	6.369	20598	5806.36					2.4912	ng/ml			
PFDS	8.406	55298	12193.70		13C8-PFOS_ISTD	7.528	26904	4.8878	ng/ml			
599.0 -> 98.8	8.405	27585	8157.54	49.9								
PFNS	7.969	67719	19738.53		13C8-PFOS_ISTD	7.528	26904	4.8690	ng/ml			
549.0 -> 98.8	7.968	31276	1777.15	46.2								
PFPeS	5.971	97031	6598.53		13C3-PFHxS_ISTD	6.551	32534	4.7554	ng/ml			
349.0 -> 98.9	5.971	42480	118877.00	43.8								
PFTeDA	8.937	479017	15213.85		13C2-PFTeDA_ISTD	8.936	105506	4.9188	ng/ml			

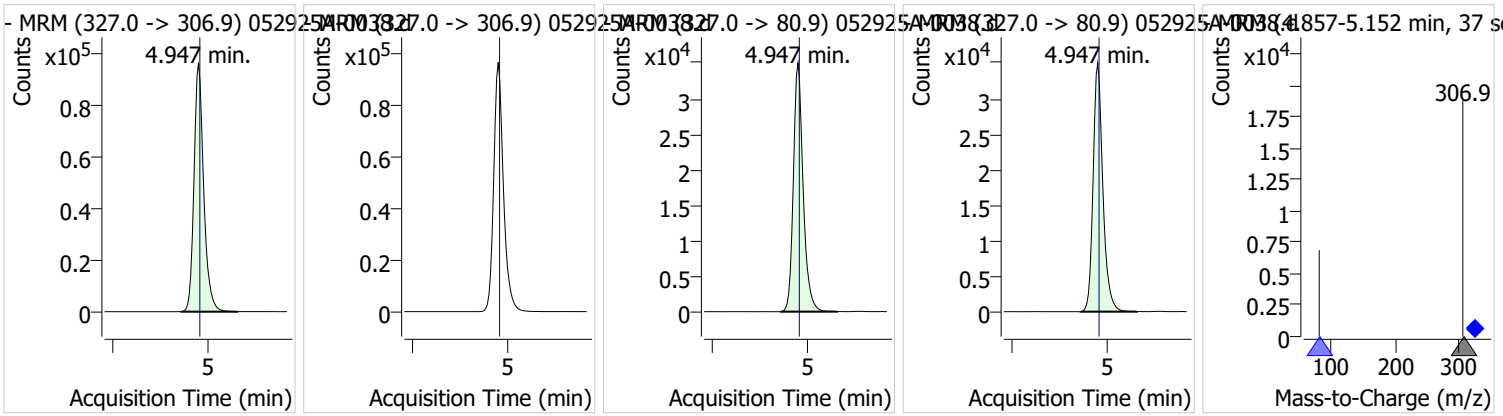
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	26836	3354.19	5.6								
PFUnA	7.722	327047	6090.54		13C7-PFUnA_ISTD	7.721	81042	4.8323	ng/ml			
563.0 -> 269.1	7.722	57181	148552.56	17.5								
13C3-PFBA	2.592	76673	2405.92					5.0488	ng/ml			
3:3FTCA	3.695	16222	1613.74		13C5-PFPeA_ISTD	4.237	136629	20.9669	ng/ml			
241.0 -> 117.0	3.698	8813	1308.15	54.3								
5:3FTCA	5.601	364158	16758.39		13C5-PFHxA_ISTD	5.161	86336	113.0130	ng/ml			
341.0 -> 217.0	5.602	334560	15124.49	91.9								
7:3FTCA	6.770	397474	86104.65		13C9-PFNA_ISTD	6.842	64804	114.6490	ng/ml			
441.0 -> 337.0	6.770	438515	109232.37	110.3								
13C5-PFNA	6.842	61912	112090.28					1.3092	ng/ml			
18O2-PFHxS	6.559	28952	11437.27					2.5488	ng/ml			
PFDoS	9.171	42141	10208.81		13C8-PFOS_ISTD	7.528	26904	5.5409	ng/ml			
698.9 -> 99.0	9.170	23288	3658.45	55.3								
TDCA	6.023	61070	10845.68		13C8-PFOS_ISTD	7.528	26904	14.2422	ng/ml			
499.0 -> 124.0	6.023	106279	19177.75	174.0								
PFPrA	0.912	134937	4875.74		13C3-PFPrA_ISTD	0.907	78591	19.5398	ng/ml			
13C3-PFPrA	0.907	78591	16888.69		13C3-PFBA_ISTD	2.592	76673	9.4751	ng/ml			
TFSI	5.900	631846	23498.52		13C3-HFPODA_ISTD	5.394	81808	9.7939	ng/ml			
279.9 -> 77.9	5.900	446376	10661.44	70.6								
13C8-PFOA	6.368	94117	28831.92		13C4-PFOA_ISTD	6.369	20598	2.4388	ng/ml			
13C8-PFOS	7.528	26904	773.72		13C4-PFOS_ISTD	7.529	29149	2.3600	ng/ml			
13C8-PFOSA	8.975	40951	5408.02		13C4-PFOS_ISTD	7.529	29149	2.4982	ng/ml			
13C9-PFNA	6.842	64804	242203.51		13C5-PFNA_ISTD	6.842	61912	1.1847	ng/ml			
D3-NMeFOSA	10.118	11937	2126.09		13C4-PFOS_ISTD	7.529	29149	2.2856	ng/ml			
D3-NMeFOSAA	7.327	94095	27524.96		13C4-PFOS_ISTD	7.529	29149	5.1899	ng/ml			
D5-NEtFOSA	10.405	14088	4258.91		13C4-PFOS_ISTD	7.529	29149	2.2439	ng/ml			
D5-NEtFOSAA	7.498	77152	21521.95		13C4-PFOS_ISTD	7.529	29149	5.6033	ng/ml			
D7-NMeFOSE	9.957	120760	22231.70		13C4-PFOS_ISTD	7.529	29149	24.0850	ng/ml			
D9-NEtFOSE	10.277	139453	4695.78		13C4-PFOS_ISTD	7.529	29149	25.0473	ng/ml			

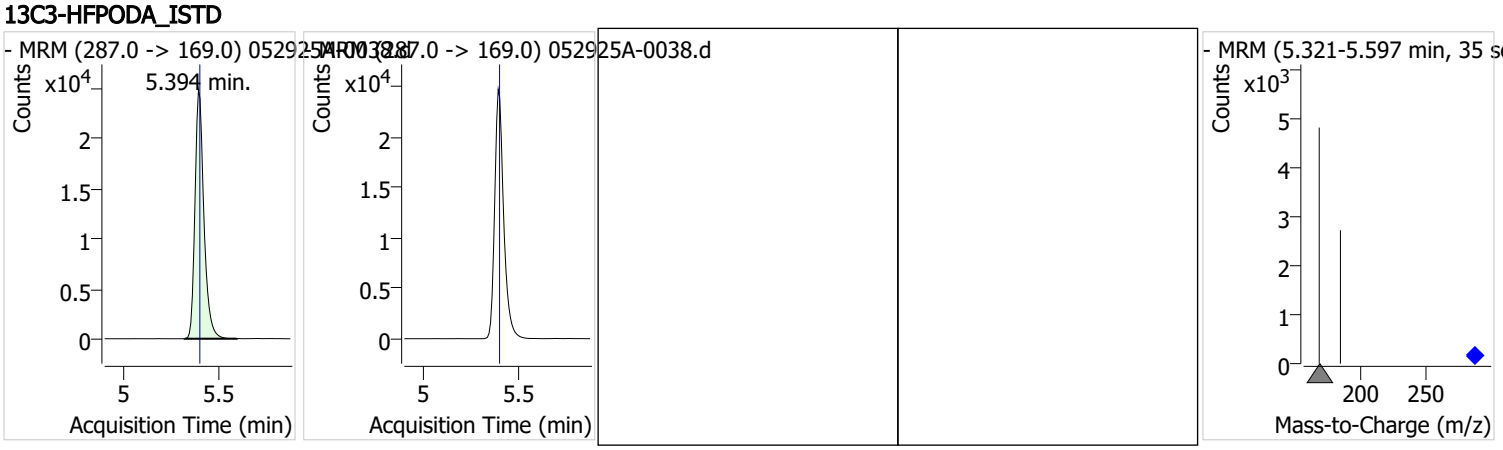
HFPO-DA



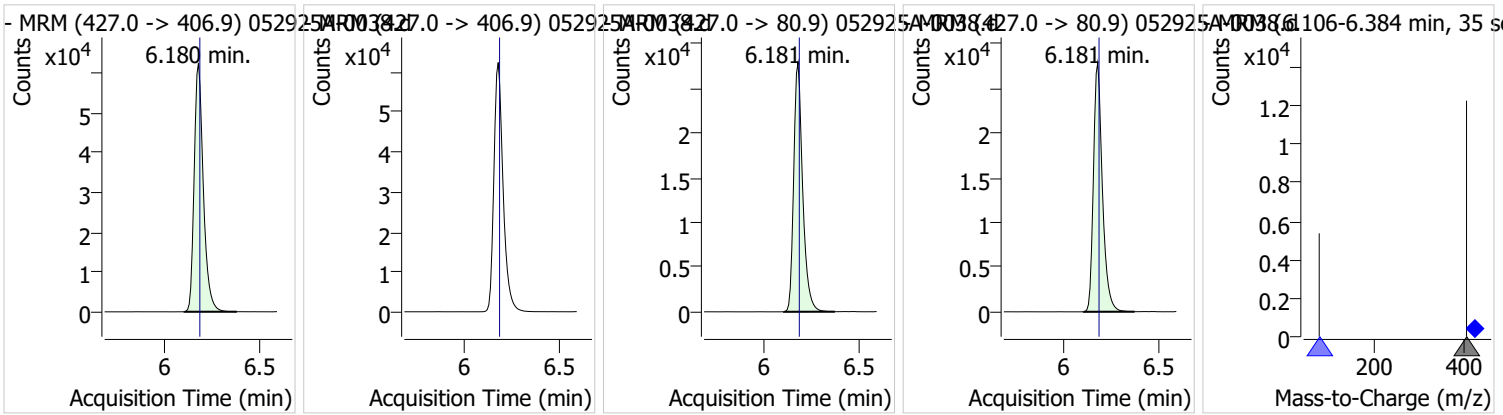
4:2FTS



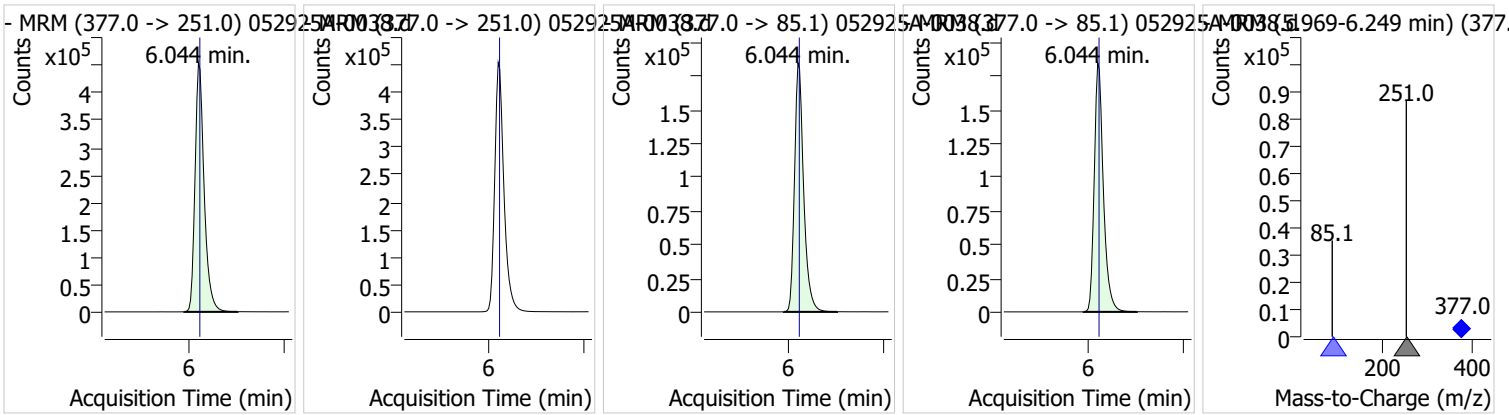
13C3-HFPODA_ISTD



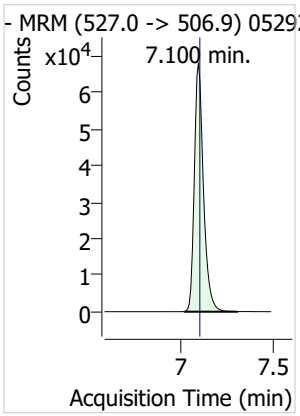
6:2FTS

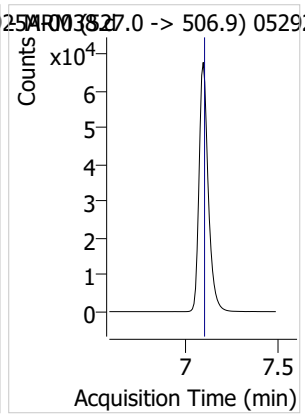


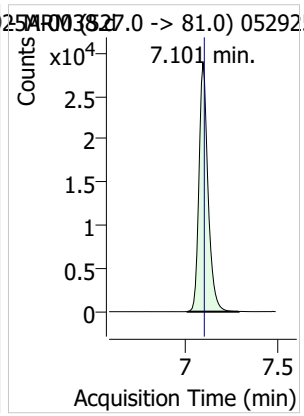
ADONA

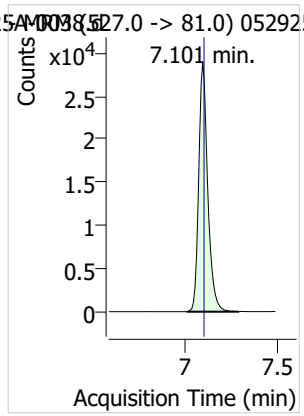


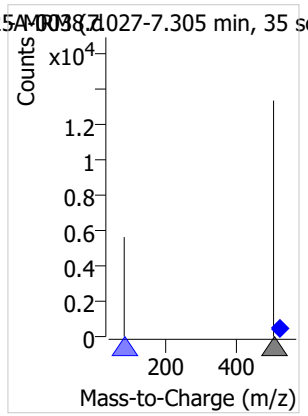
8:2FTS



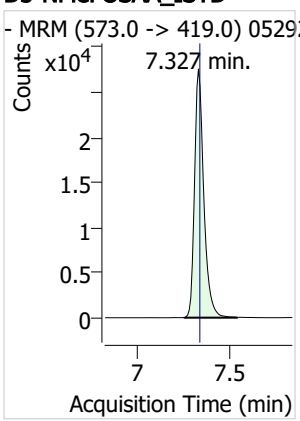


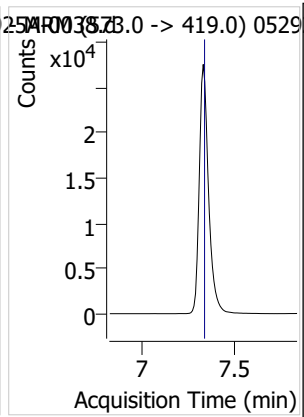


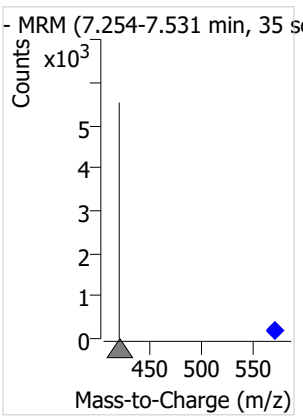




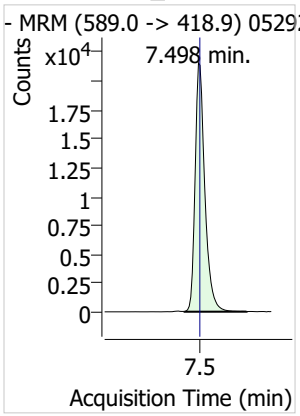
D3-NMeFOSAA_ISTD

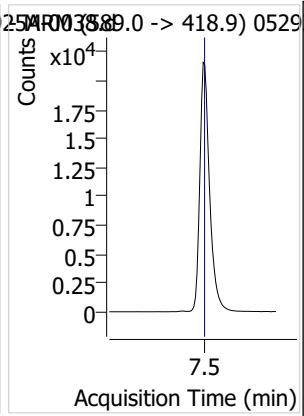


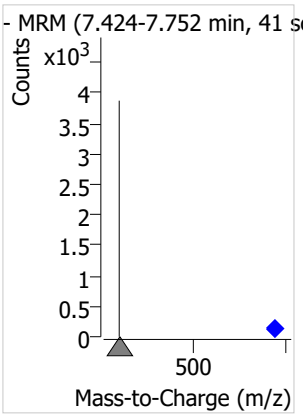




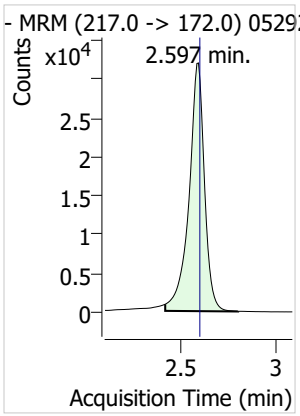
D5-NEtFOSAA_ISTD

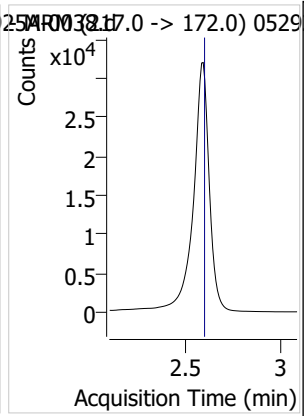


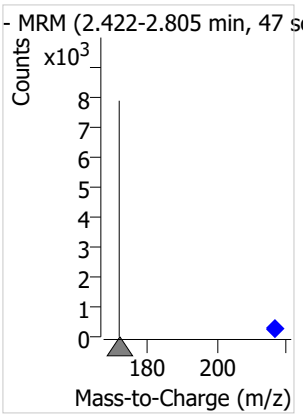




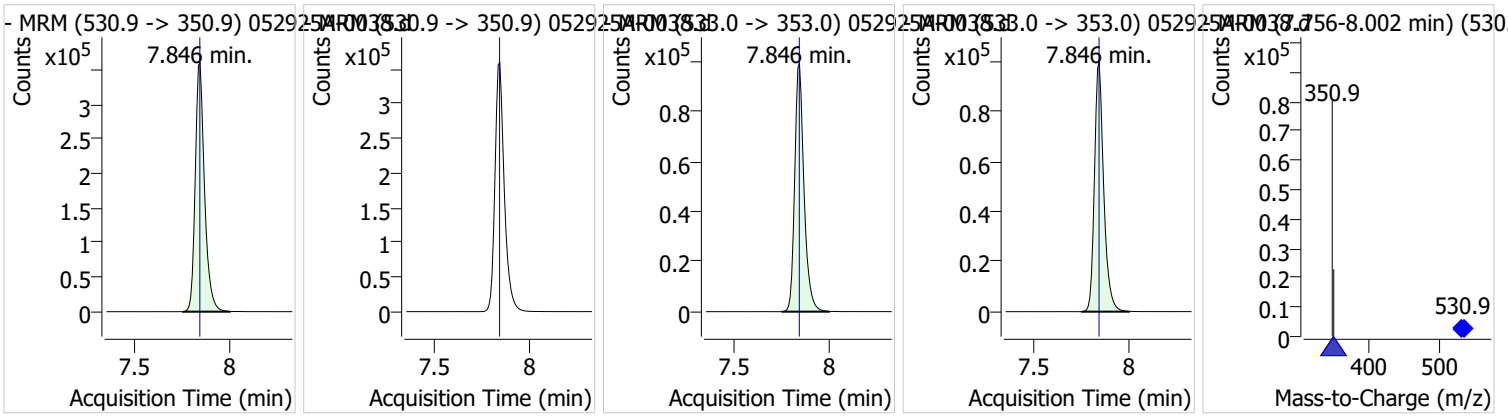
13C4-PFBA



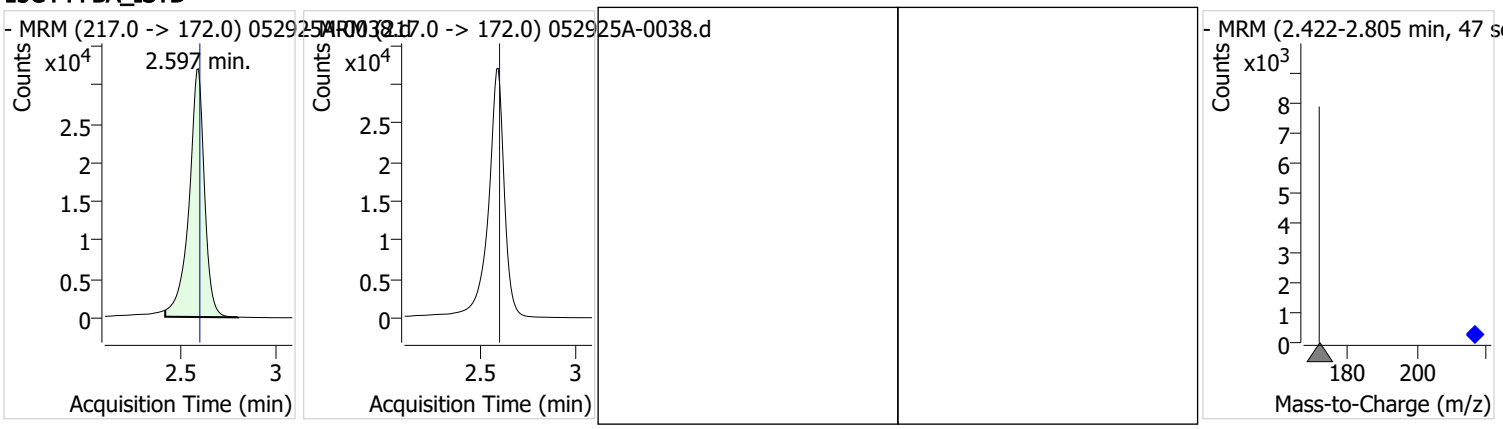




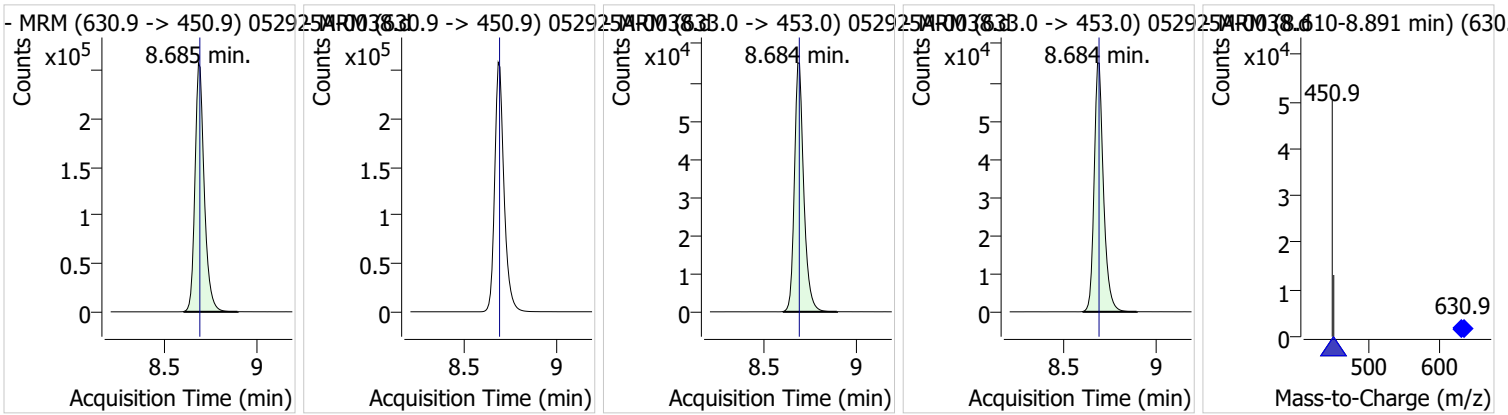
9Cl-PF3ONS



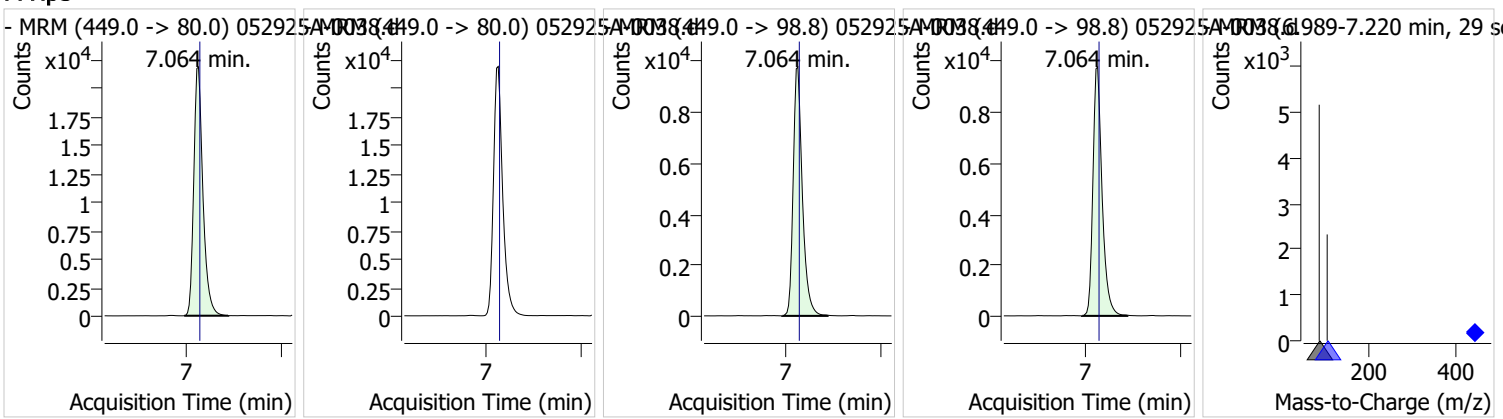
13C4-PFBA_ISTD



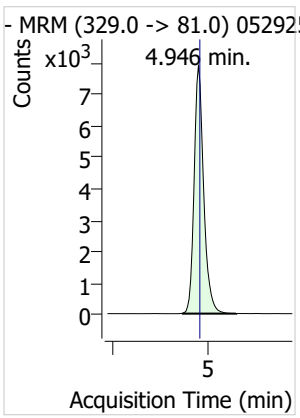
11Cl-PF3OUdS

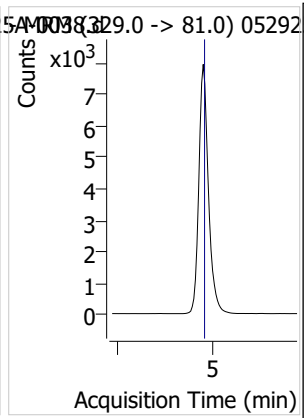


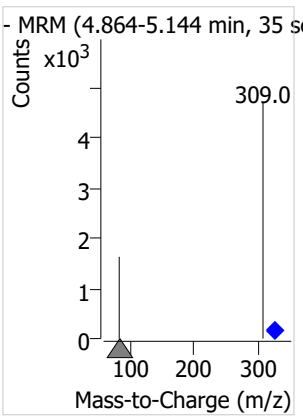
PFHpS



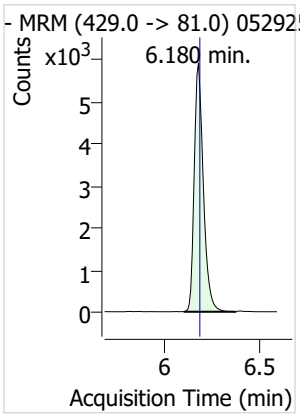
13C2-4:2FTS

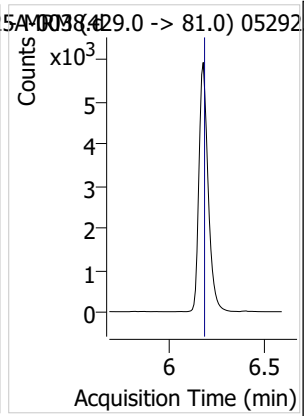


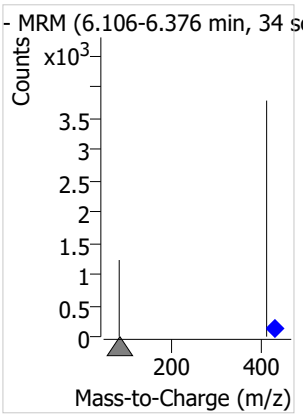




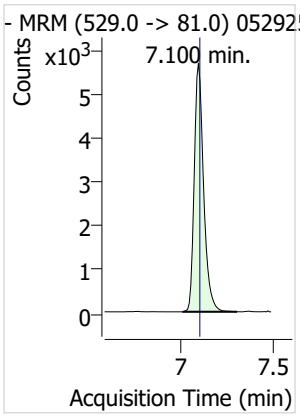
13C2-6:2FTS

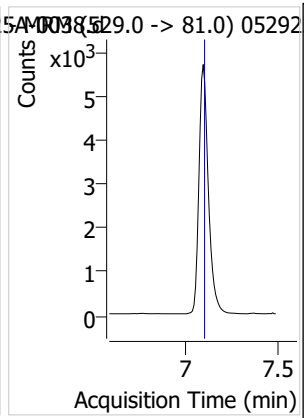


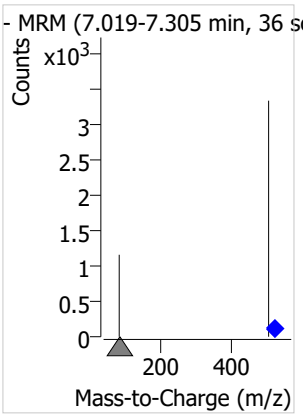




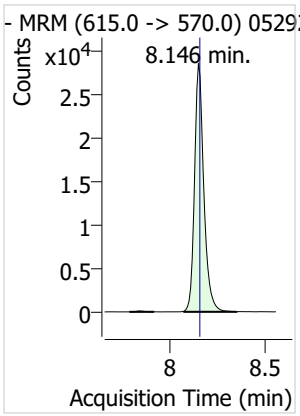
13C2-8:2FTS

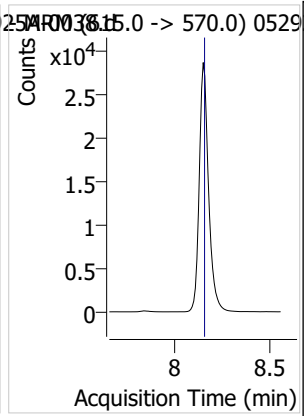


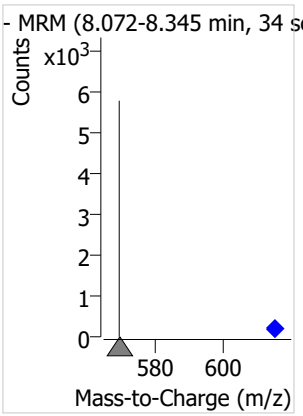




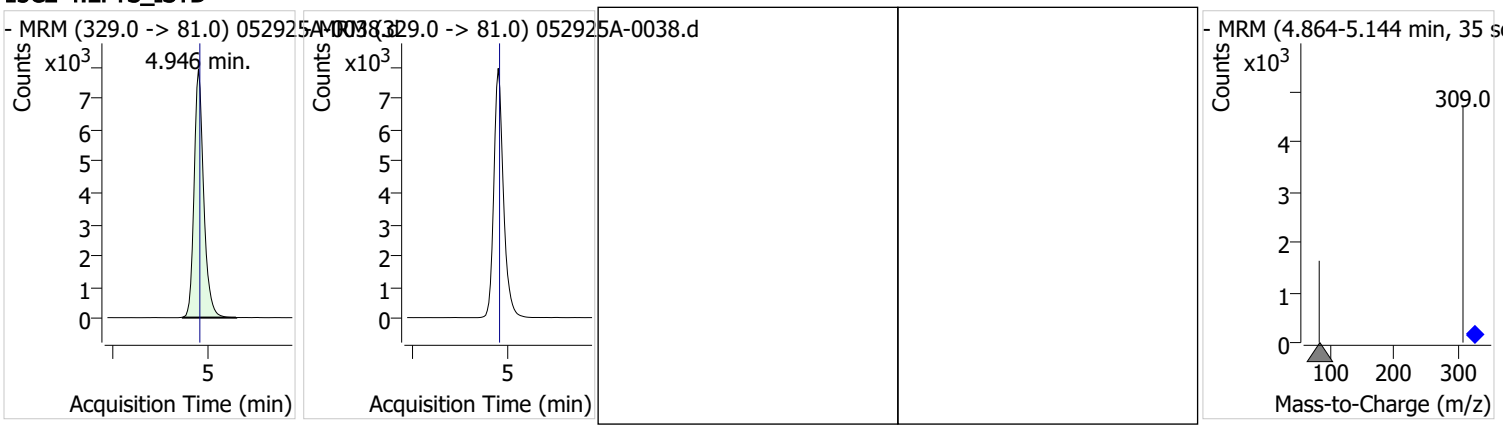
13C2-PFDoA



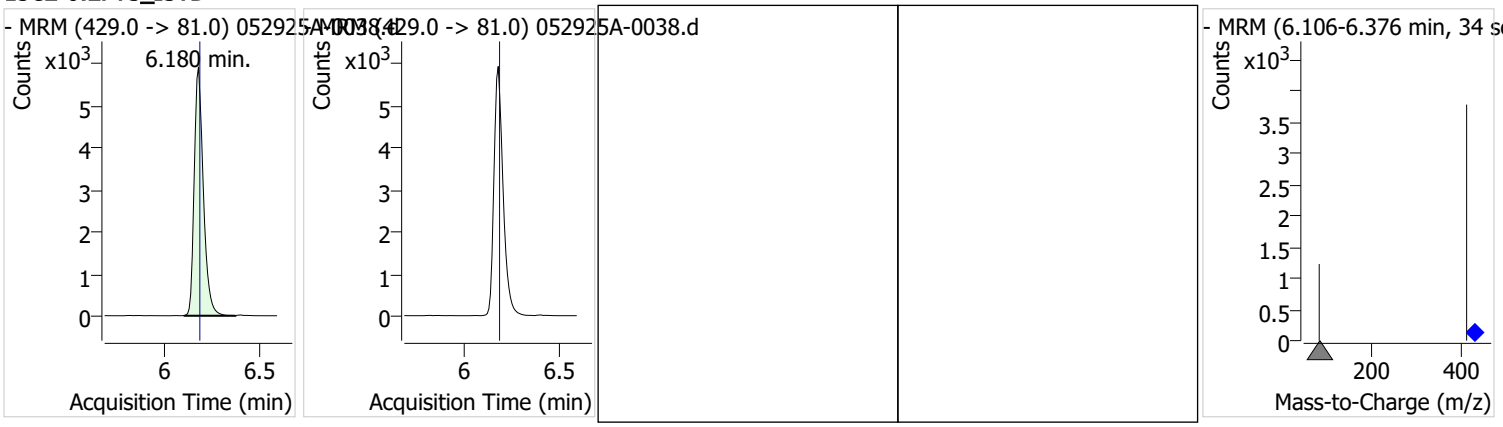




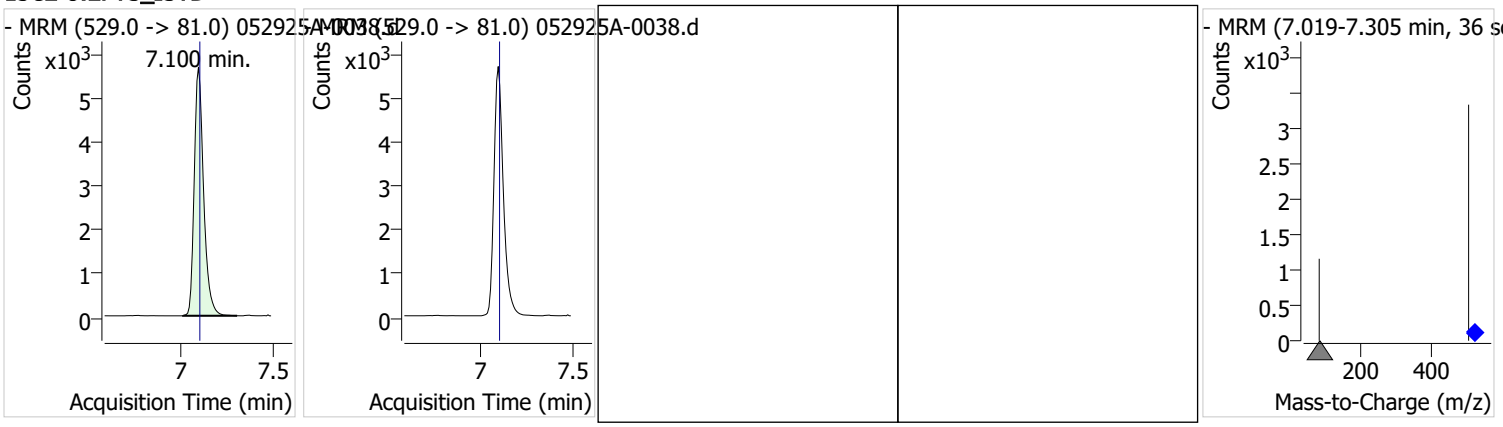
13C2-4:2FTS_ISTD



13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



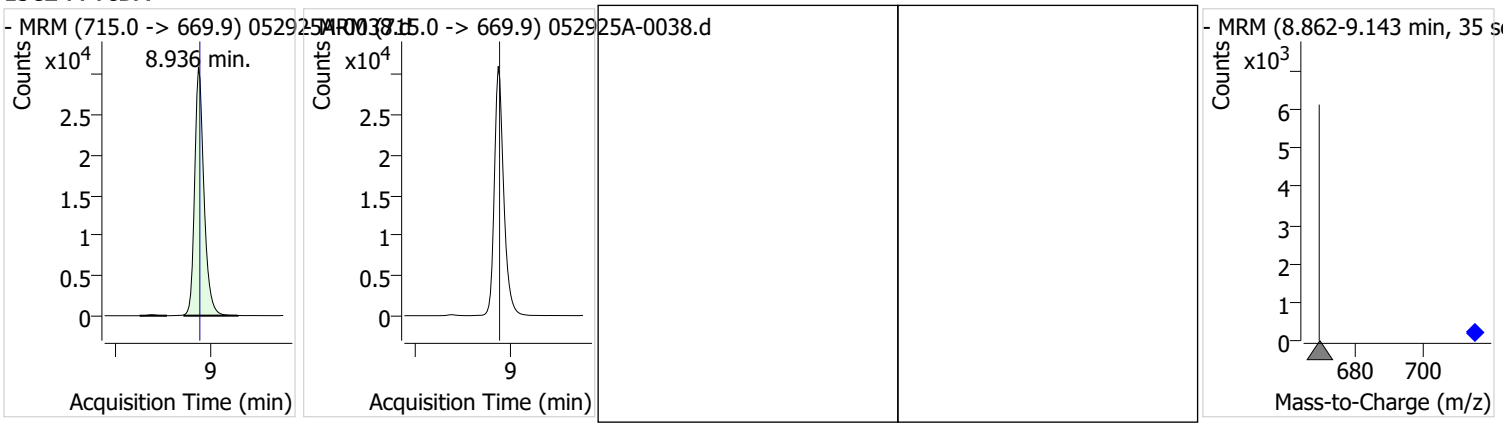
13C2-PFDA



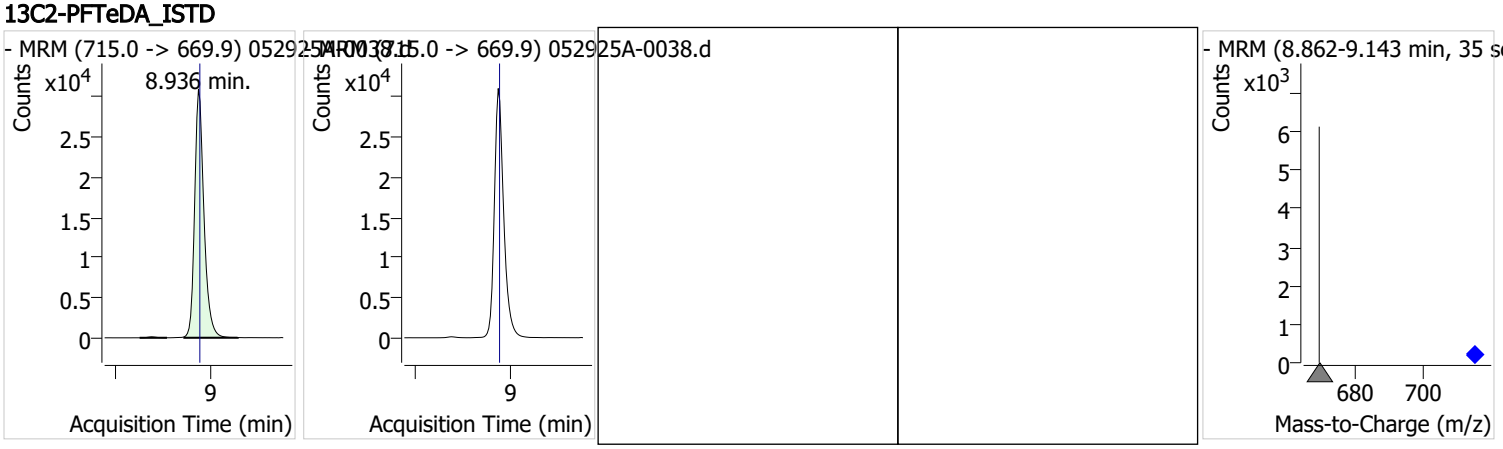
13C2-PFHxA



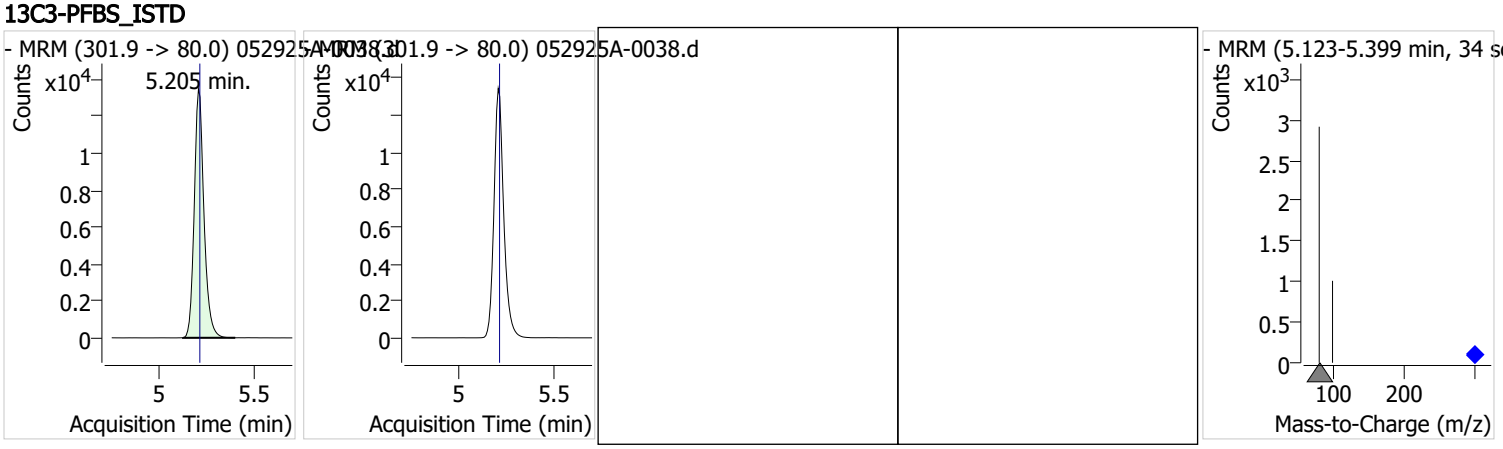
13C2-PFTeDA



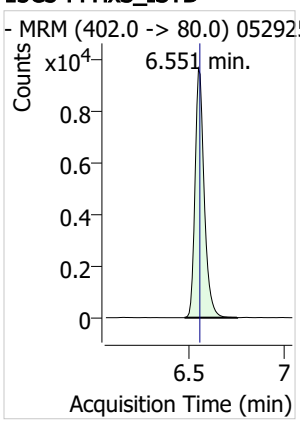
13C2-PFTeDA_ISTD

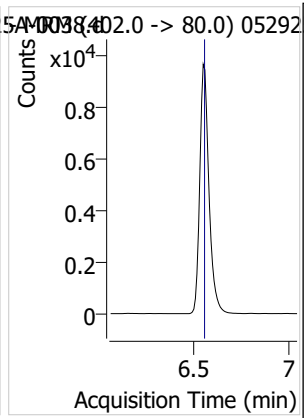


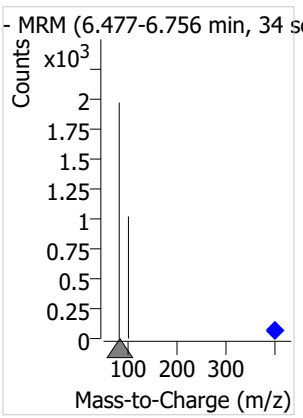
13C3-PFBS_ISTD



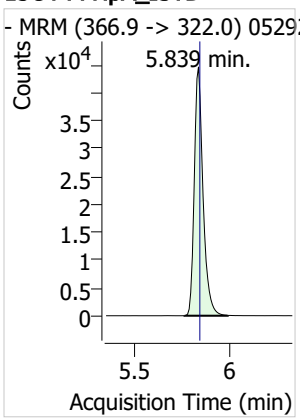
13C3-PFHxS_ISTD

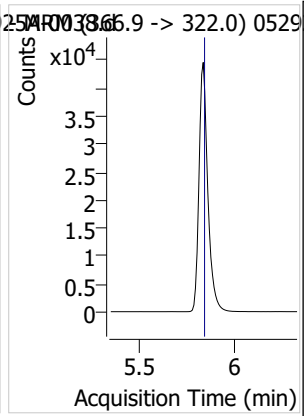


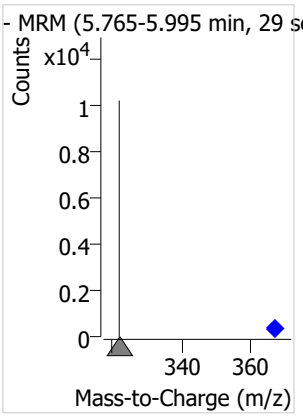




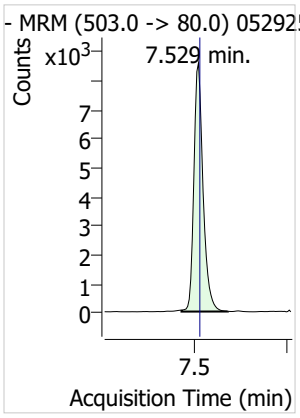
13C4-PFHpA_ISTD

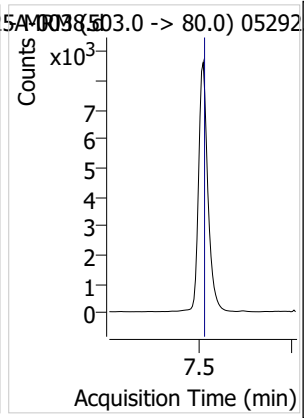


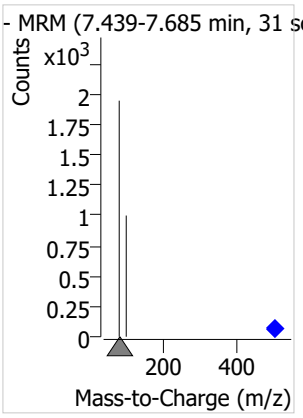




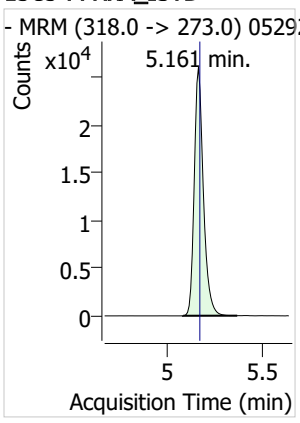
13C4-PFOS

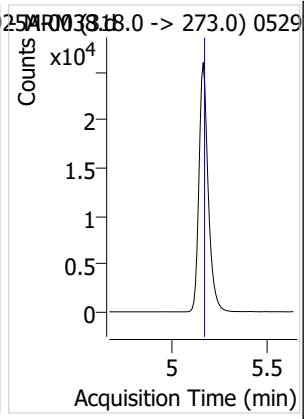


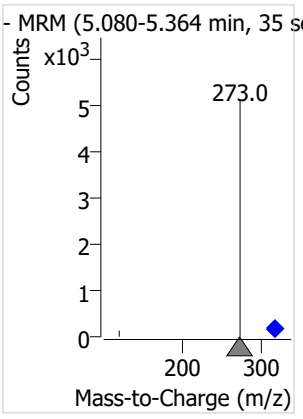




13C5-PFHxA_ISTD







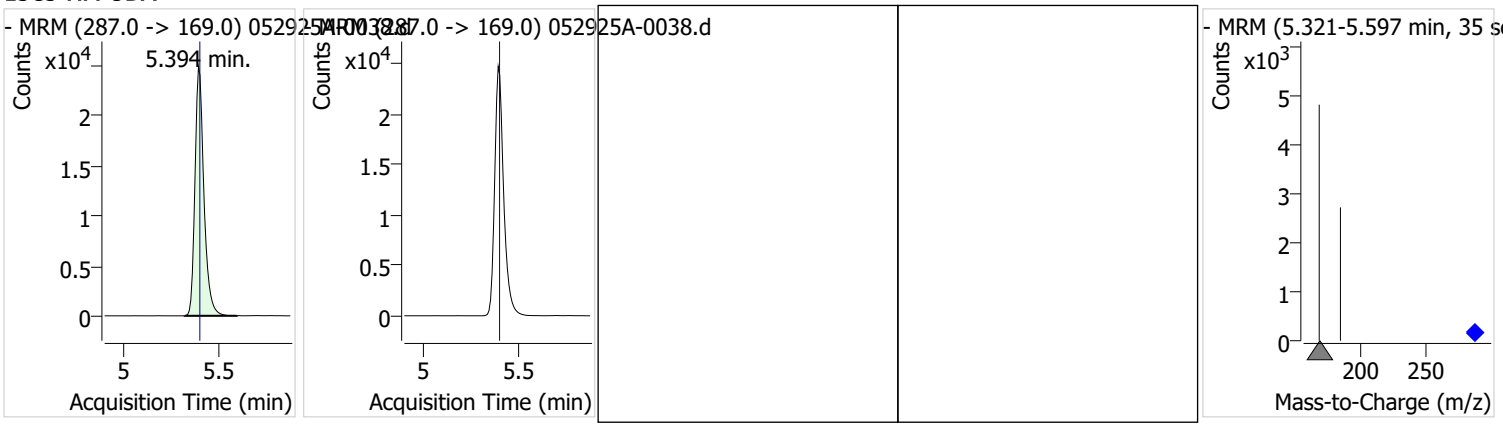
13C5-PFPeA_ISTD



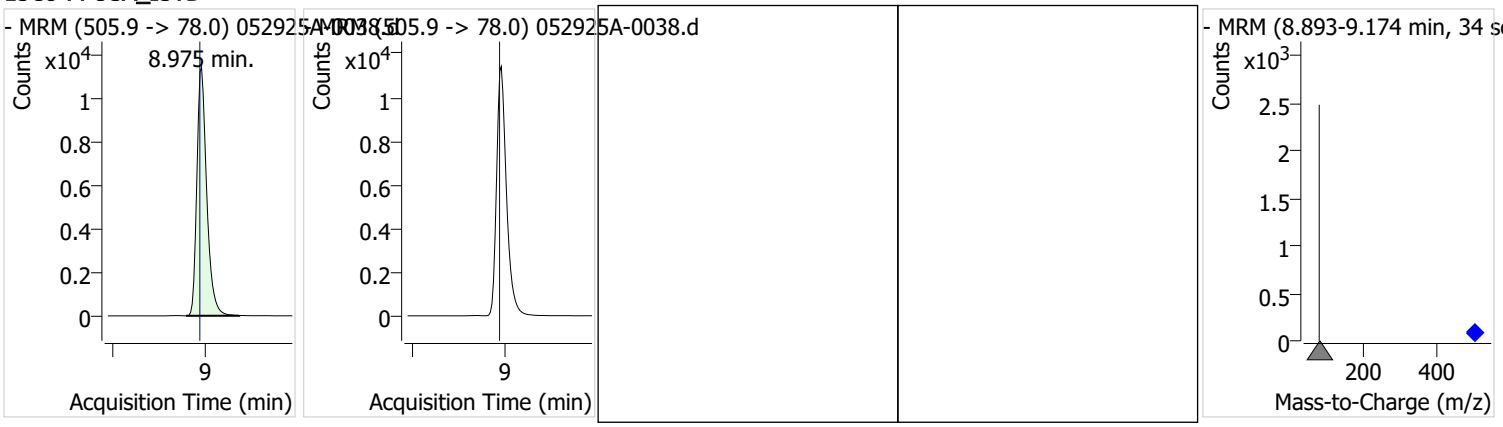
13C6-PFDA_ISTD



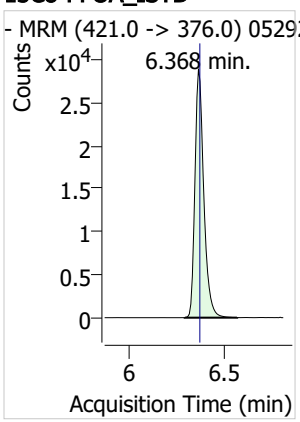
13C3-HFPODA

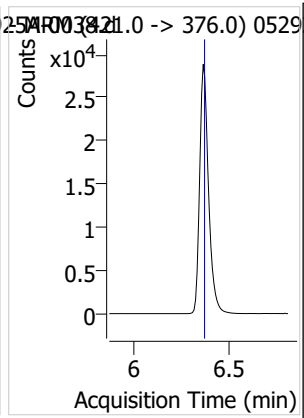


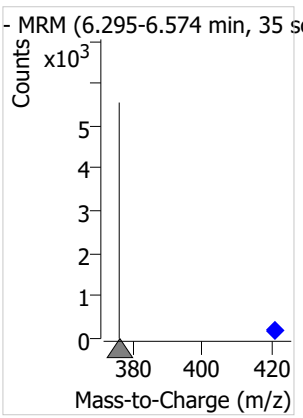
13C8-PFOSA_ISTD



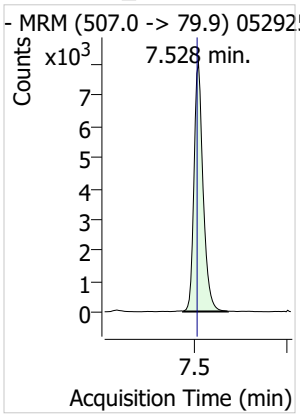
13C8-PFOA_ISTD

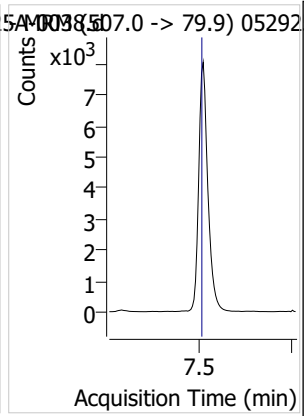


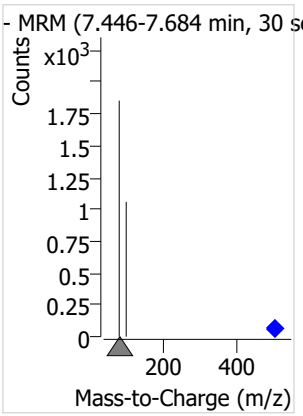




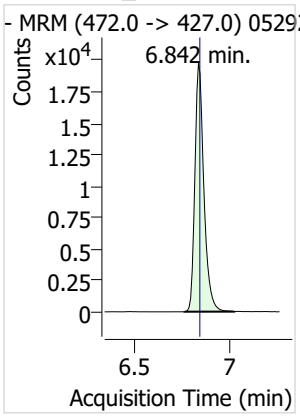
13C8-PFOS_ISTD

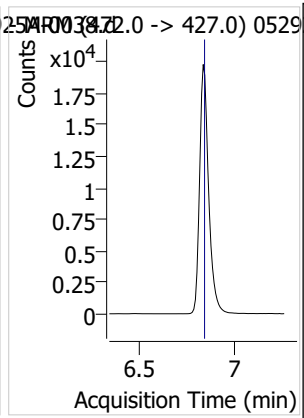


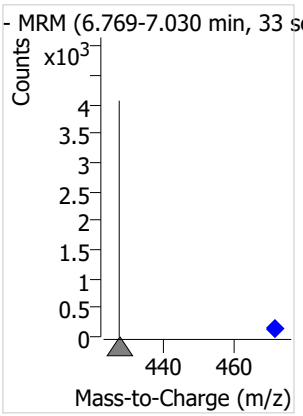




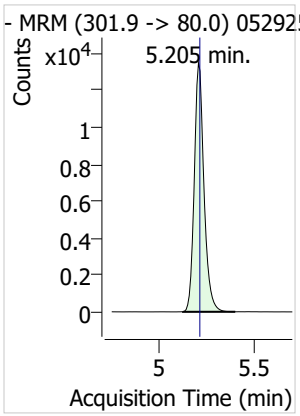
13C9-PFNA_ISTD

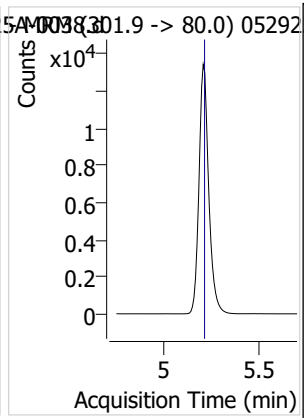


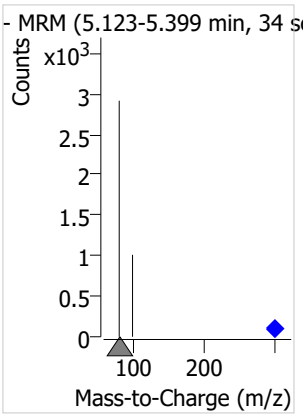




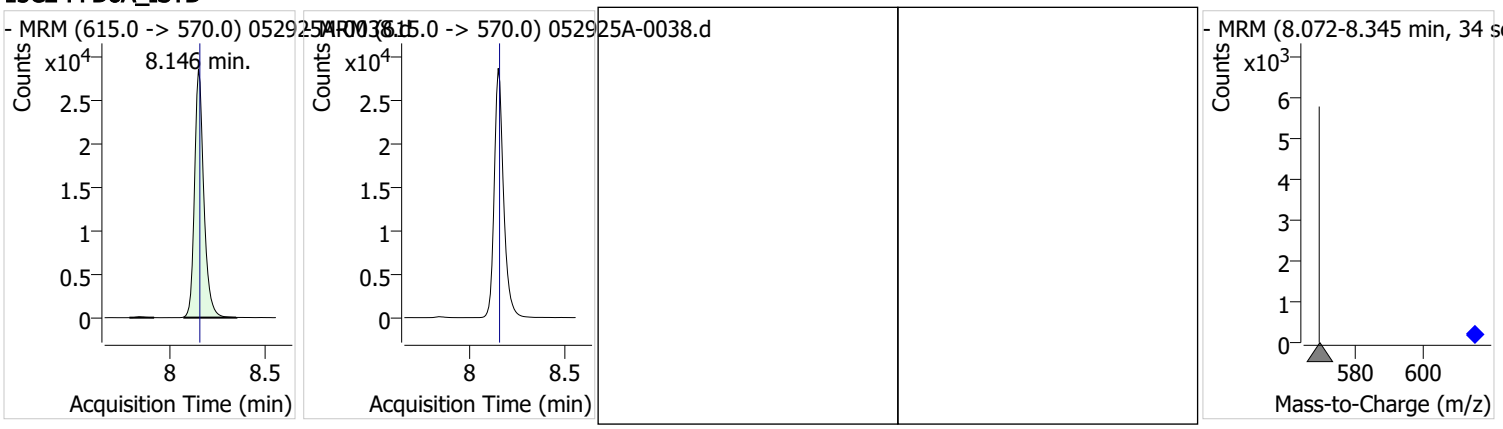
13C3-PFBS



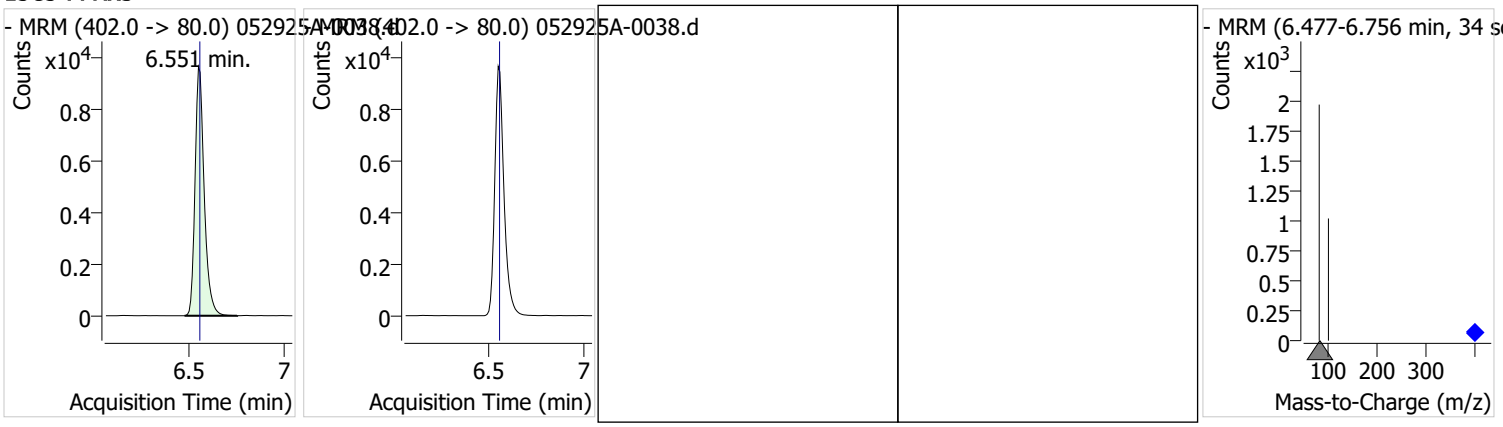




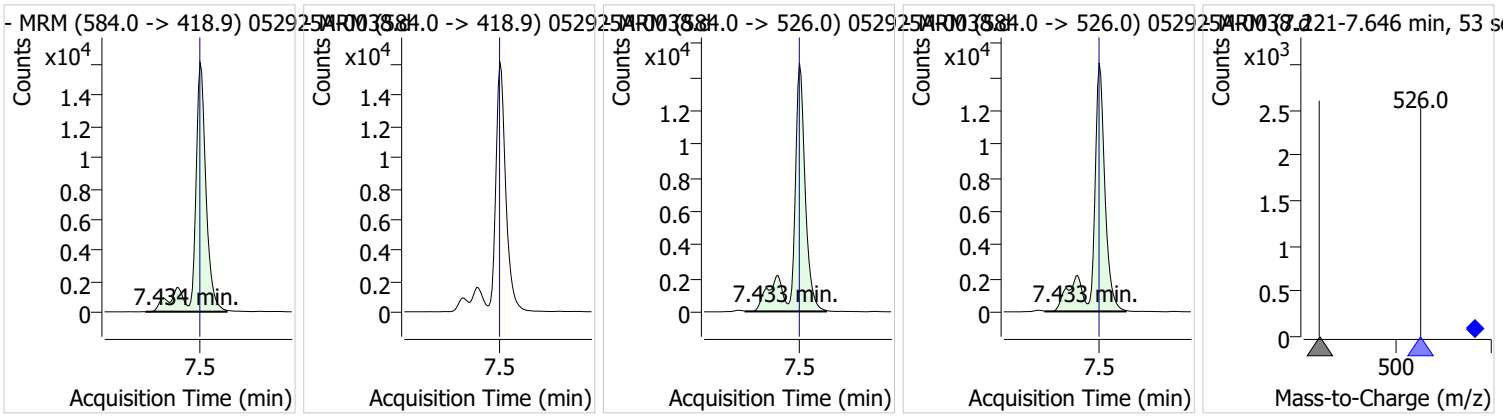
13C2-PFDoA_ISTD



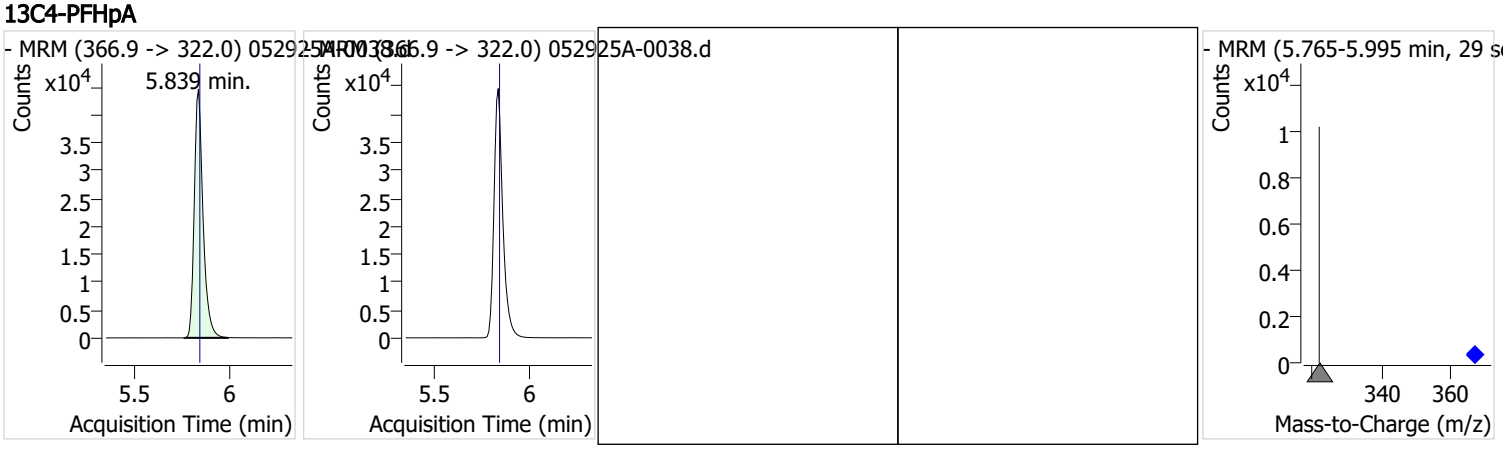
13C3-PFHxS



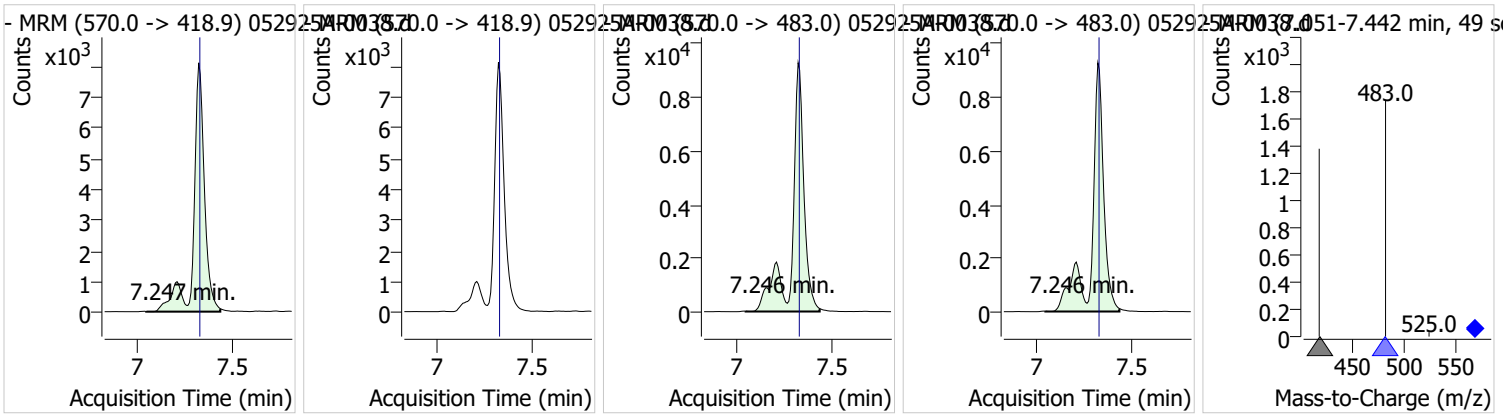
NEtFOSAA



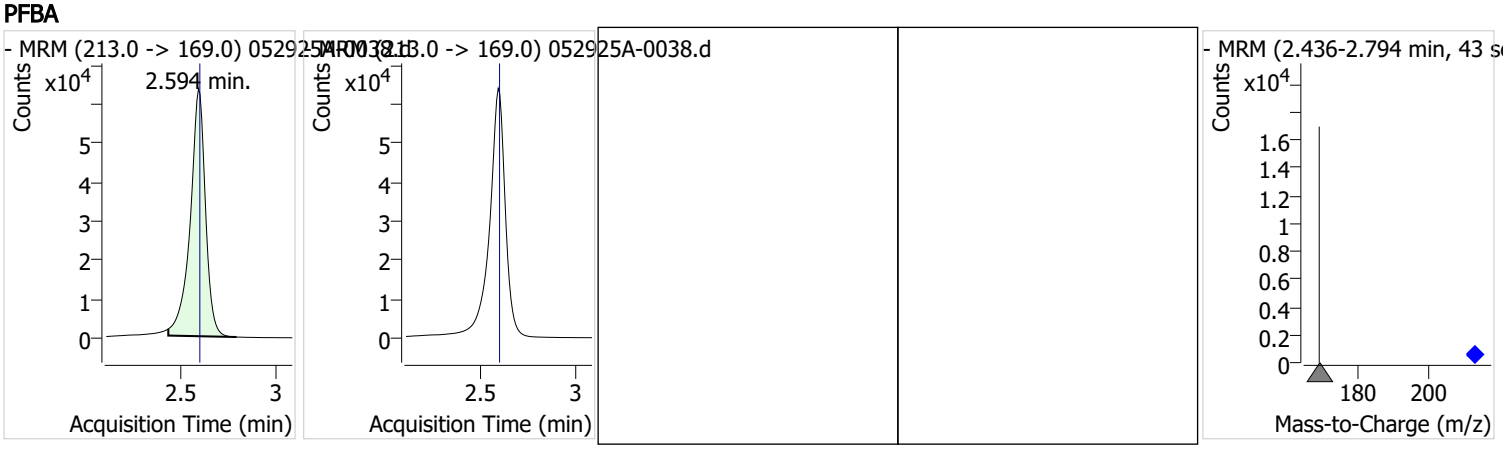
13C4-PFHpA



NMeFOSAA



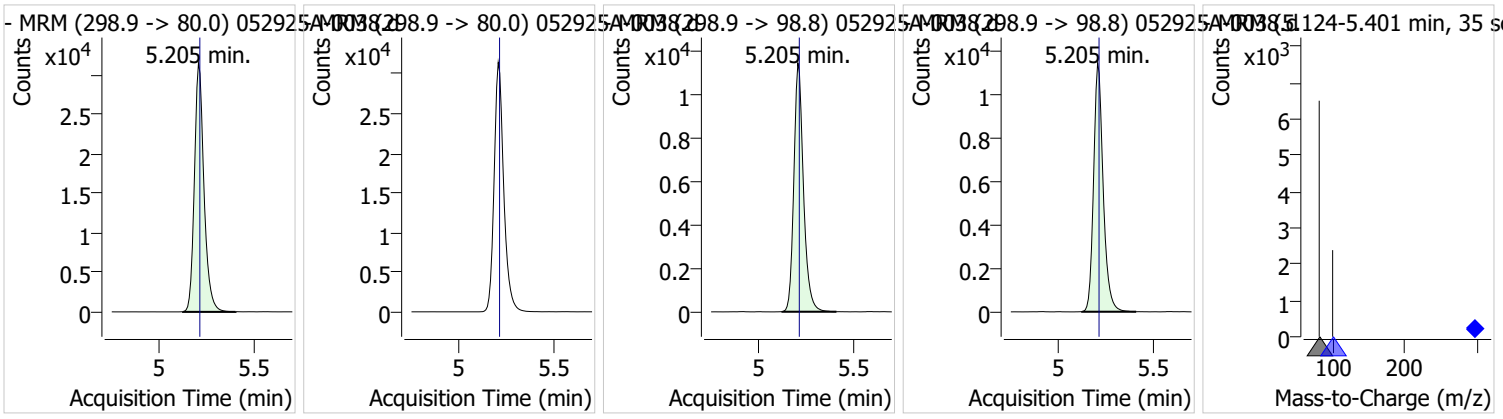
PFBA



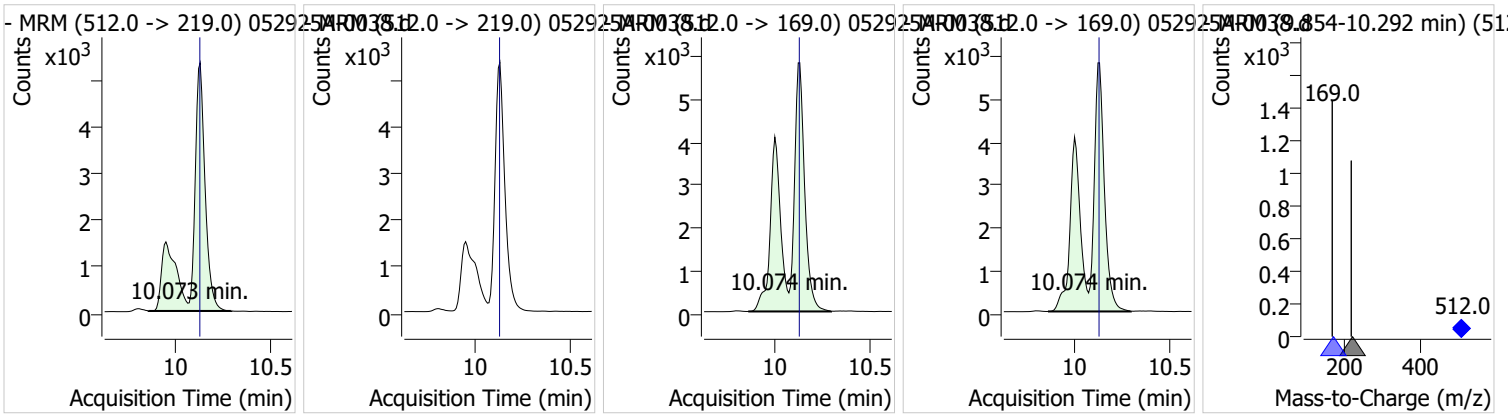
13C5-PFHxA



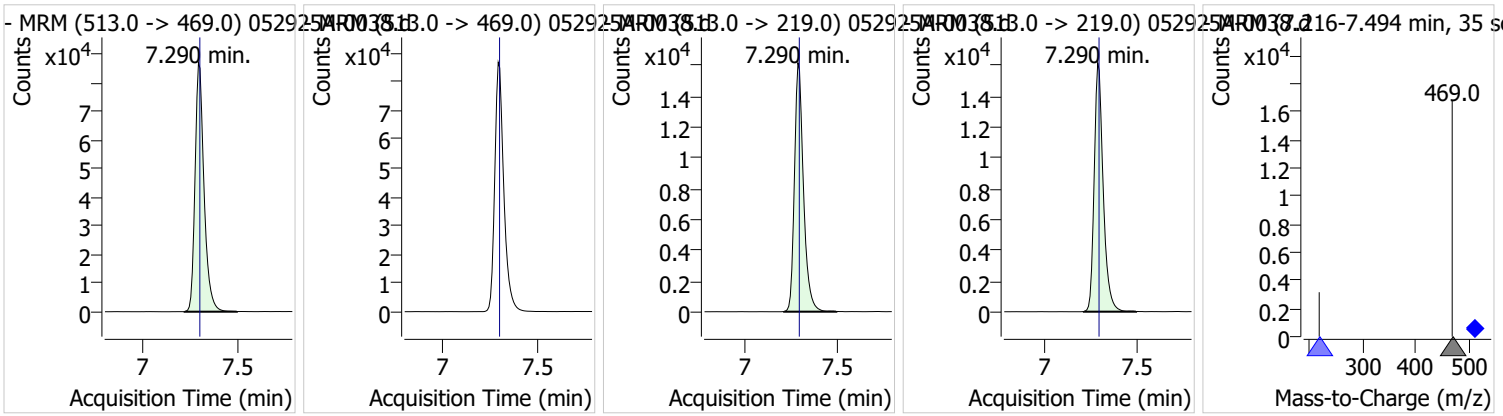
PFBS



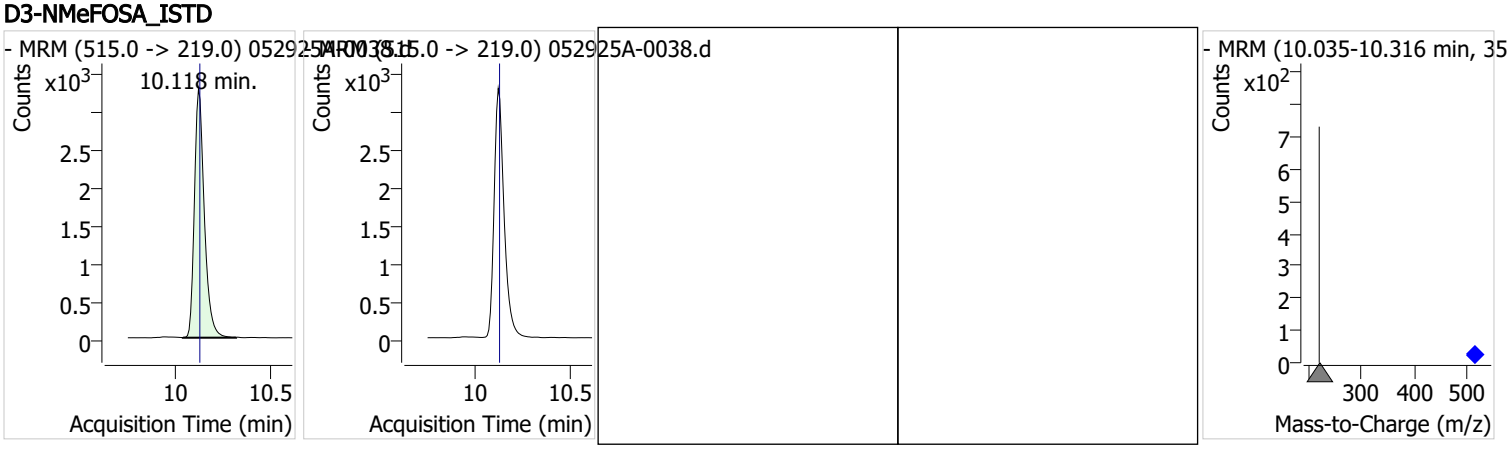
NMeFOSA



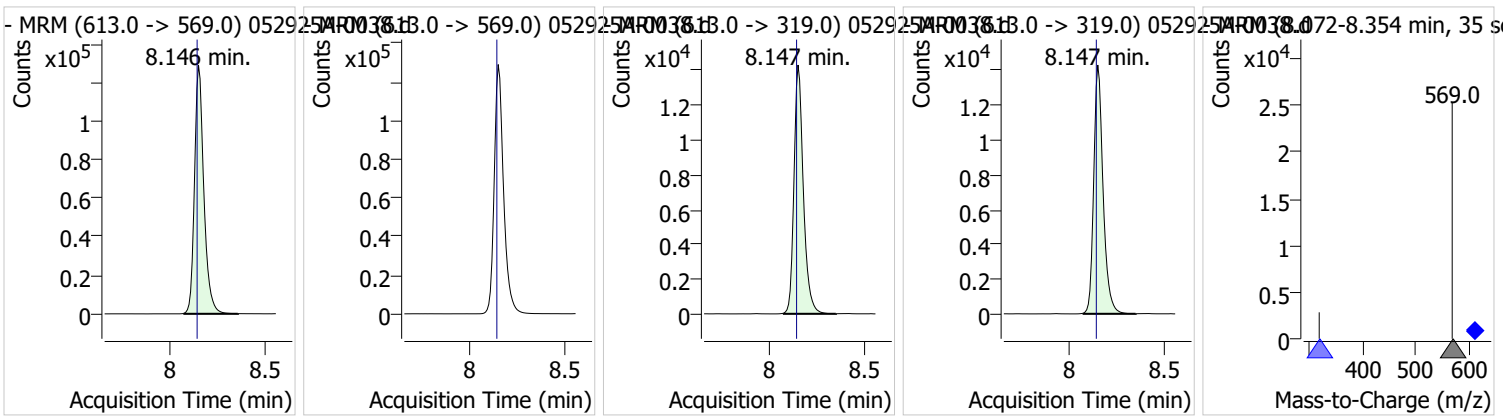
PFDA



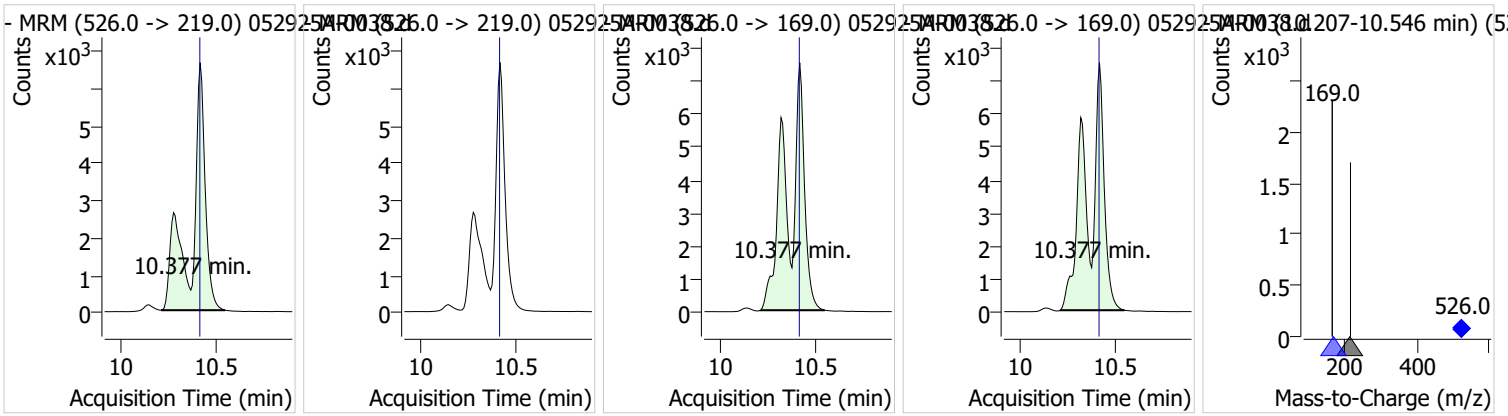
D3-NMeFOSA_ISTD



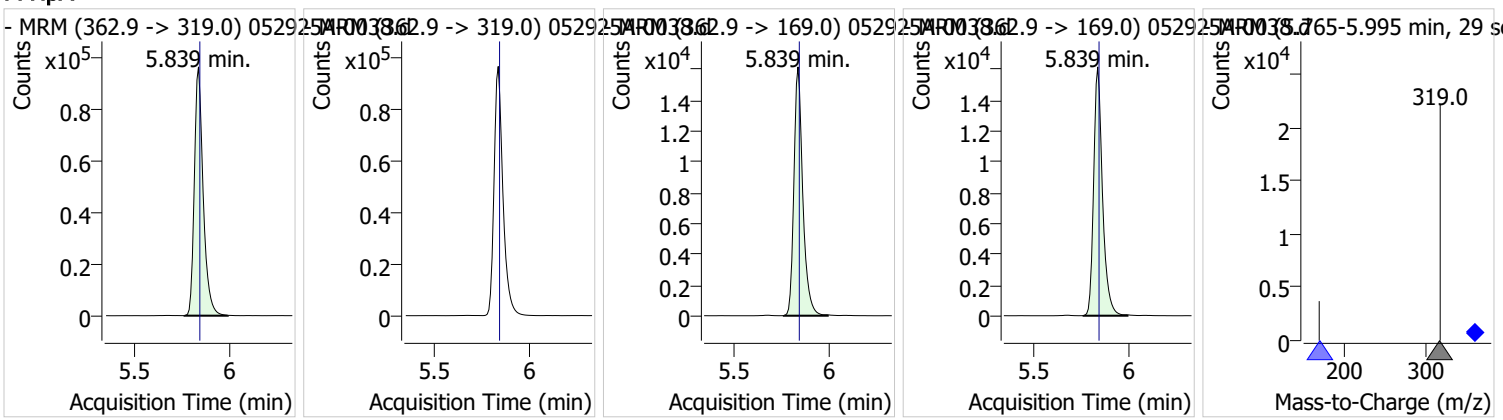
PFDoA



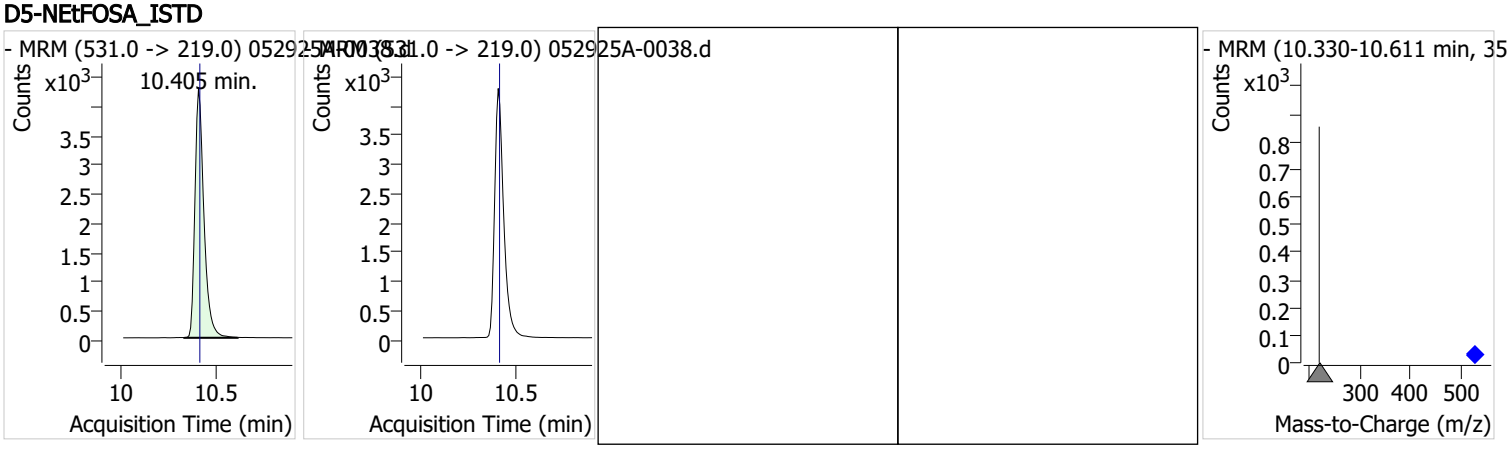
NEtFOSA



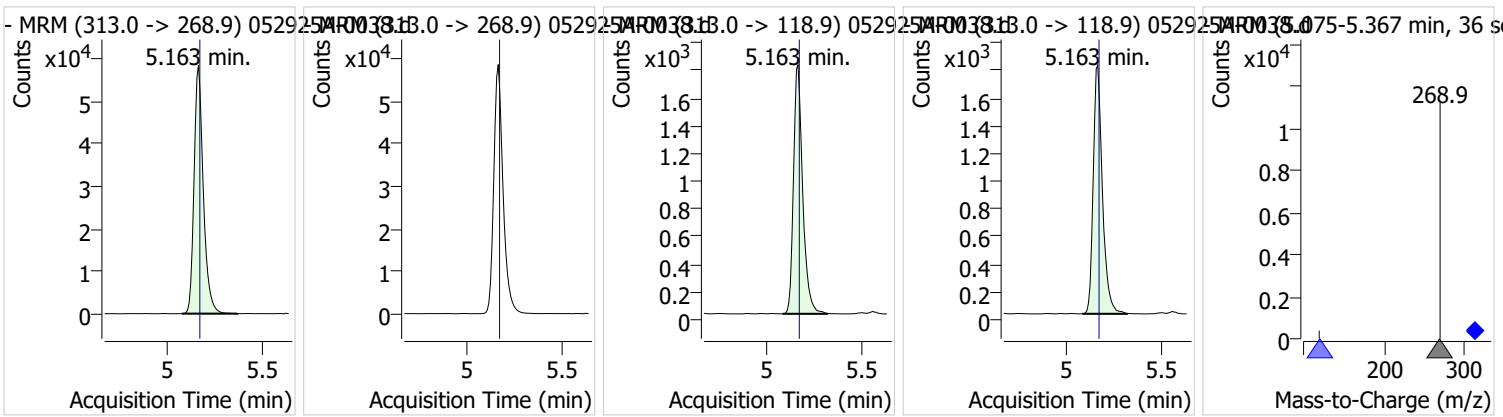
PFHpA



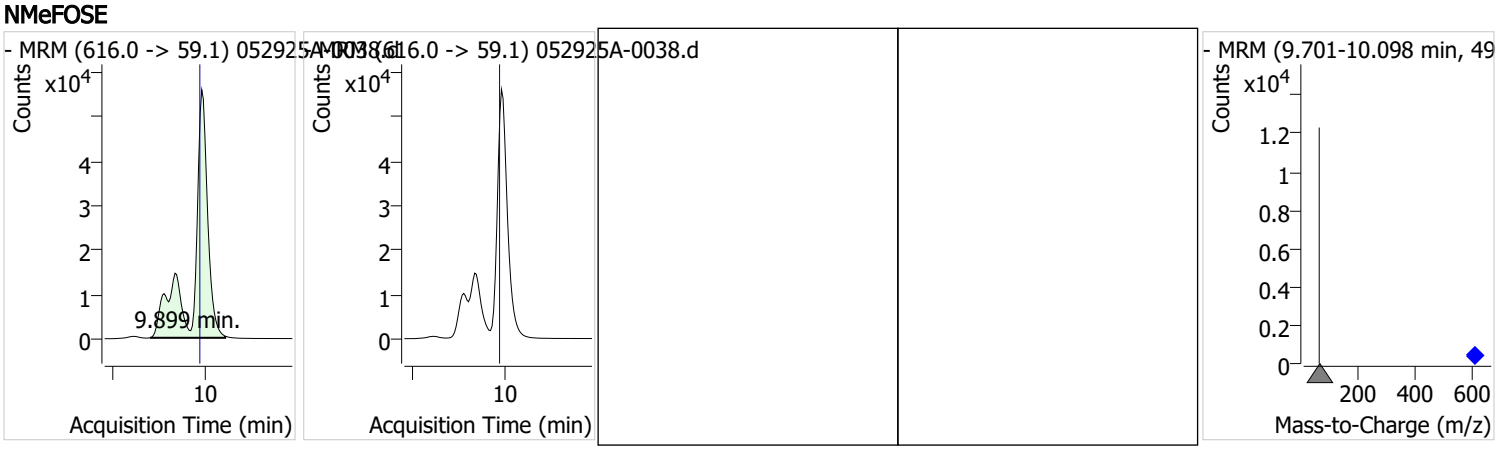
D5-NEtFOSA_ISTD



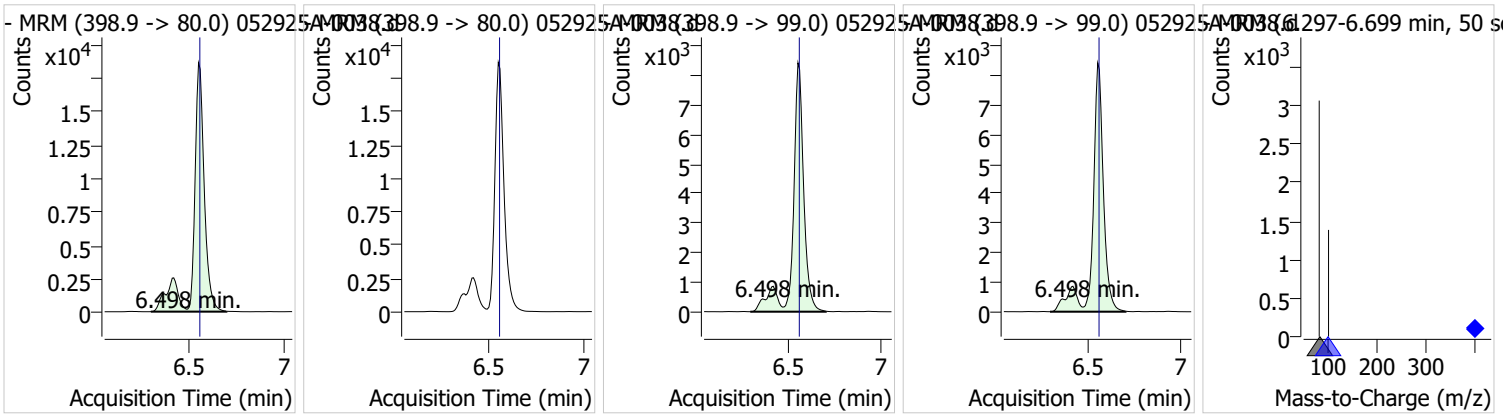
PFHxA



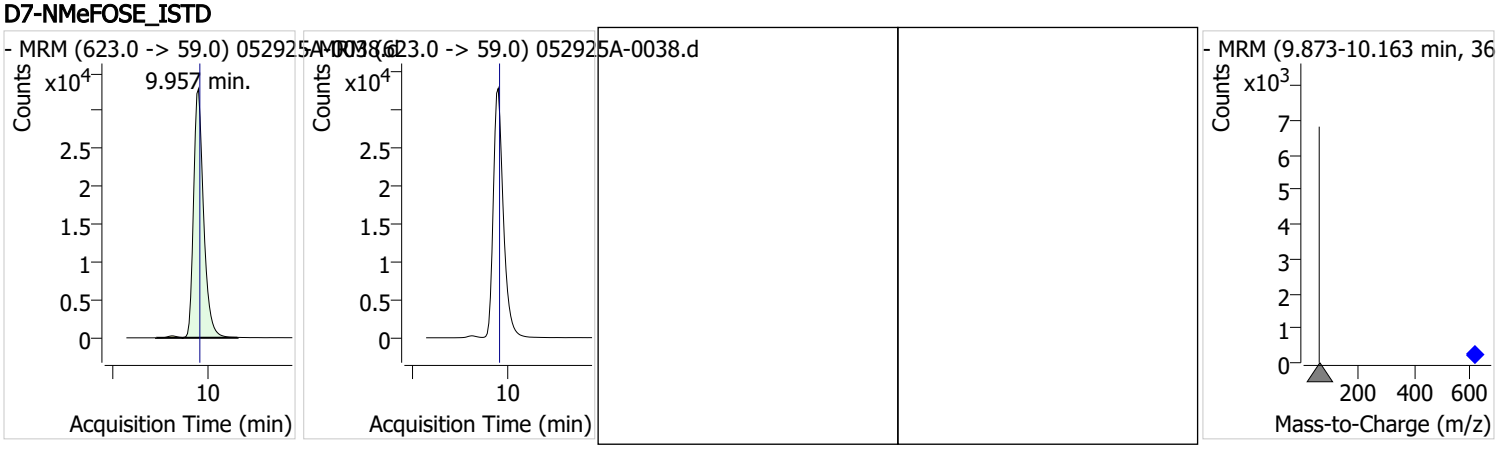
NMeFOSE



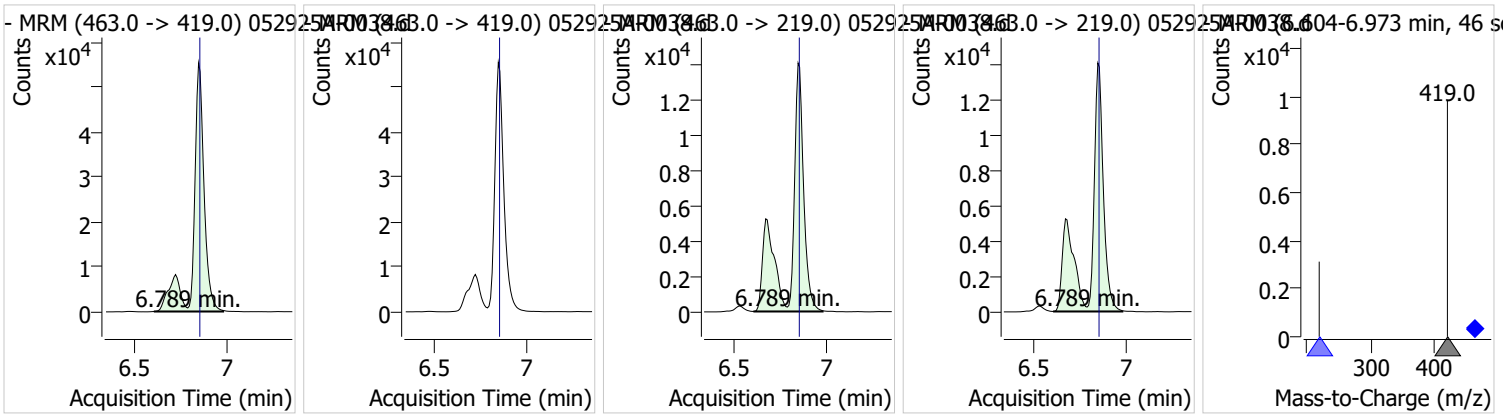
PFHxS



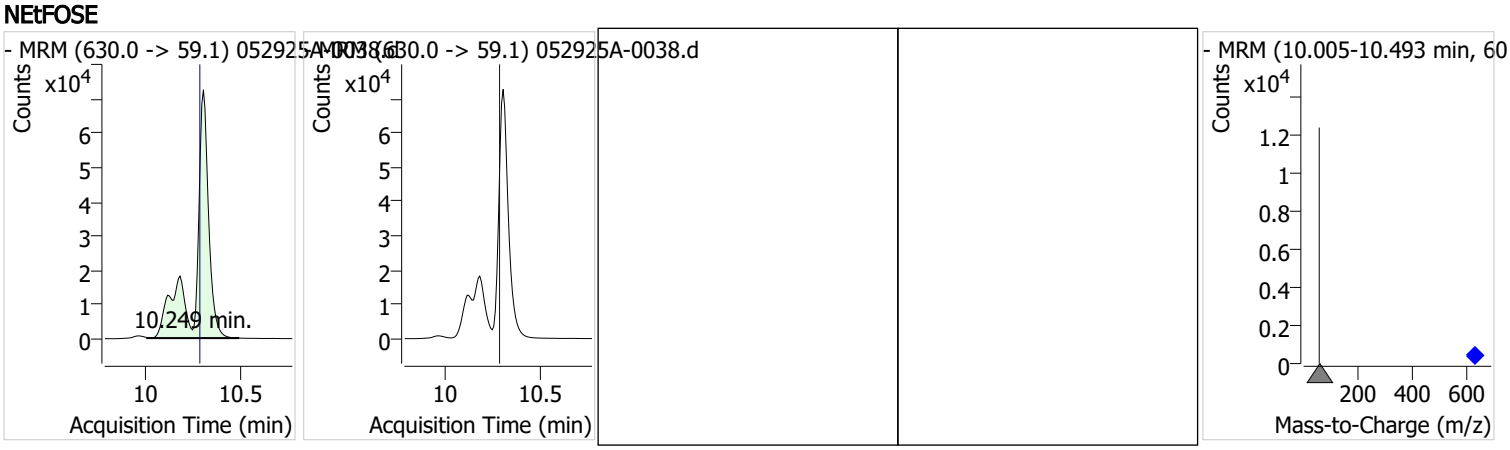
D7-NMeFOSE_ISTD



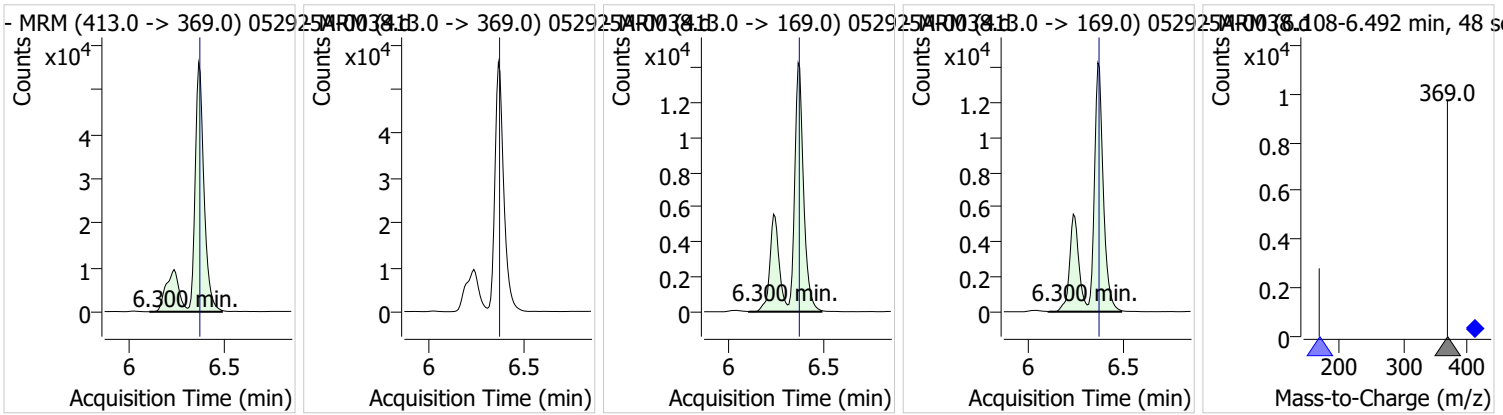
PFNA



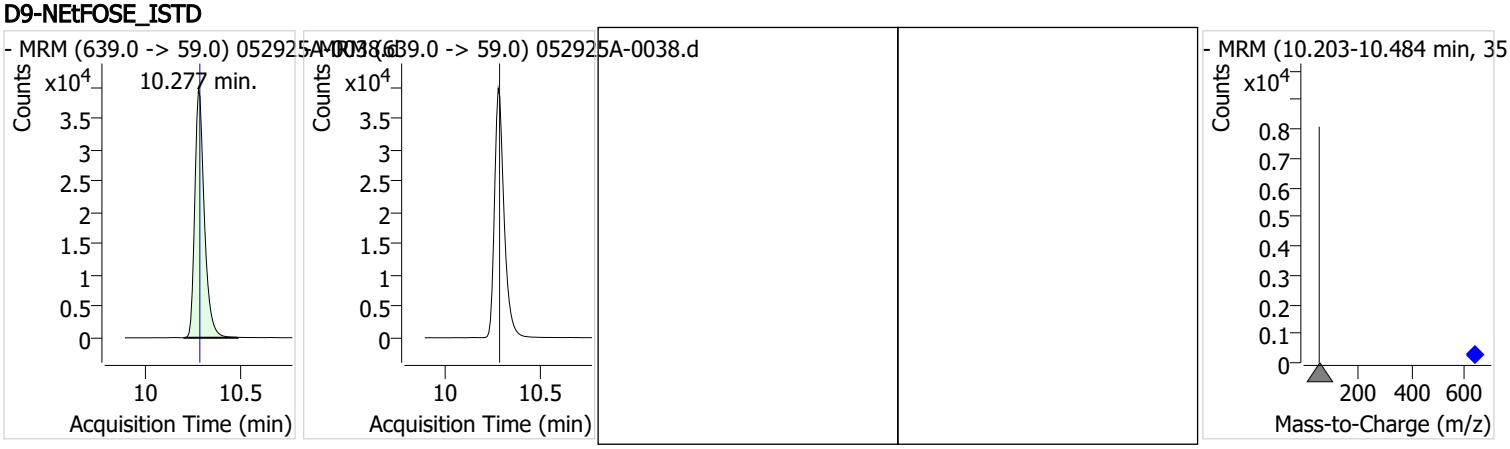
NEtFOSE



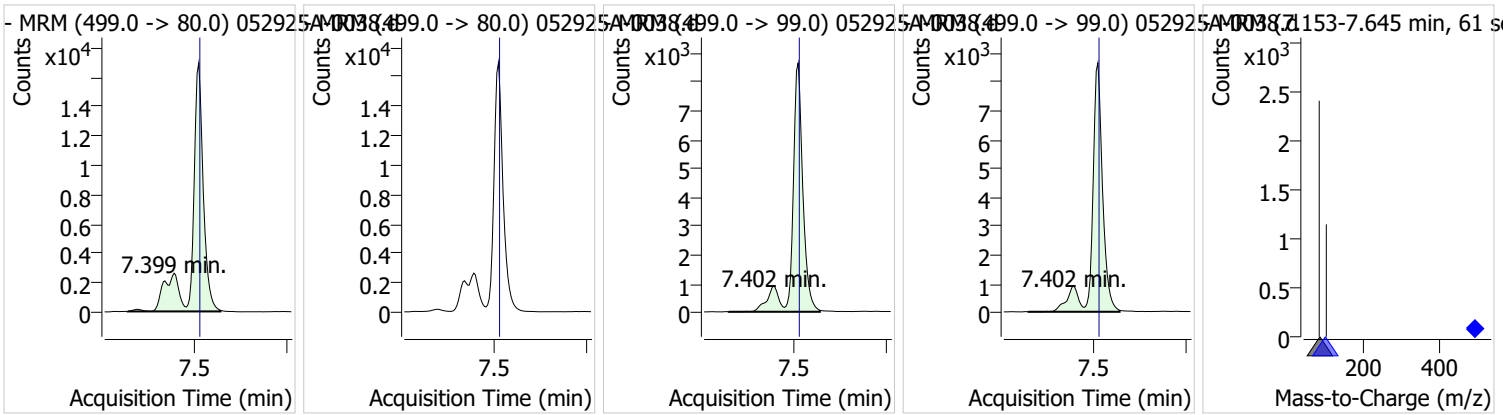
PFOA



D9-NEtFOSE_ISTD



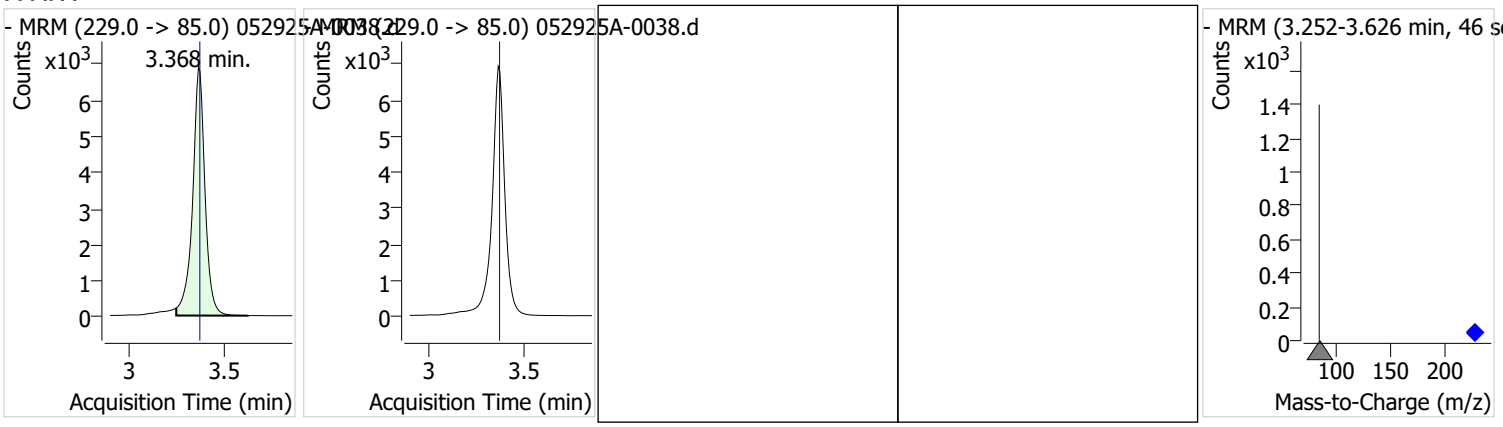
PFOS



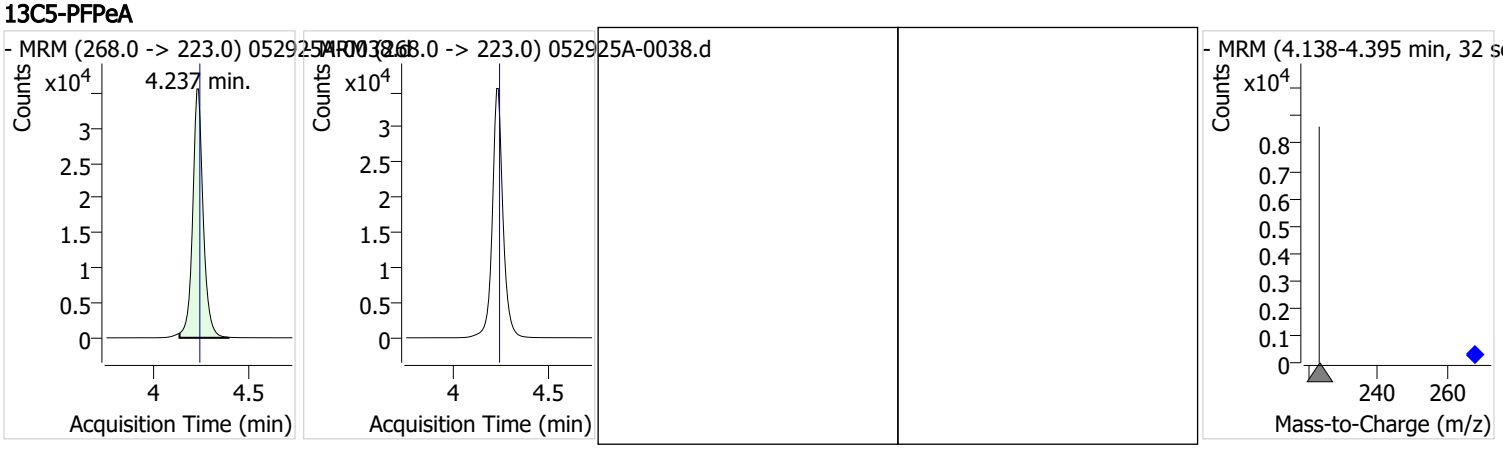
PFPeA



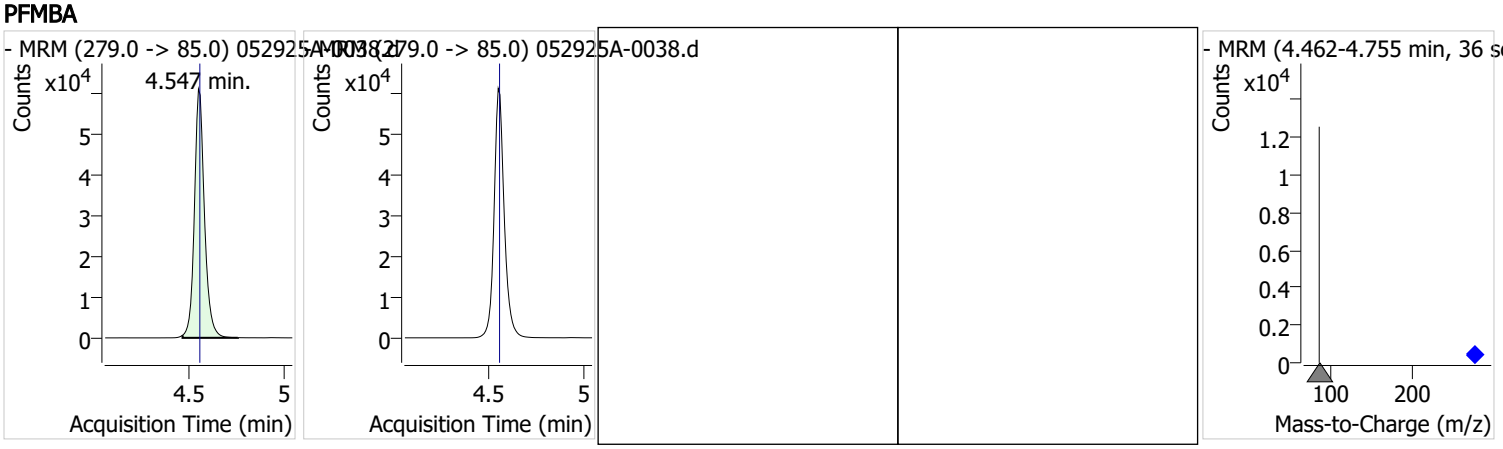
PFMPA



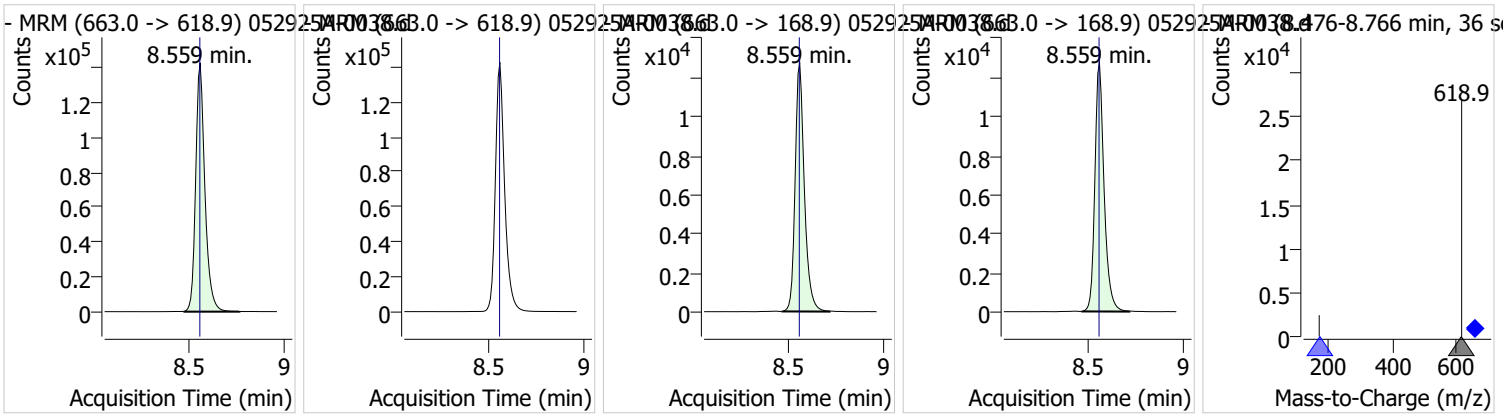
13C5-PFPeA



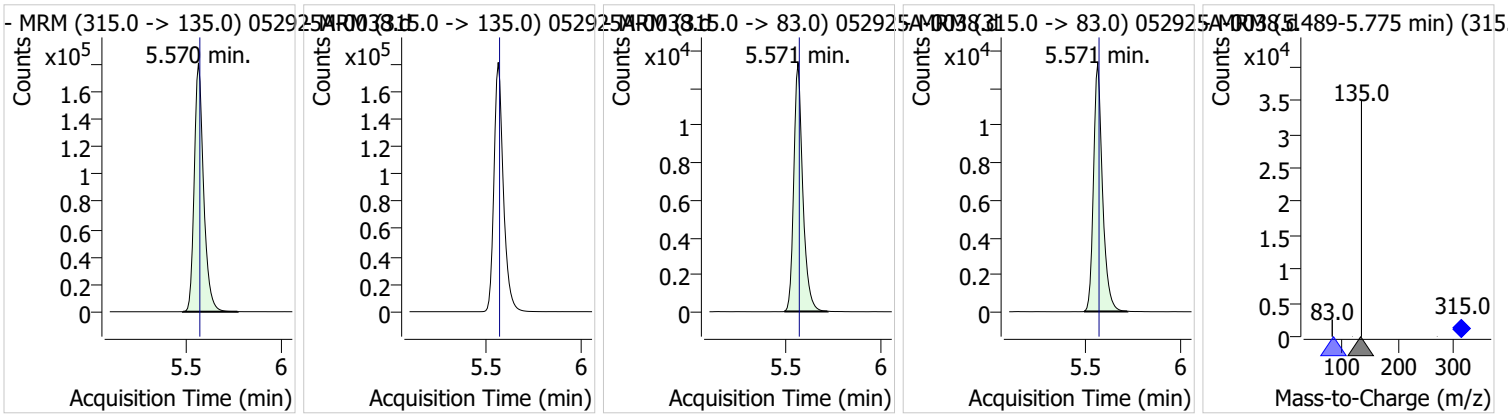
PFMBA



PFTrDA



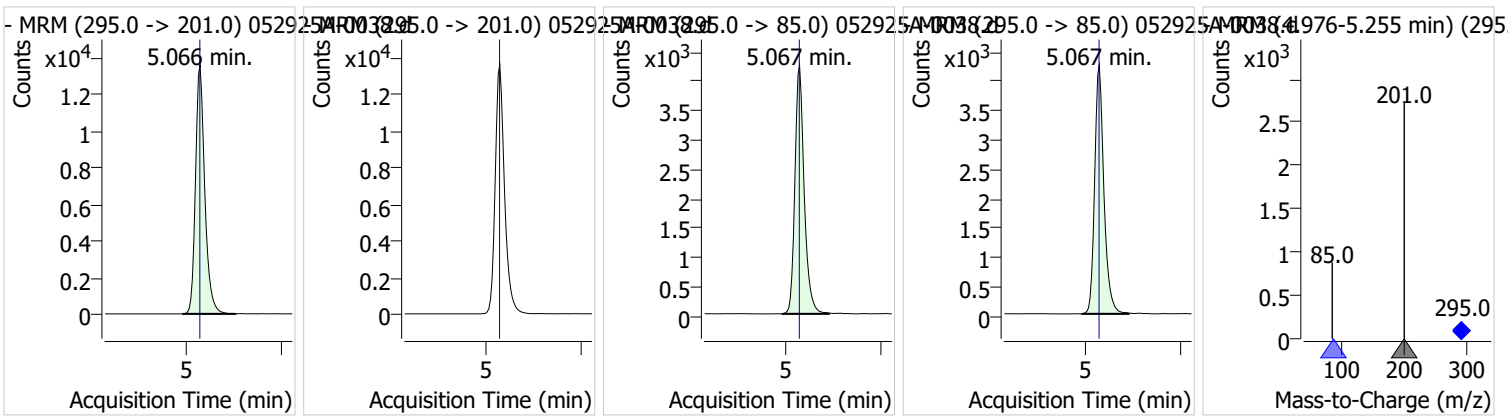
PFEESA



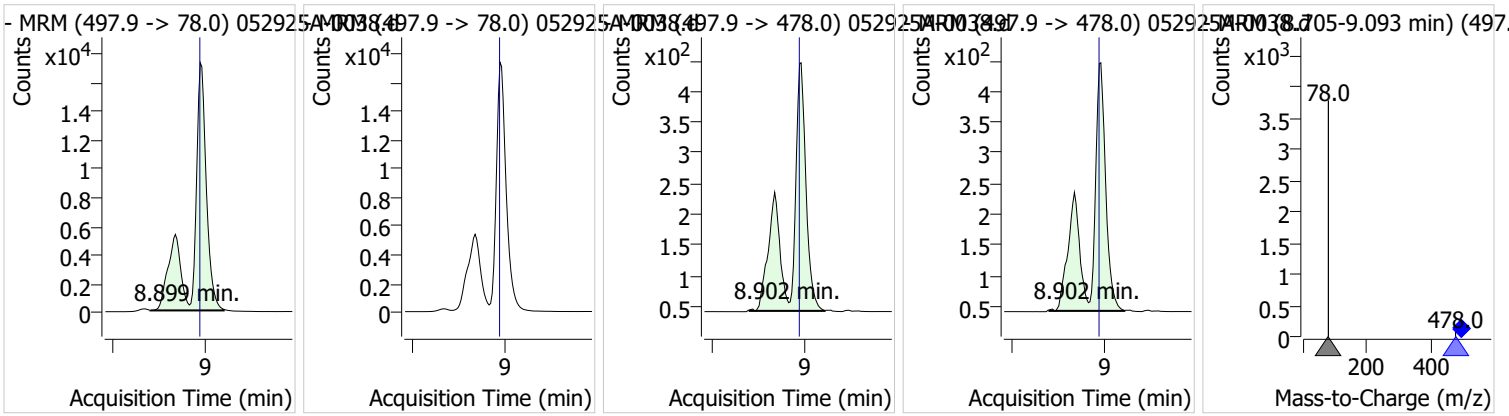
13C6-PFDA



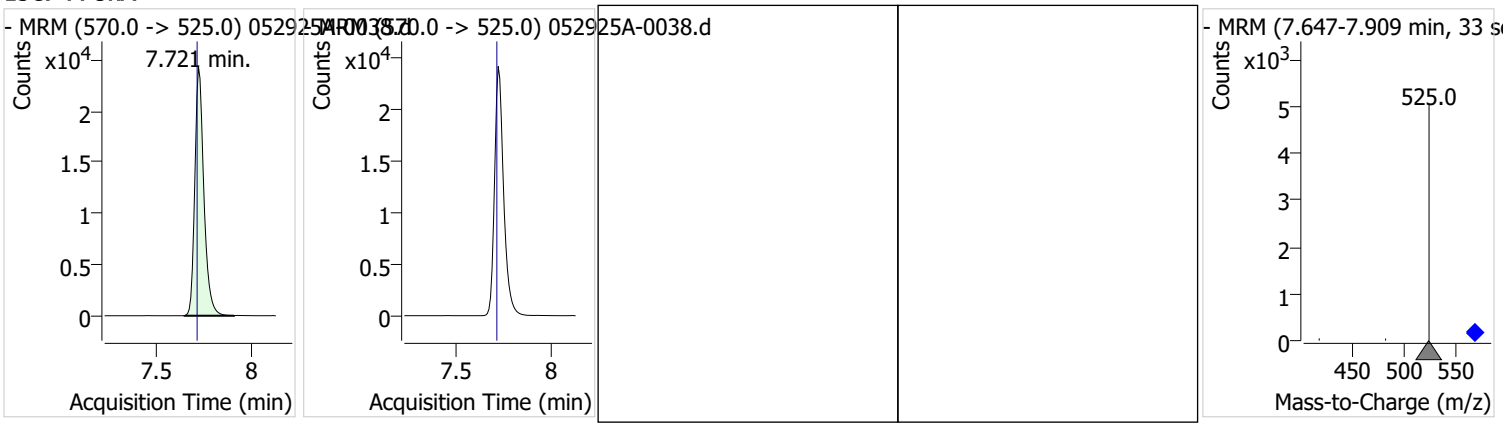
NFDHA



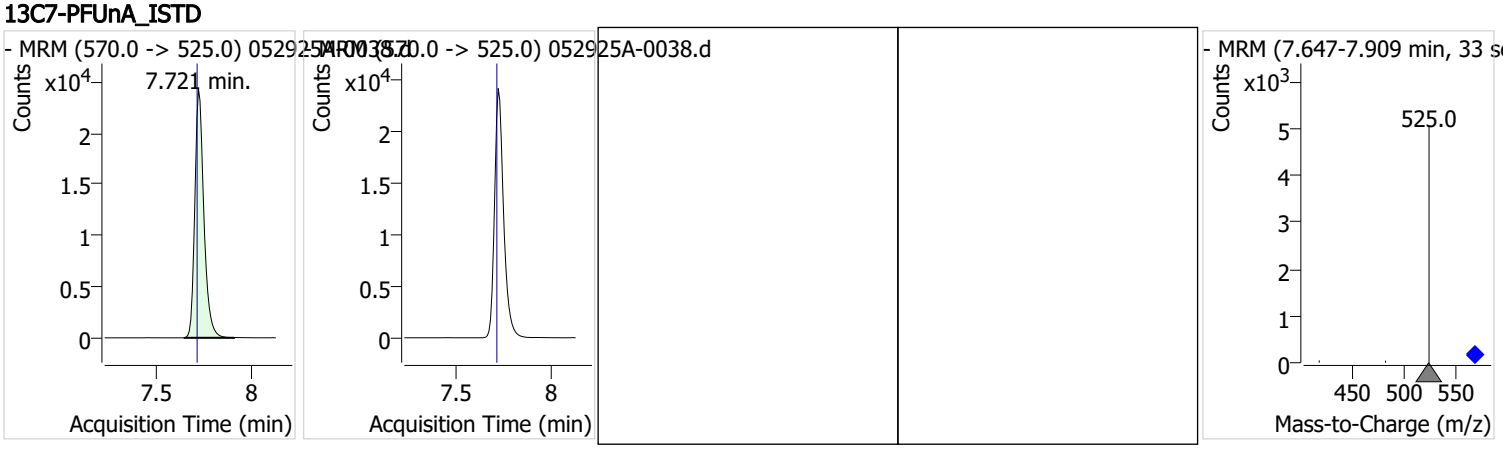
PFOSA



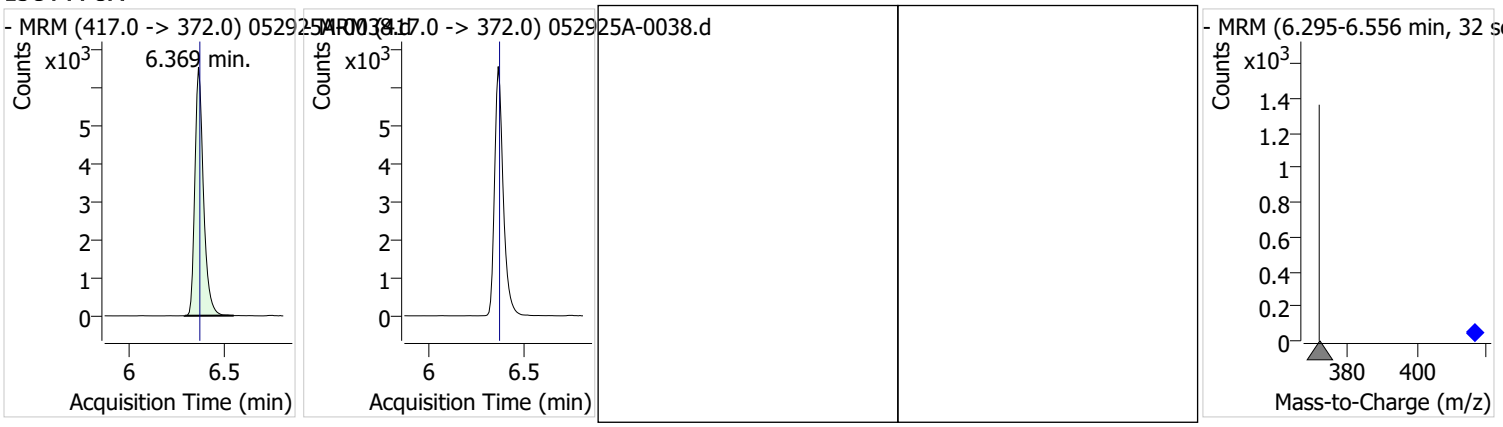
13C7-PFUnA



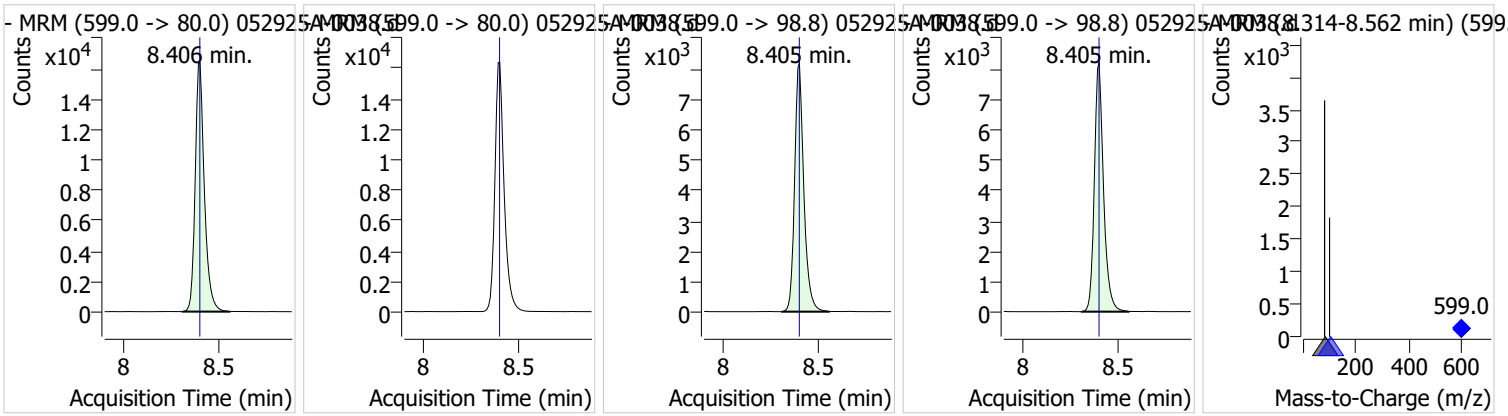
13C7-PFUnA_ISTD



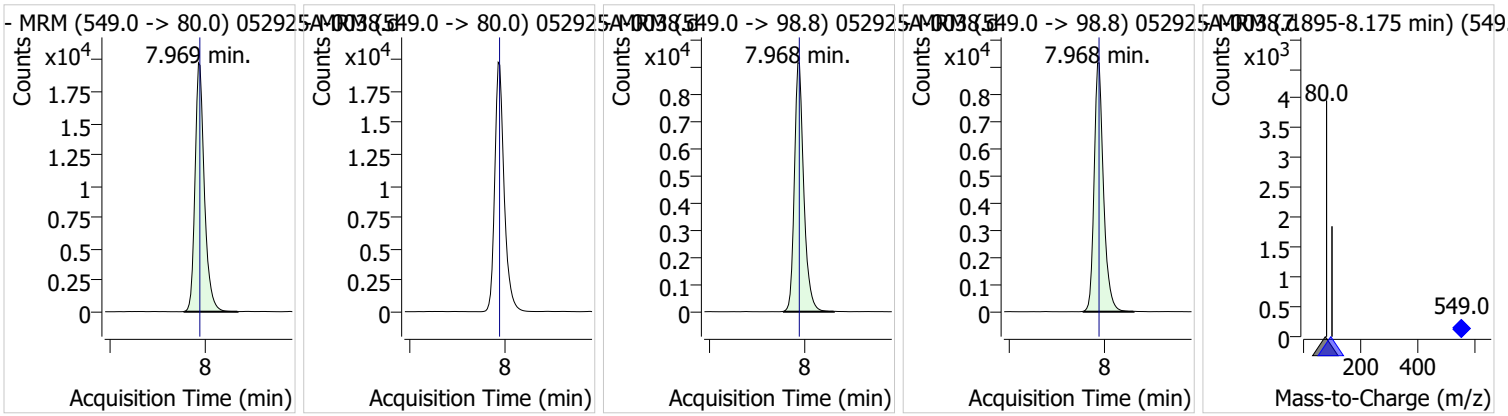
13C4-PFOA



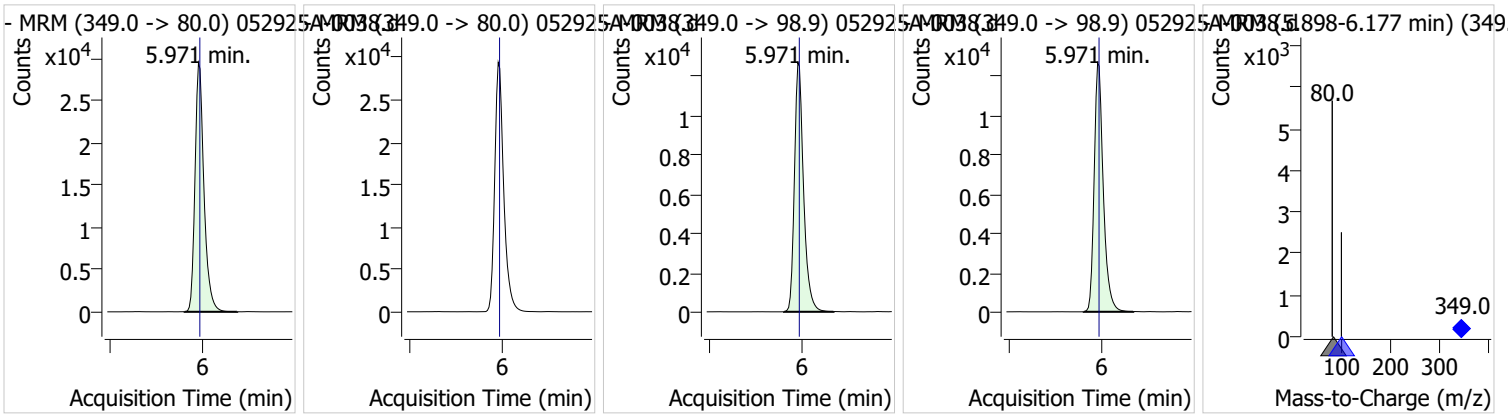
PFDS



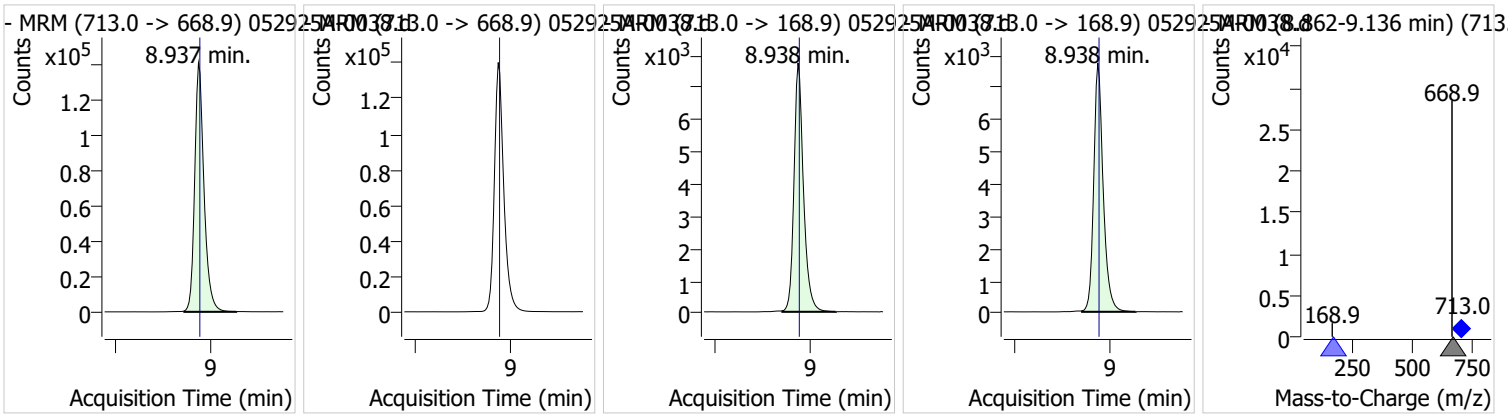
PFNS



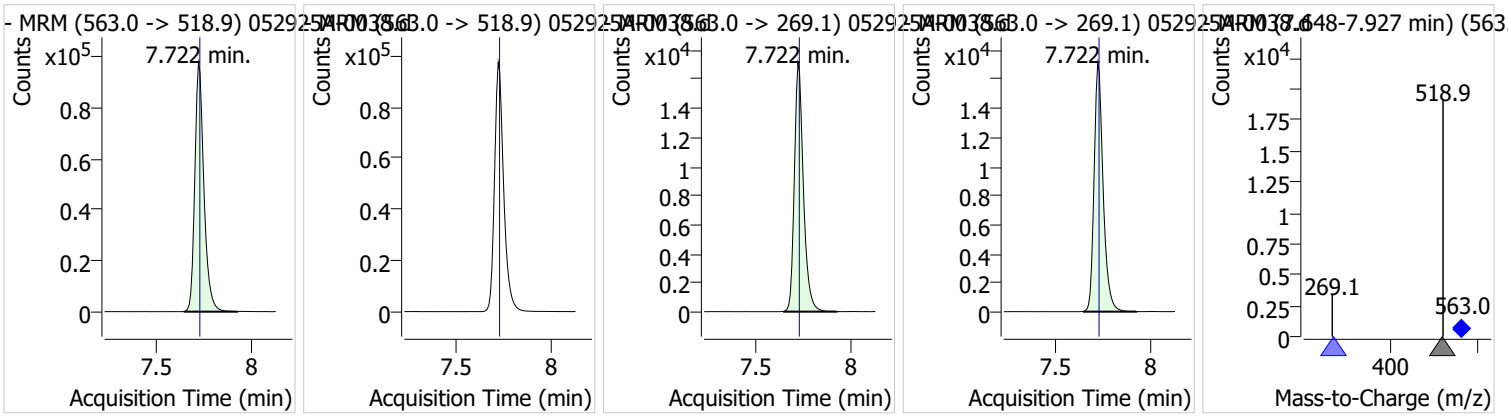
PFPeS



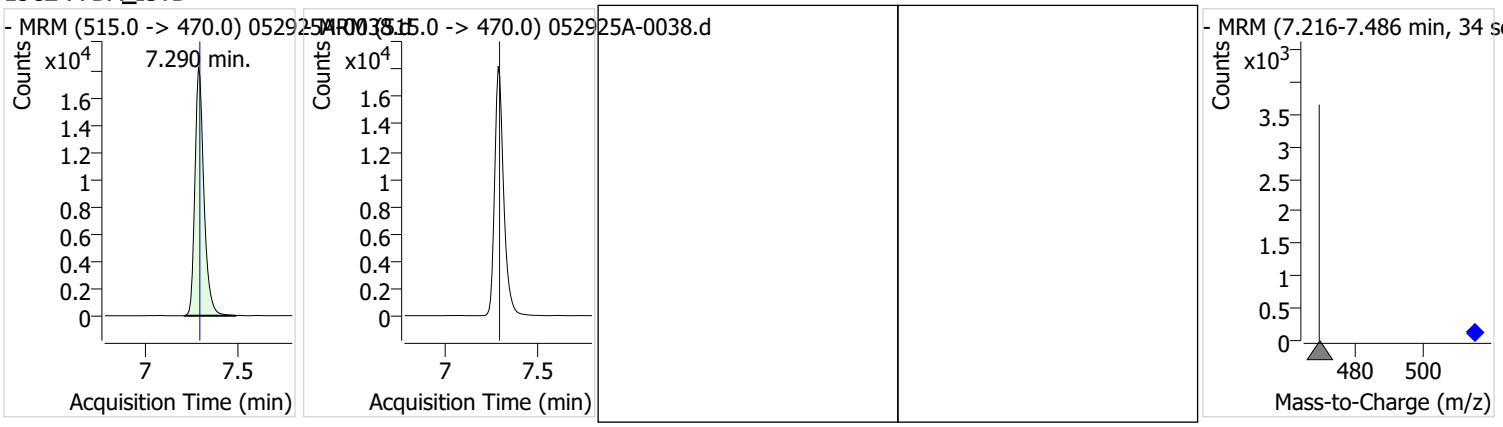
PFTeDA



PFUnA



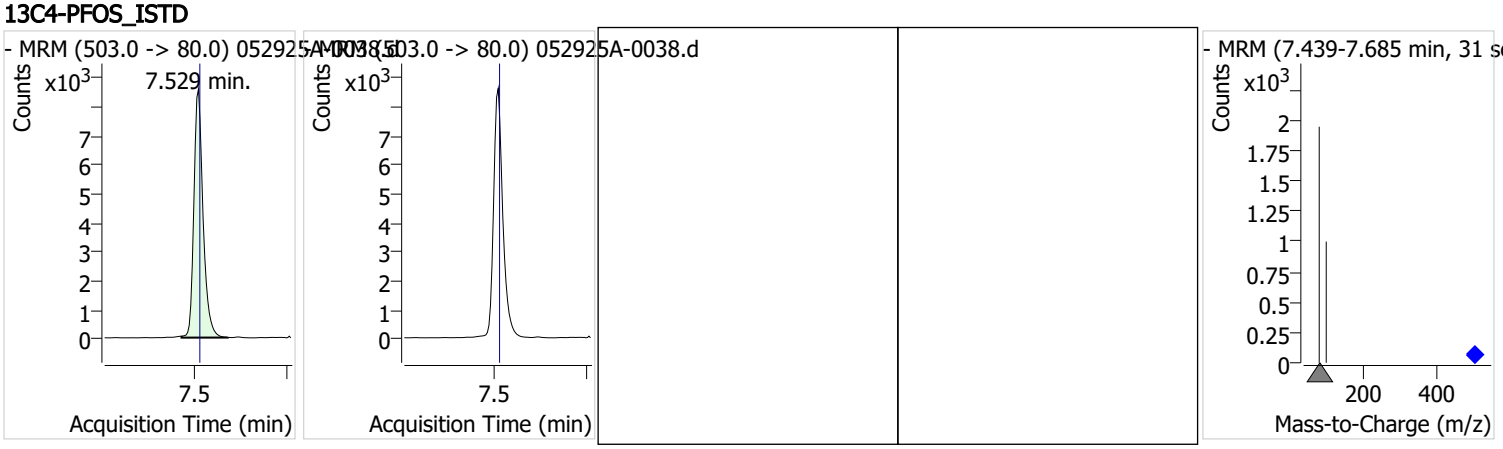
13C2-PFDA_ISTD



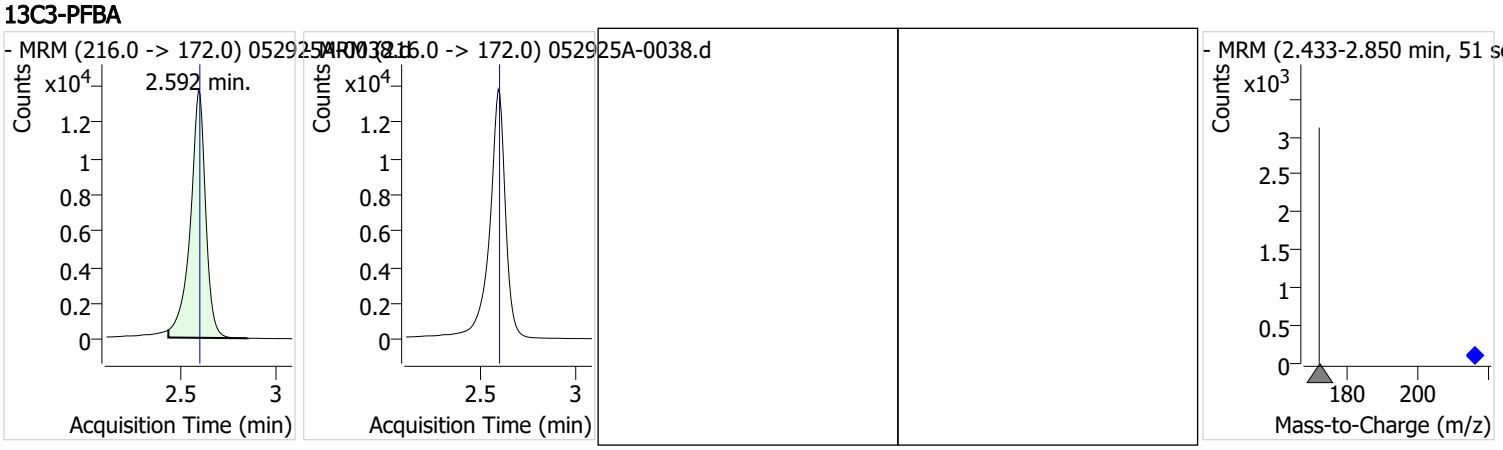
13C2-PFHxA_ISTD



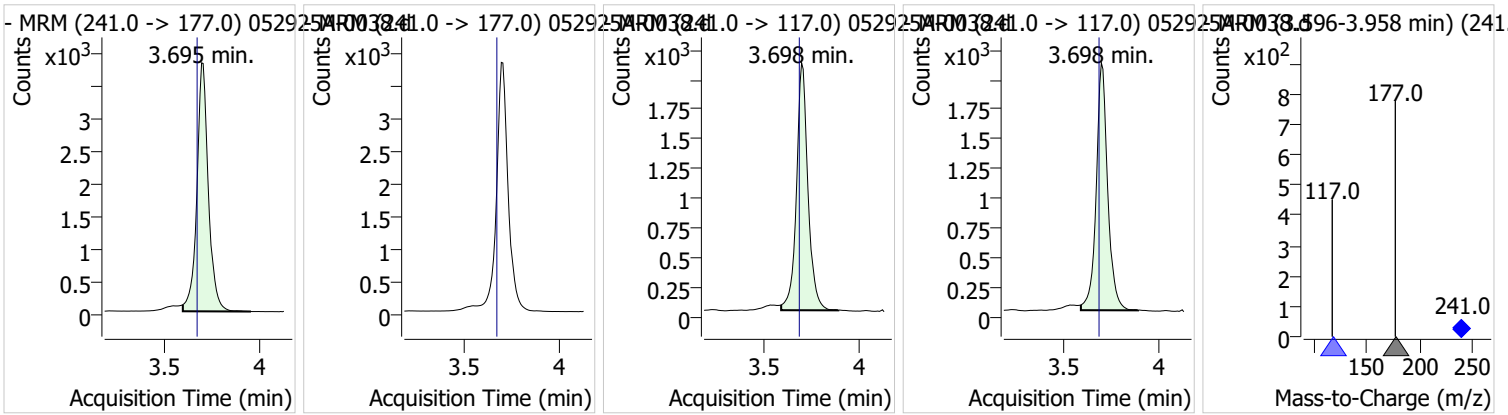
13C4-PFOS_ISTD



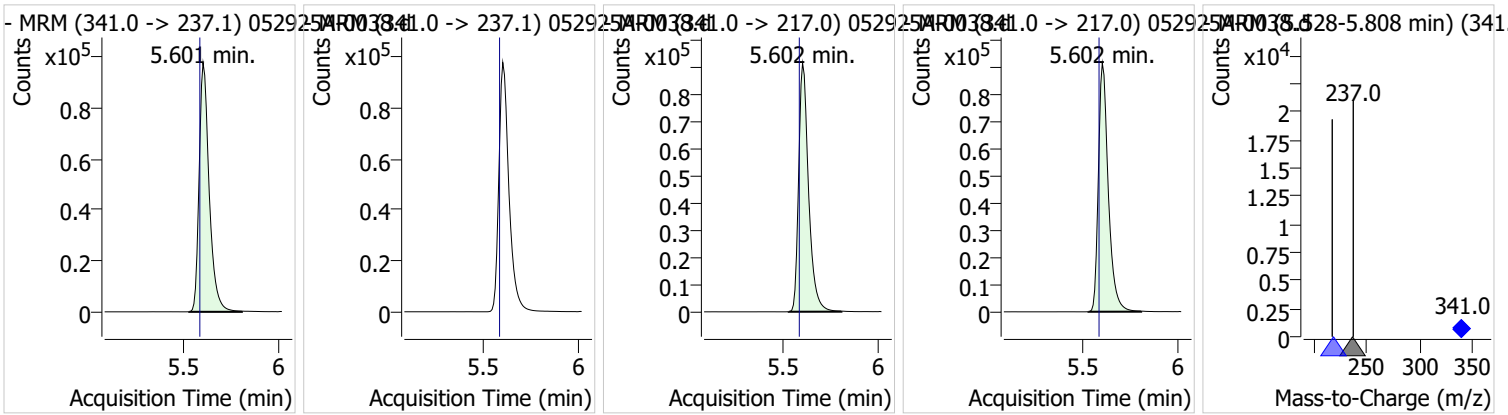
13C3-PFBA



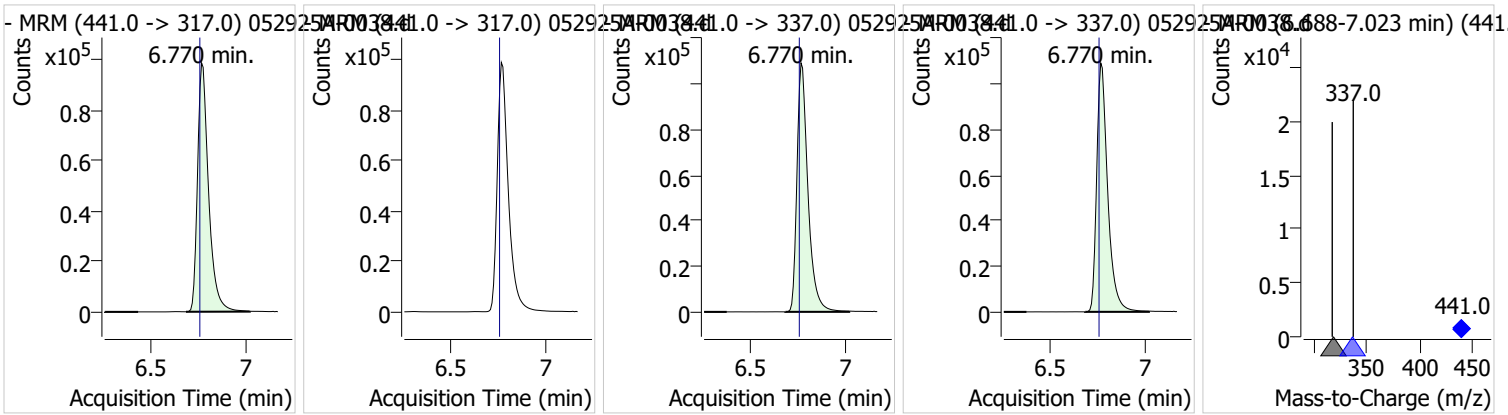
3:3FTCA



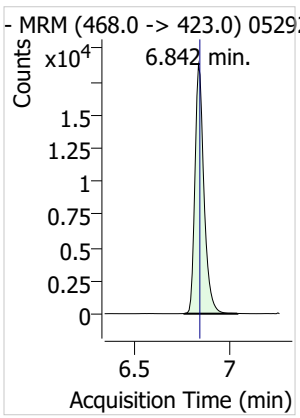
5:3FTCA

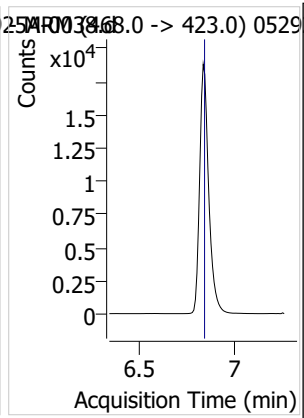


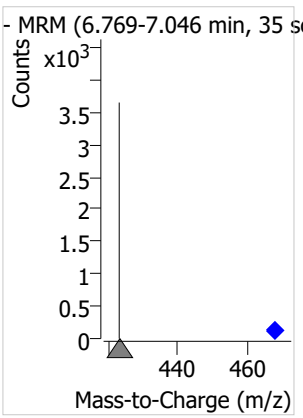
7:3FTCA



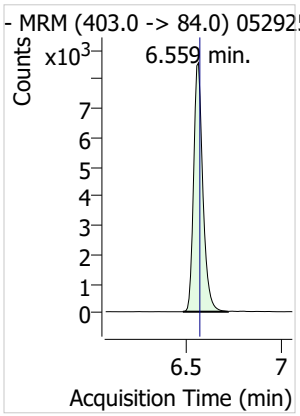
13C5-PFNA

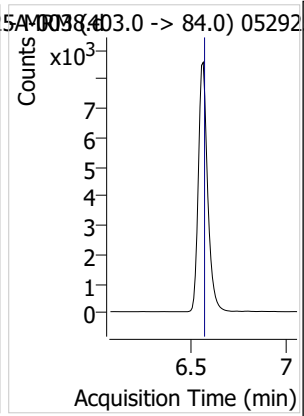


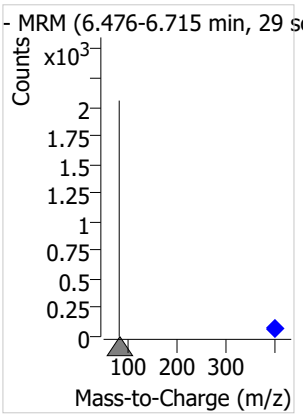




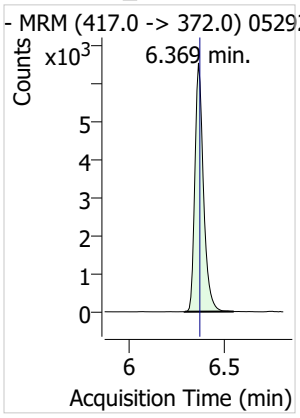
18O2-PFHxS

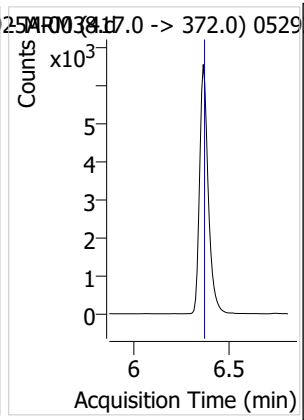


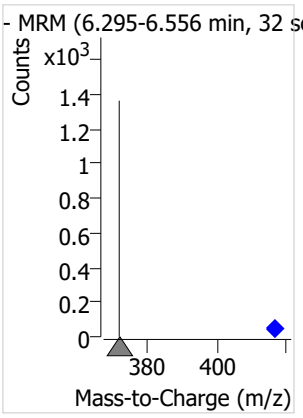




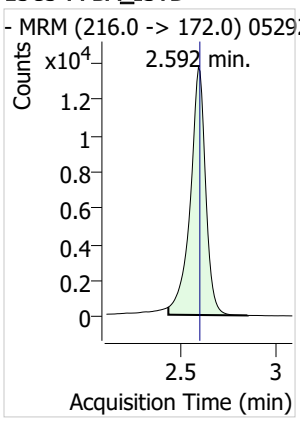
13C4-PFOA_ISTD

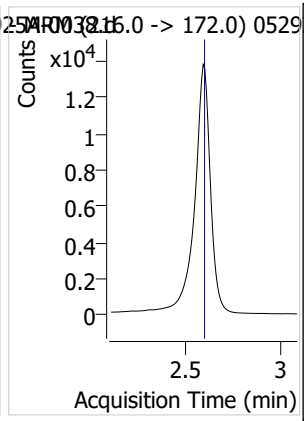


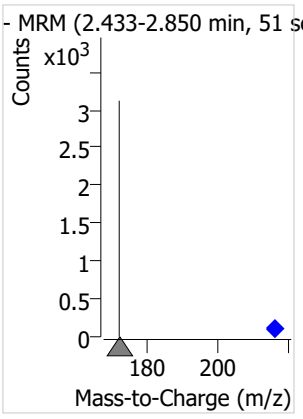




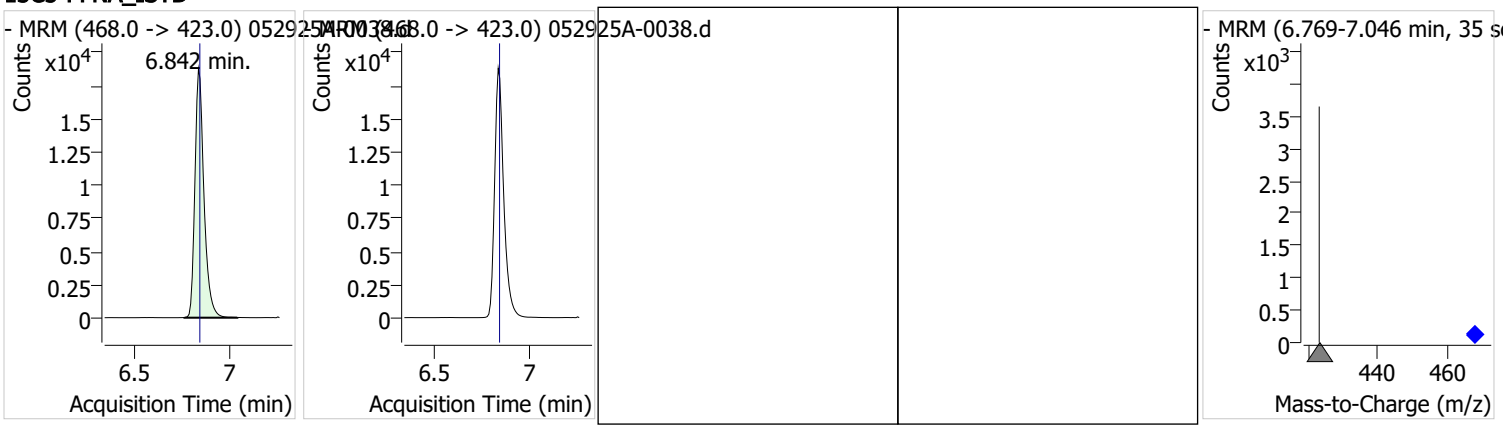
13C3-PFBA_ISTD



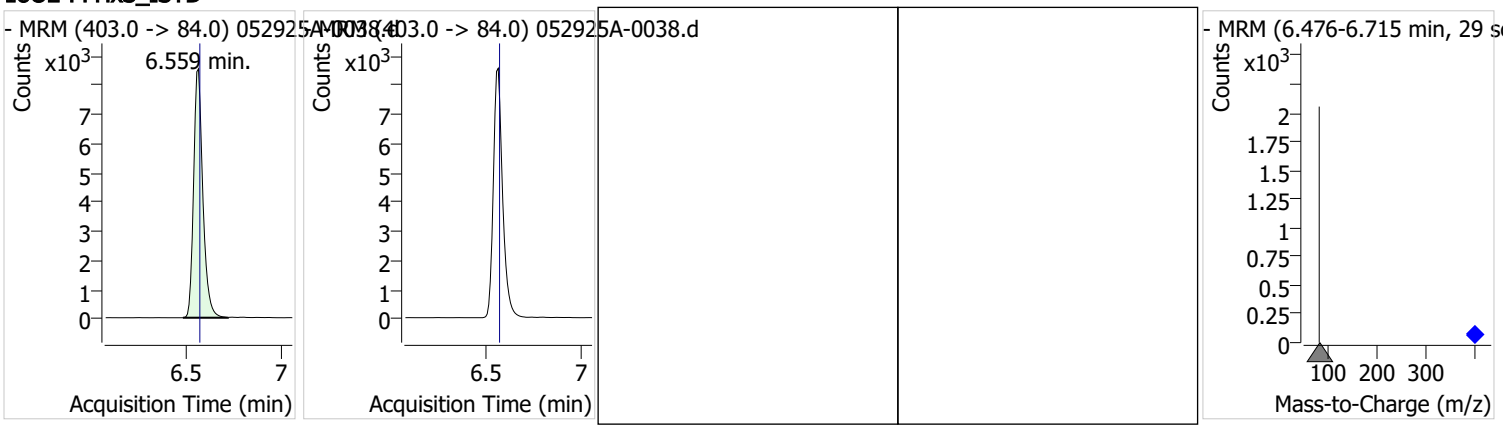




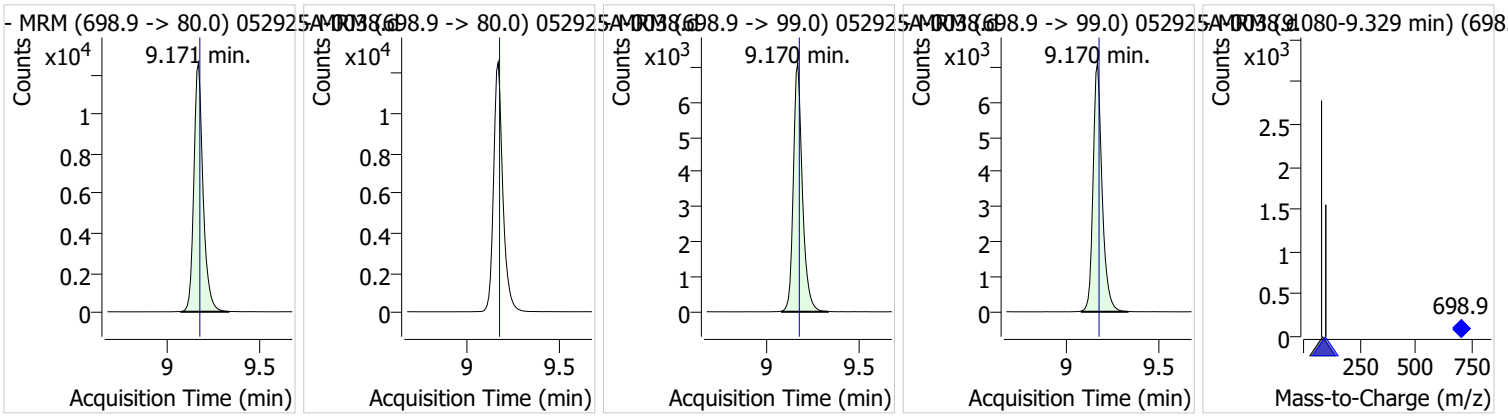
13C5-PFNA_ISTD



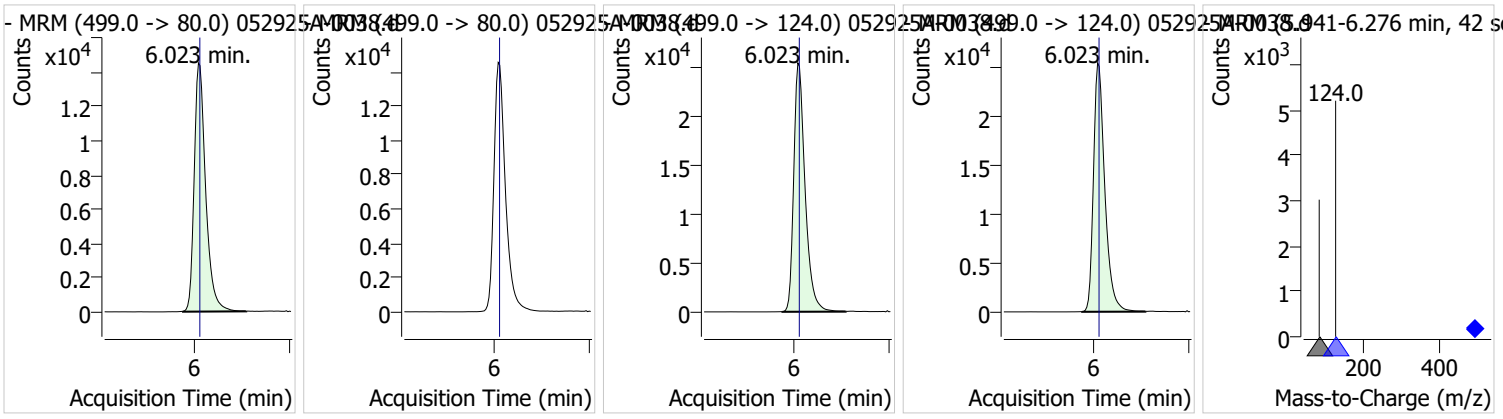
18O2-PFHxS_ISTD



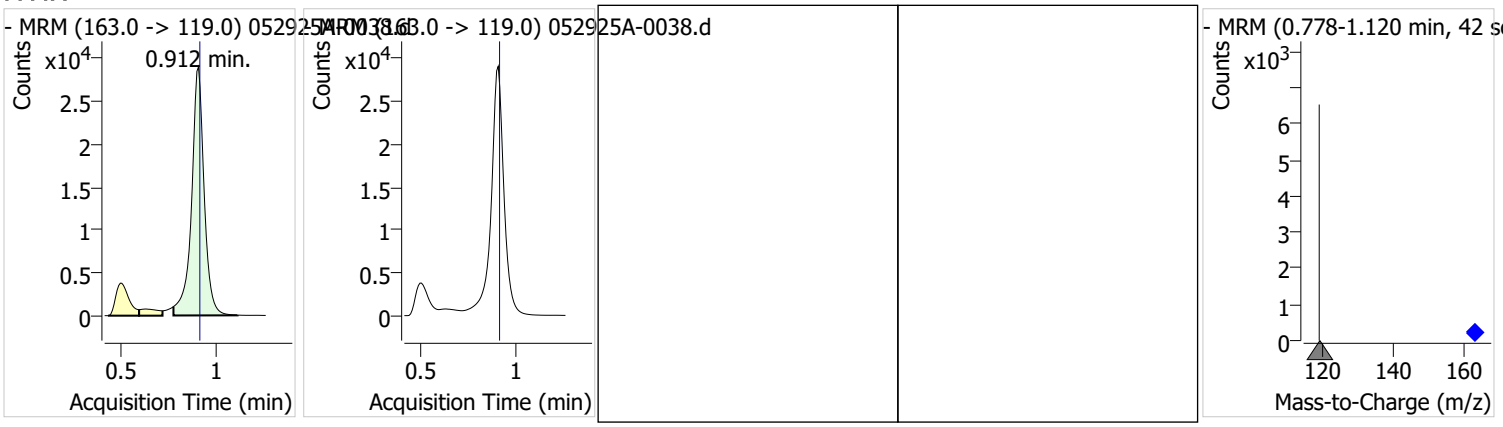
PFDoS



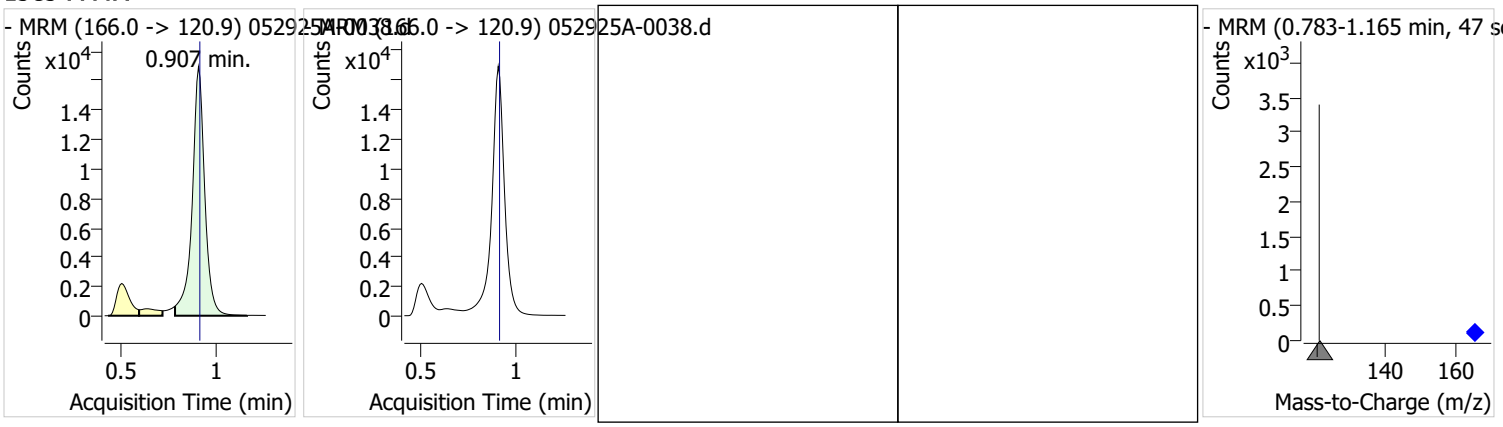
TDCA



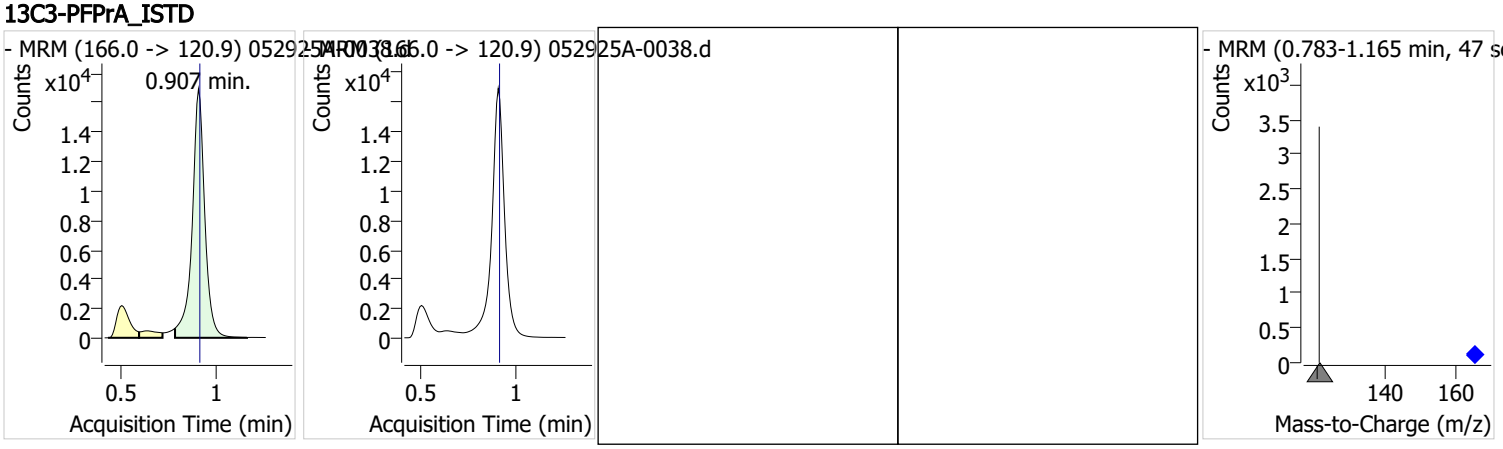
PFPrA



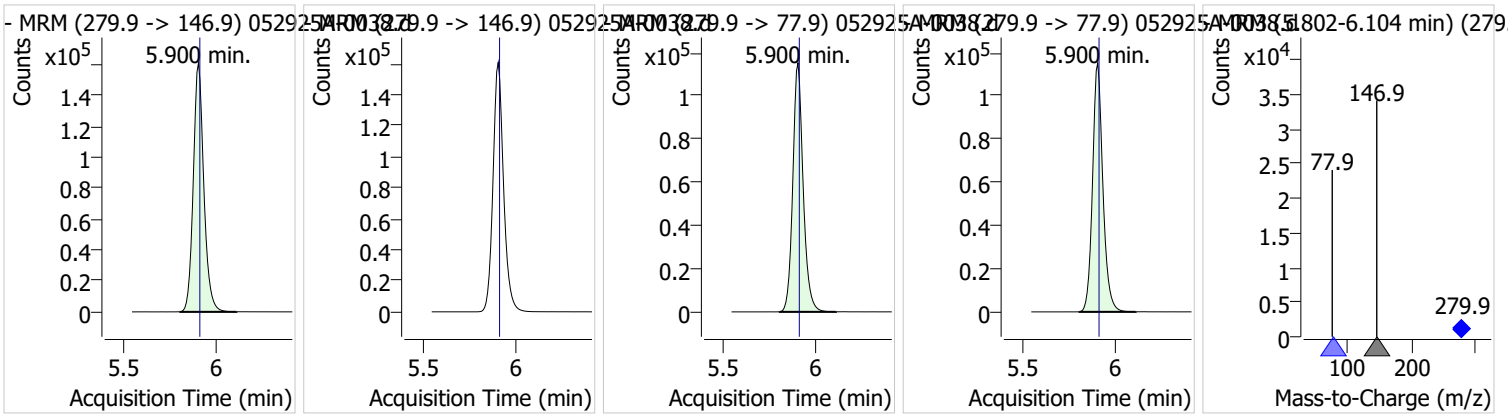
13C3-PFPrA



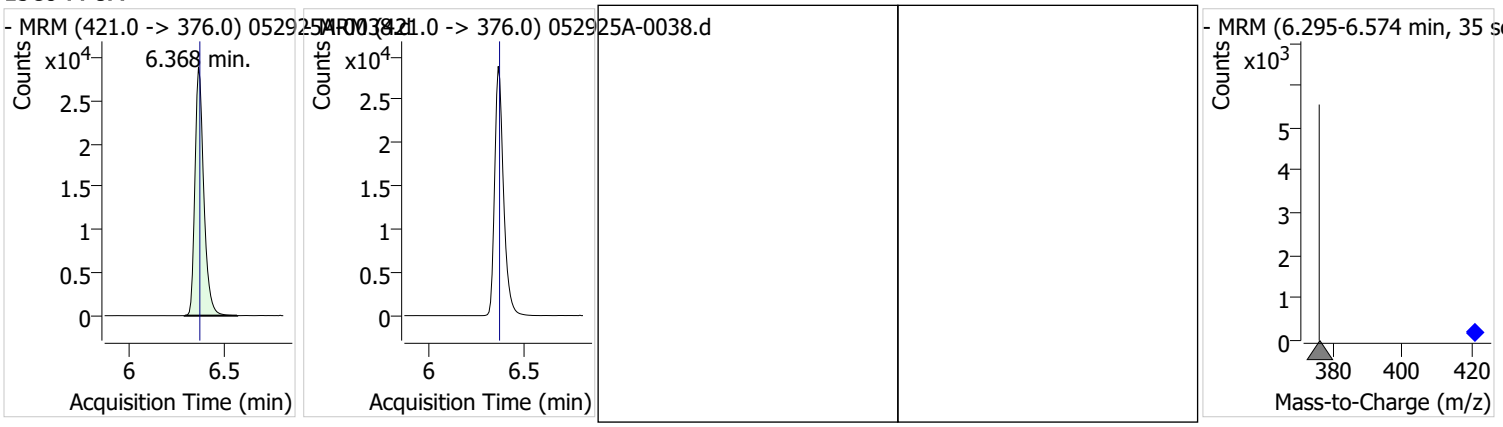
13C3-PFPrA_ISTD



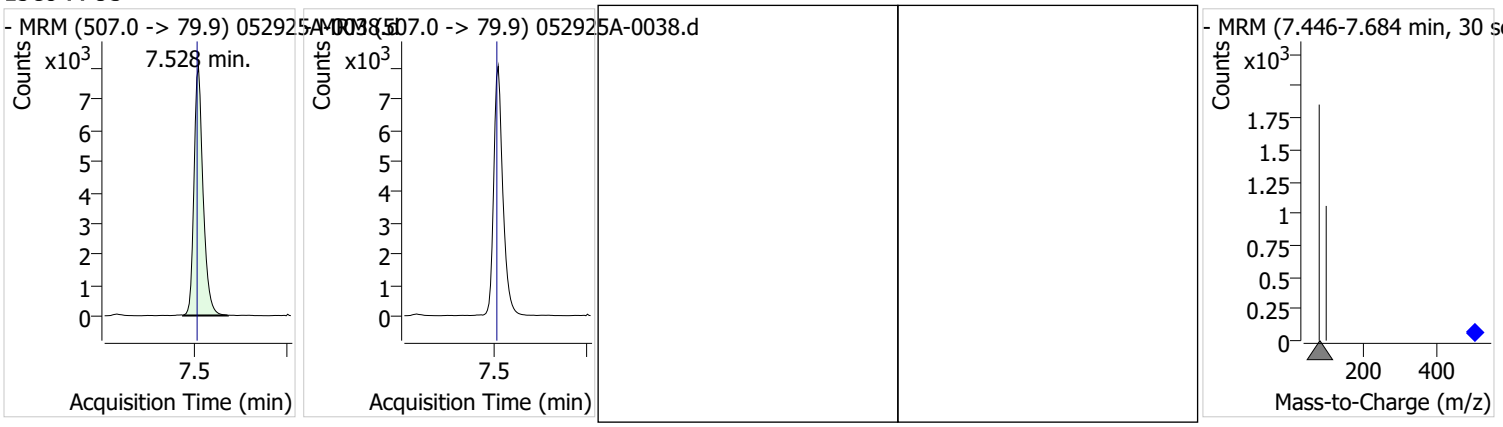
TFSI



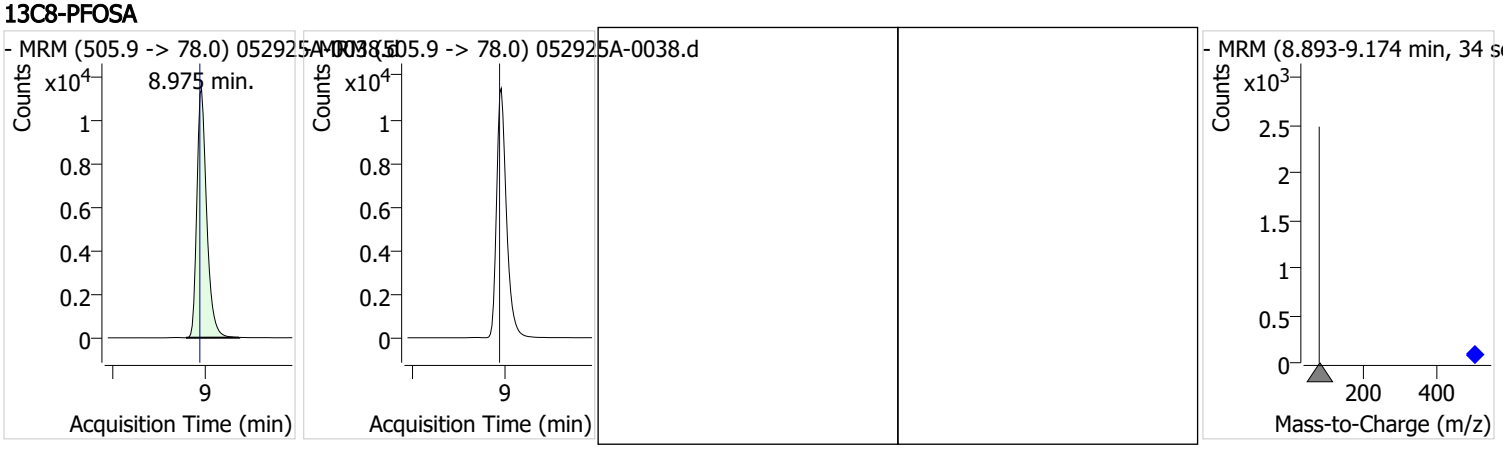
13C8-PFOA



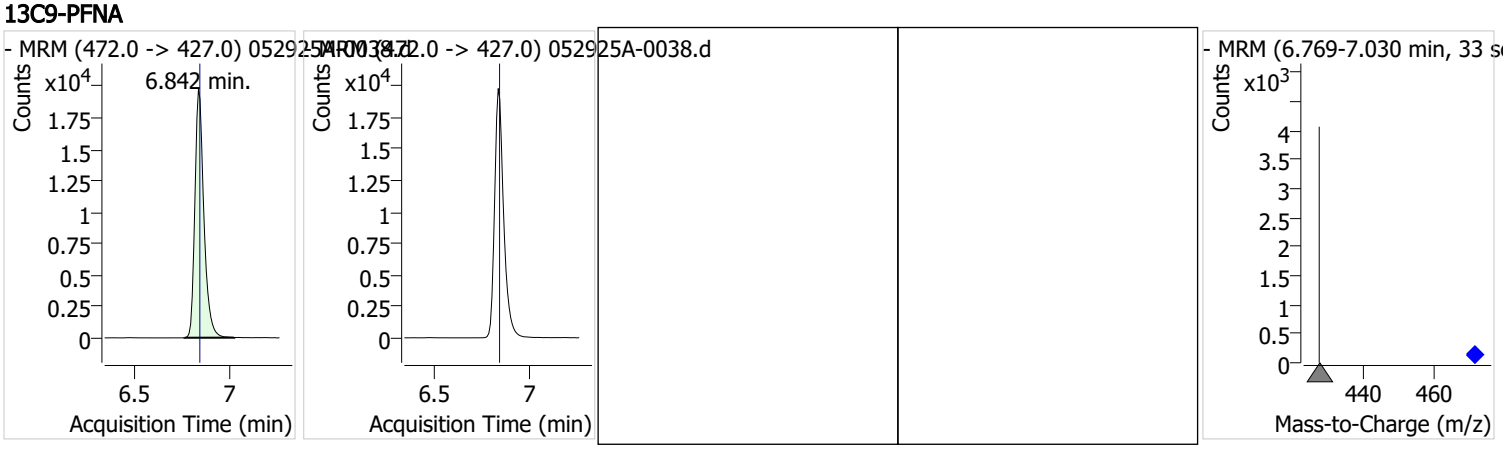
13C8-PFOS



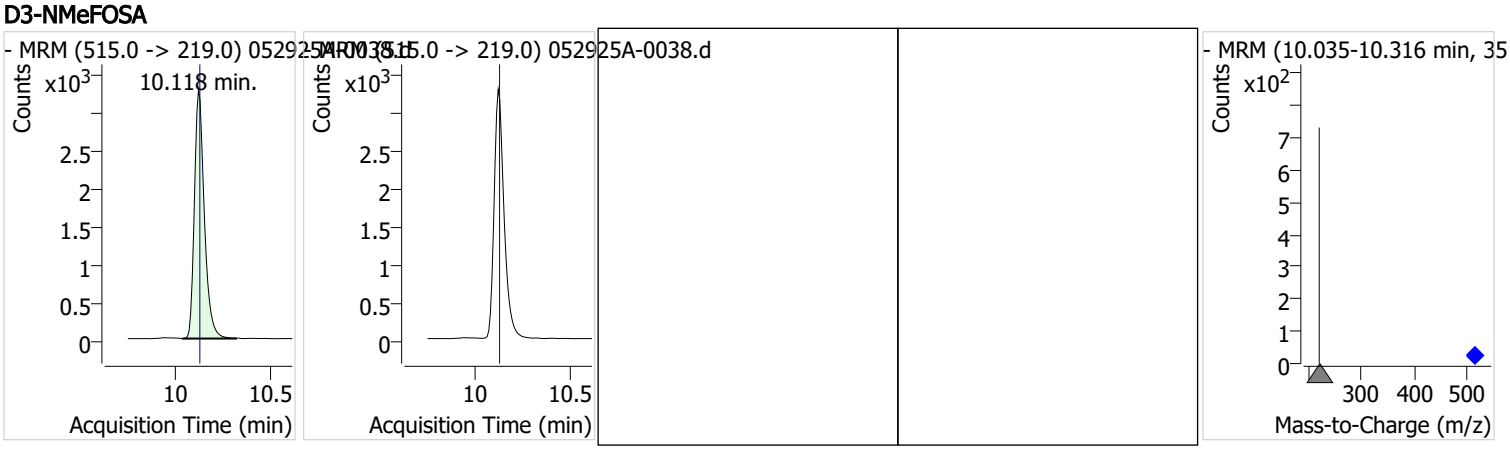
13C8-PFOSA



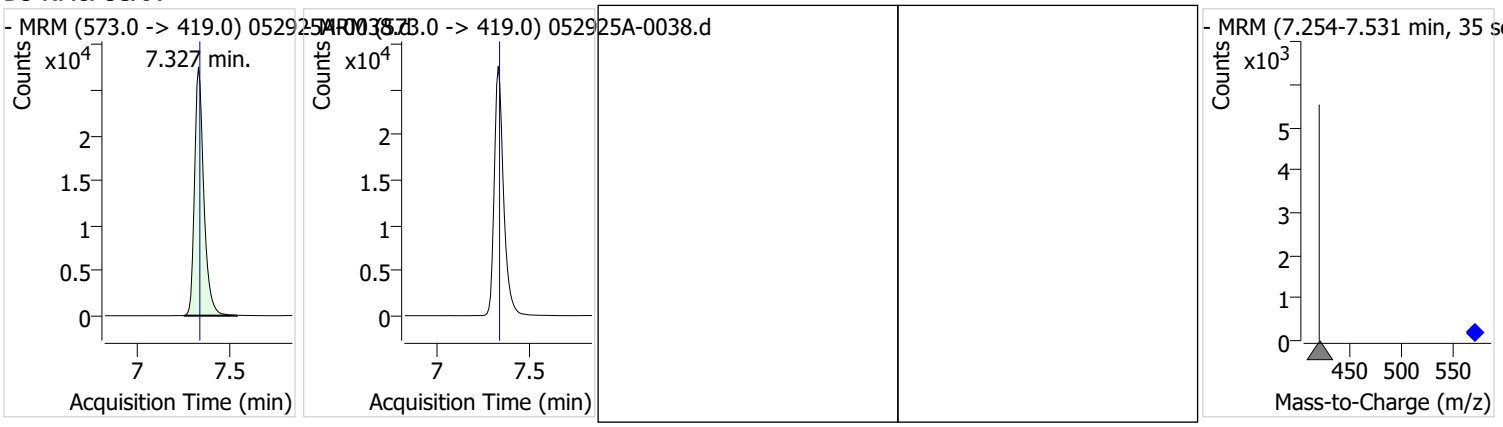
13C9-PFNA



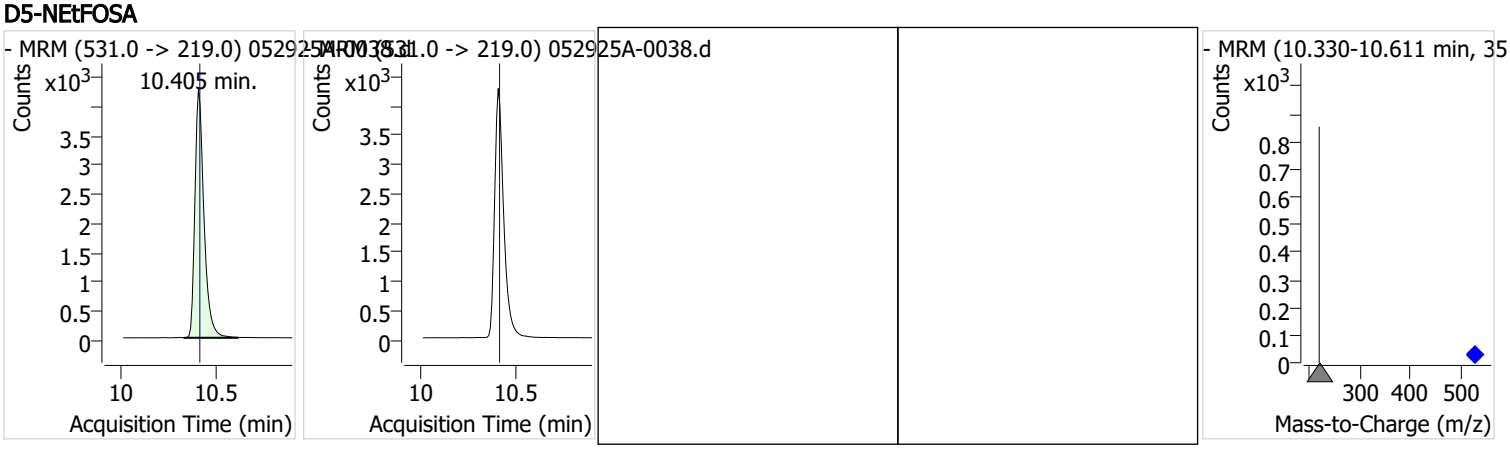
D3-NMeFOSA



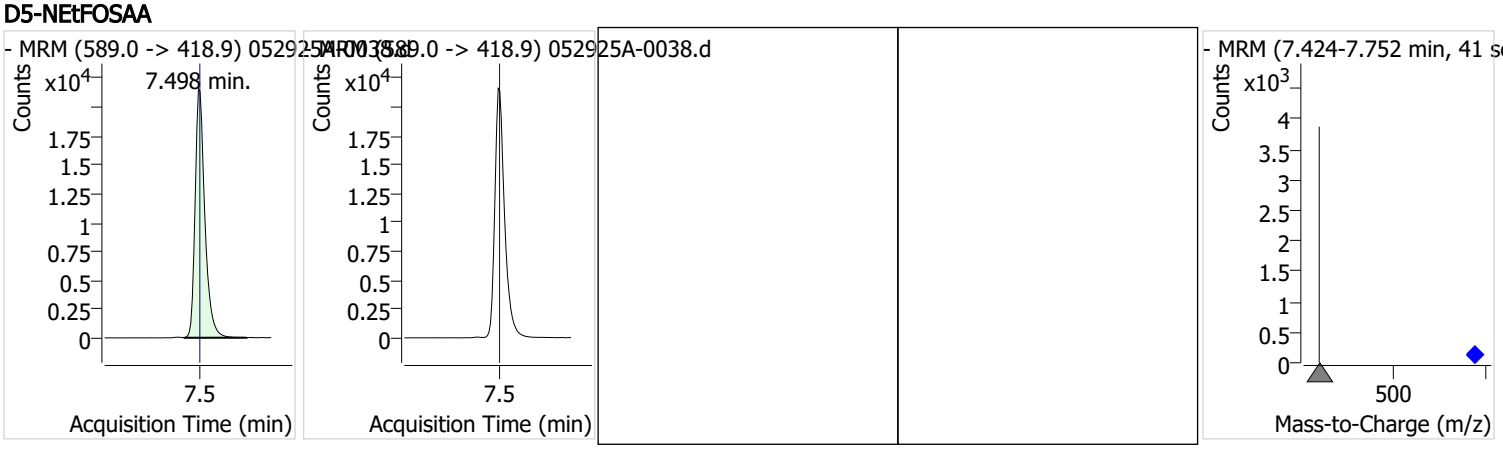
D3-NMeFOSAA



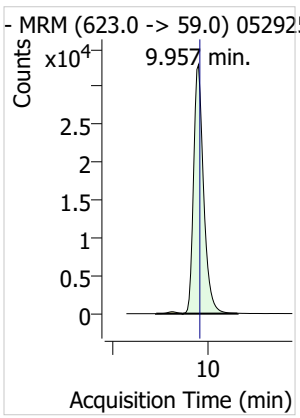
D5-NEtFOSA

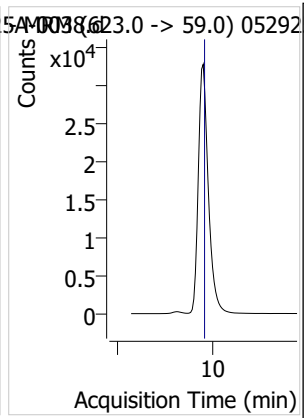


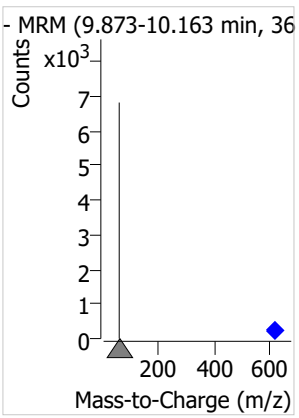
D5-NEtFOSAA



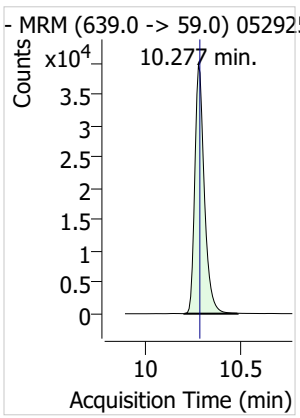
D7-NMeFOSE

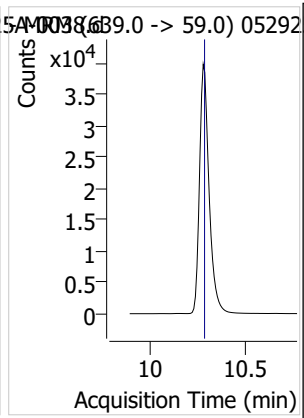


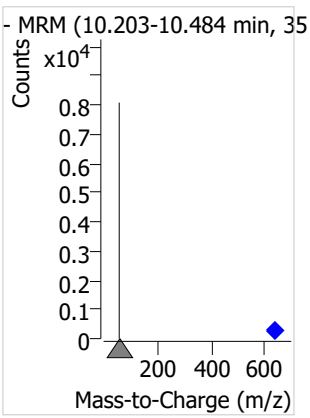




D9-NEtFOSE

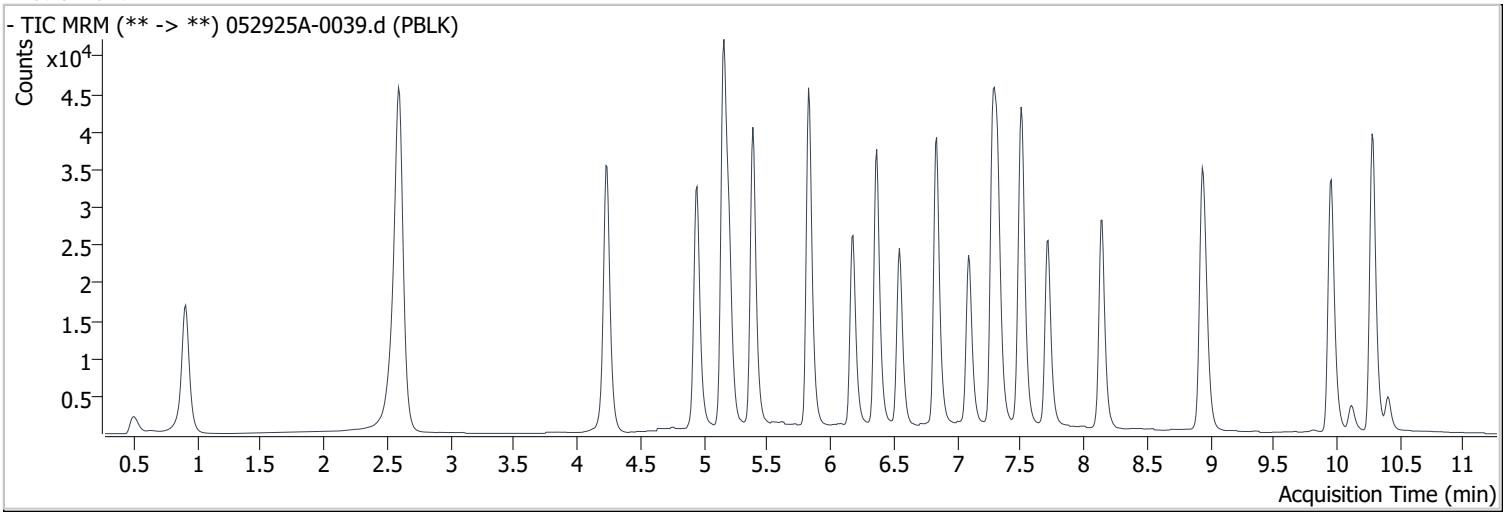






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 7:07 PM	**Data File**	052925A-0039.d
Sample Type	Blank	**Sample Name**	PBLK
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment		**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	82664	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	34056	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	24009	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.831	144288	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.092	22889	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.589	181592	4355.21		13C3-PFBA_ISTD	2.592	73717	10.1212	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.519	28583	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.519	28583	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.519	28583	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	34056	36159.46		18O2-PFHxS_ISTD	6.550	27804	7.1133	ng/ml			
13C2-6:2FTS	6.180	24009	127609.51		18O2-PFHxS_ISTD	6.550	27804	6.6556	ng/ml			
13C2-8:2FTS	7.092	22889	80892.11		18O2-PFHxS_ISTD	6.550	27804	6.3216	ng/ml			
13C2-PFDoA	8.146	93712	7369.11		13C2-PFDA_ISTD	7.290	59706	1.2563	ng/ml			
13C2-PFDA	7.290	59706	17735.77					1.2281	ng/ml			
13C2-PFHxA	5.162	75182	5619.59					2.4392	ng/ml			
13C2-PFTeDA	8.936	100203	29242.10		13C2-PFDA_ISTD	7.290	59706	1.1955	ng/ml			
13C4-PFOS	7.520	26531	1923.17					2.4069	ng/ml			
13C3-HFPODA	5.394	82664	72718.72		13C2-PFHxA_ISTD	5.162	75182	10.2908	ng/ml			
13C3-PFBS	5.205	48636	165036.71		18O2-PFHxS_ISTD	6.550	27804	2.5621	ng/ml			
13C3-PFHxS	6.551	32165	8401.39		18O2-PFHxS_ISTD	6.550	27804	2.5024	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	74038	-	ng/ml			
584.0 -> 526.0				*								

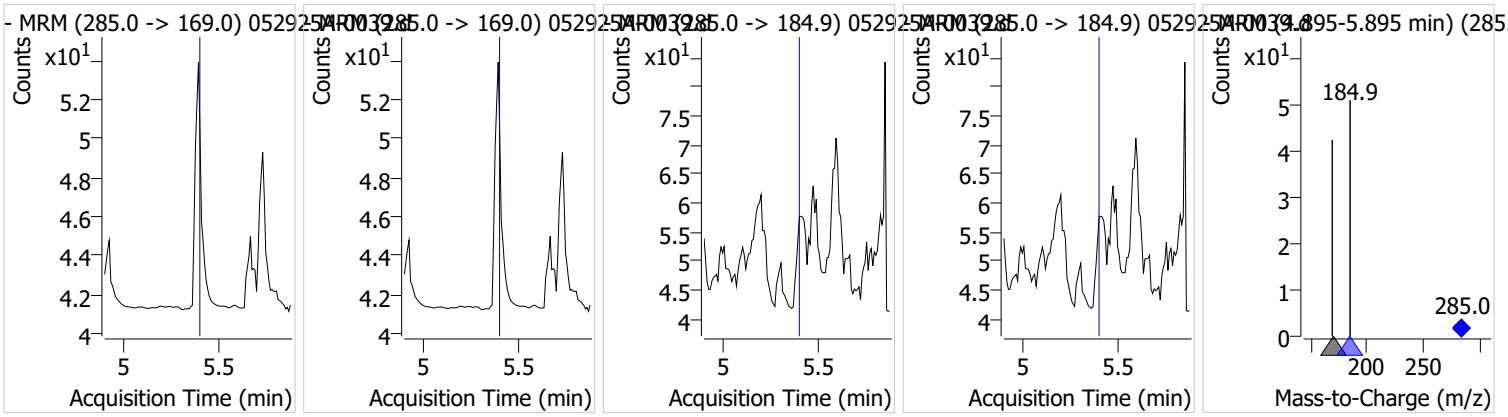
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	144288	29778.44		13C2-PFHxA_ISTD	5.162	75182	2.7025	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.319	92341	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.589	181592	-	ng/ml			
13C5-PFHxA	5.161	85366	5427.29		13C2-PFHxA_ISTD	5.162	75182	2.5578	ng/ml			
PFBS					13C3-PFBS_ISTD	5.205	48636	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	11766	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.281	71126	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.146	93712	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	13672	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.831	144288	-	ng/ml			
362.9 -> 169.0				*								
PFHxA					13C5-PFHxA_ISTD	5.161	85366	-	ng/ml			
313.0 -> 118.9				*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	122032	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.551	32165	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	65427	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	139400	-	ng/ml			
PFOA	6.369	1188	20.19		13C8-PFOA_ISTD	6.368	95627	0.0263	ng/ml	✔	GT	MJL 5/30/25
413.0 -> 169.0	6.377	73	22.60	*6.1								
PFOS	7.399	573	44.46		13C8-PFOS_ISTD	7.519	28583	0.0339	ng/ml			
499.0 -> 99.0	7.402	332	29.67	57.9								
PFPeA					13C5-PFPeA_ISTD	4.229	134895	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.589	181592	-	ng/ml			
13C5-PFPeA	4.229	134895	6041.19		13C2-PFHxA_ISTD	5.162	75182	5.0662	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.229	134895	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.146	93712	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	85366	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.281	71126	21264.43		13C2-PFDA_ISTD	7.290	59706	1.2652	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	85366	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.967	41094	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	82292	2775.67		13C2-PFDA_ISTD	7.290	59706	1.3106	ng/ml			
13C4-PFOA	6.369	20884	82894.87					2.5258	ng/ml			
PFDS					13C8-PFOS_ISTD	7.519	28583	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.519	28583	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.551	32165	-	ng/ml			
349.0 -> 98.9				*								

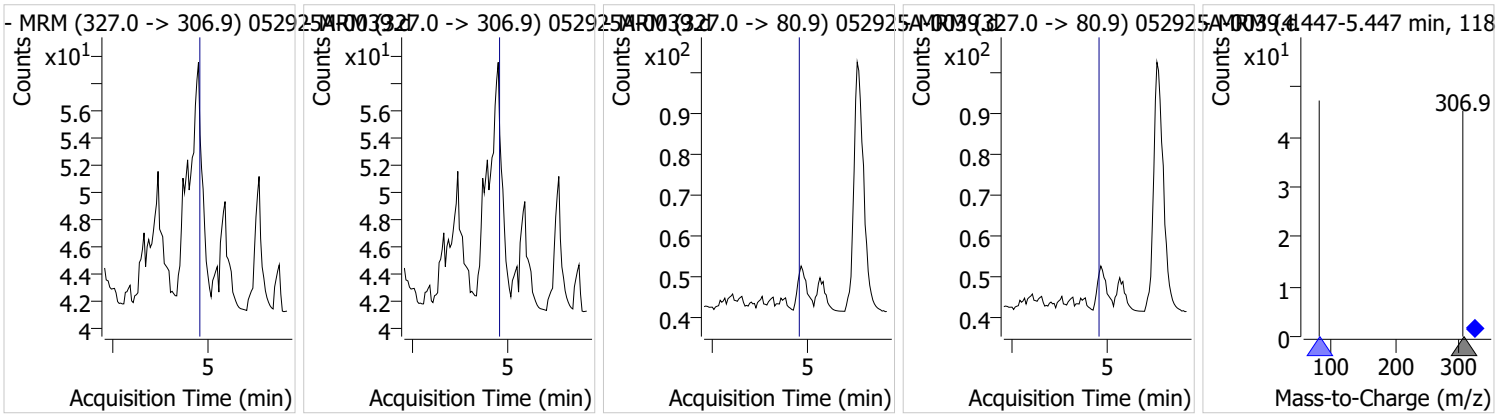
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA					13C2-PFTeDA_ISTD	8.936	100203	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	82292	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.592	73717	13206.45					4.8541	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.229	134895	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	85366	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	65427	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	58315	57718.49					1.2331	ng/ml			
18O2-PFHxS	6.550	27804	8453.28					2.4477	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.519	28583	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.519	28583	-	ng/ml			
499.0 -> 124.0				*								
PFPrA					13C3-PFPrA_ISTD	0.907	79109	-	ng/ml			
13C3-PFPrA	0.907	79109	3922.48		13C3-PFBA_ISTD	2.592	73717	9.9200	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	82664	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	95627	46886.52		13C4-PFOA_ISTD	6.369	20884	2.4440	ng/ml			
13C8-PFOS	7.519	28583	8510.31		13C4-PFOS_ISTD	7.520	26531	2.7547	ng/ml			
13C8-PFOSA	8.967	41094	11604.96		13C4-PFOS_ISTD	7.520	26531	2.7543	ng/ml			
13C9-PFNA	6.842	65427	19966.71		13C5-PFNA_ISTD	6.842	58315	1.2698	ng/ml			
D3-NMeFOSA	10.118	11766	1159.81		13C4-PFOS_ISTD	7.520	26531	2.4752	ng/ml			
D3-NMeFOSAA	7.319	92341	26901.32		13C4-PFOS_ISTD	7.520	26531	5.5957	ng/ml			
D5-NEtFOSA	10.405	13672	2361.54		13C4-PFOS_ISTD	7.520	26531	2.3925	ng/ml			
D5-NEtFOSAA	7.498	74038	21513.40		13C4-PFOS_ISTD	7.520	26531	5.9077	ng/ml			
D7-NMeFOSE	9.957	122032	16440.23		13C4-PFOS_ISTD	7.520	26531	26.7401	ng/ml			
D9-NEtFOSE	10.277	139400	6118.42		13C4-PFOS_ISTD	7.520	26531	27.5082	ng/ml			

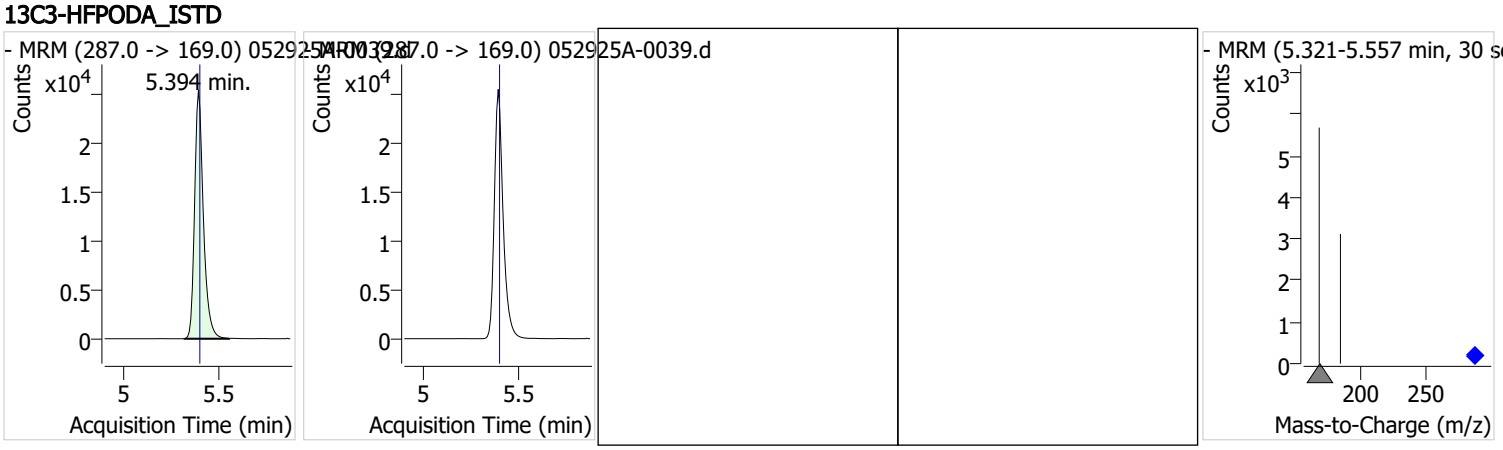
HFPO-DA



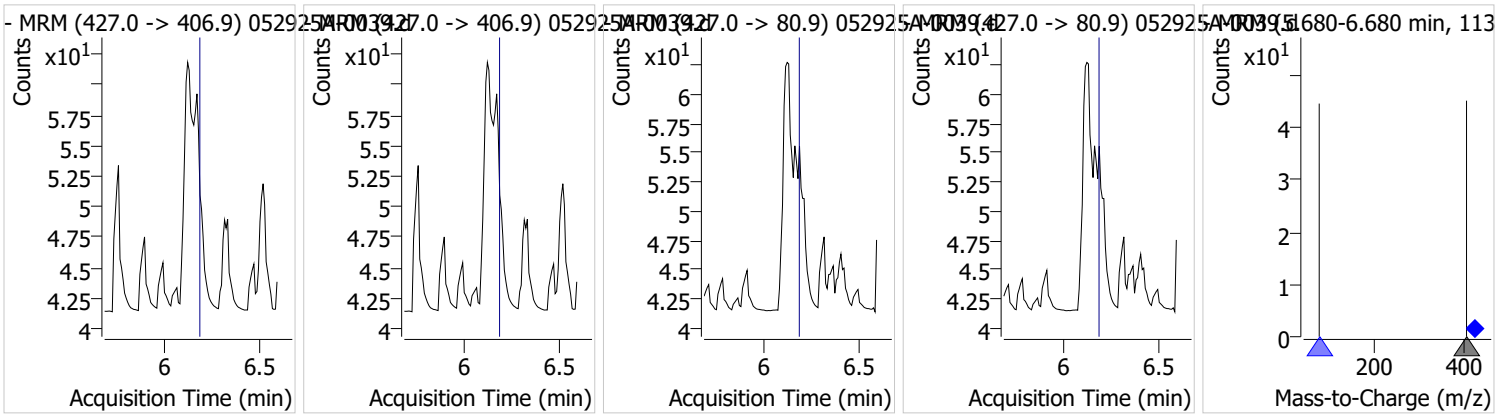
4:2FTS



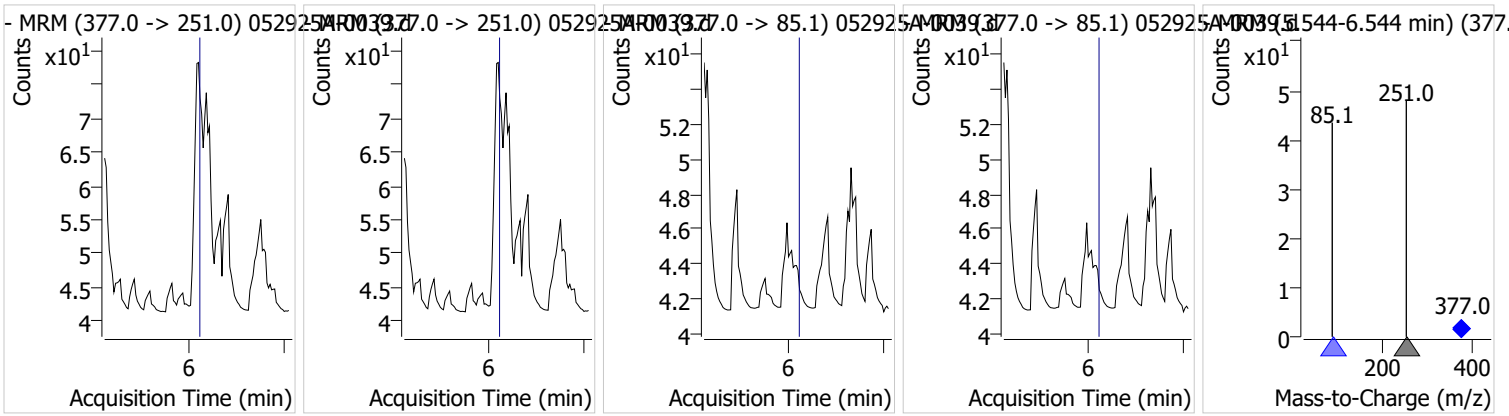
13C3-HFPODA_ISTD



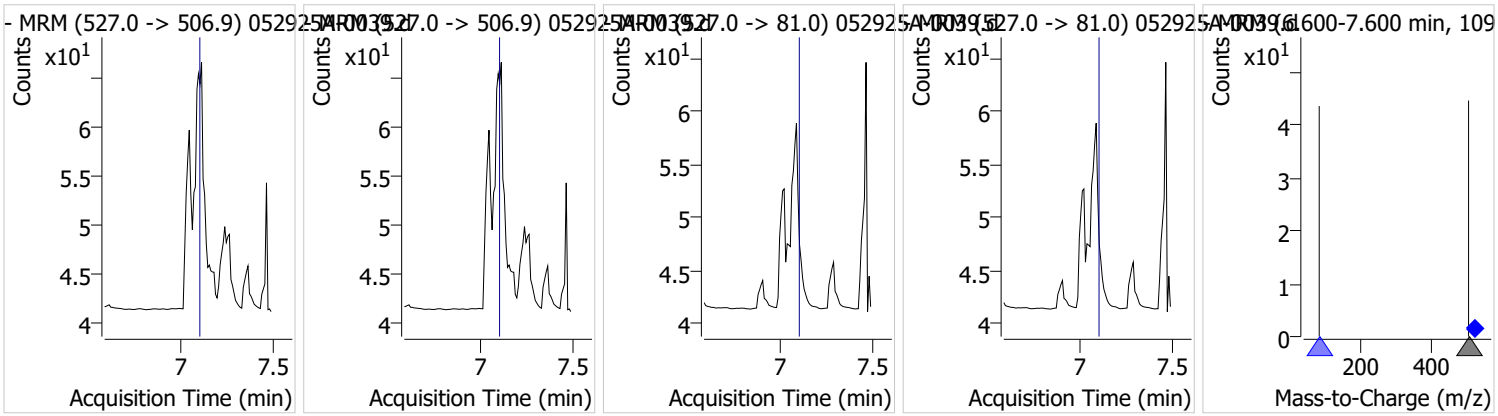
6:2FTS



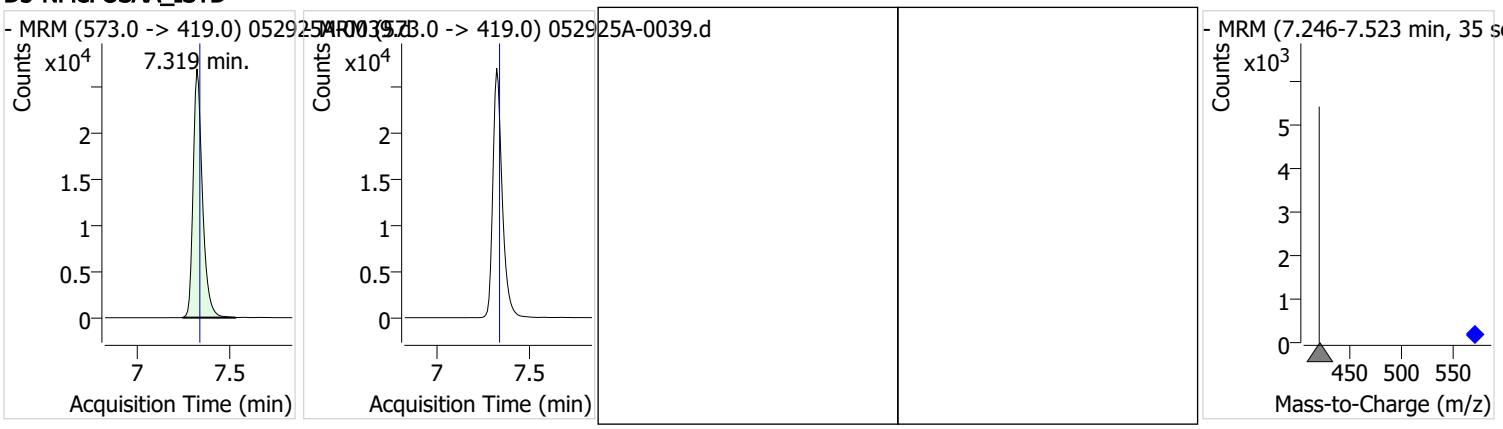
ADONA



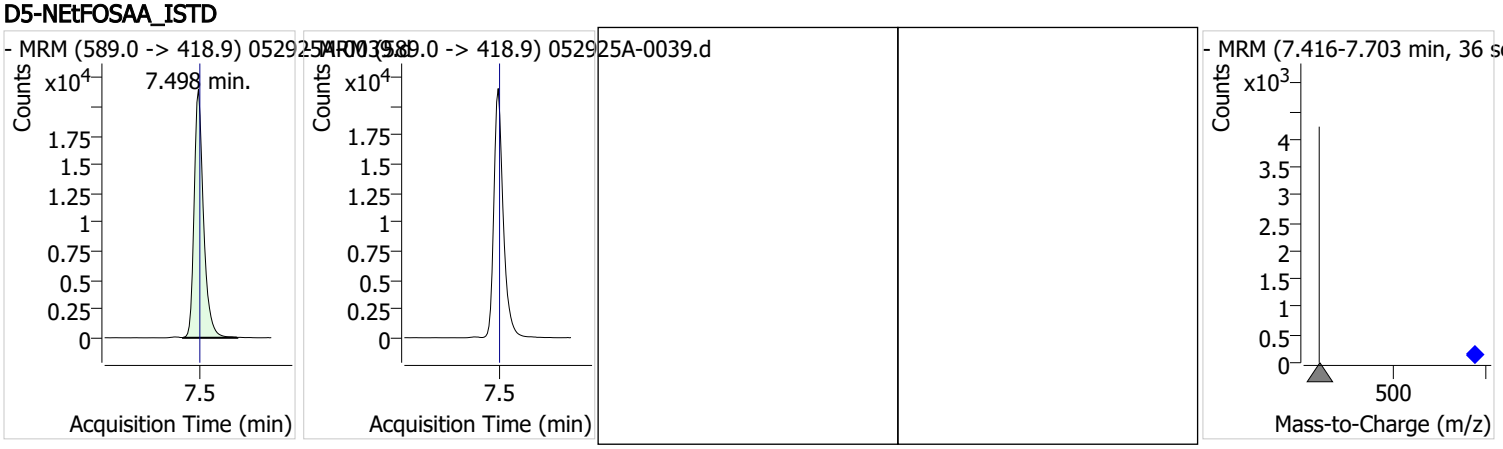
8:2FTS



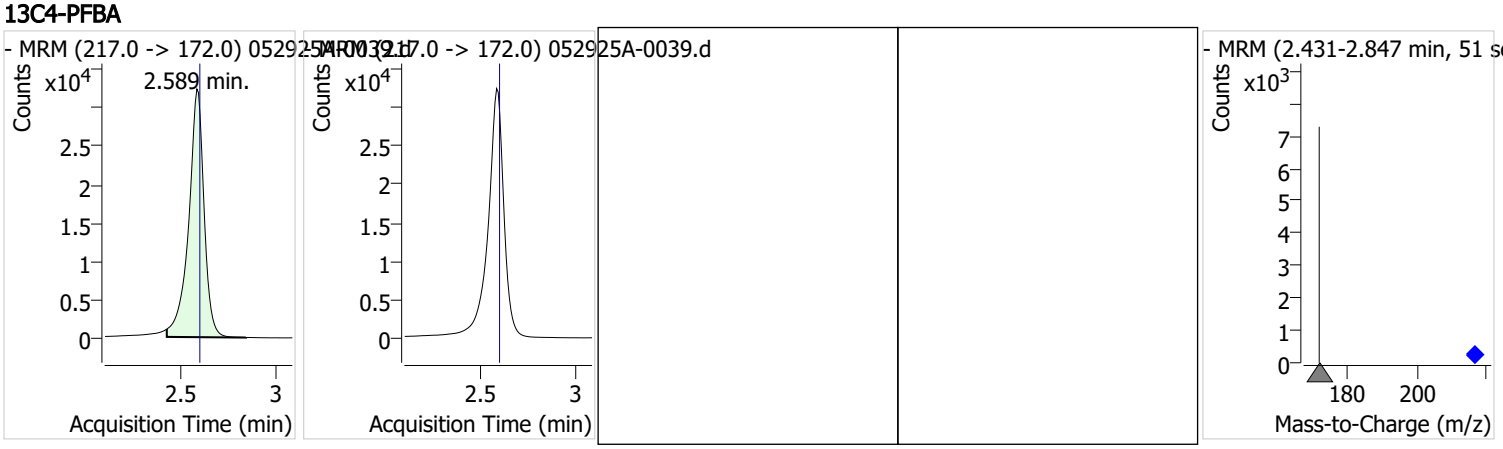
D3-NMeFOSAA_ISTD



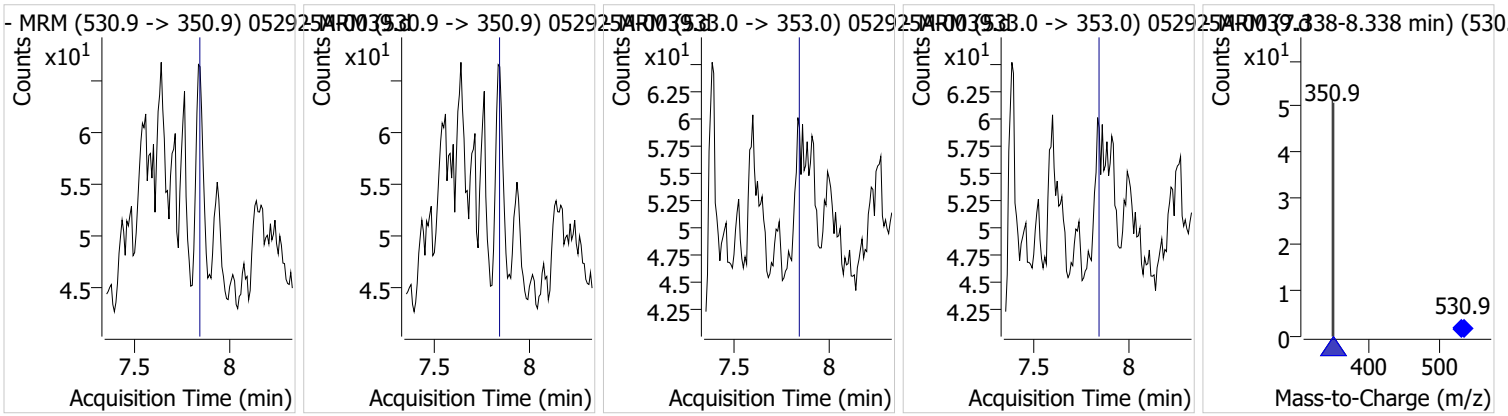
D5-NEtFOSAA_ISTD



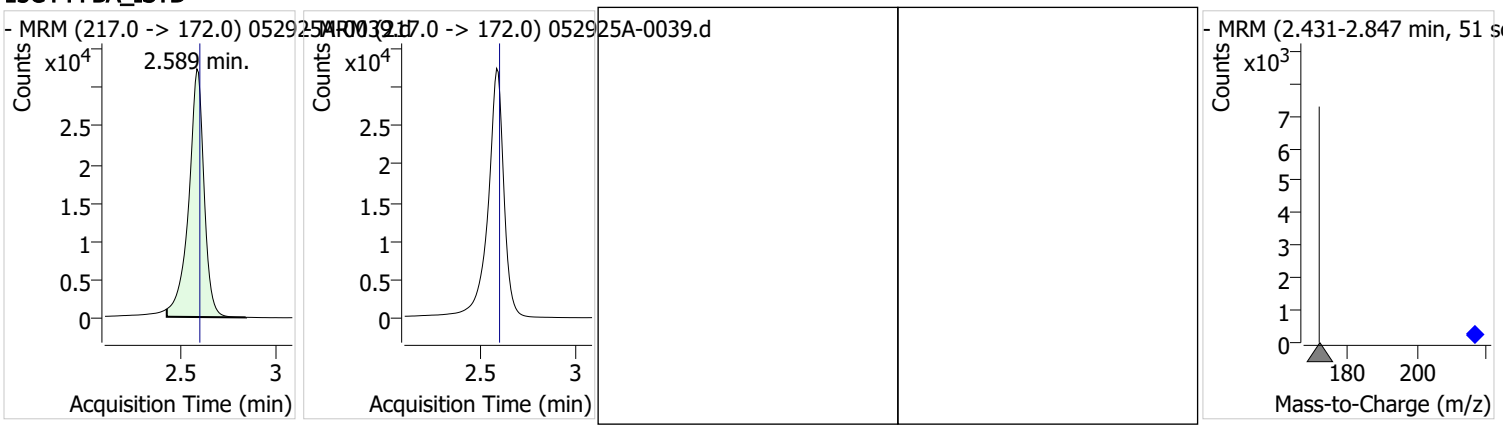
13C4-PFBA



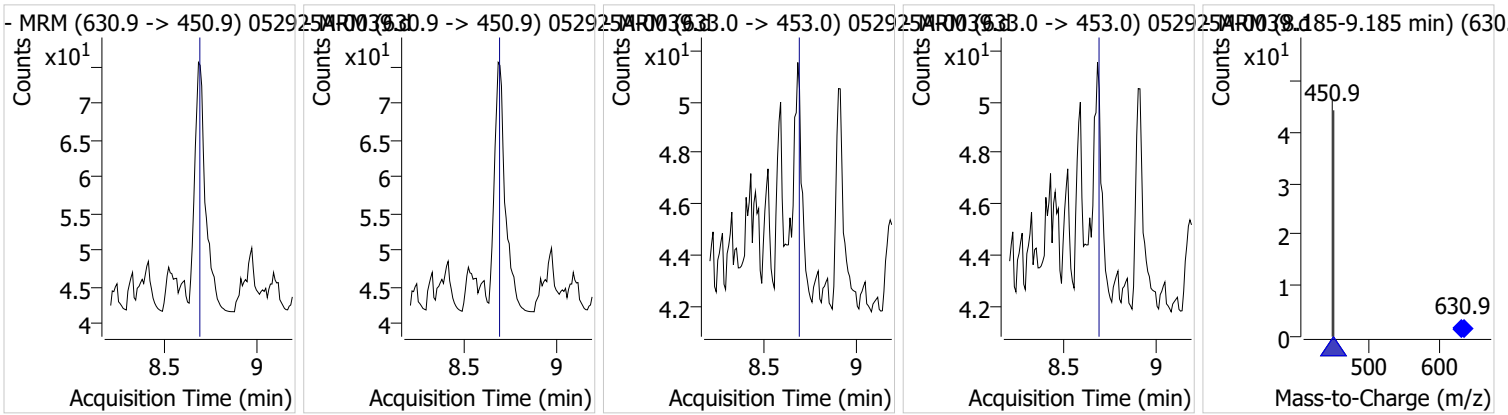
9Cl-PF3ONS



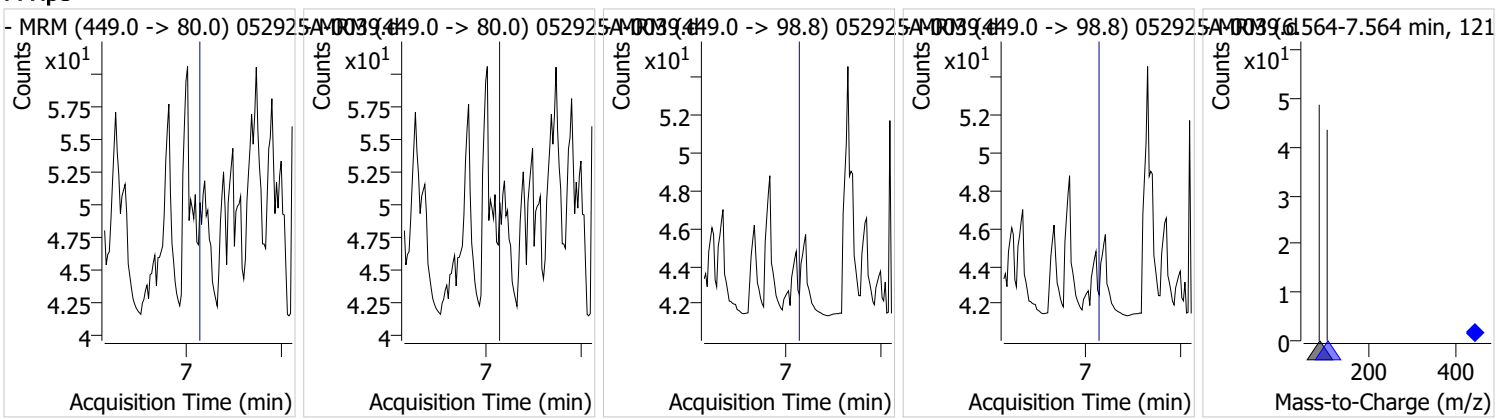
13C4-PFBA_ISTD



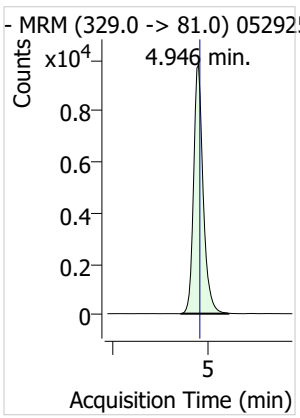
11Cl-PF3OUdS

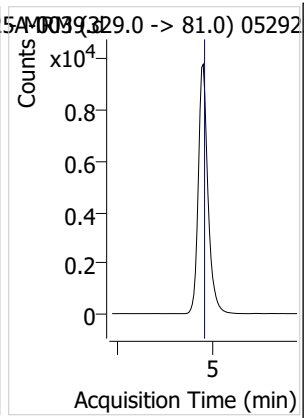


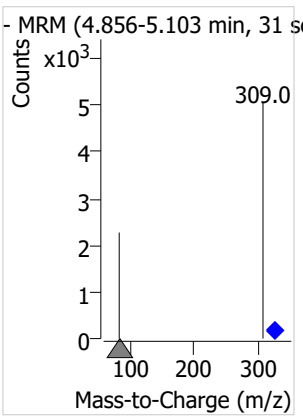
PFHpS



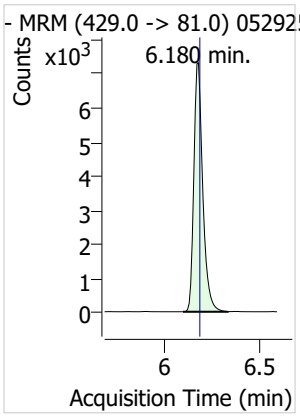
13C2-4:2FTS

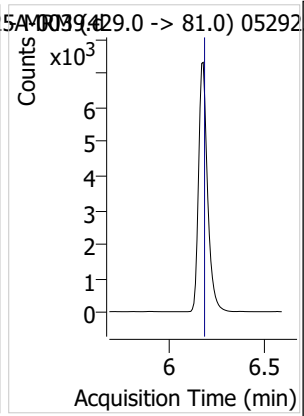


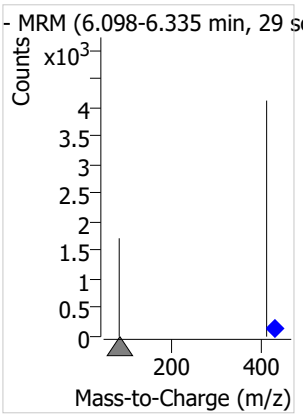




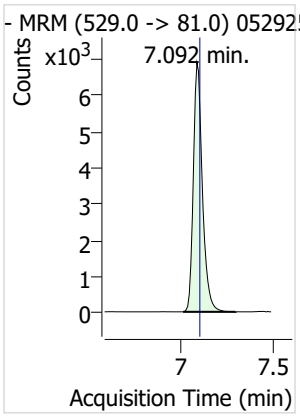
13C2-6:2FTS

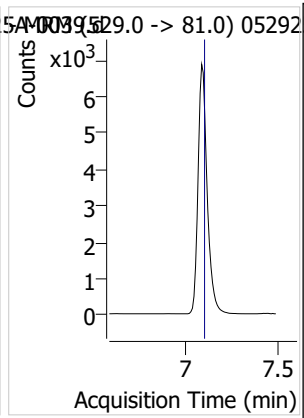


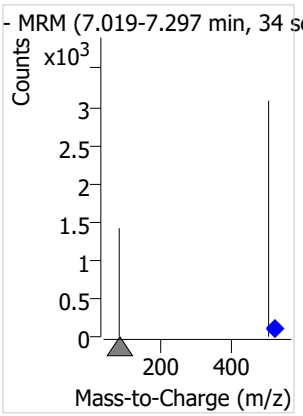




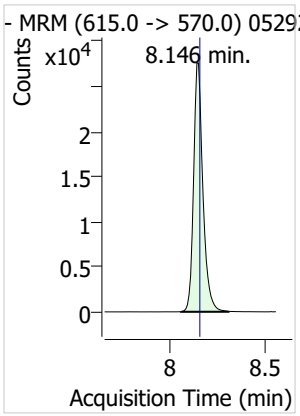
13C2-8:2FTS

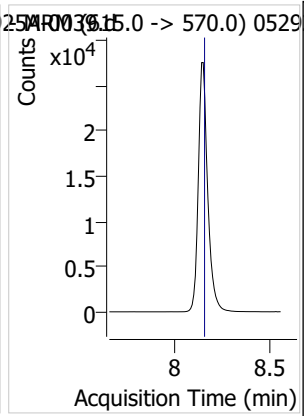


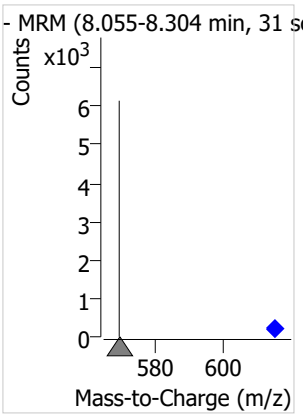




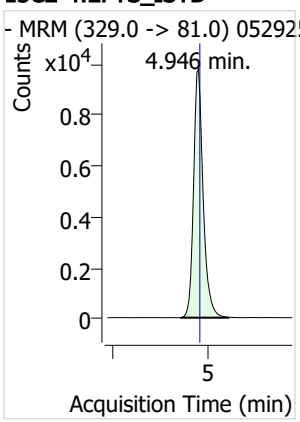
13C2-PFDoA

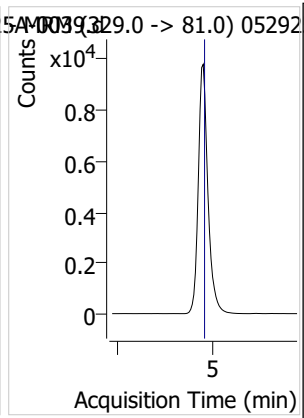


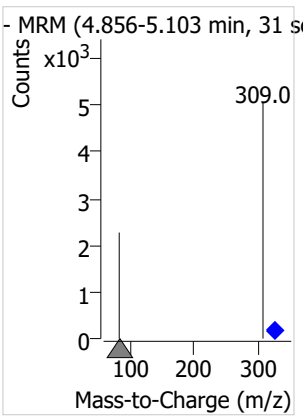




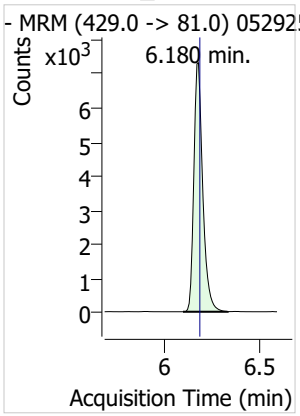
13C2-4:2FTS_ISTD

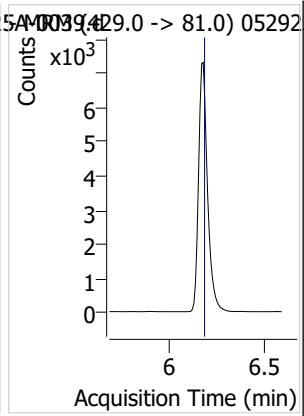


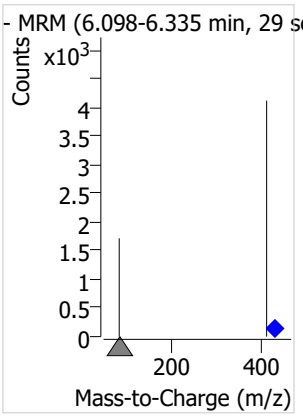




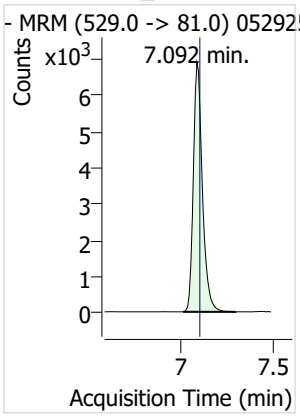
13C2-6:2FTS_ISTD

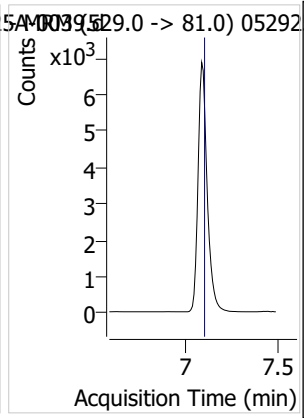


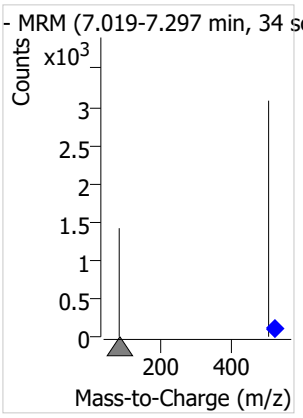




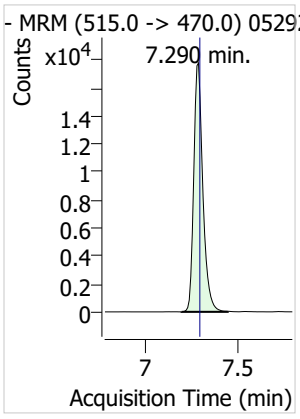
13C2-8:2FTS_ISTD

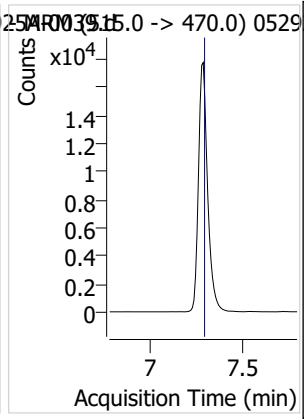


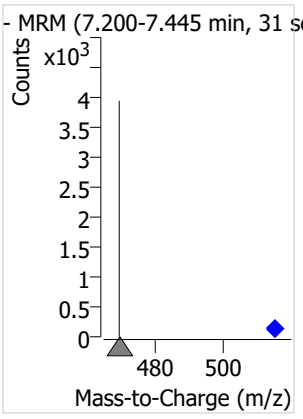




13C2-PFDA



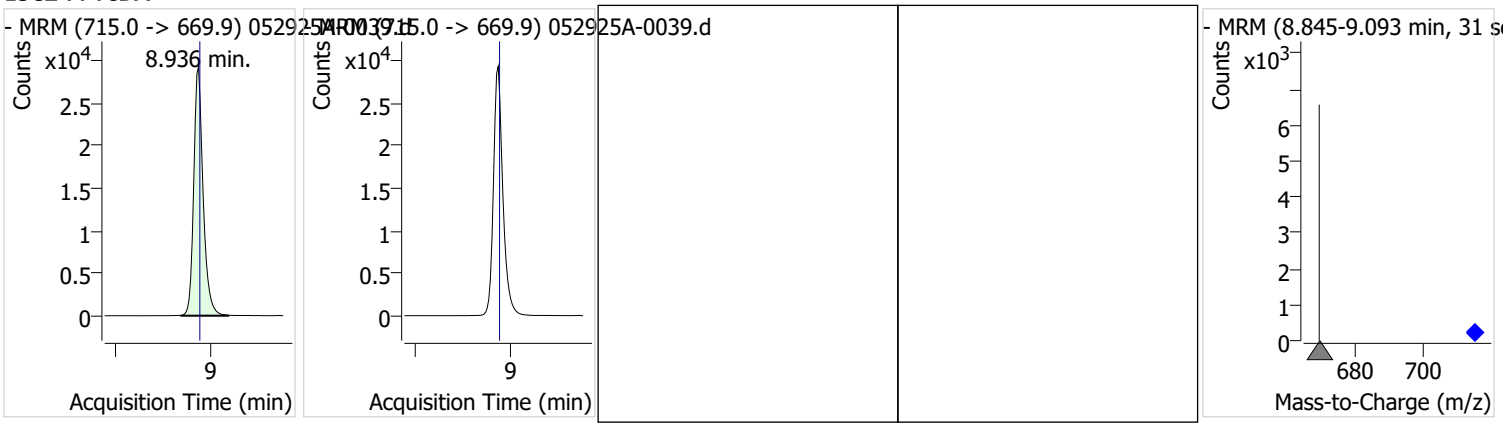




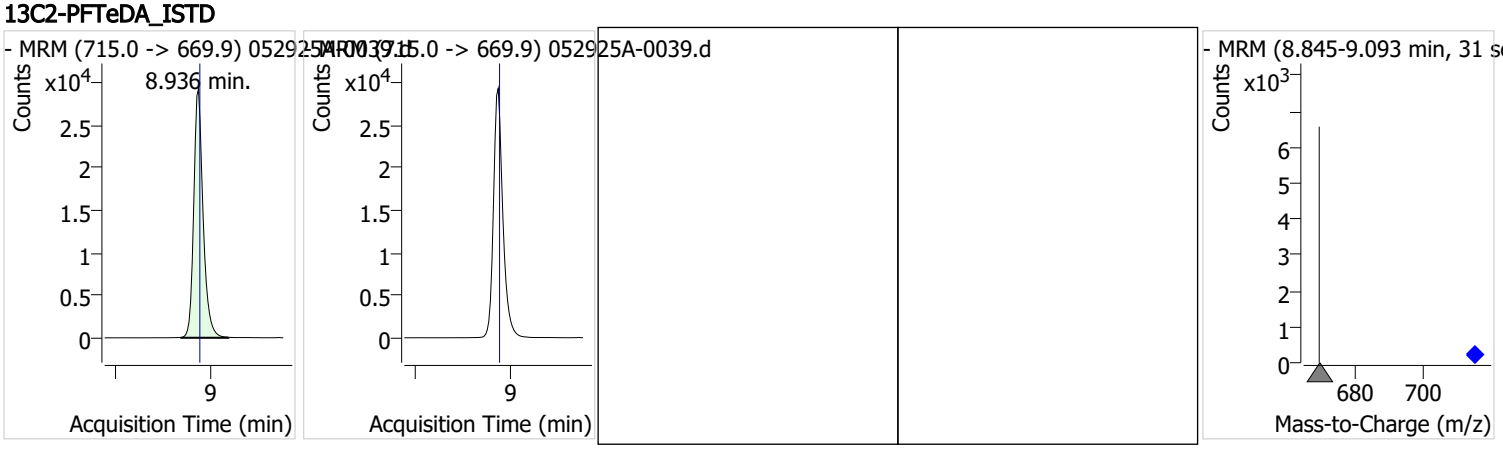
13C2-PFHxA



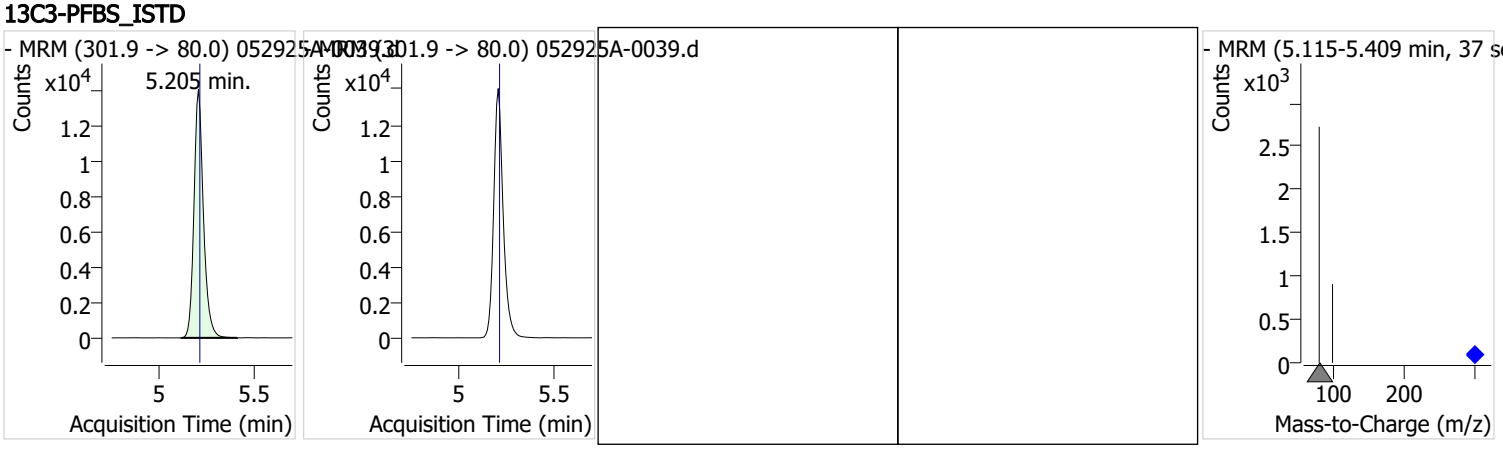
13C2-PFTeDA



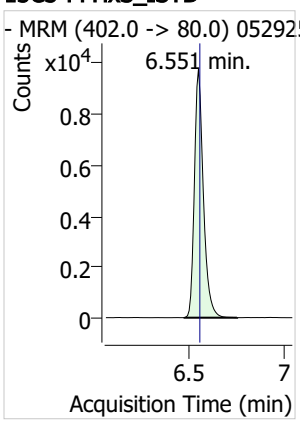
13C2-PFTeDA_ISTD

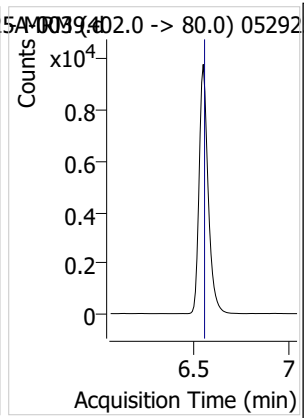


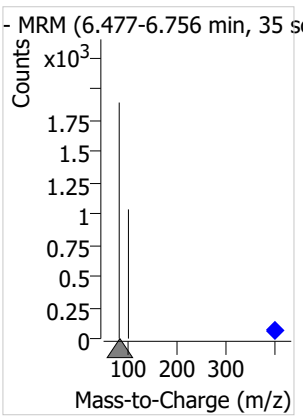
13C3-PFBS_ISTD



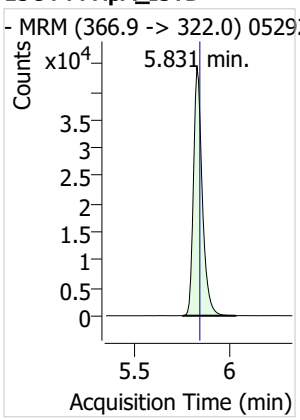
13C3-PFHxS_ISTD

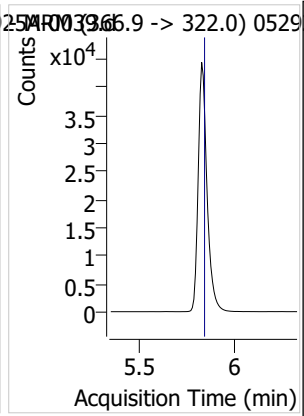


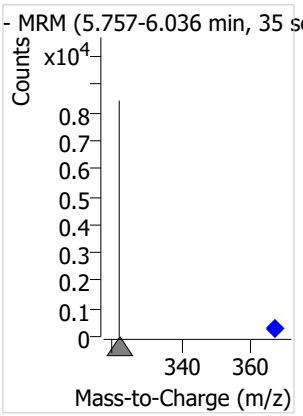




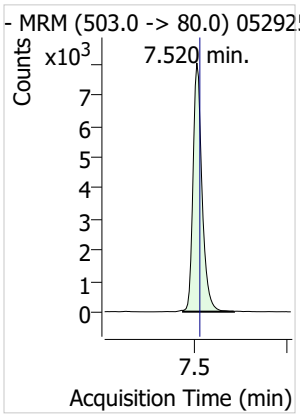
13C4-PFHpA_ISTD

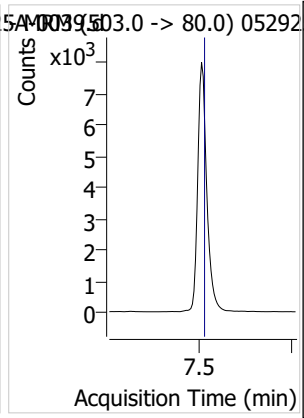


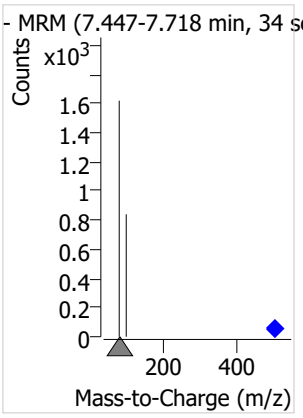




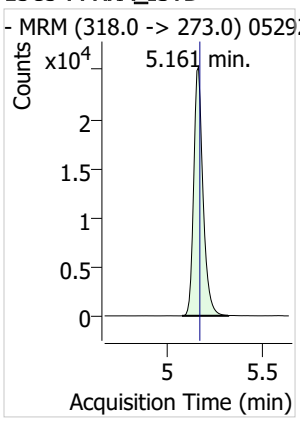
13C4-PFOS

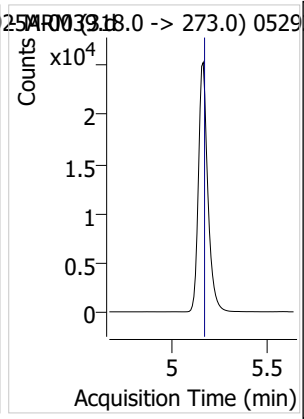


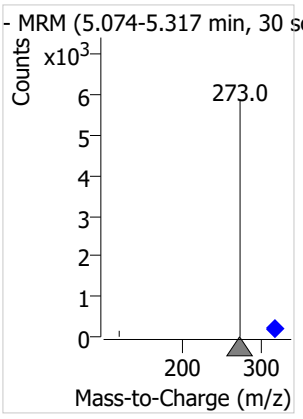




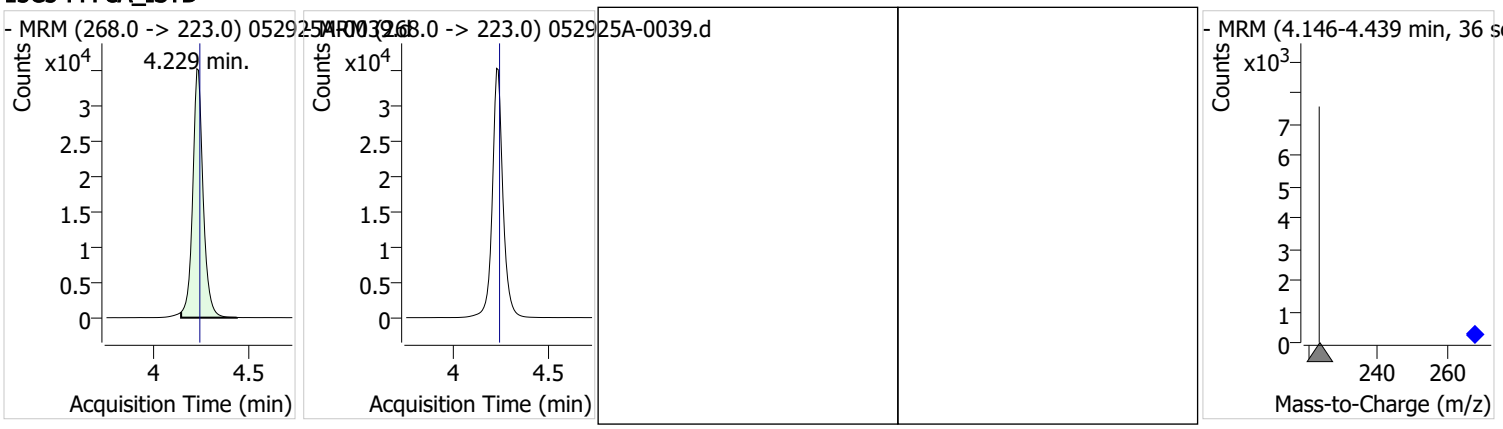
13C5-PFHxA_ISTD







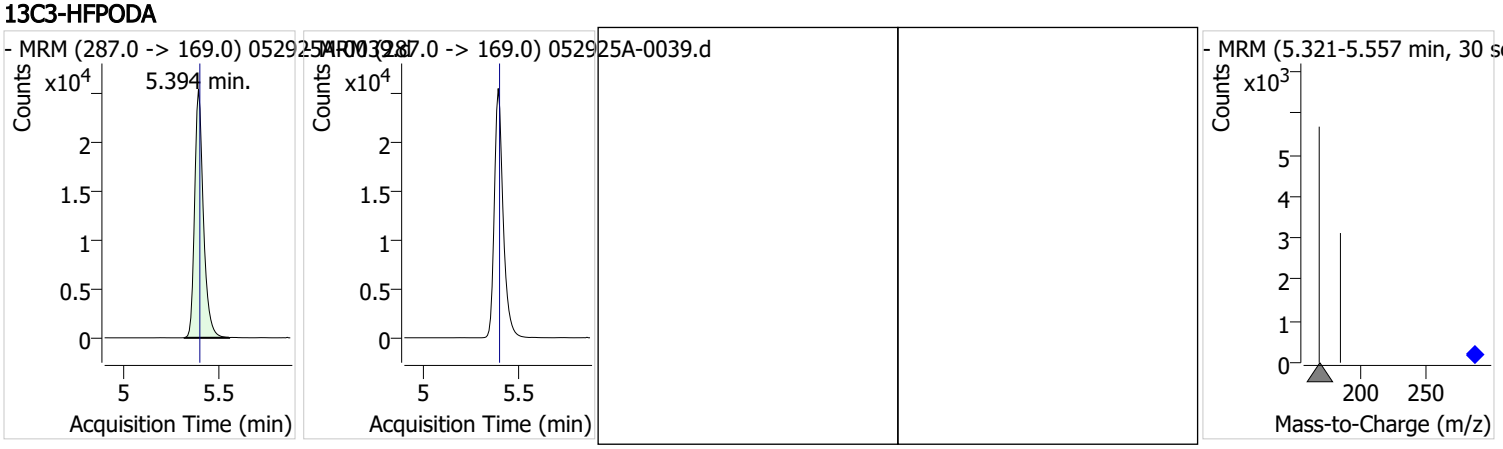
13C5-PFPeA_ISTD



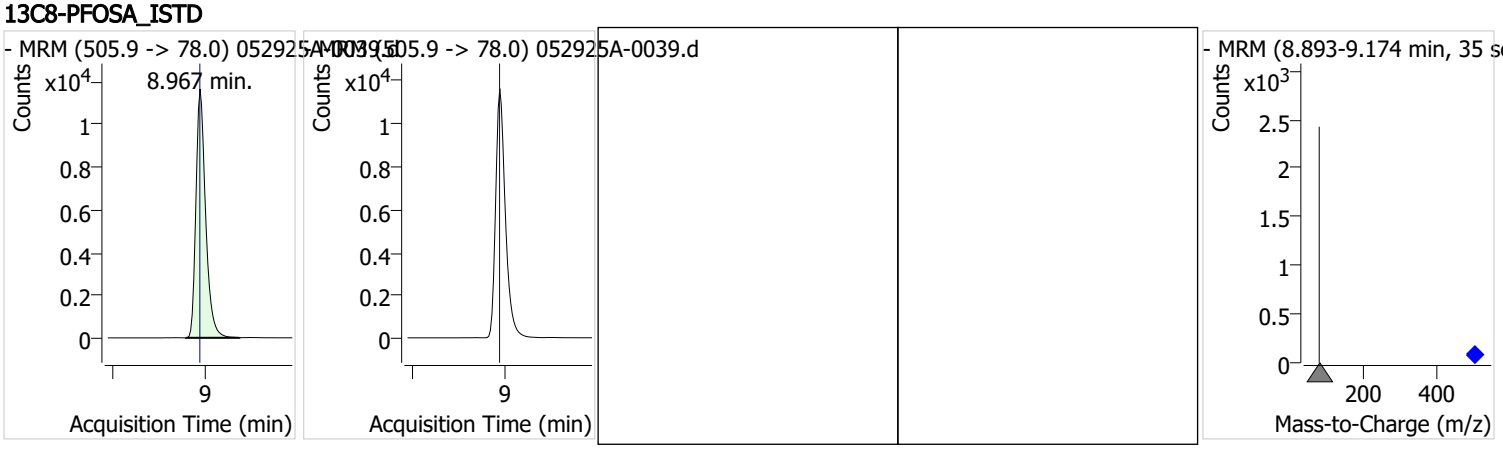
13C6-PFDA_ISTD



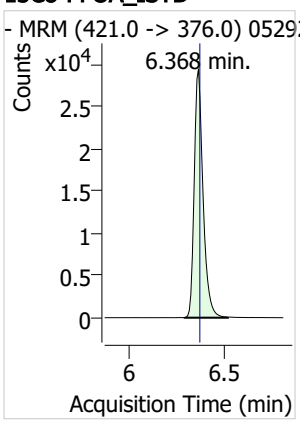
13C3-HFPODA

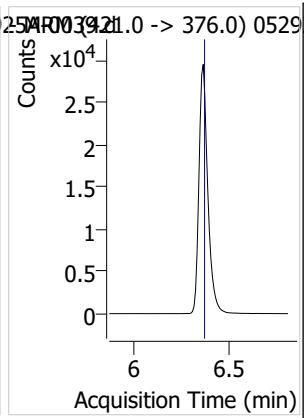


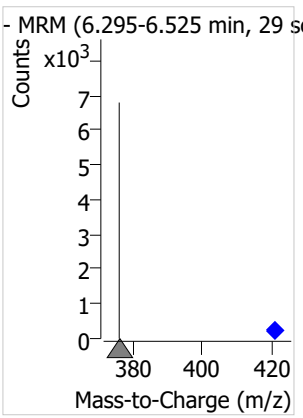
13C8-PFOSA_ISTD



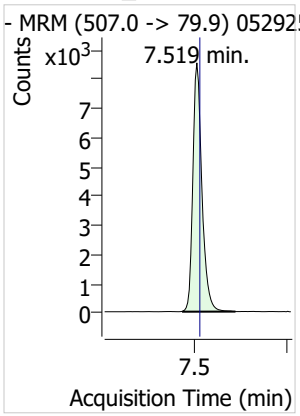
13C8-PFOA_ISTD

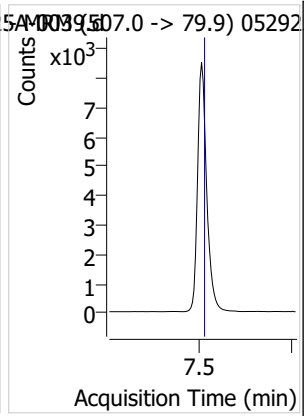


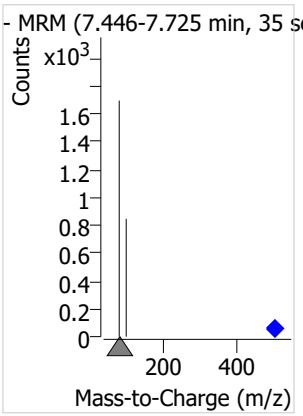




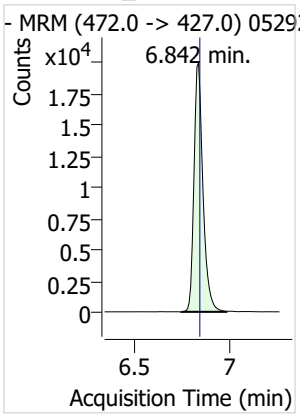
13C8-PFOS_ISTD

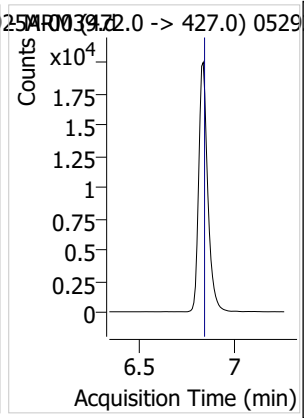


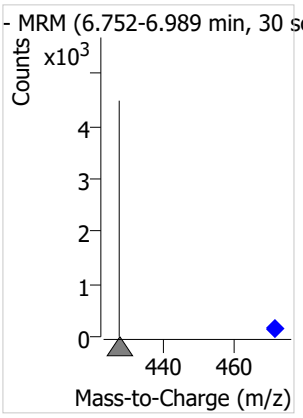




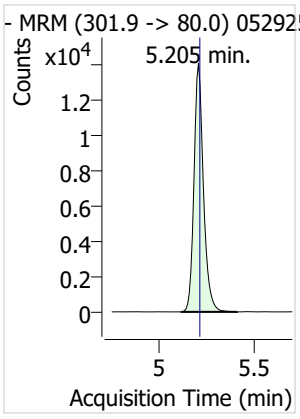
13C9-PFNA_ISTD

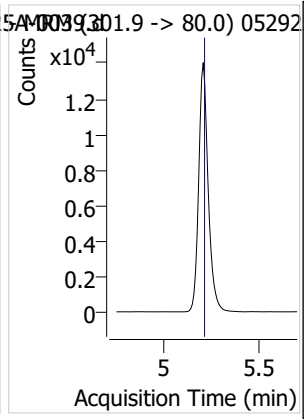


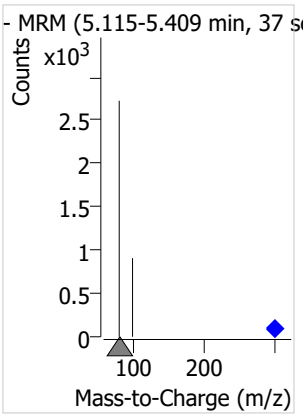




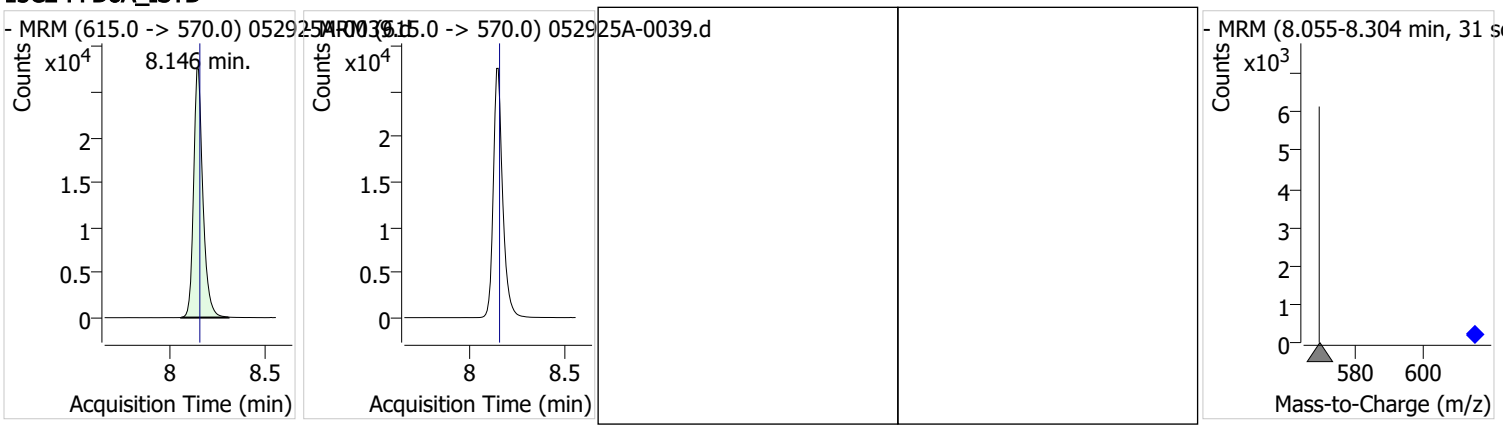
13C3-PFBS







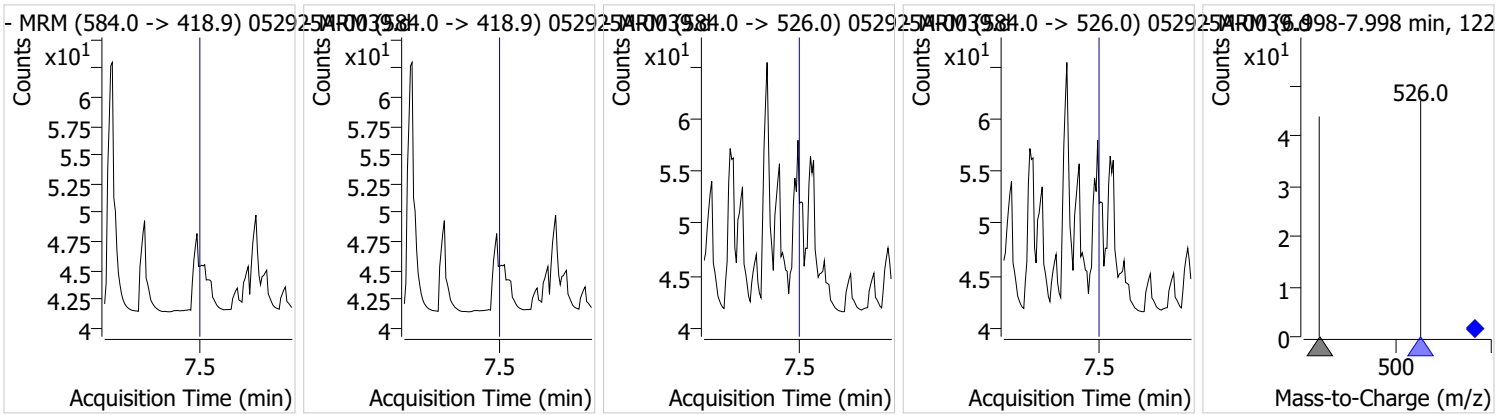
13C2-PFDoA_ISTD



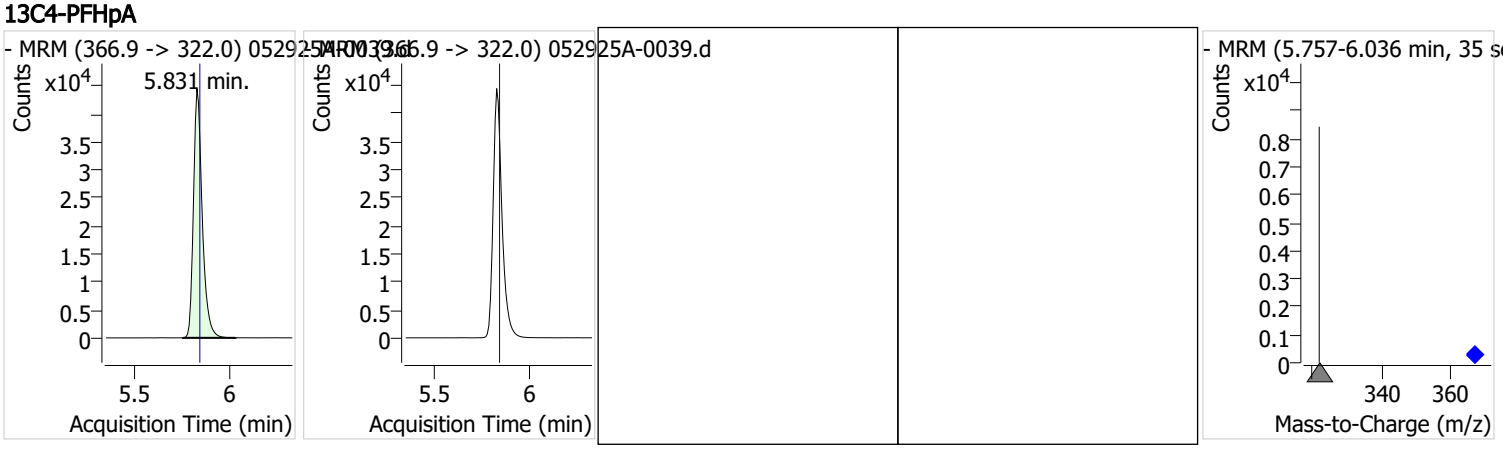
13C3-PFHxS



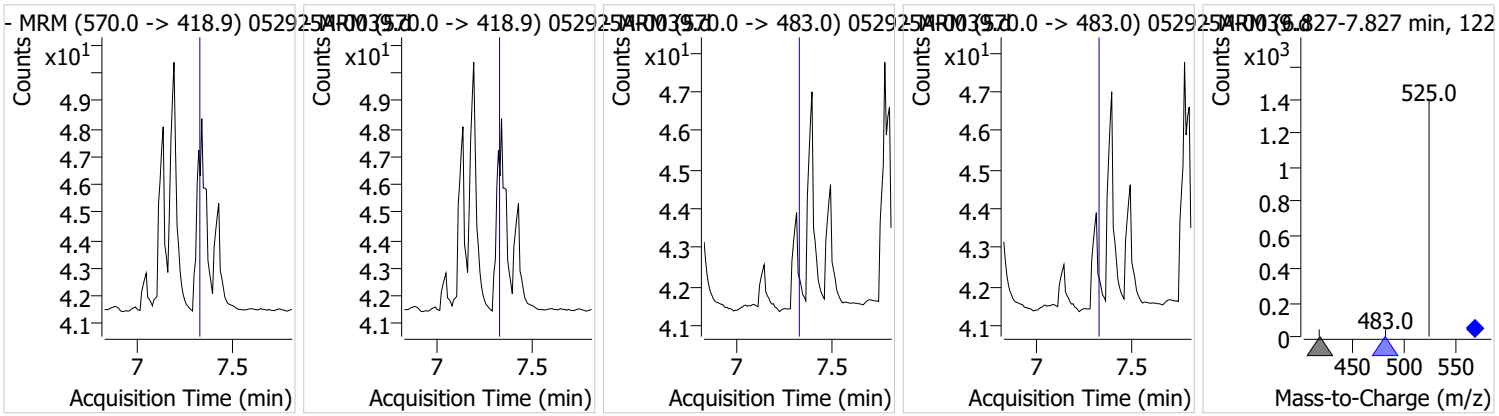
NEtFOSAA



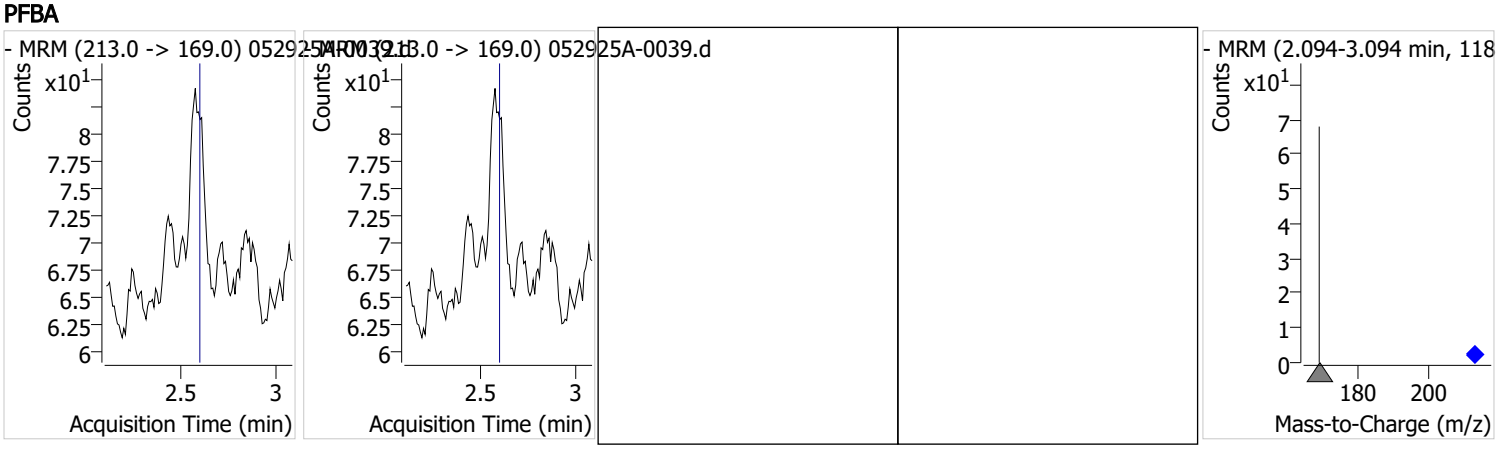
13C4-PFHpA



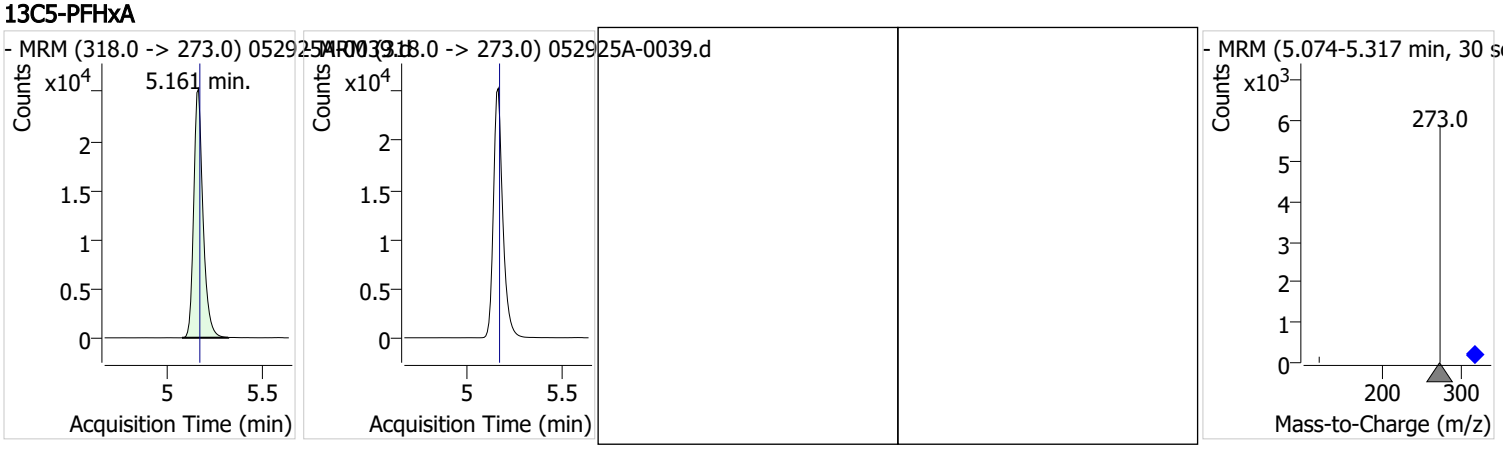
NMeFOSAA



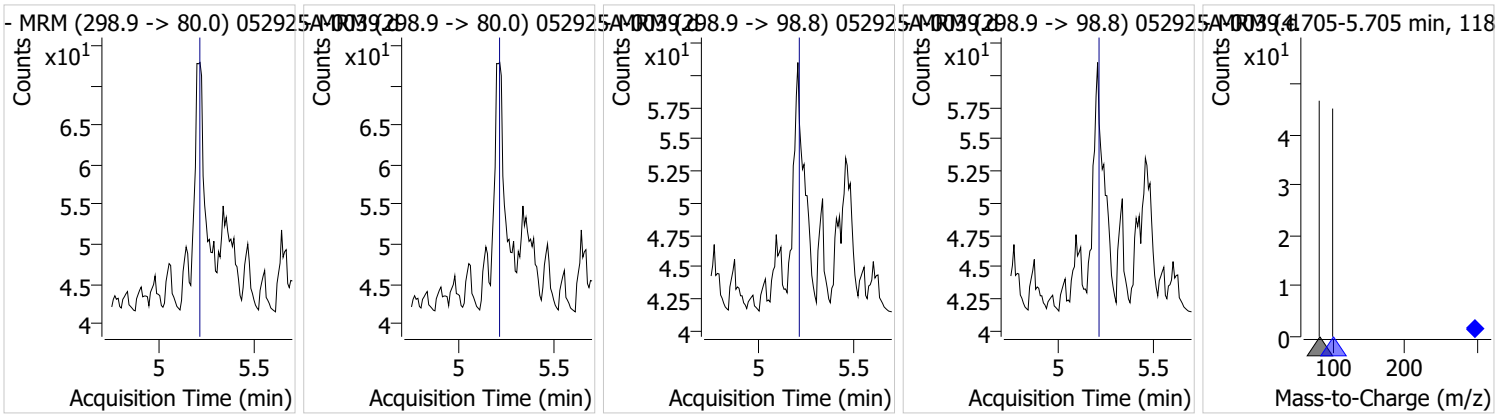
PFBA



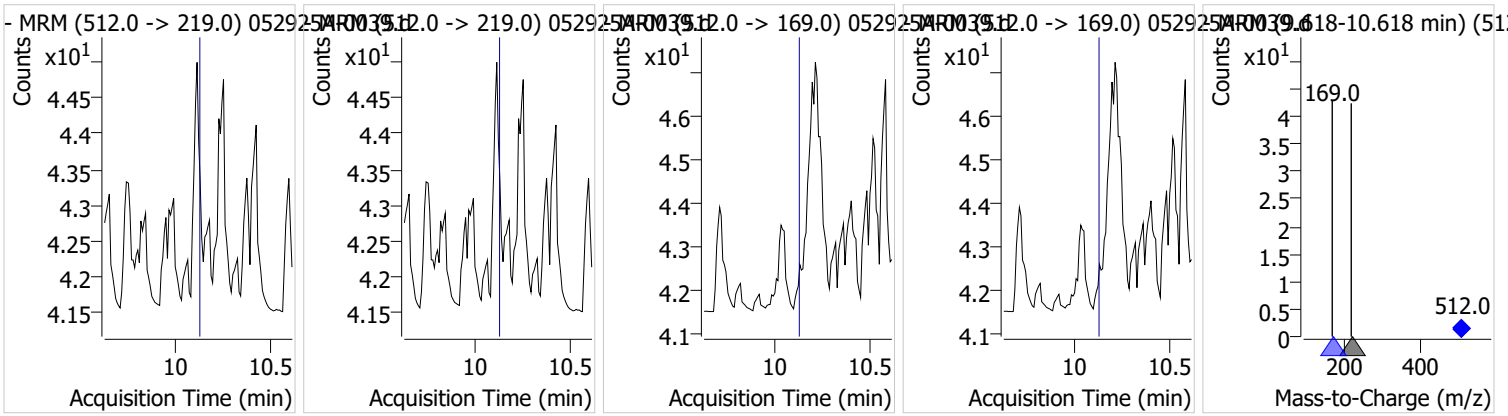
13C5-PFHxA



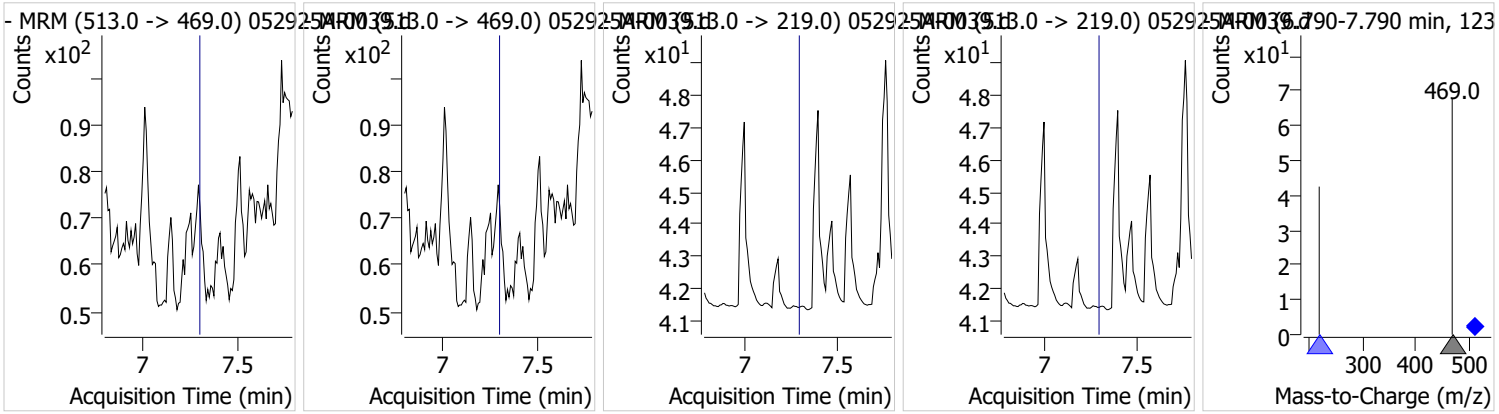
PFBS



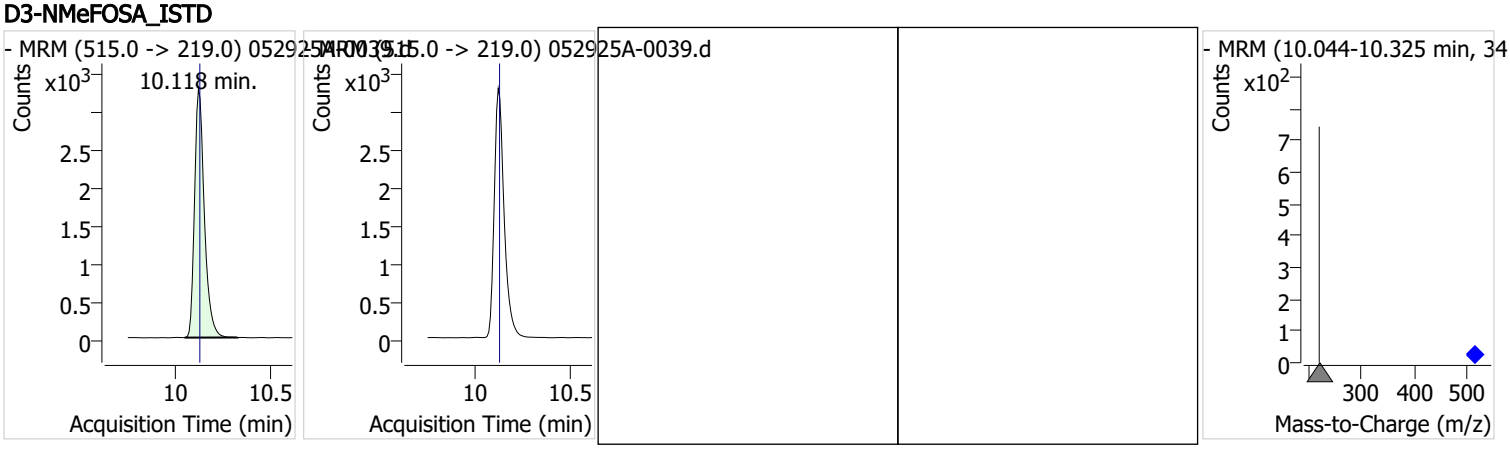
NMeFOSA



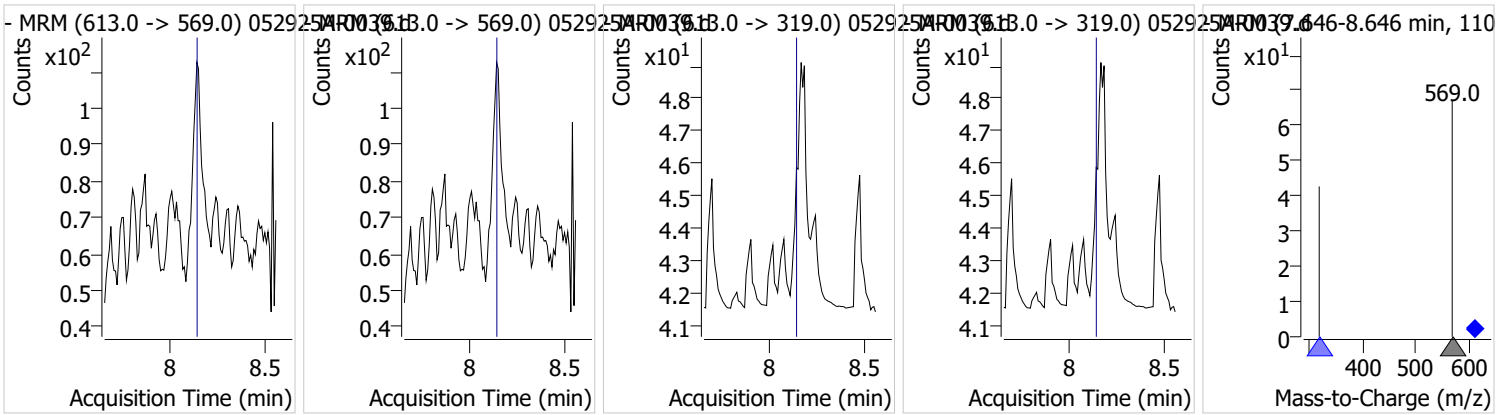
PFDA



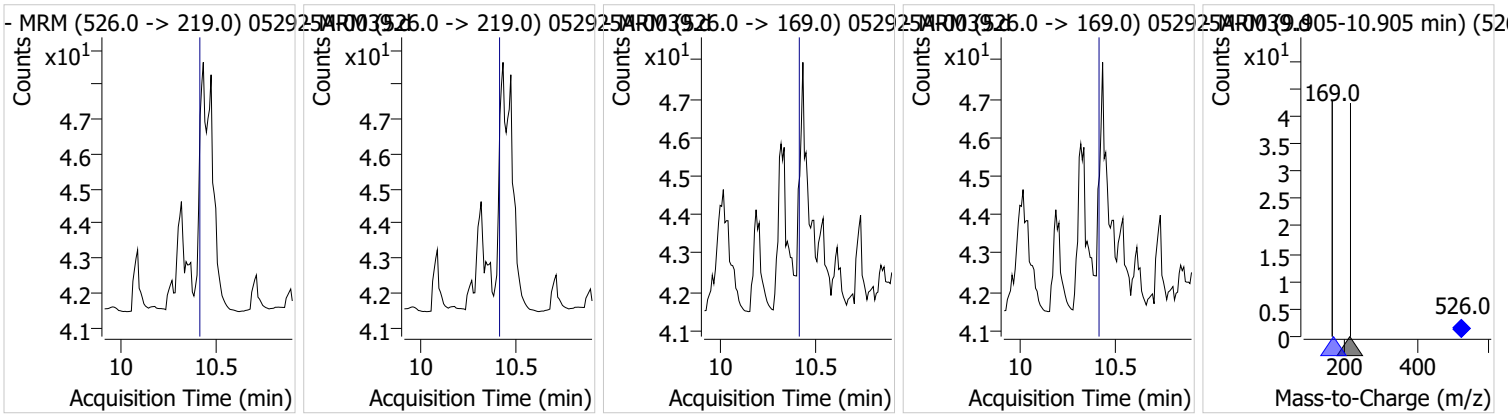
D3-NMeFOSA_ISTD



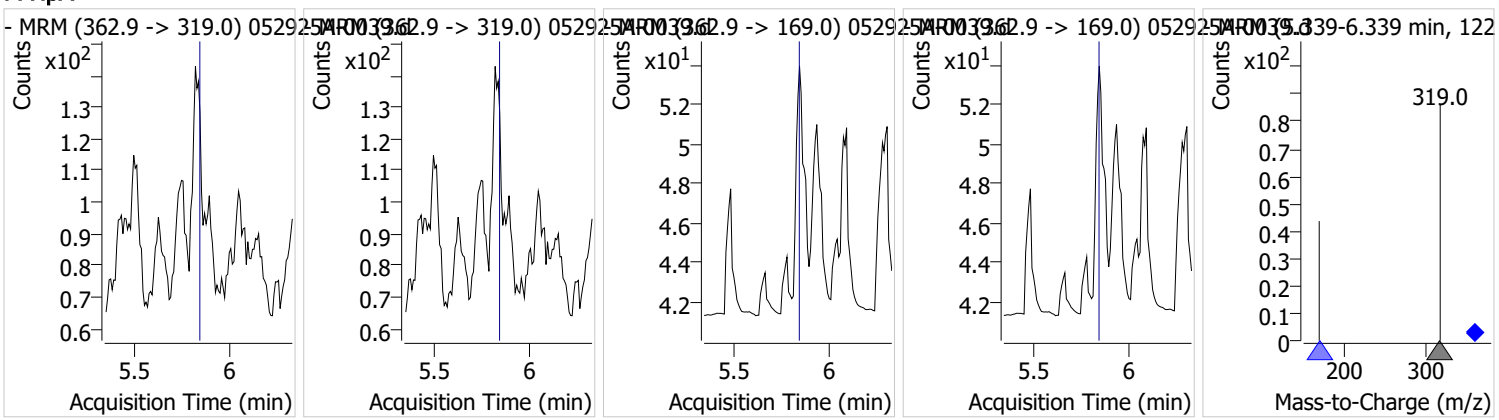
PFDoA



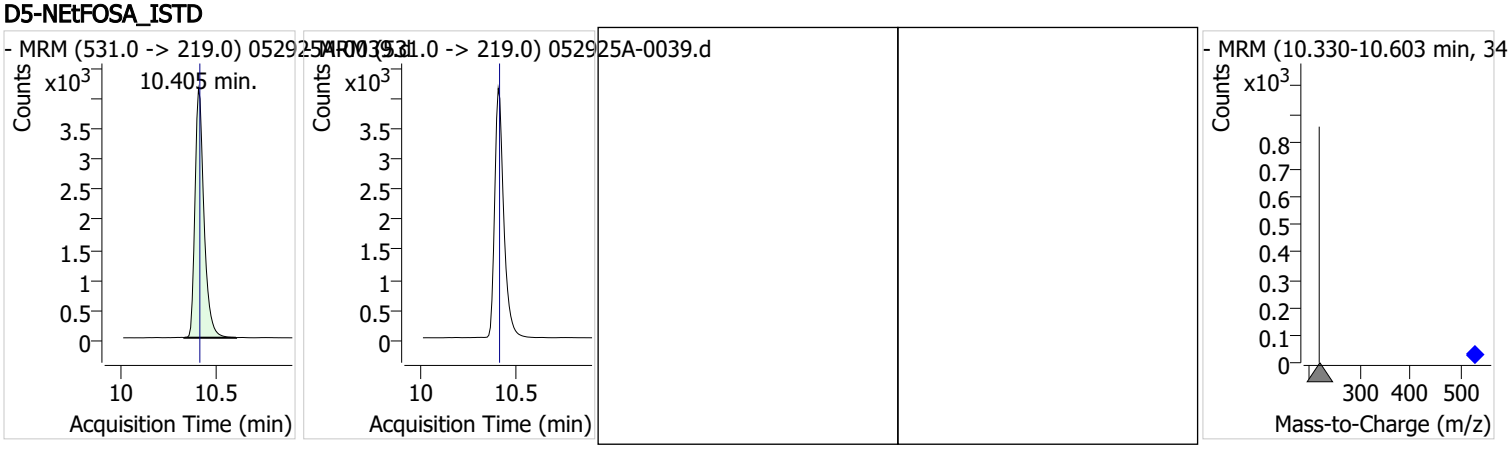
NEtFOSA



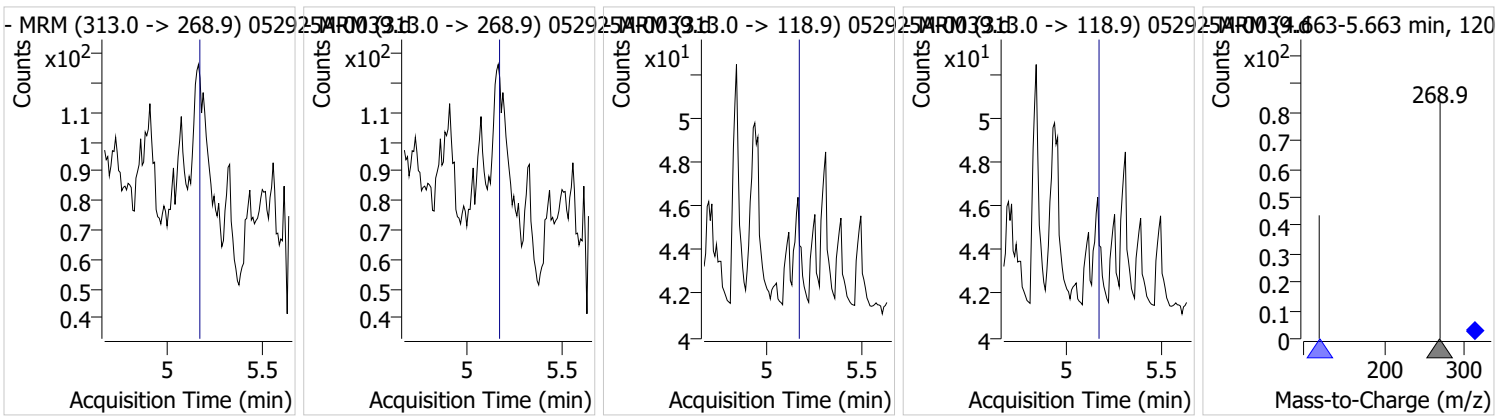
PFHpA



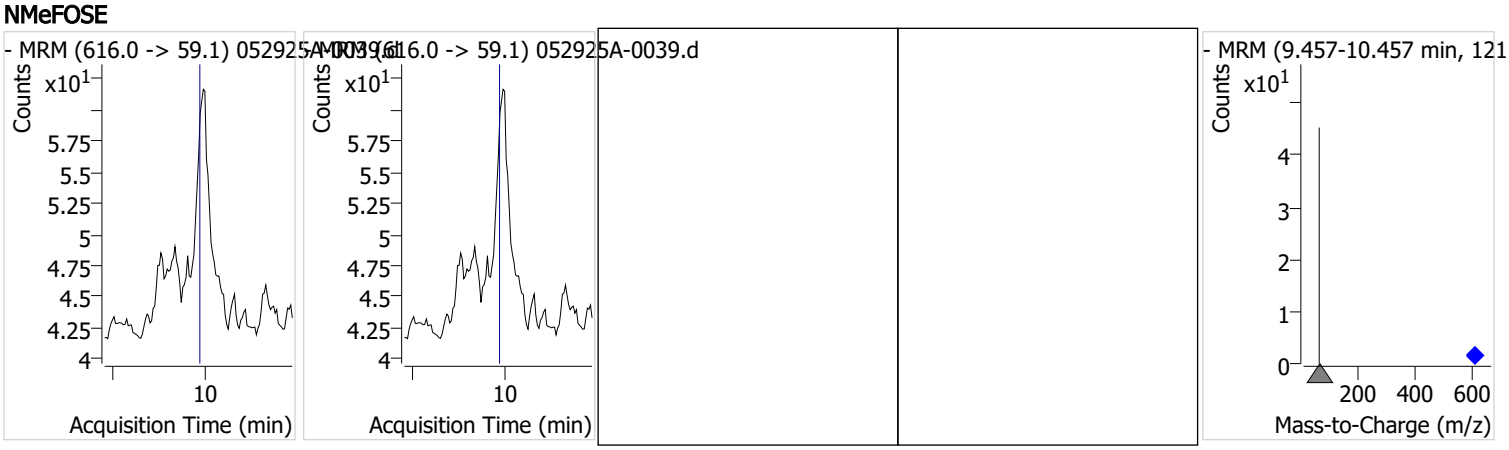
D5-NEtFOSA_ISTD



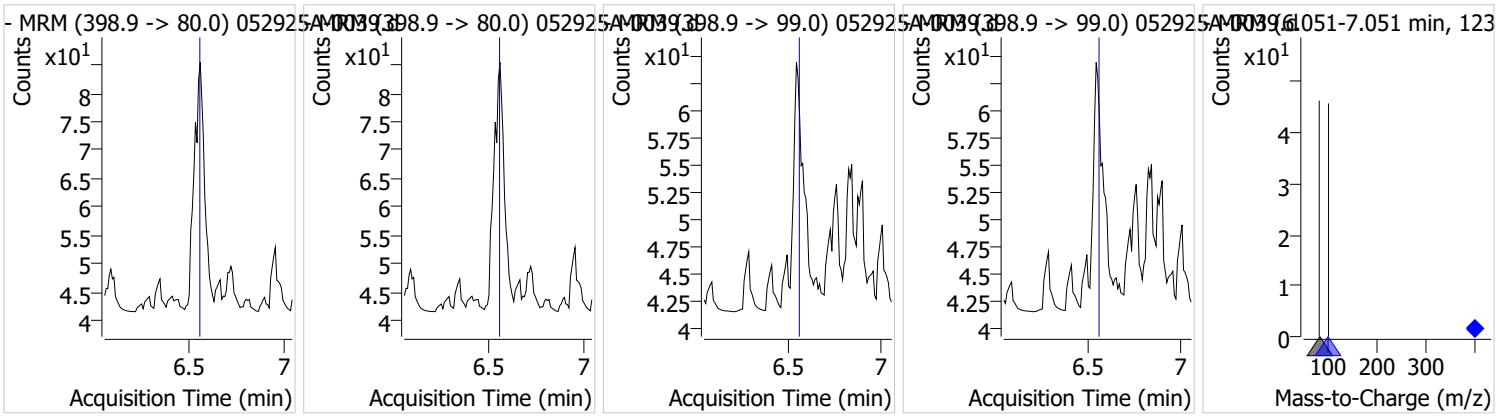
PFHxA



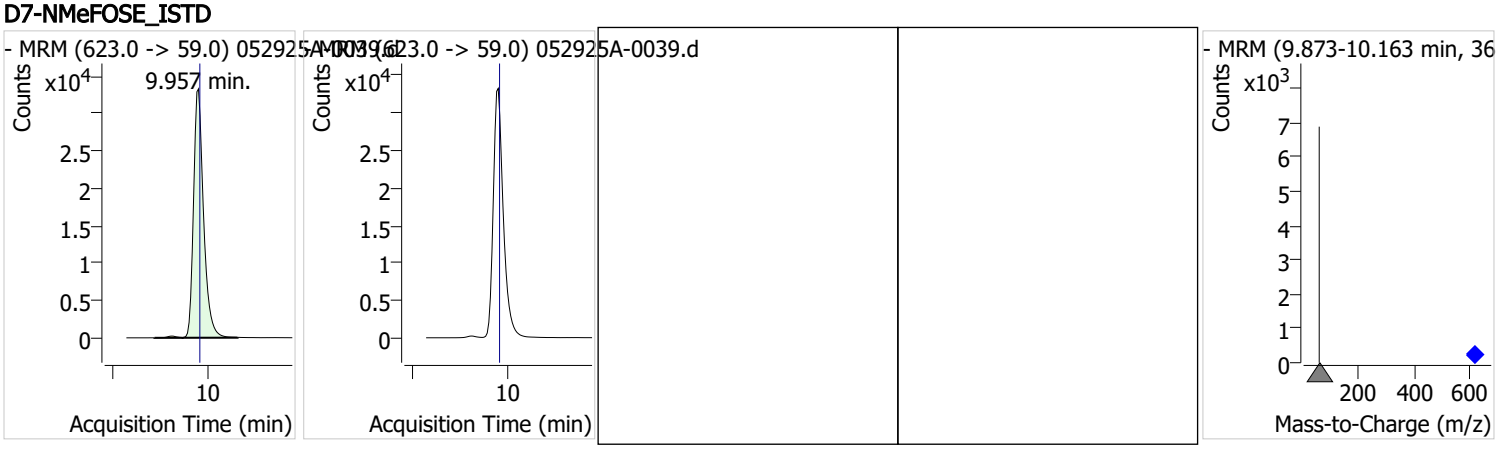
NMeFOSE



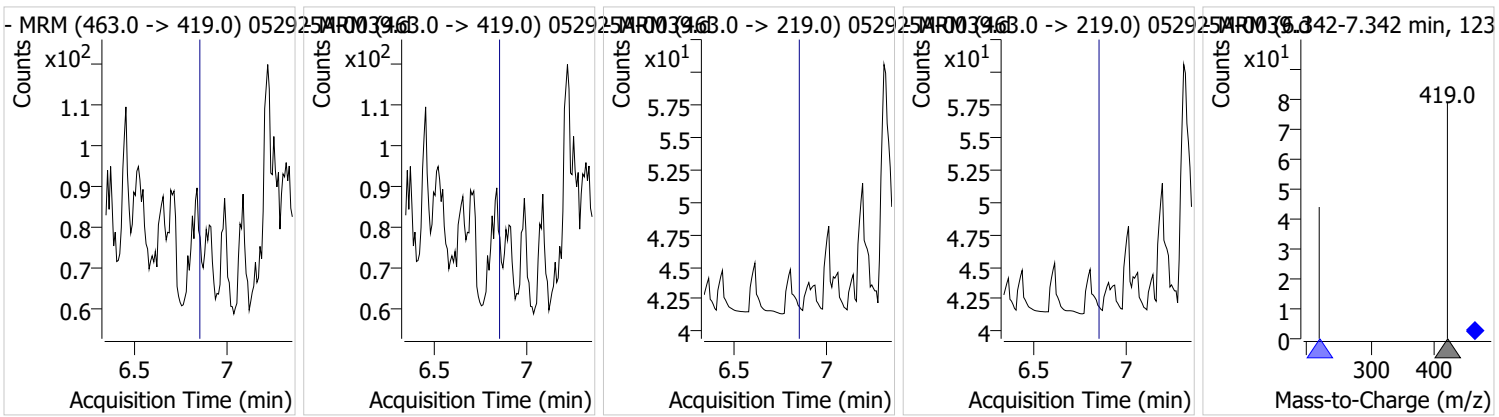
PFHxS



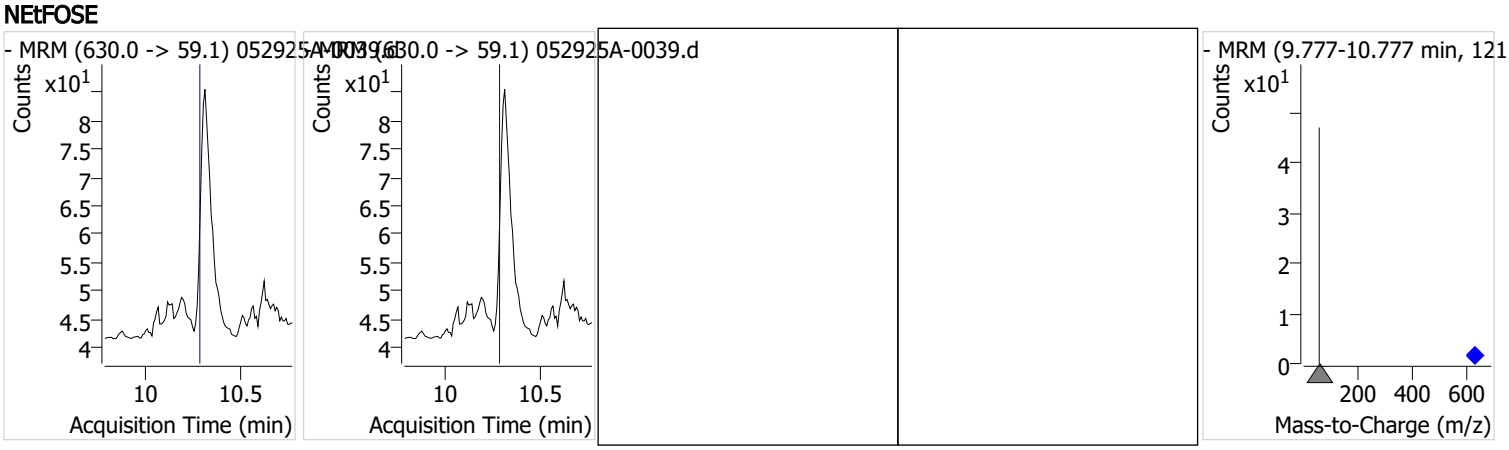
D7-NMeFOSE_ISTD



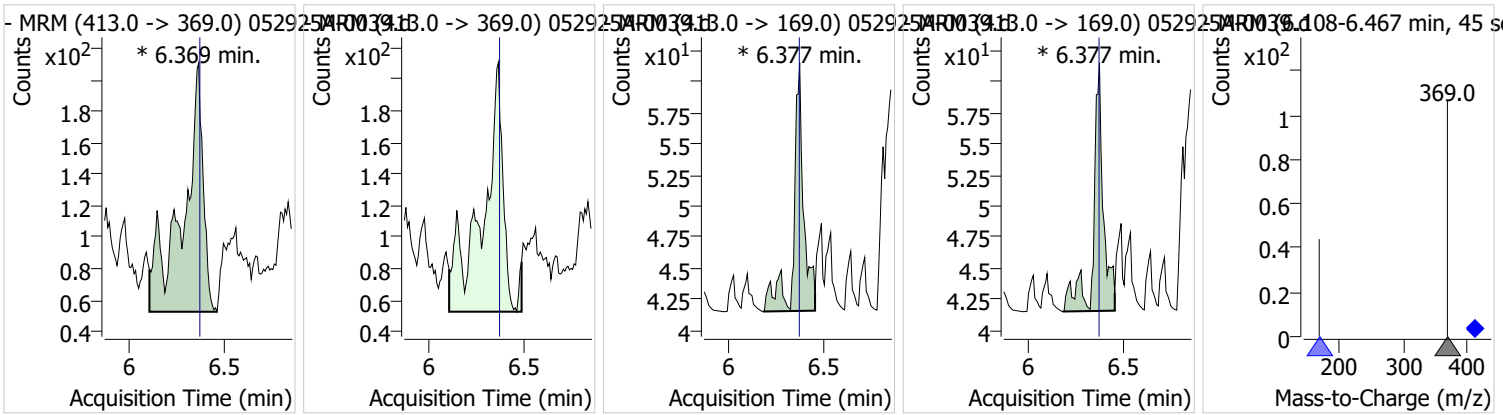
PFNA



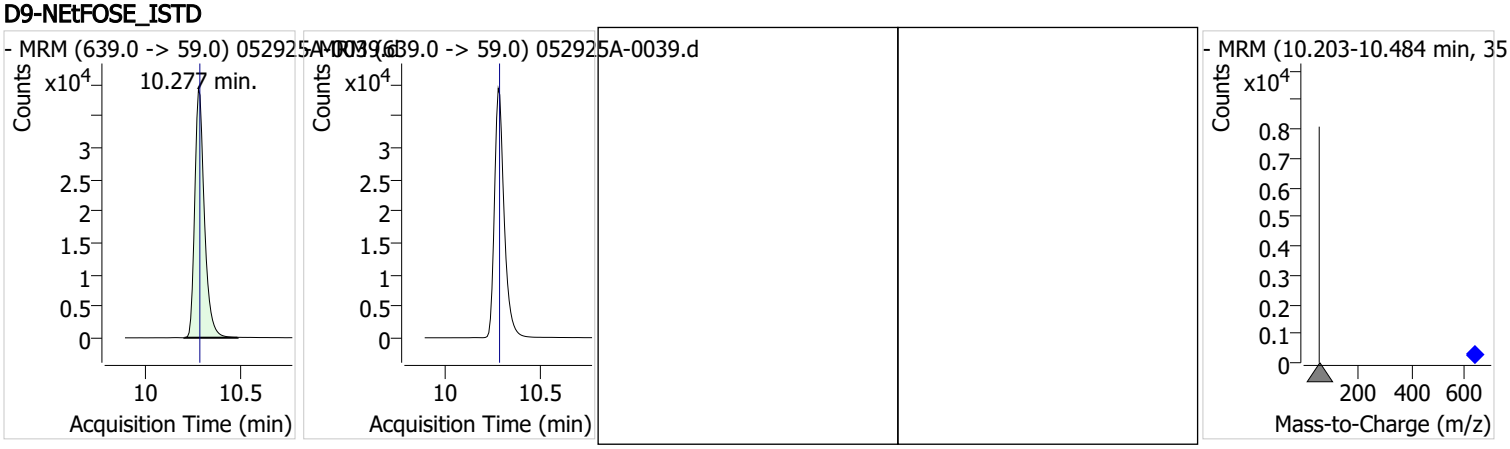
NEtFOSE



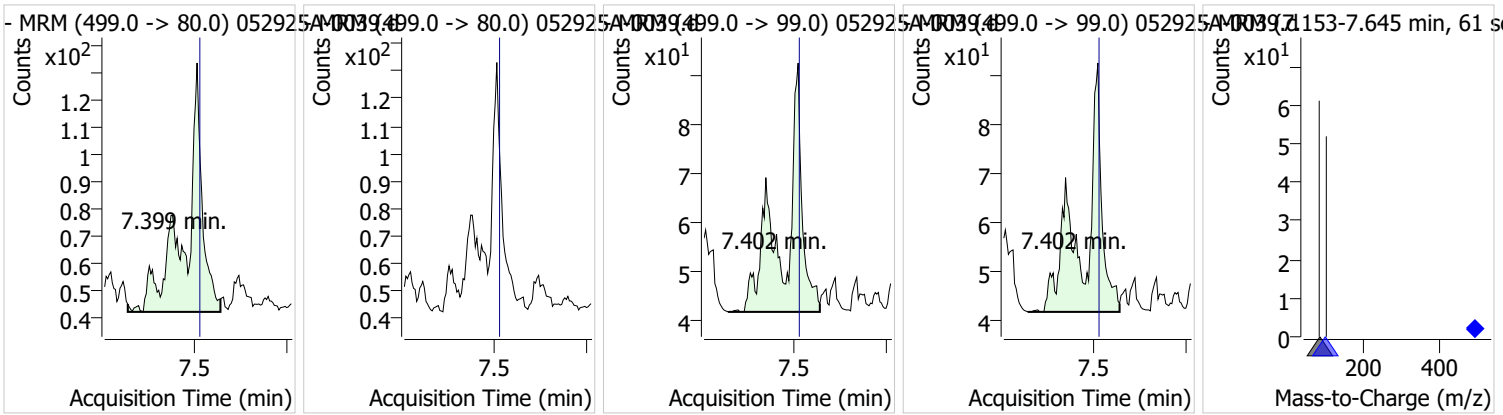
PFOA



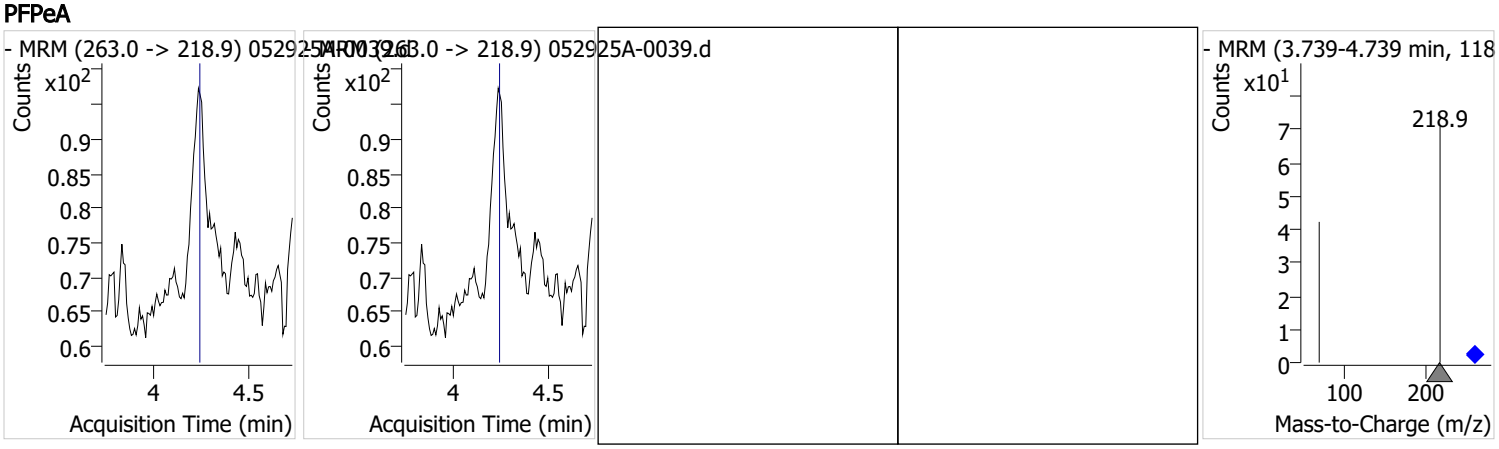
D9-NEtFOSE_ISTD



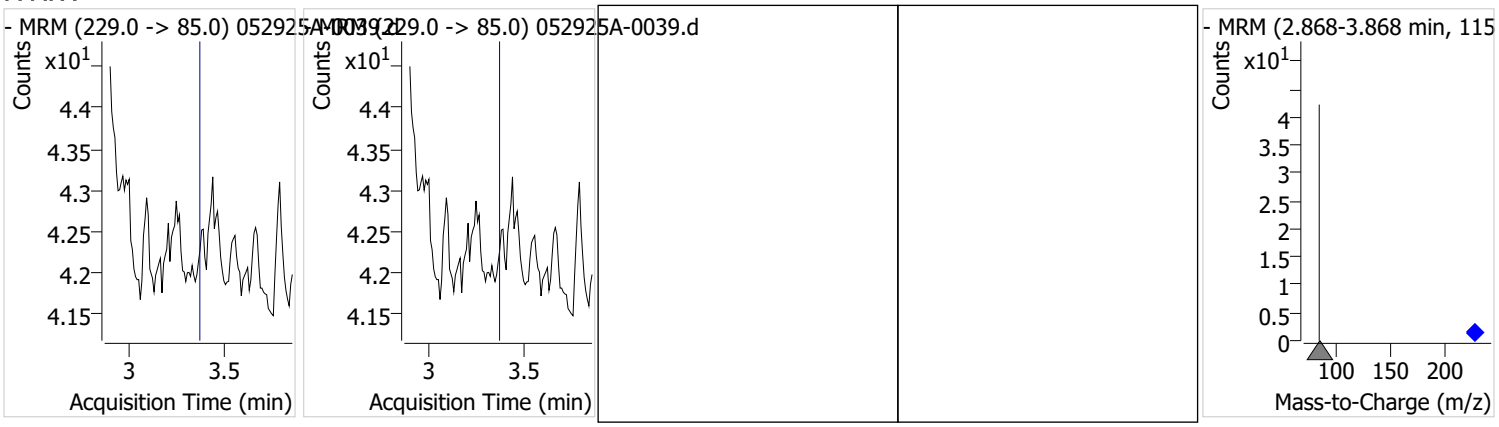
PFOS



PFPeA



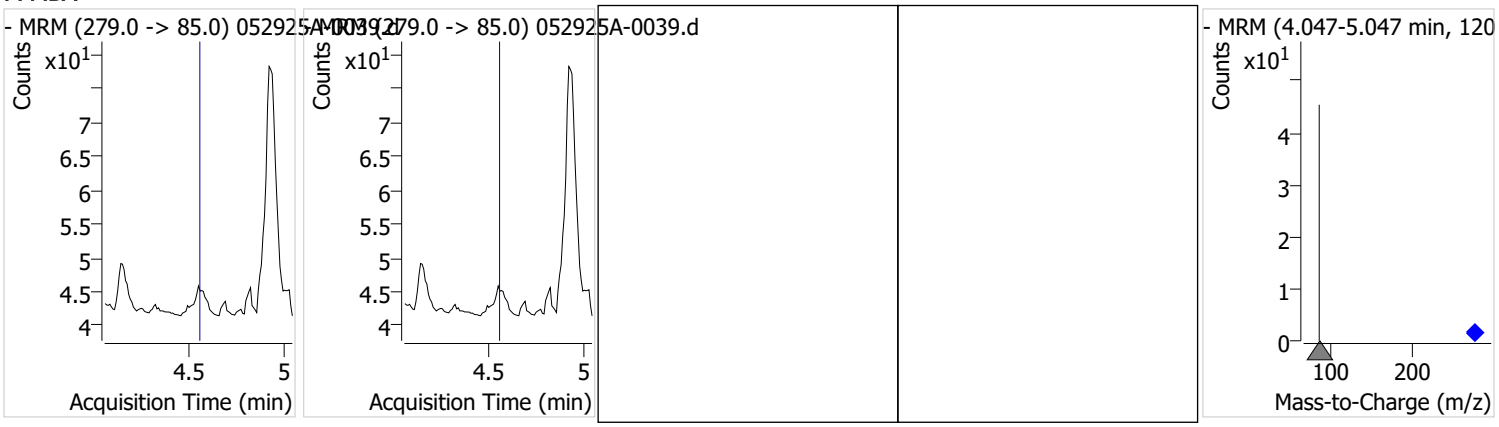
PFMPA



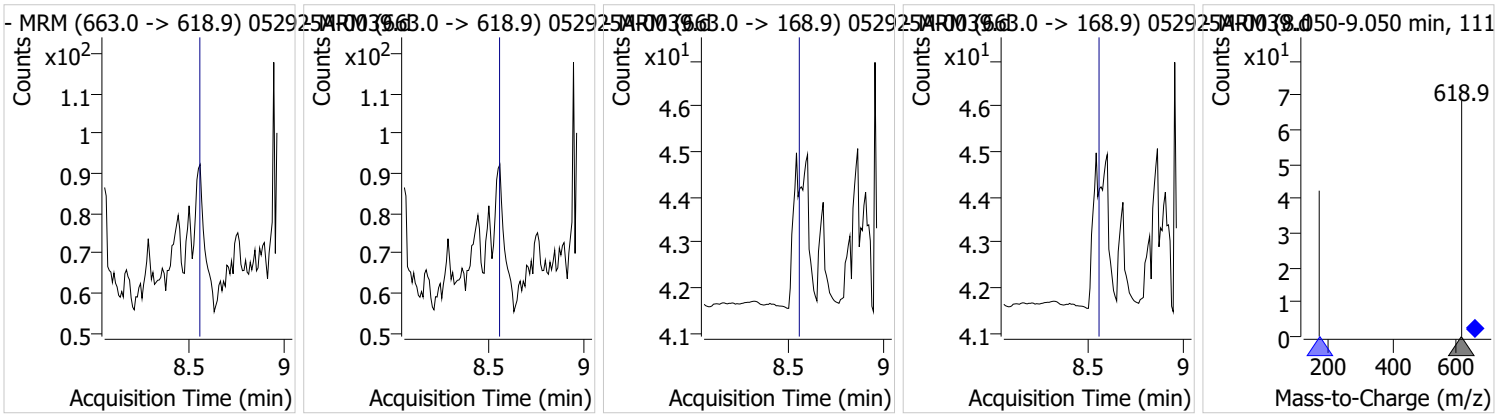
13C5-PFPeA



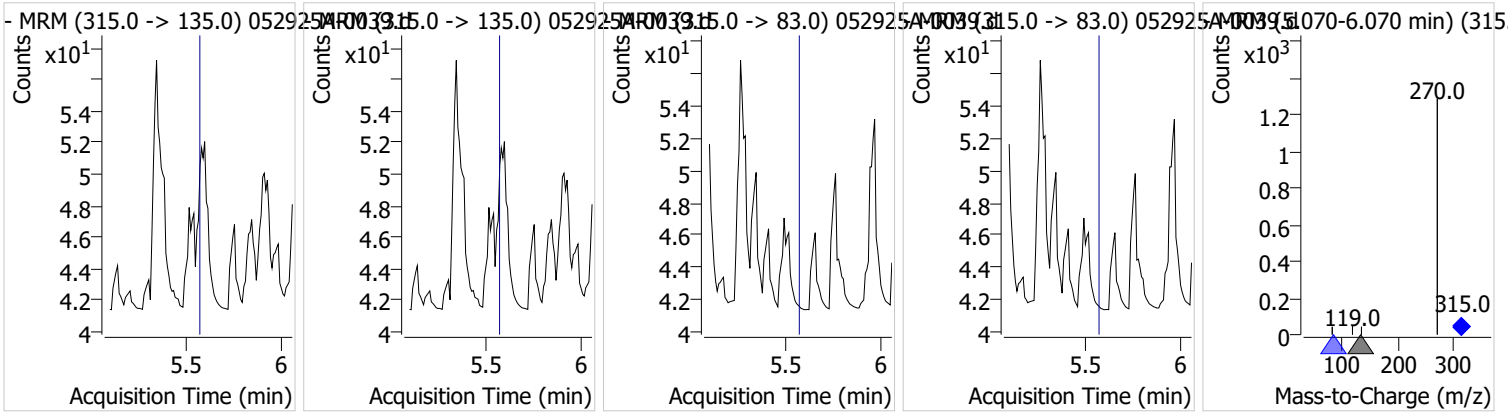
PFMBA



PFTrDA



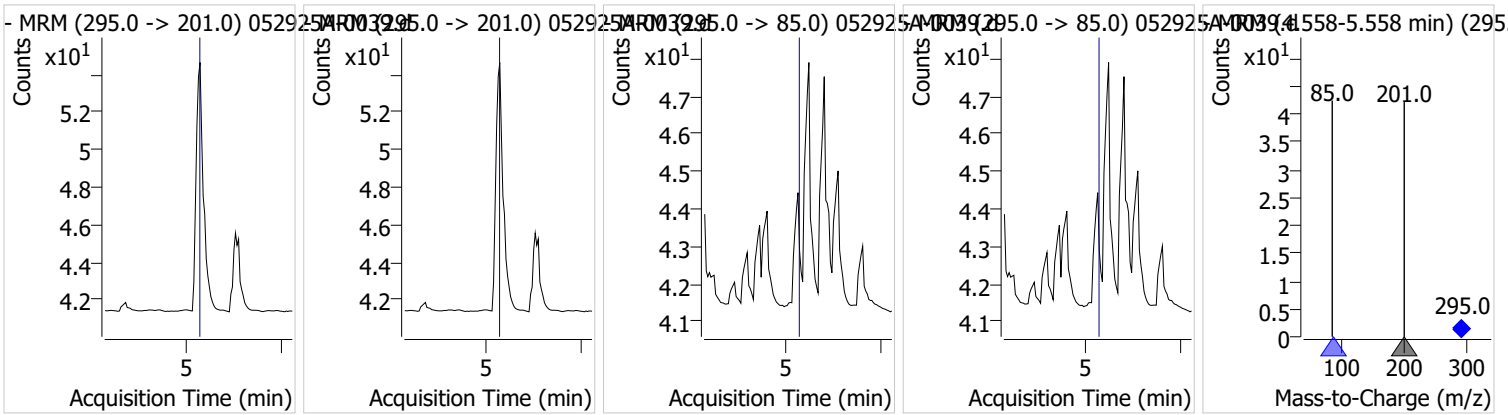
PFEESA



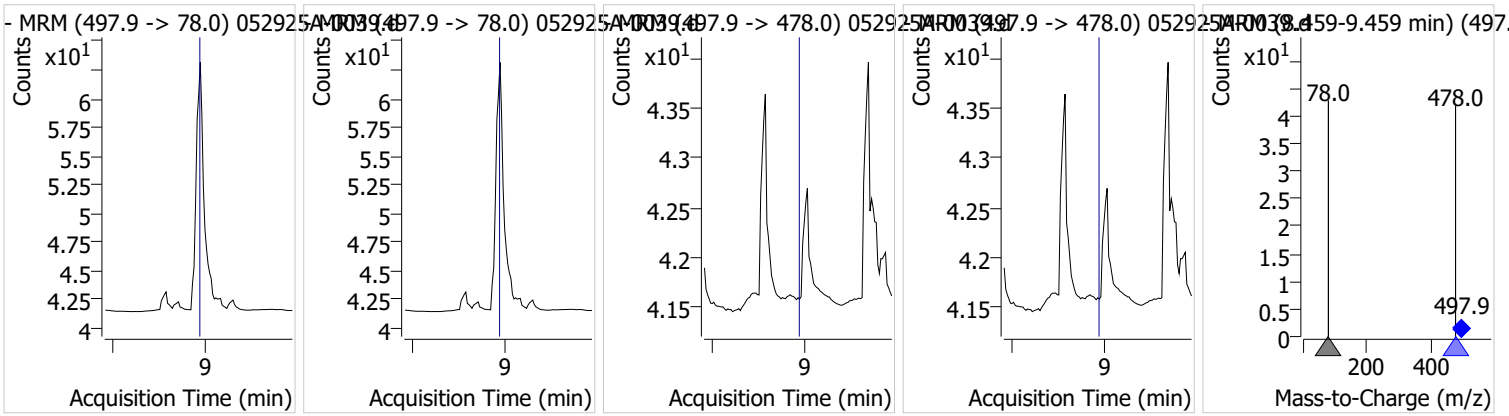
13C6-PFDA



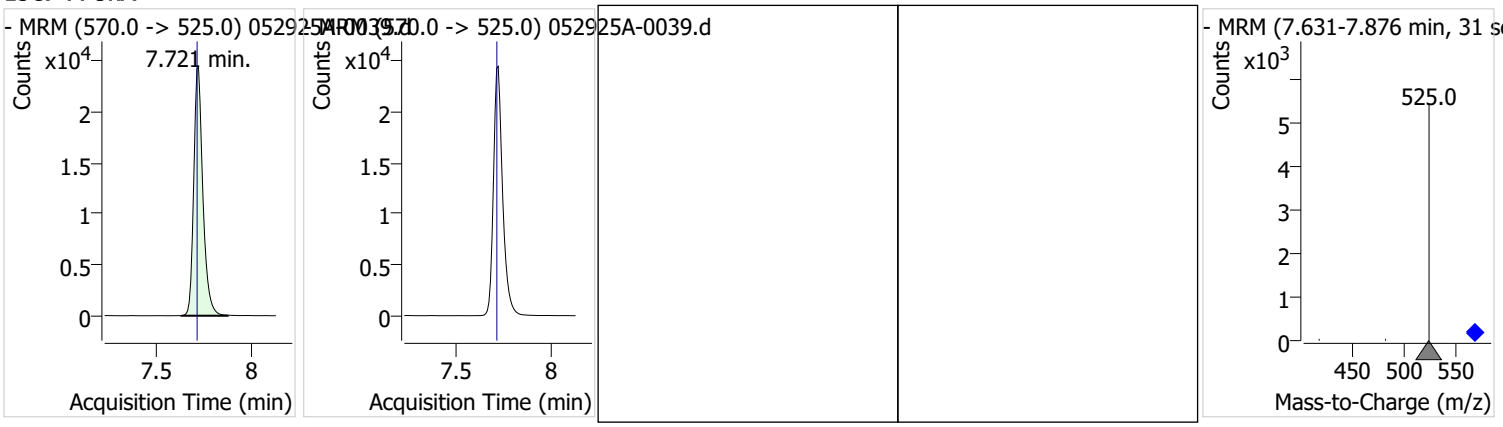
NFDHA



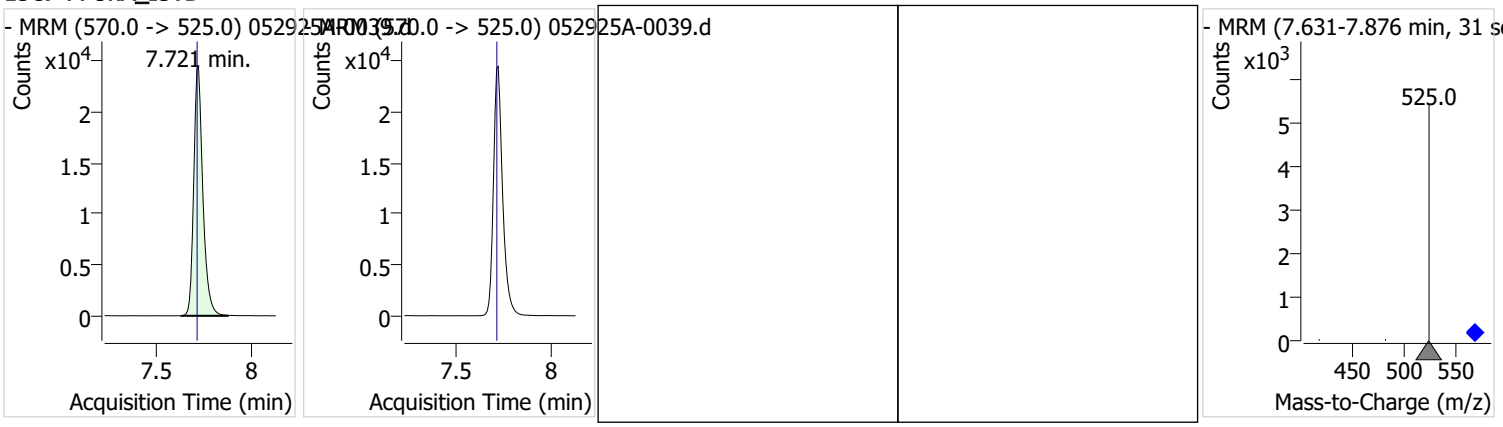
PFOSA



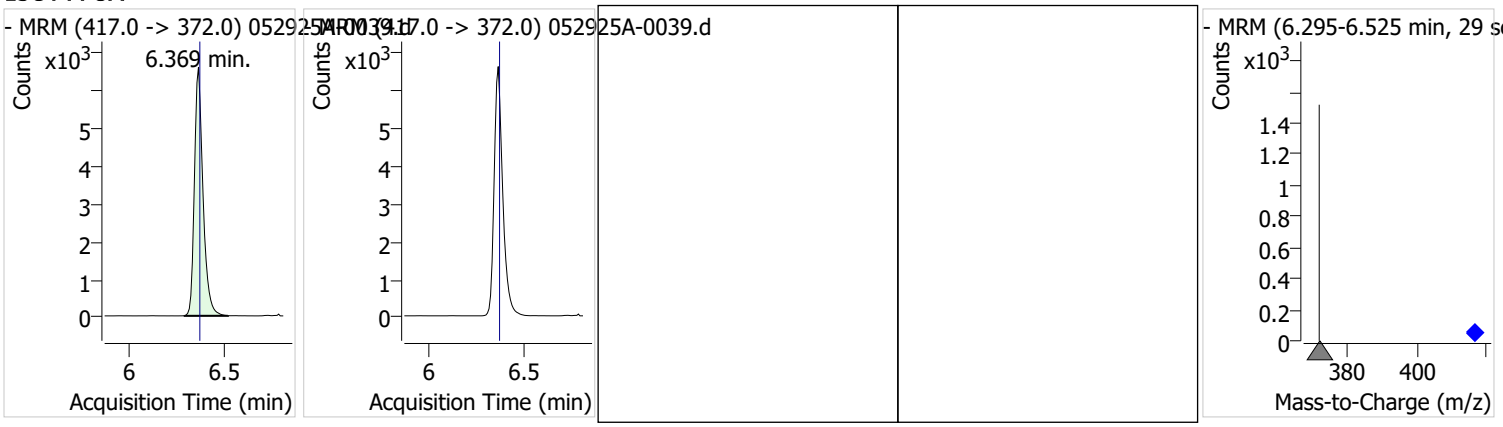
13C7-PFUnA



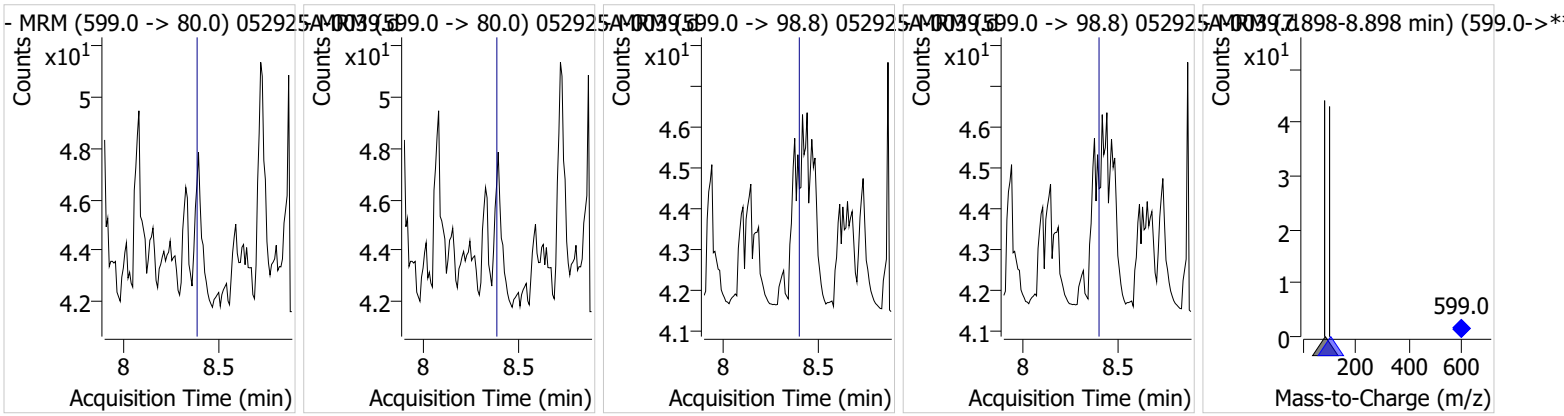
13C7-PFUnA_ISTD



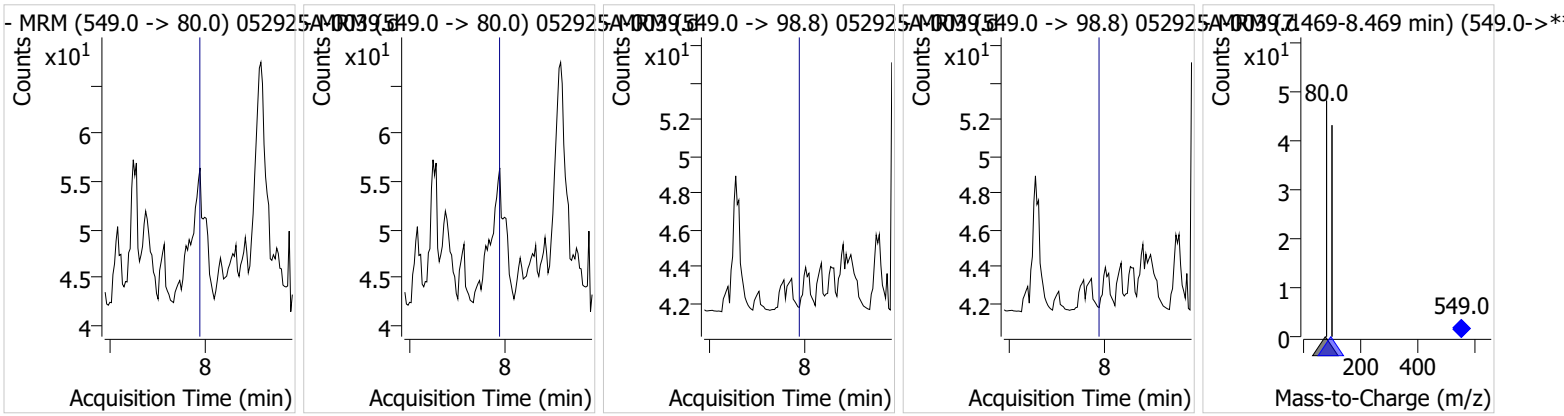
13C4-PFOA



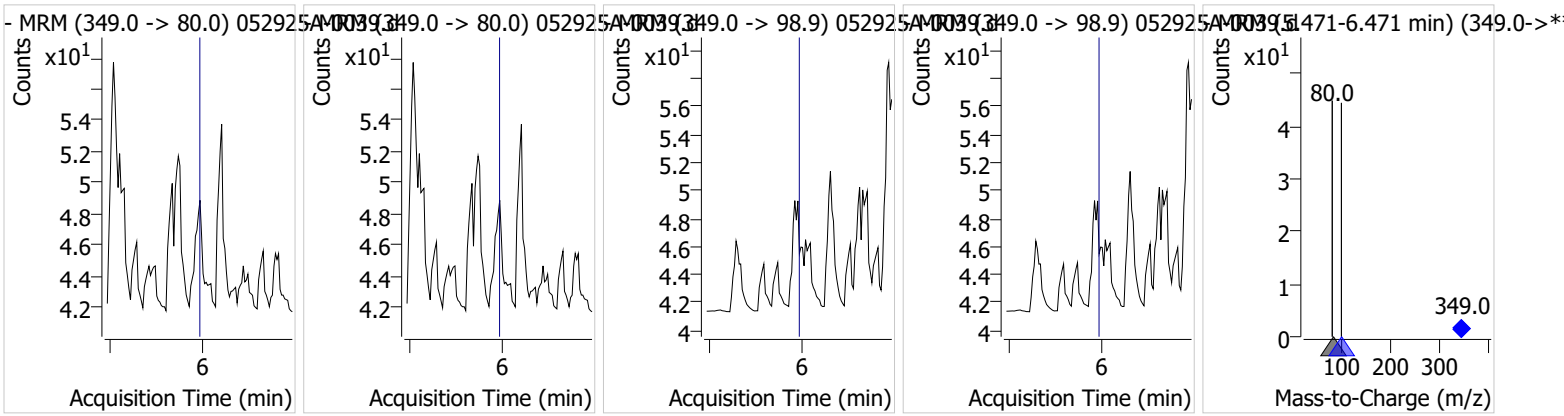
PFDS



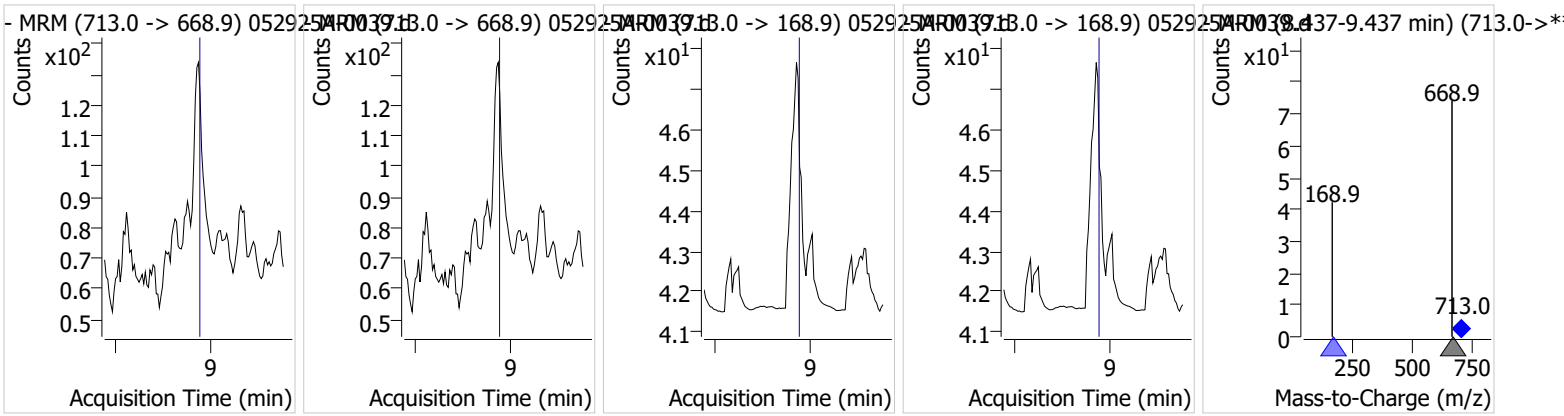
PFNS



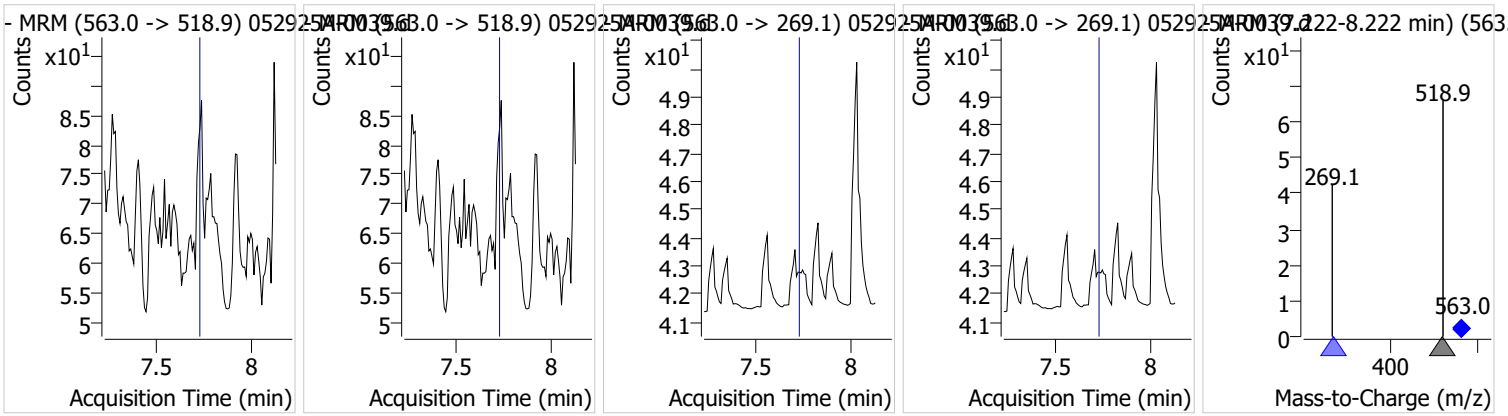
PFPeS



PFTeDA



PFUnA



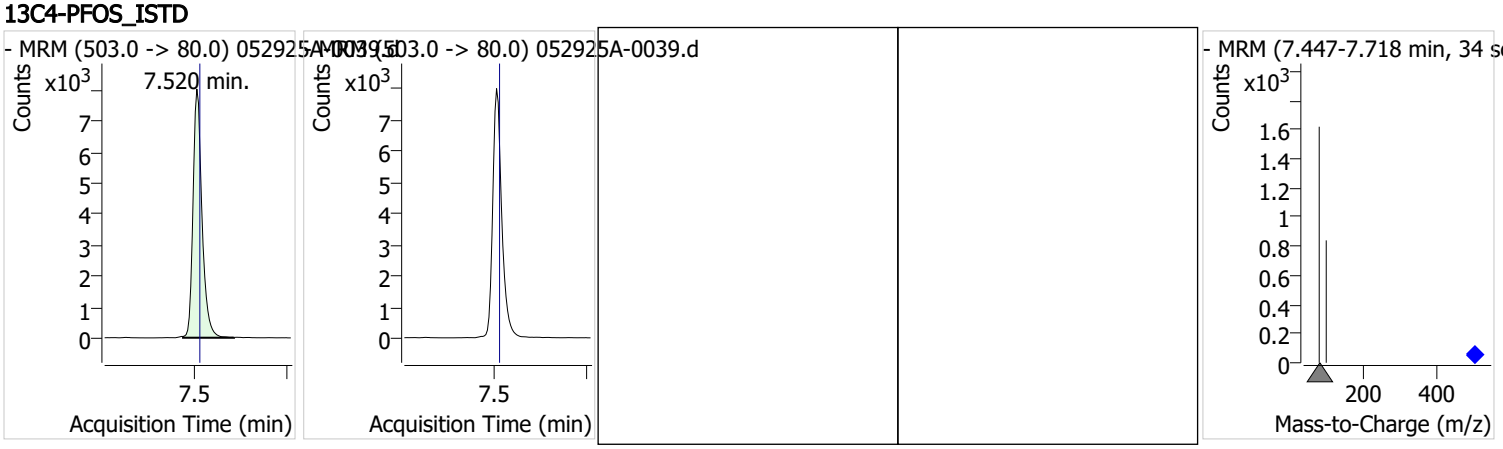
13C2-PFDA_ISTD



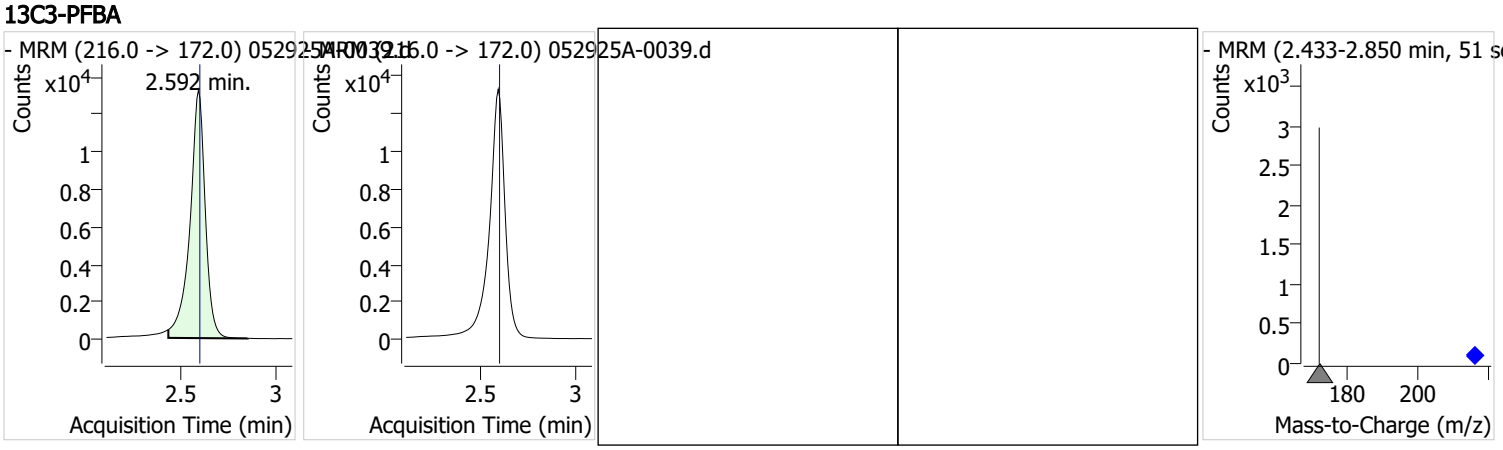
13C2-PFHxA_ISTD



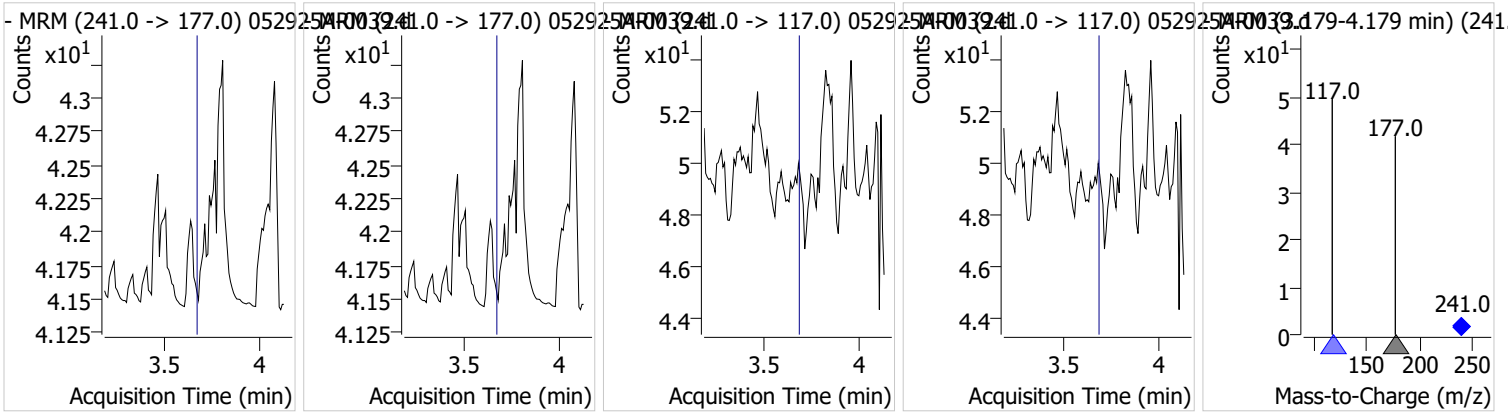
13C4-PFOS_ISTD



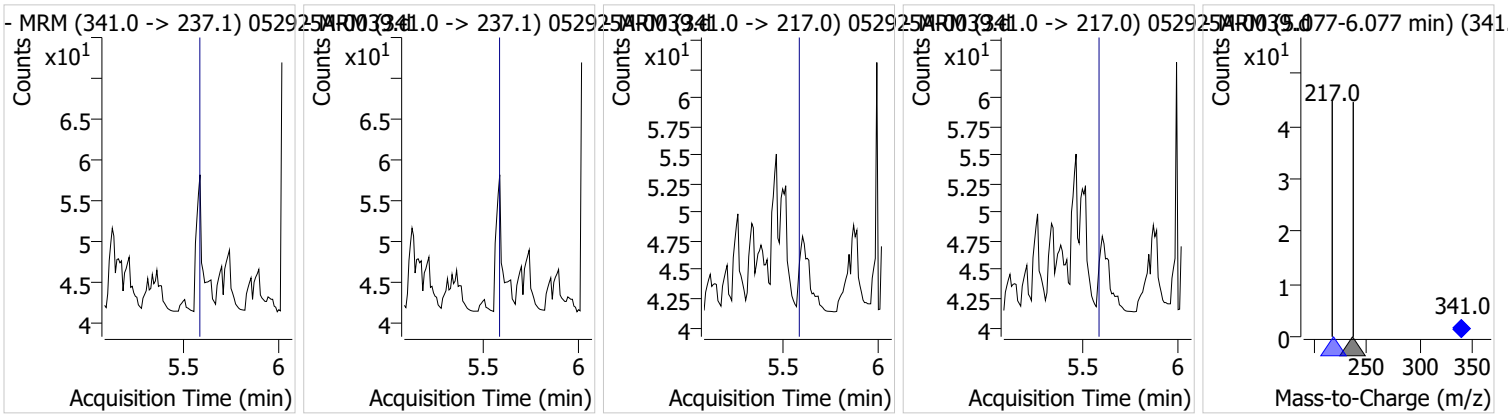
13C3-PFBA



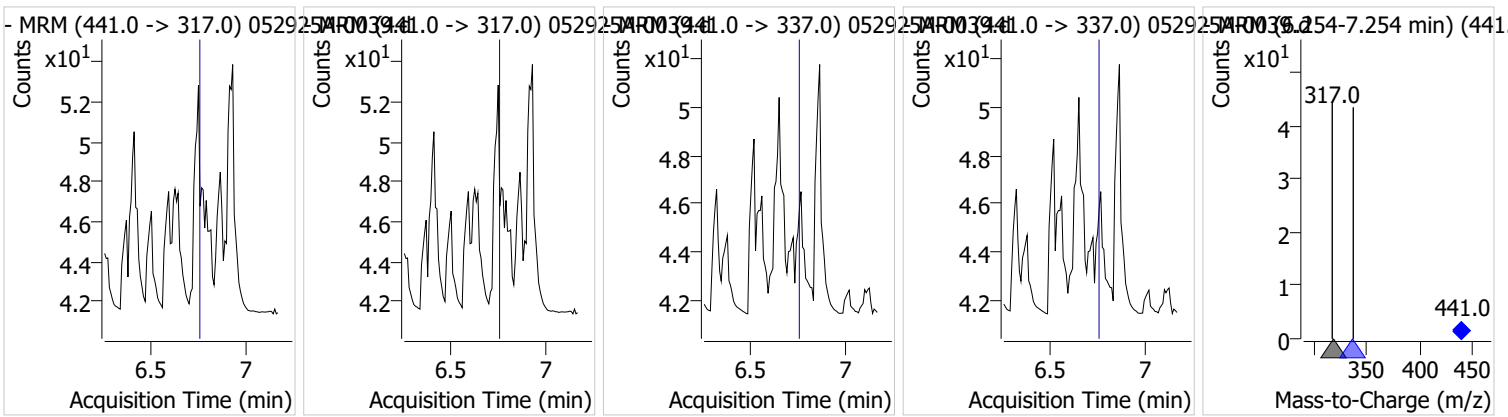
3:3FTCA



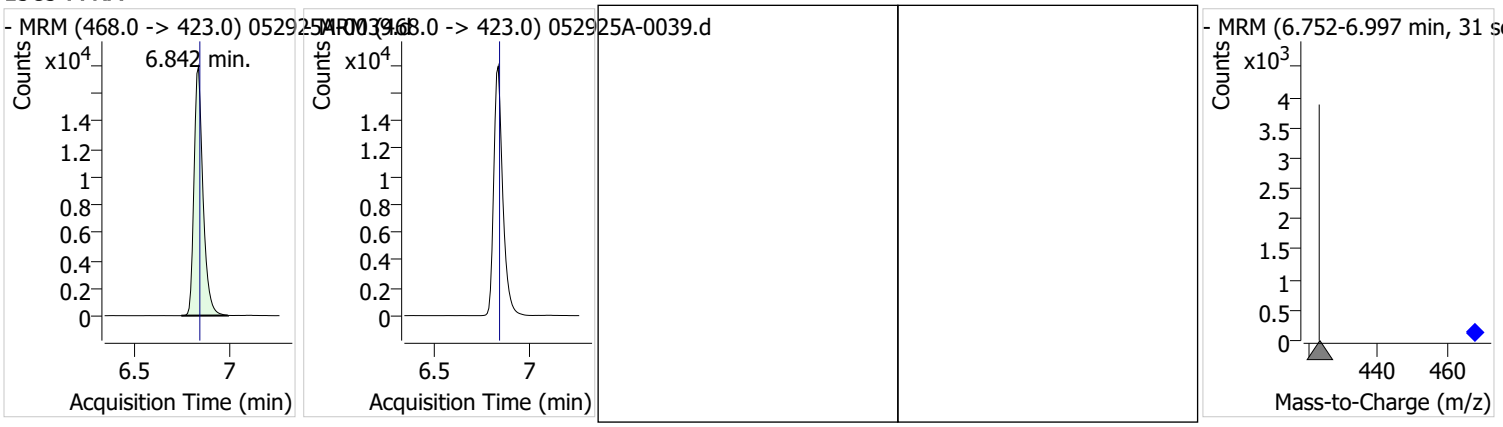
5:3FTCA



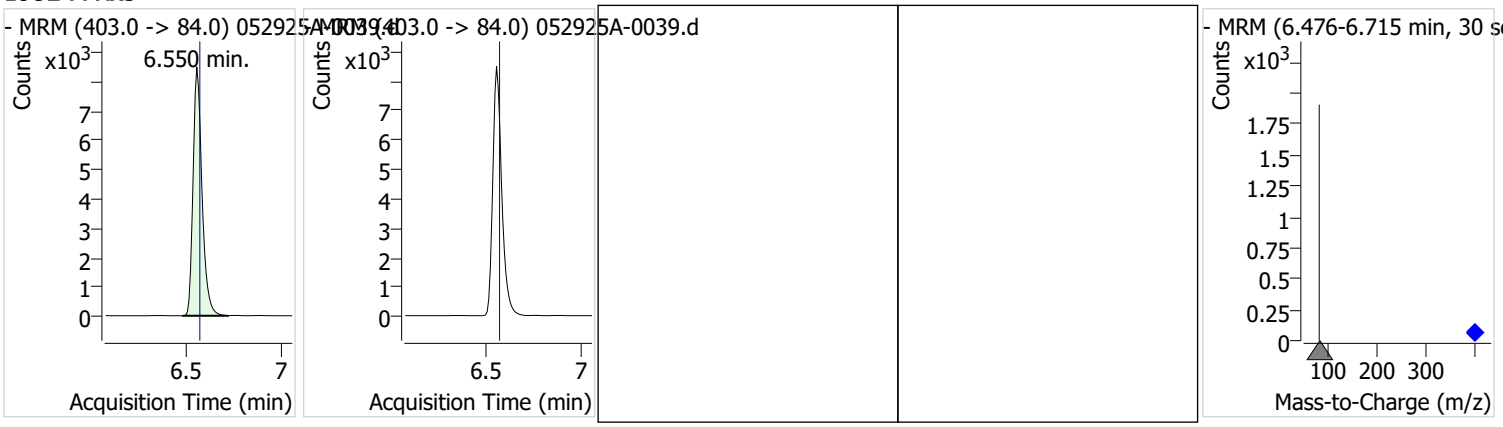
7:3FTCA



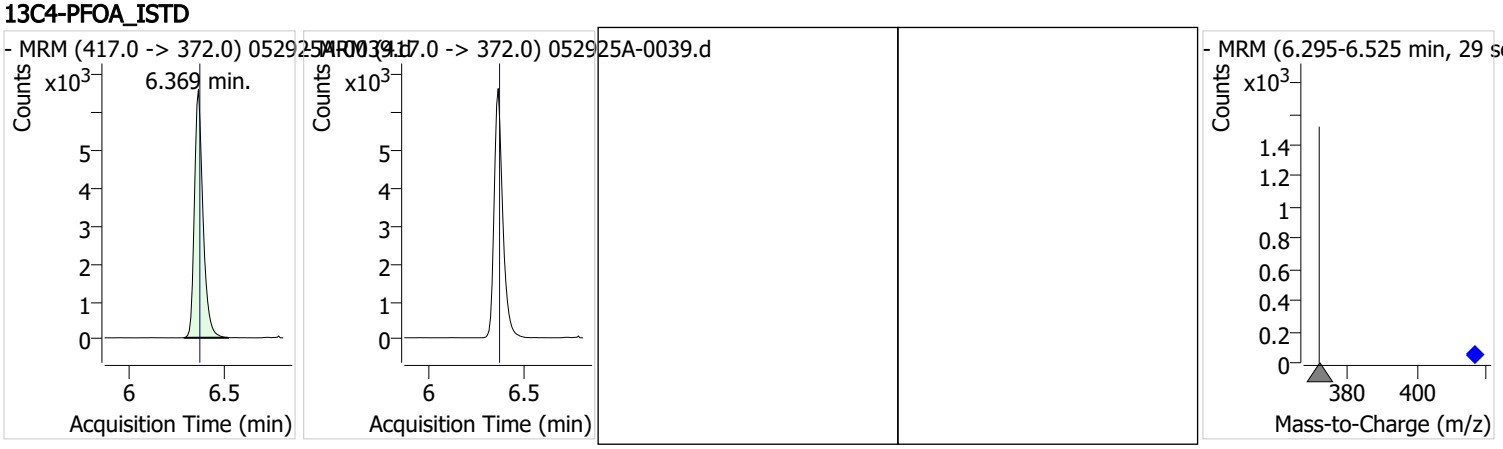
13C5-PFNA



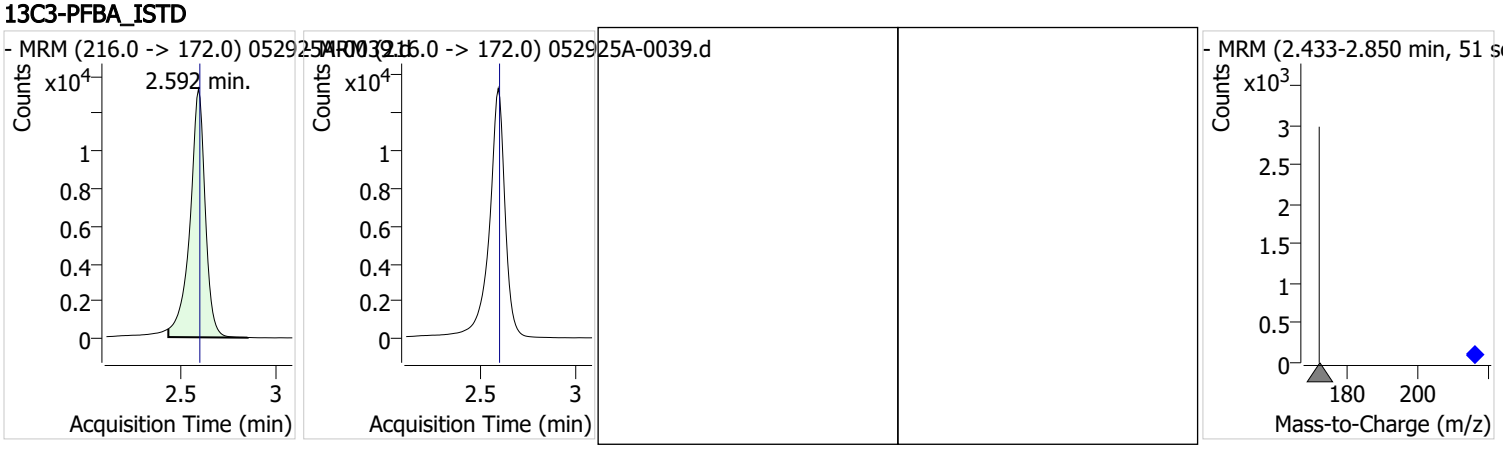
18O2-PFHxS



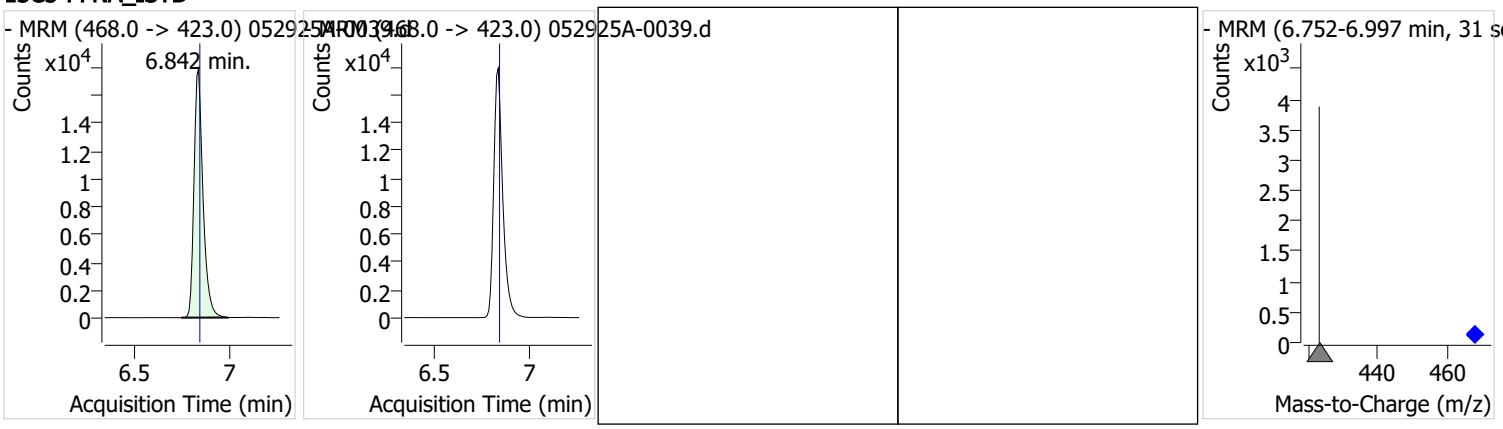
13C4-PFOA_ISTD



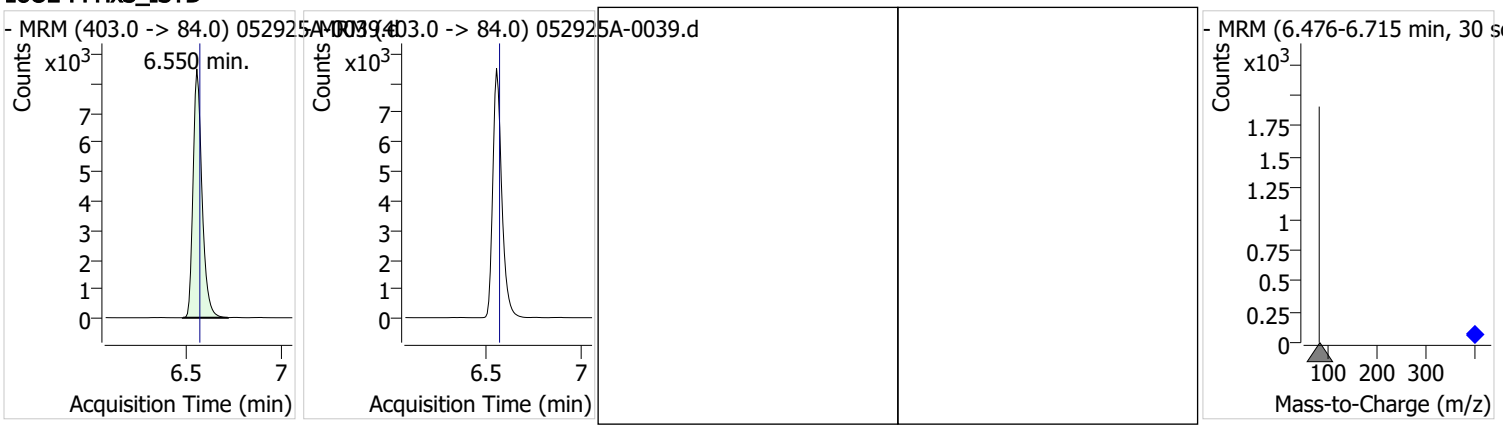
13C3-PFBA_ISTD



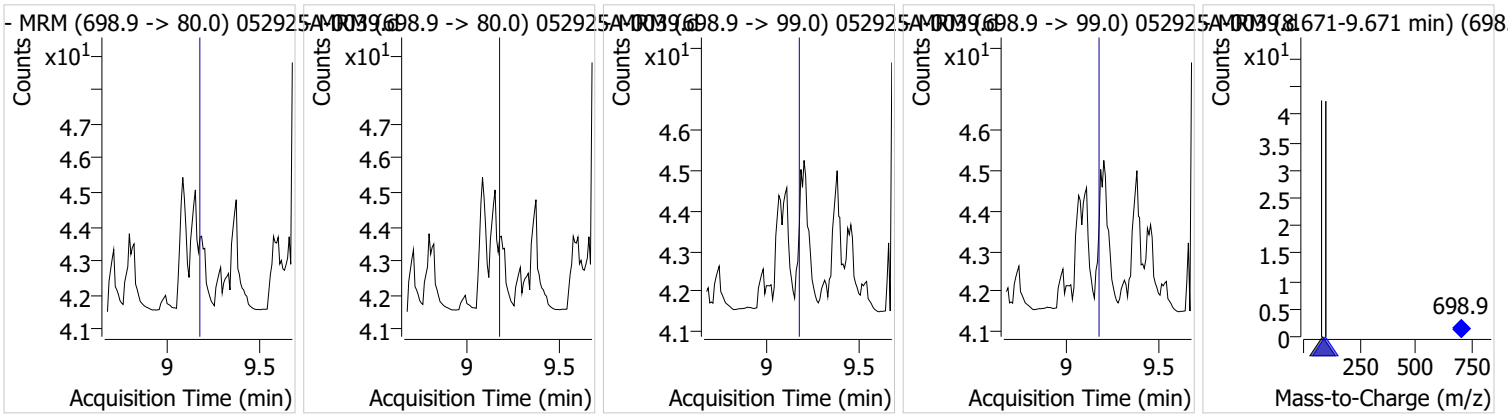
13C5-PFNA_ISTD



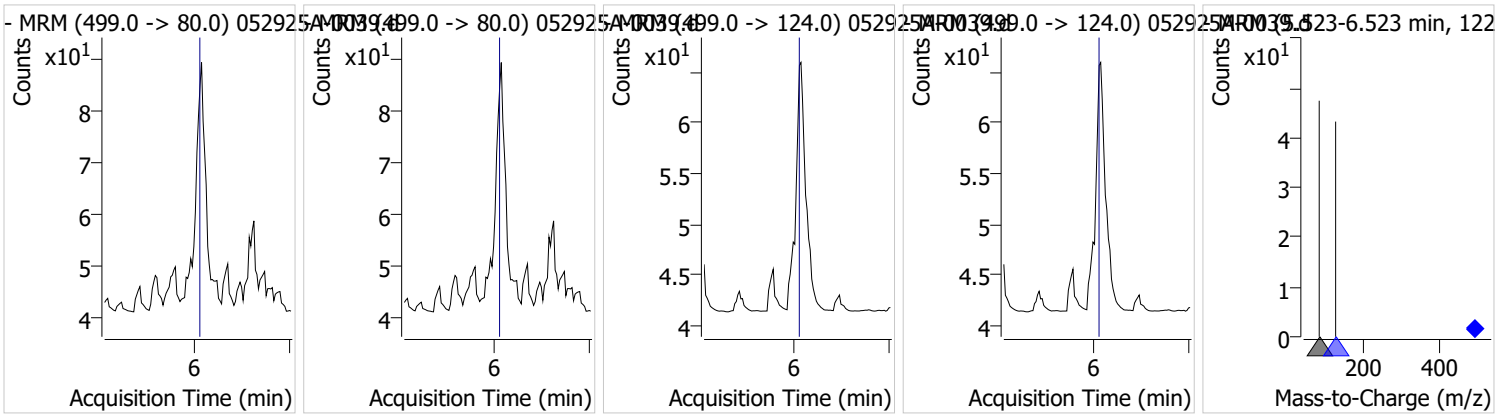
18O2-PFHxS_ISTD



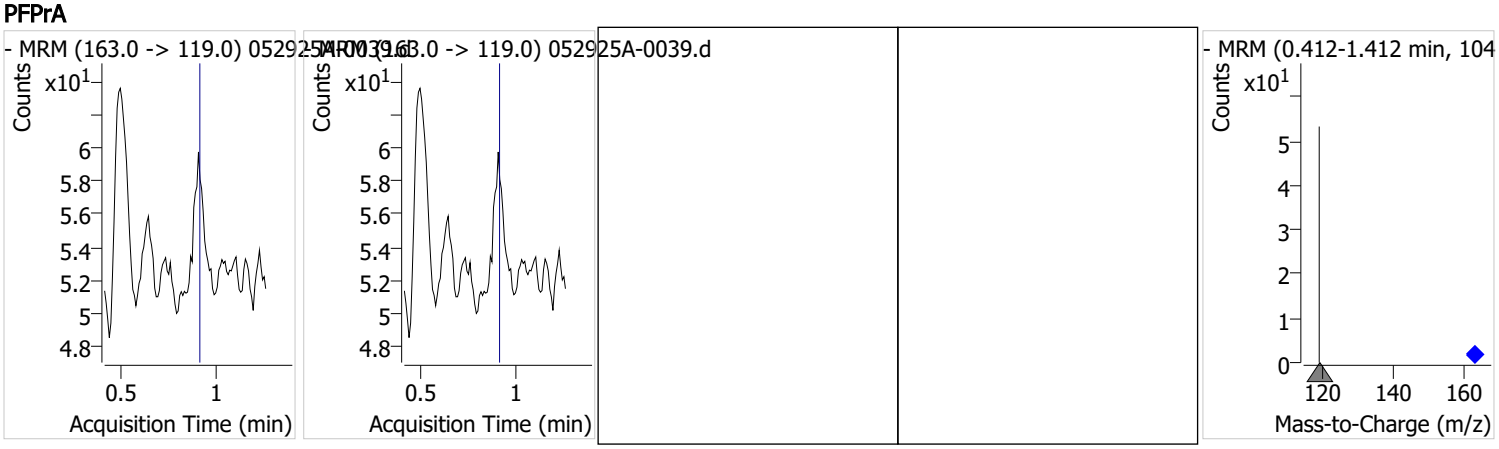
PFDoS



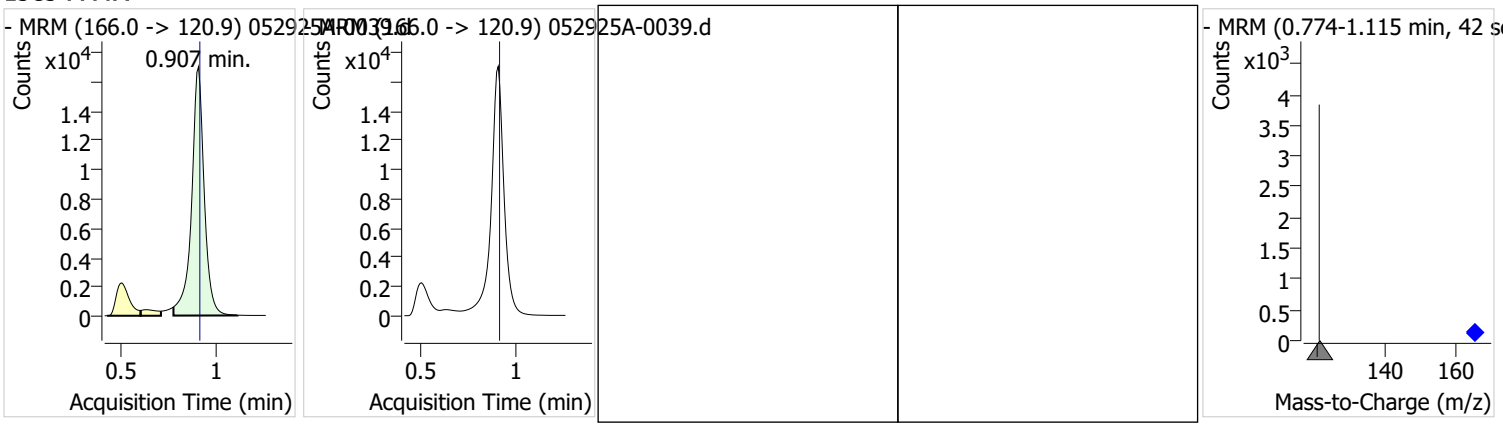
TDCA



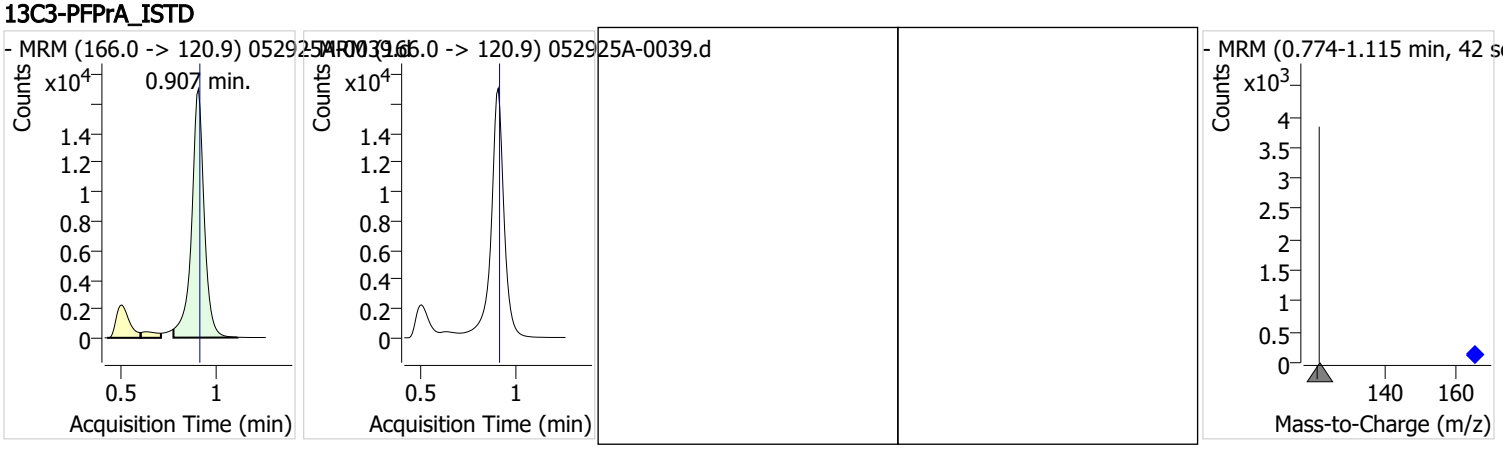
PFPrA



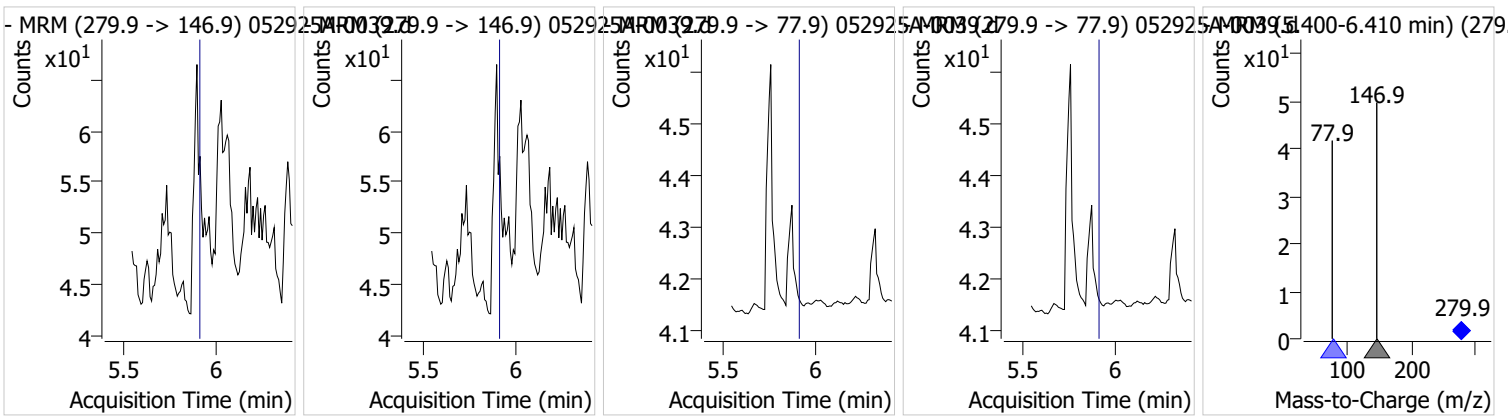
13C3-PFPrA



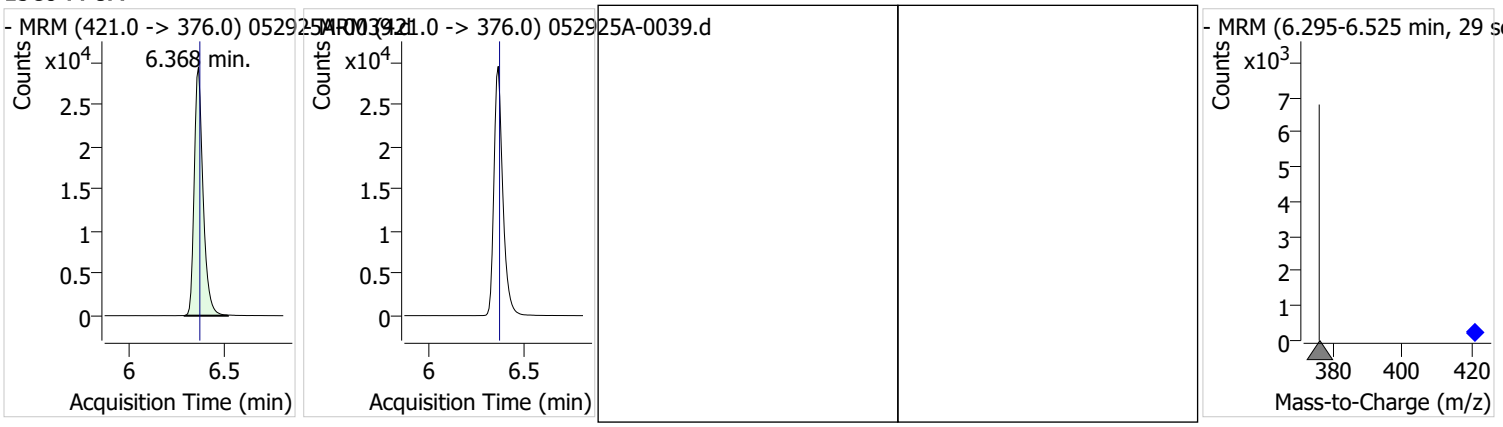
13C3-PFPrA_ISTD



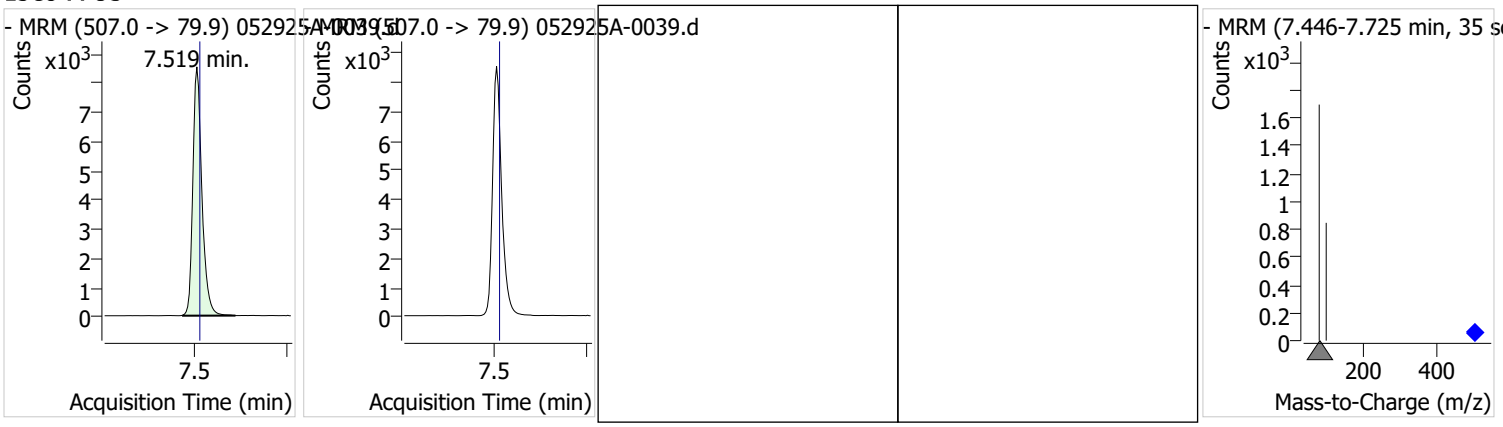
TFSI



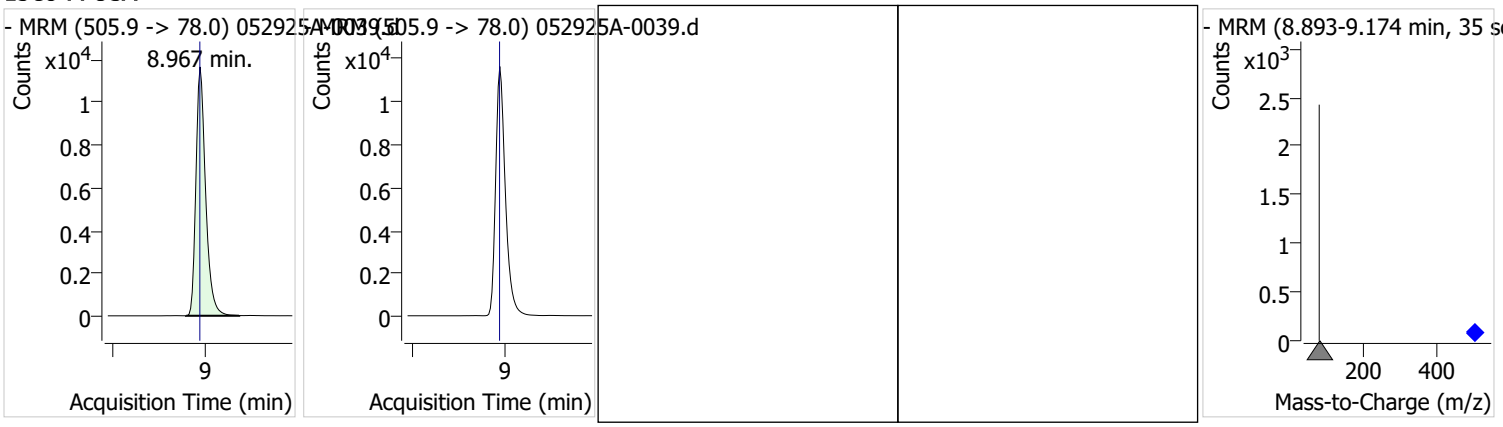
13C8-PFOA



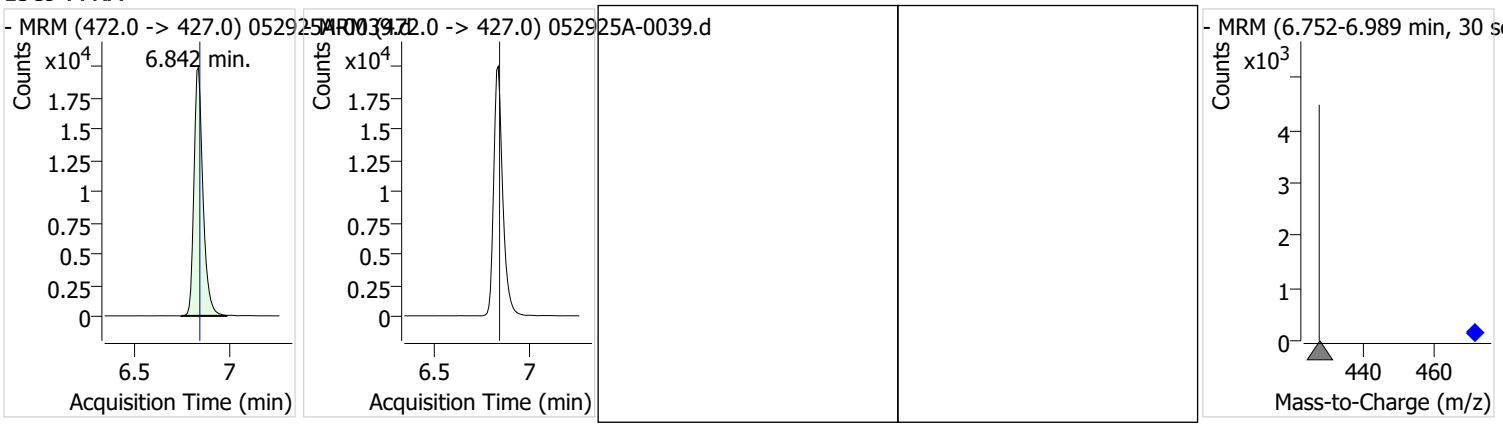
13C8-PFOS



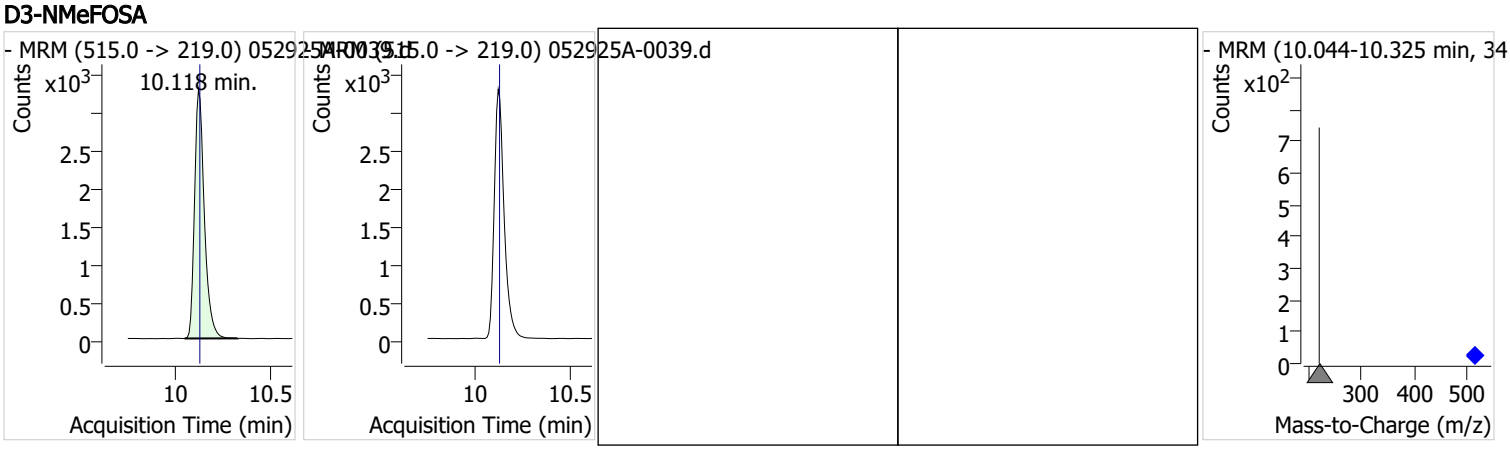
13C8-PFOSA



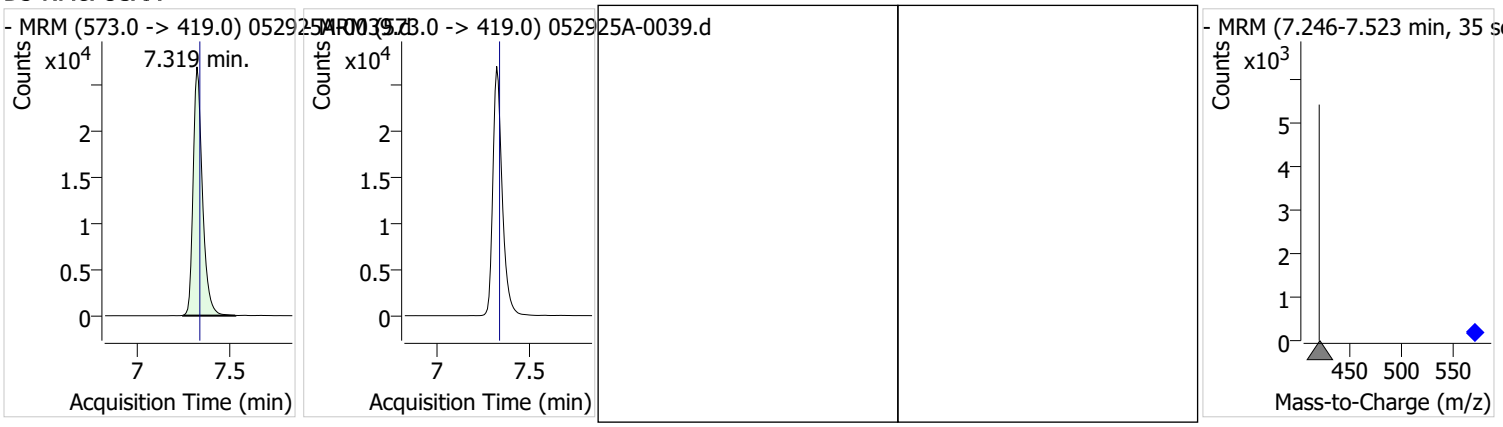
13C9-PFNA



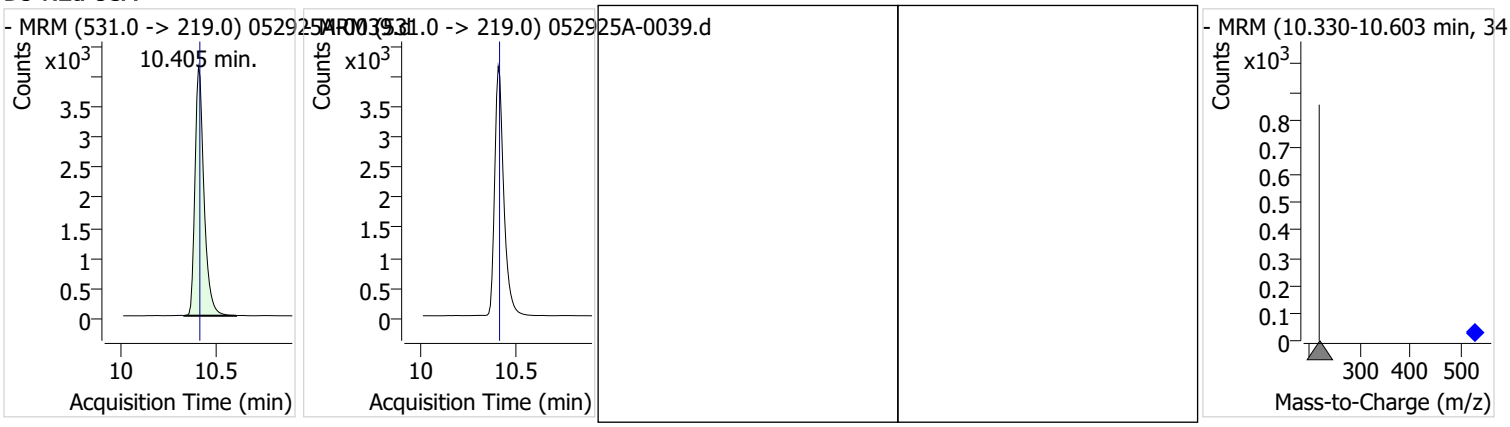
D3-NMeFOSA



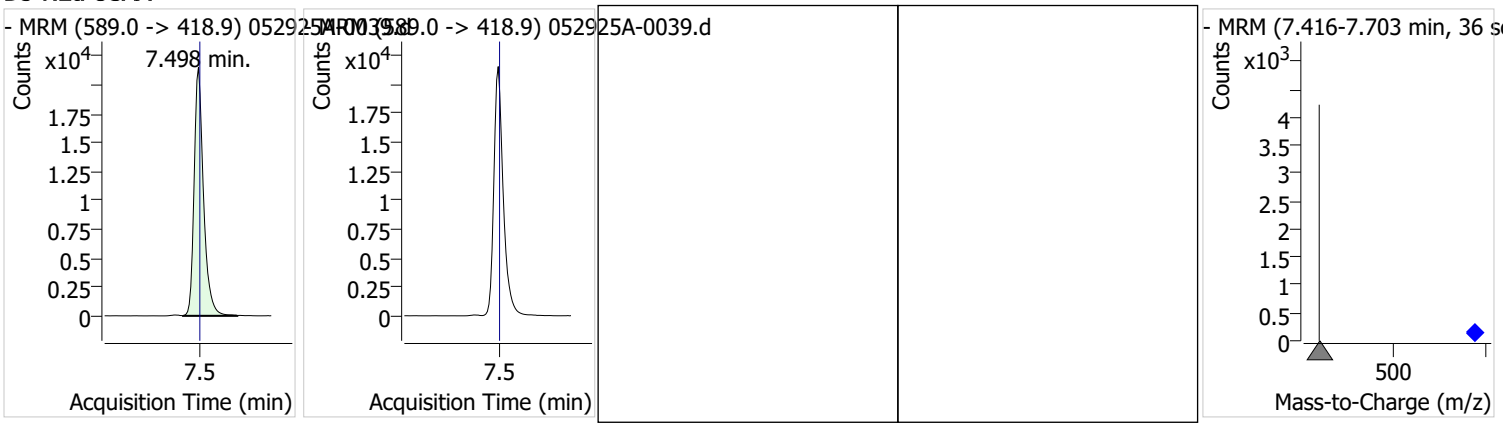
D3-NMeFOSAA



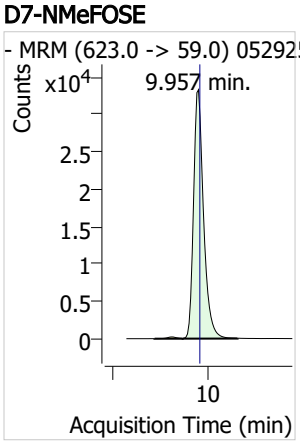
D5-NEtFOSA

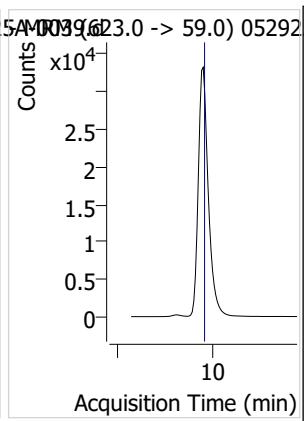


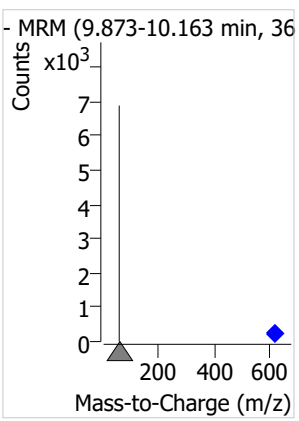
D5-NEtFOSAA



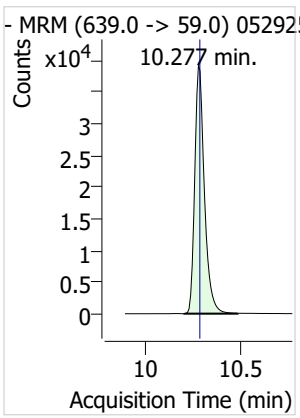
D7-NMeFOSE

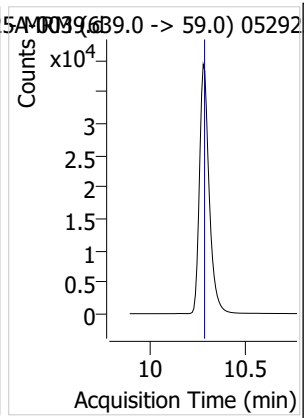


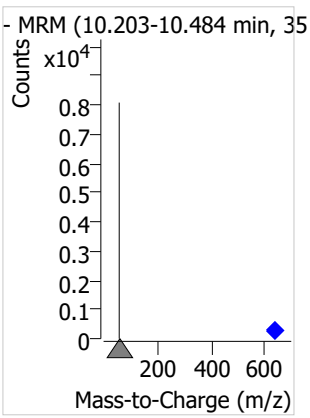




D9-NEtFOSE

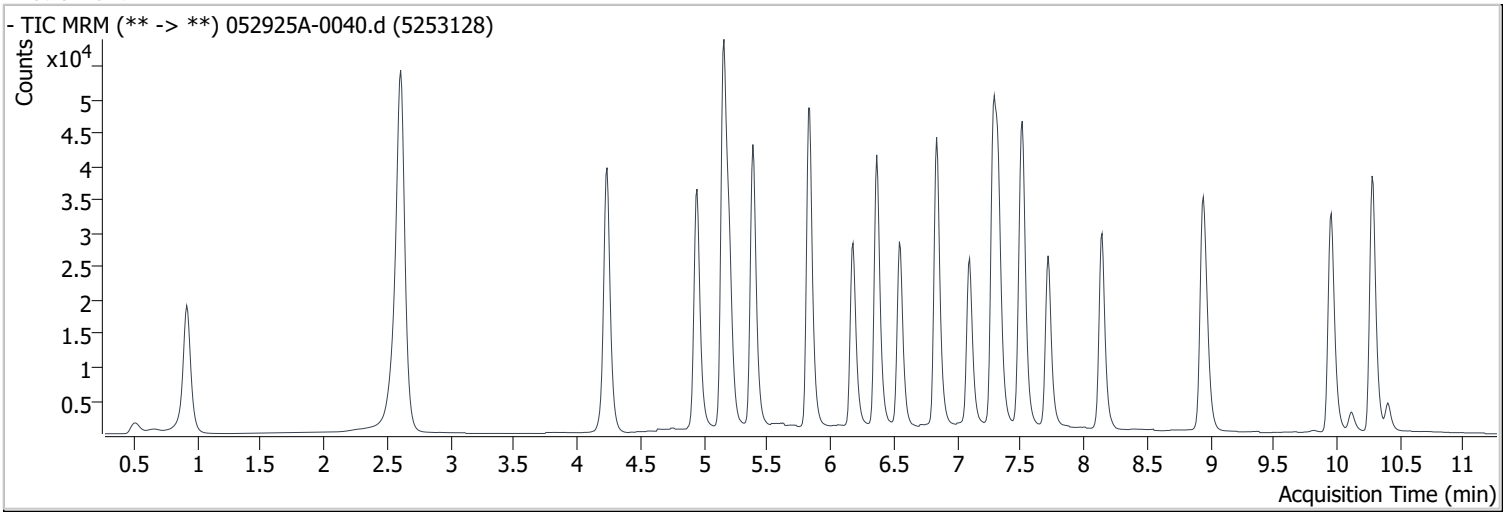






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 7:21 PM	**Data File**	052925A-0040.d
Sample Type	Blank	**Sample Name**	5253128
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	90764	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	35983	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	27693	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.831	156270	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	24629	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	204957	37354.09		13C3-PFBA_ISTD	2.608	92557	9.0982	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.528	29278	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.528	29278	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.528	29278	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	35983	4464.28		18O2-PFHxS_ISTD	6.550	34870	5.9928	ng/ml			
13C2-6:2FTS	6.180	27693	8452.31		18O2-PFHxS_ISTD	6.550	34870	6.1214	ng/ml			
13C2-8:2FTS	7.100	24629	7473.35		18O2-PFHxS_ISTD	6.550	34870	5.4237	ng/ml			
13C2-PFDoA	8.146	98745	4624.59		13C2-PFDA_ISTD	7.290	70146	1.1267	ng/ml			
13C2-PFDA	7.290	70146	21218.95					1.4428	ng/ml			
13C2-PFHxA	5.162	90217	5569.84					2.9270	ng/ml			
13C2-PFTeDA	8.936	102284	2399.12		13C2-PFDA_ISTD	7.290	70146	1.0387	ng/ml			
13C4-PFOS	7.520	31723	1584.22					2.8779	ng/ml			
13C3-HFPODA	5.394	90764	70853.31		13C2-PFHxA_ISTD	5.162	90217	9.4162	ng/ml			
13C3-PFBS	5.205	53060	1819.43		18O2-PFHxS_ISTD	6.550	34870	2.2287	ng/ml			
13C3-PFHxS	6.551	36683	11199.83		18O2-PFHxS_ISTD	6.550	34870	2.2755	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	76852	-	ng/ml			
584.0 -> 526.0				*								

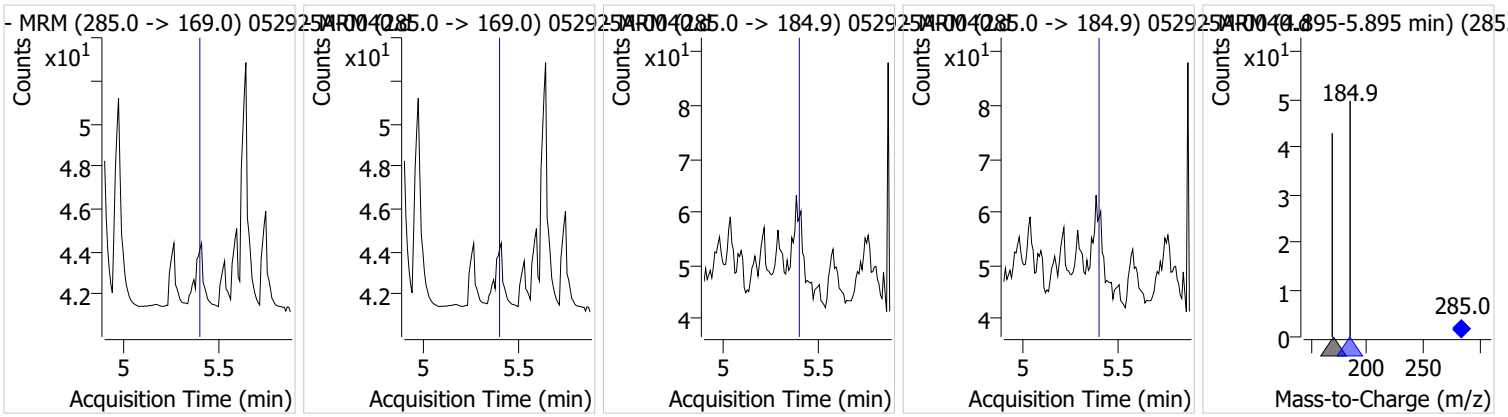
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	156270	47313.21		13C2-PFHxA_ISTD	5.162	90217	2.4392	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.327	100912	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.606	204957	-	ng/ml			
13C5-PFHxA	5.153	92278	26001.52		13C2-PFHxA_ISTD	5.162	90217	2.3041	ng/ml			
PFBS					13C3-PFBS_ISTD	5.205	53060	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	9831	-	ng/ml			
512.0 -> 169.0				*								
PFDA	7.200	0	0.00		13C6-PFDA_ISTD	7.289	75228	-	ng/ml	✔	INT	MJL 5/30/25
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.146	98745	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	12476	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.831	156270	-	ng/ml			
362.9 -> 169.0				*								
PFHxA					13C5-PFHxA_ISTD	5.153	92278	-	ng/ml			
313.0 -> 118.9				*								
NMeFOSE	9.974	102	27.59		D7-NMeFOSE_ISTD	9.957	119835	0.0172	ng/ml	✔	NI	MJL 5/30/25
PFHxS					13C3-PFHxS_ISTD	6.551	36683	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	70853	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	134541	-	ng/ml			
PFOA	6.369	946	23.79		13C8-PFOA_ISTD	6.368	105174	0.0190	ng/ml	✔	GT	MJL 5/30/25
413.0 -> 169.0	6.369	84	27.88	*8.9								
PFOS	7.399	484	35.74		13C8-PFOS_ISTD	7.528	29278	0.0280	ng/ml			
499.0 -> 99.0	7.402	273	63.91	56.4								
PFPeA					13C5-PFPeA_ISTD	4.237	149179	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	204957	-	ng/ml			
13C5-PFPeA	4.237	149179	20494.44		13C2-PFHxA_ISTD	5.162	90217	4.6690	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	149179	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.146	98745	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.153	92278	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	75228	22769.37		13C2-PFDA_ISTD	7.290	70146	1.1390	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.153	92278	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	39089	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	83876	25389.71		13C2-PFDA_ISTD	7.290	70146	1.1370	ng/ml			
13C4-PFOA	6.369	23605	70186.31					2.8548	ng/ml			
PFDS					13C8-PFOS_ISTD	7.528	29278	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.528	29278	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.551	36683	-	ng/ml			

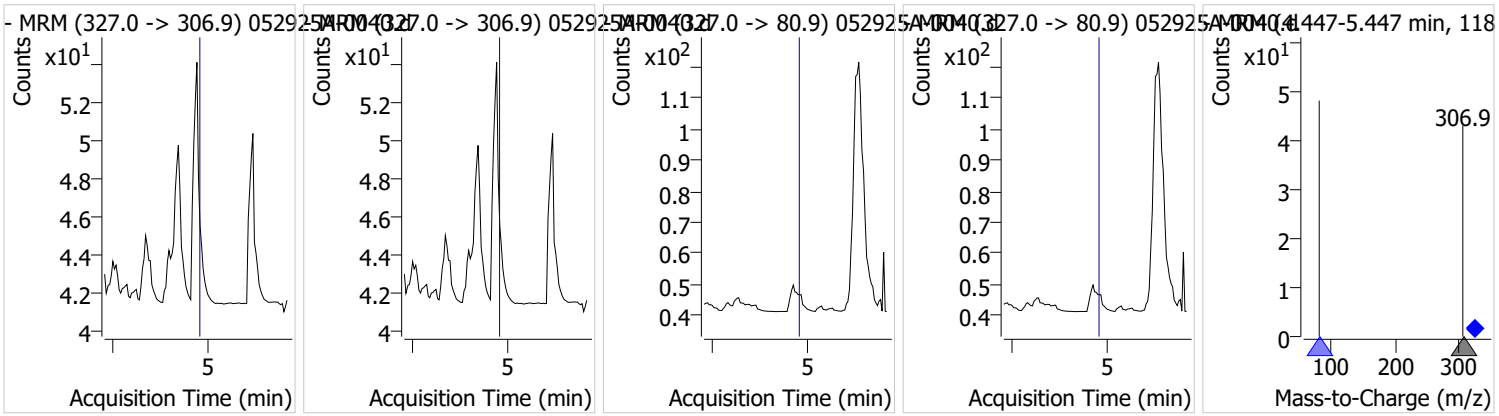
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
349.0 -> 98.9				*								
PFTeDA					13C2-PFTeDA_ISTD	8.936	102284	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	83876	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.608	92557	11547.66					6.0947	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	149179	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.153	92278	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	70853	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	68876	21116.10					1.4564	ng/ml			
18O2-PFHxS	6.550	34870	78508.86					3.0698	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.528	29278	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.528	29278	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.920	0	0.00		13C3-PFPrA_ISTD	0.916	88138	-	ng/ml	✔	INT	MJL 5/30/25
13C3-PFPrA	0.916	88138	5768.77		13C3-PFBA_ISTD	2.608	92557	8.8026	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	90764	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	105174	312696.51		13C4-PFOA_ISTD	6.369	23605	2.3781	ng/ml			
13C8-PFOS	7.528	29278	7717.53		13C4-PFOS_ISTD	7.520	31723	2.3599	ng/ml			
13C8-PFOSA	8.975	39089	4680.04		13C4-PFOS_ISTD	7.520	31723	2.1911	ng/ml			
13C9-PFNA	6.842	70853	215138.93		13C5-PFNA_ISTD	6.842	68876	1.1643	ng/ml			
D3-NMeFOSA	10.118	9831	1352.48		13C4-PFOS_ISTD	7.520	31723	1.7297	ng/ml			
D3-NMeFOSAA	7.327	100912	74730.19		13C4-PFOS_ISTD	7.520	31723	5.1143	ng/ml			
D5-NEtFOSA	10.405	12476	1376.78		13C4-PFOS_ISTD	7.520	31723	1.8260	ng/ml			
D5-NEtFOSAA	7.498	76852	2005.59		13C4-PFOS_ISTD	7.520	31723	5.1286	ng/ml			
D7-NMeFOSE	9.957	119835	32569.13		13C4-PFOS_ISTD	7.520	31723	21.9610	ng/ml			
D9-NEtFOSE	10.277	134541	11812.26		13C4-PFOS_ISTD	7.520	31723	22.2041	ng/ml			

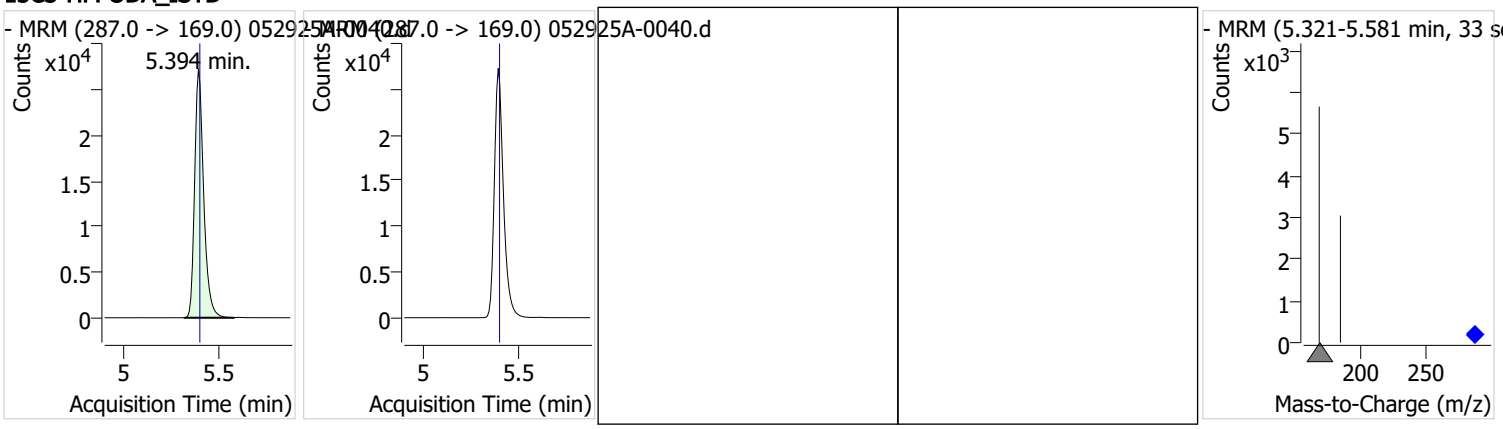
HFPO-DA



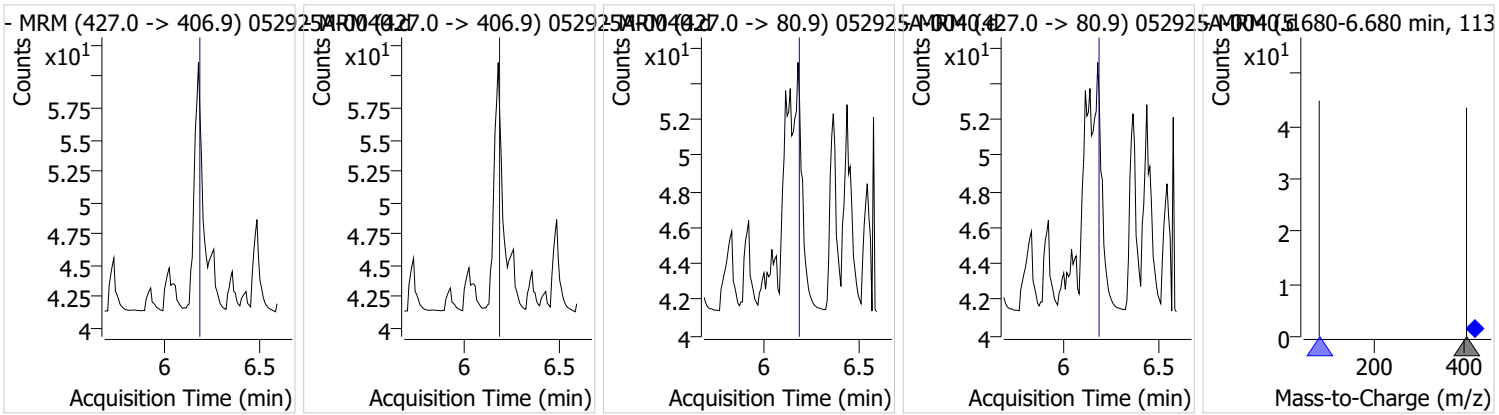
4:2FTS



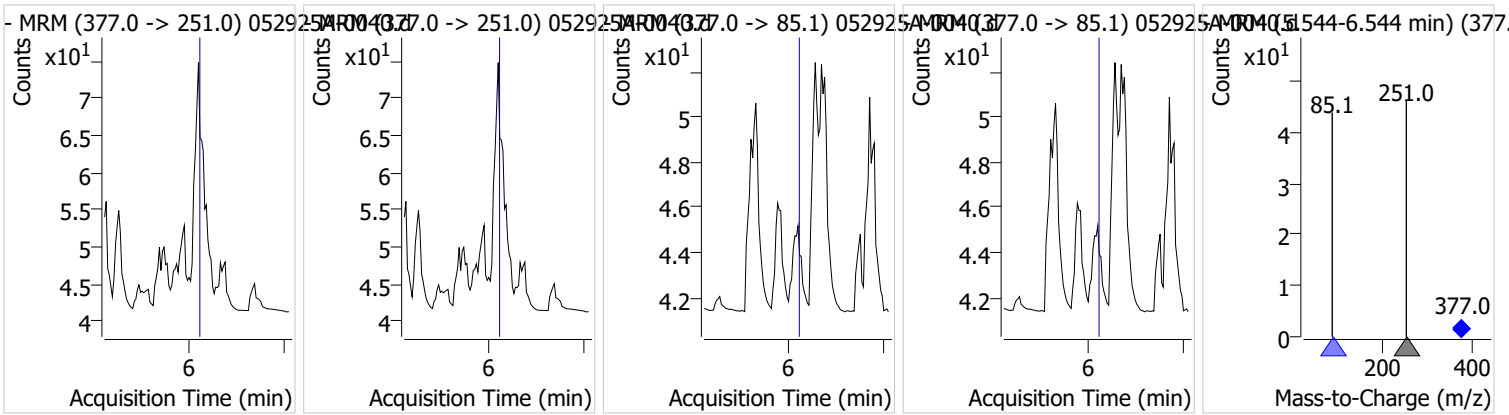
13C3-HFPODA_ISTD



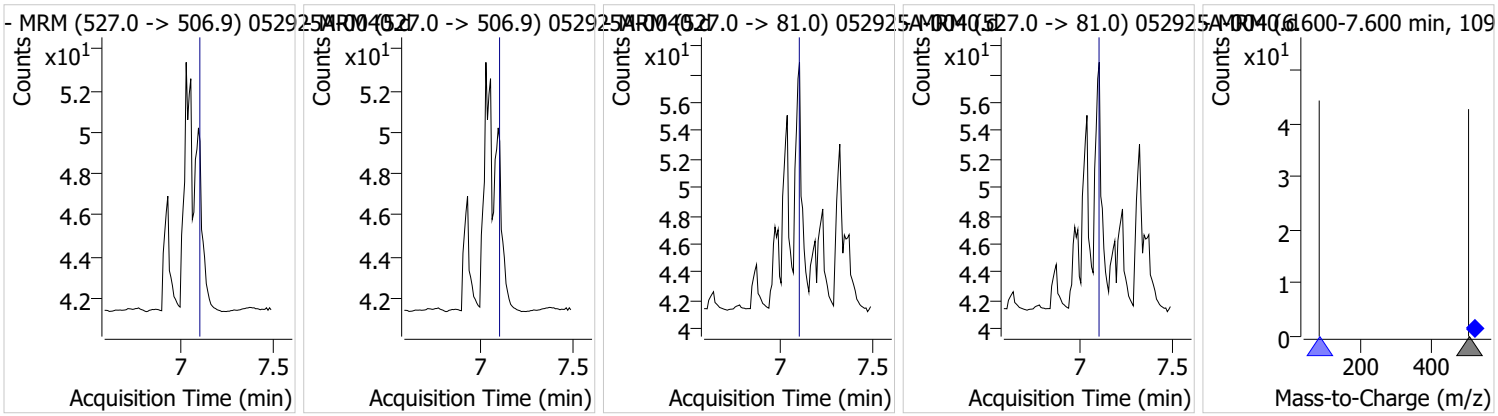
6:2FTS



ADONA



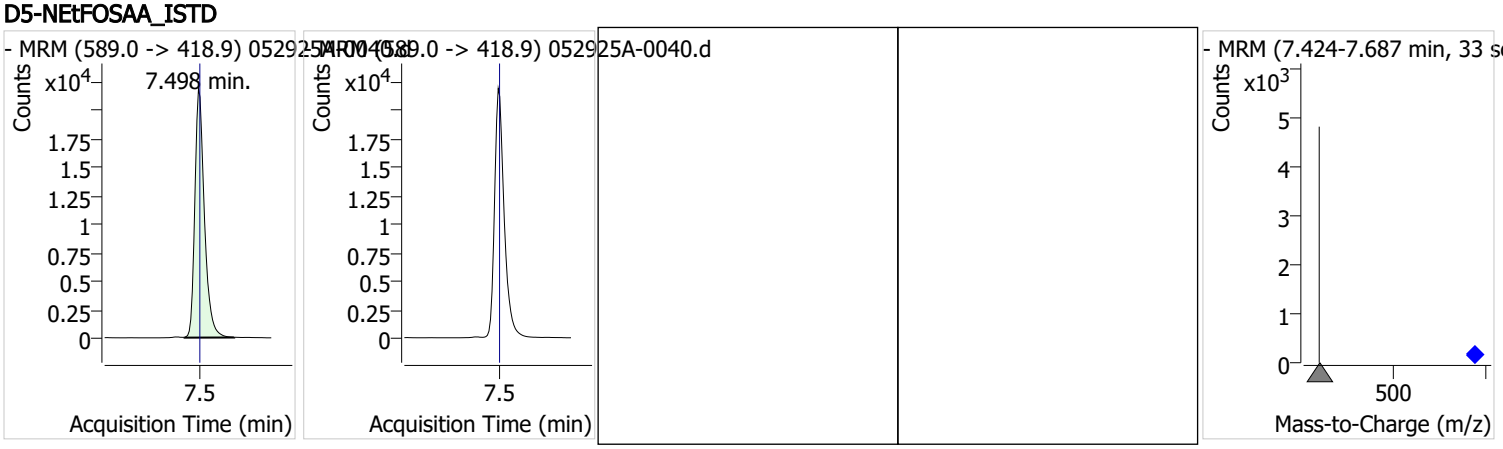
8:2FTS



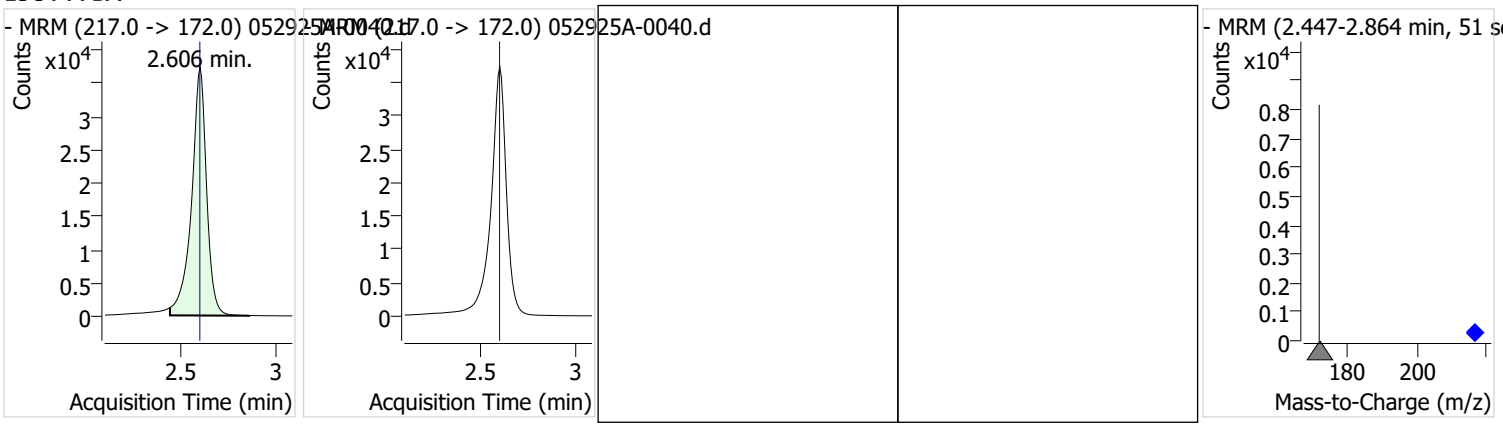
D3-NMeFOSAA_ISTD



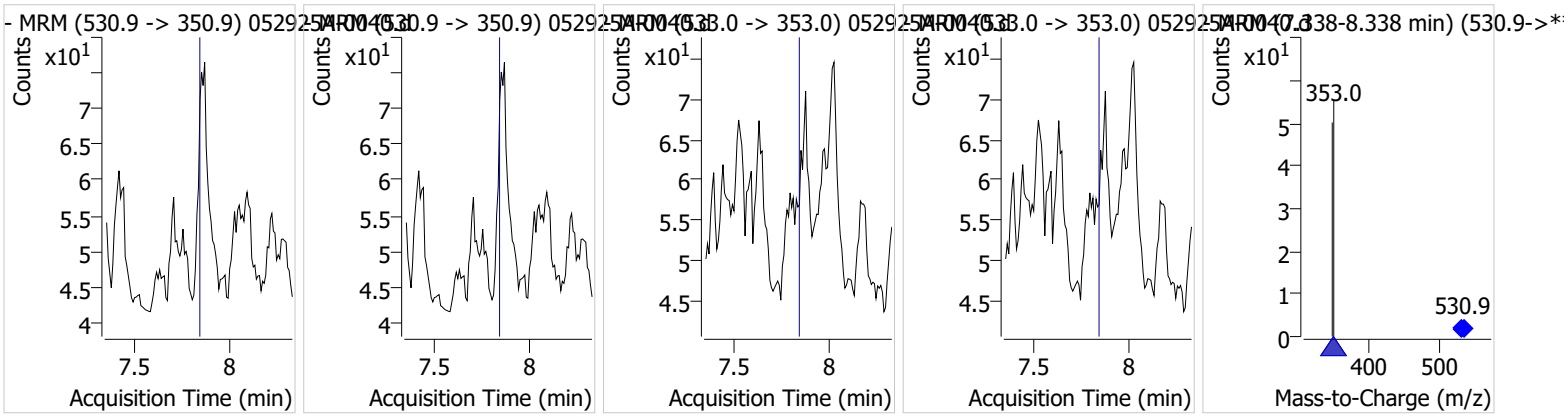
D5-NEtFOSAA_ISTD



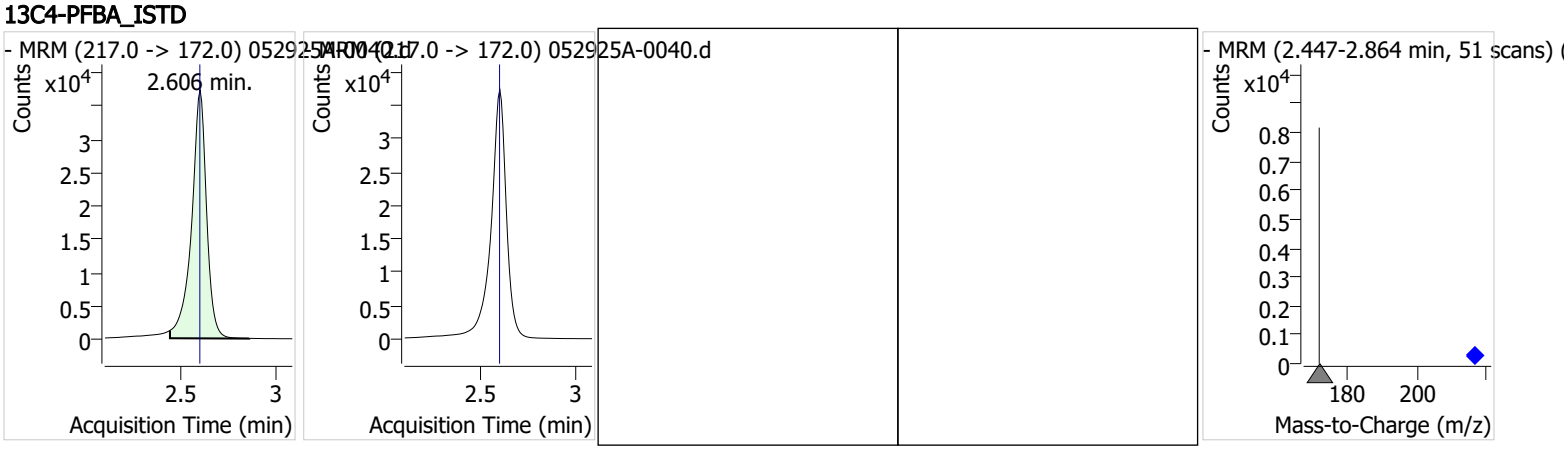
13C4-PFBA



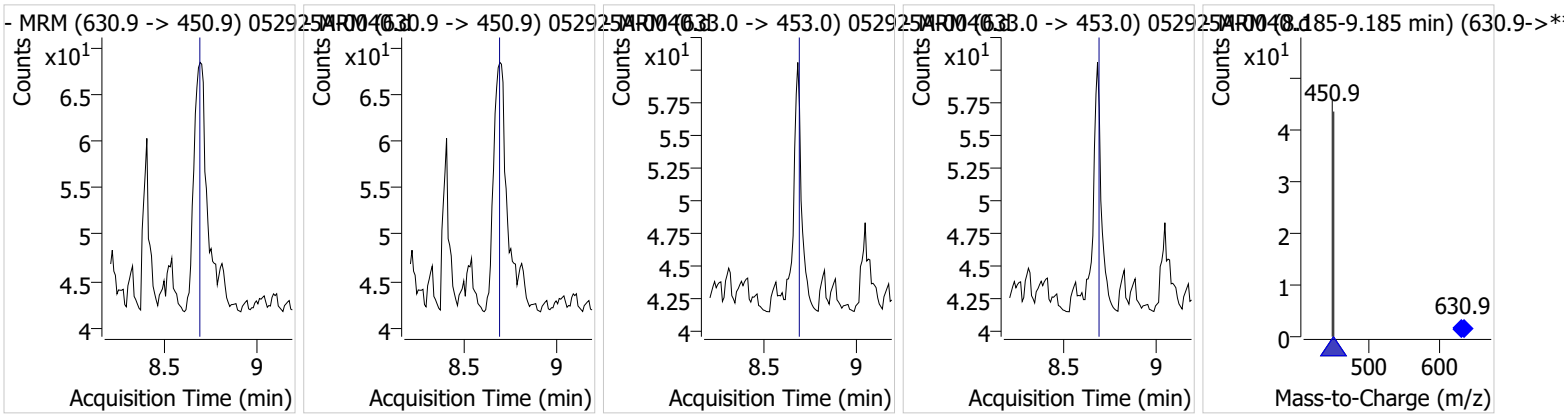
9Cl-PF3ONS



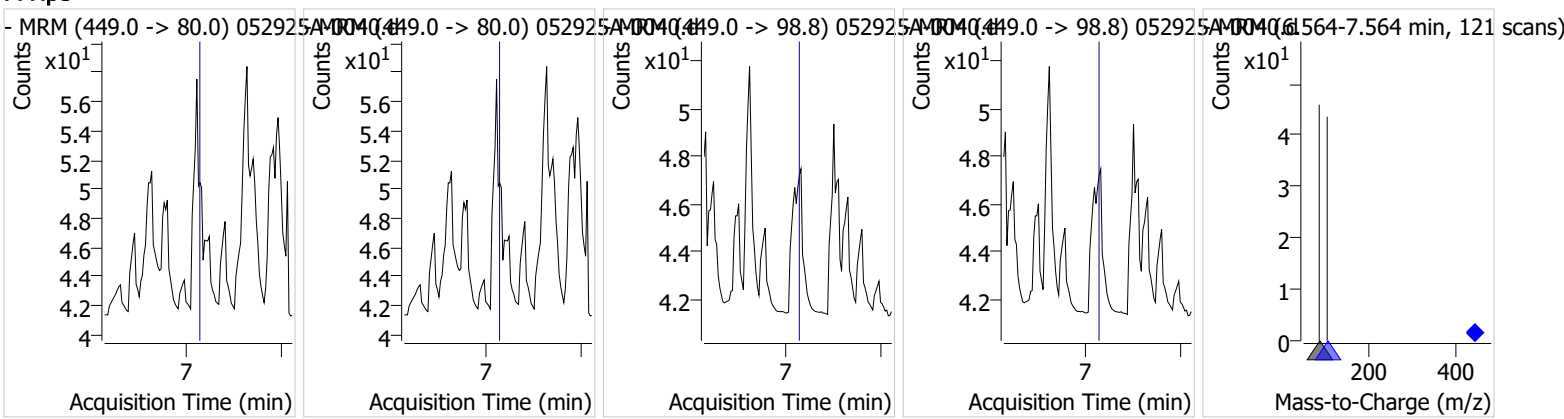
13C4-PFBA_ISTD



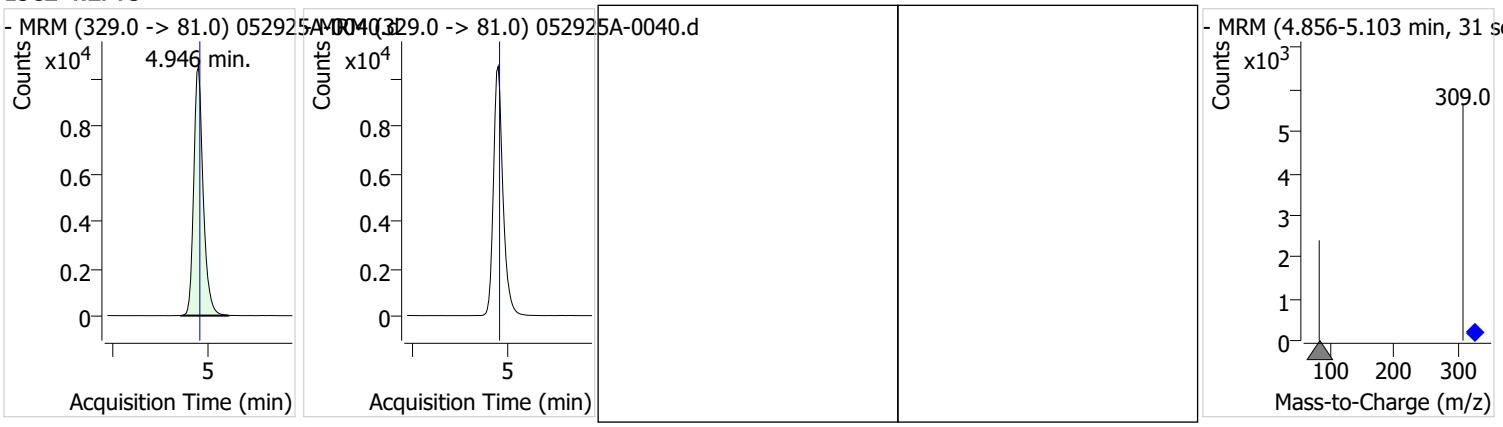
11Cl-PF3OUdS



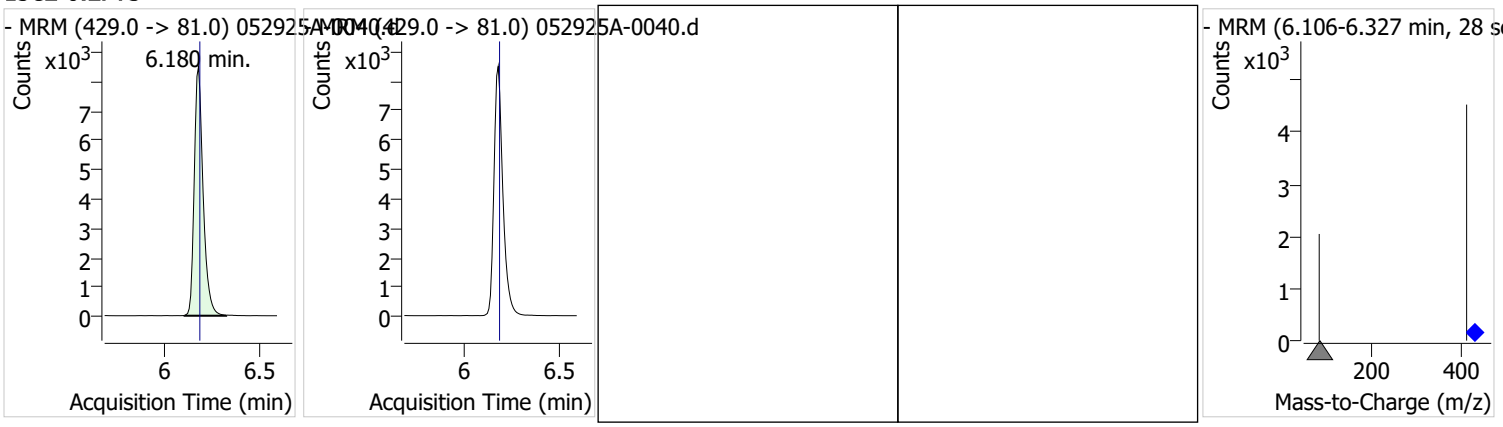
PFHpS



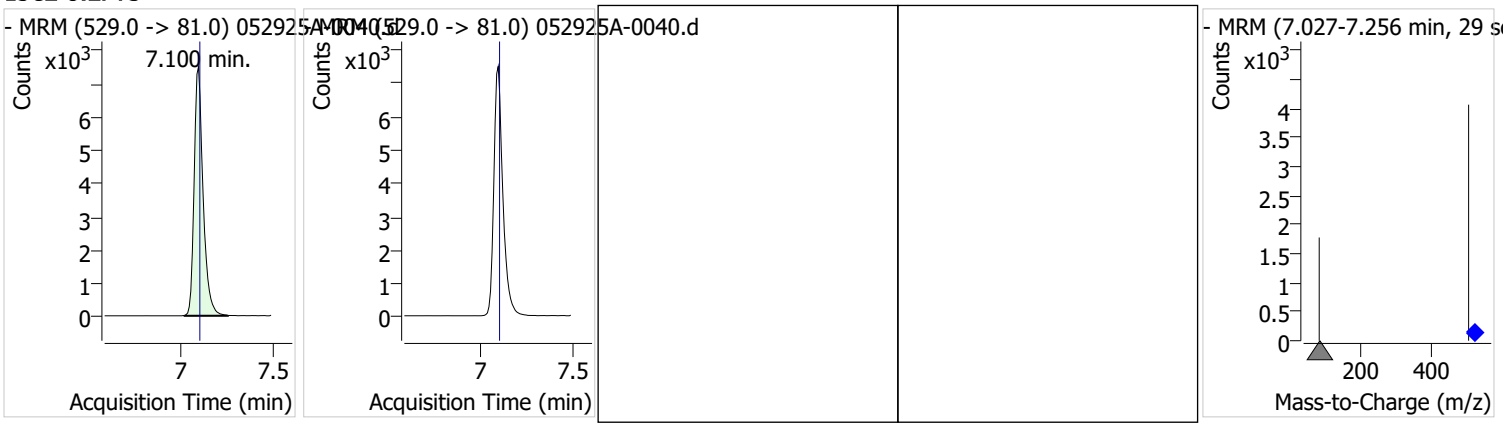
13C2-4:2FTS



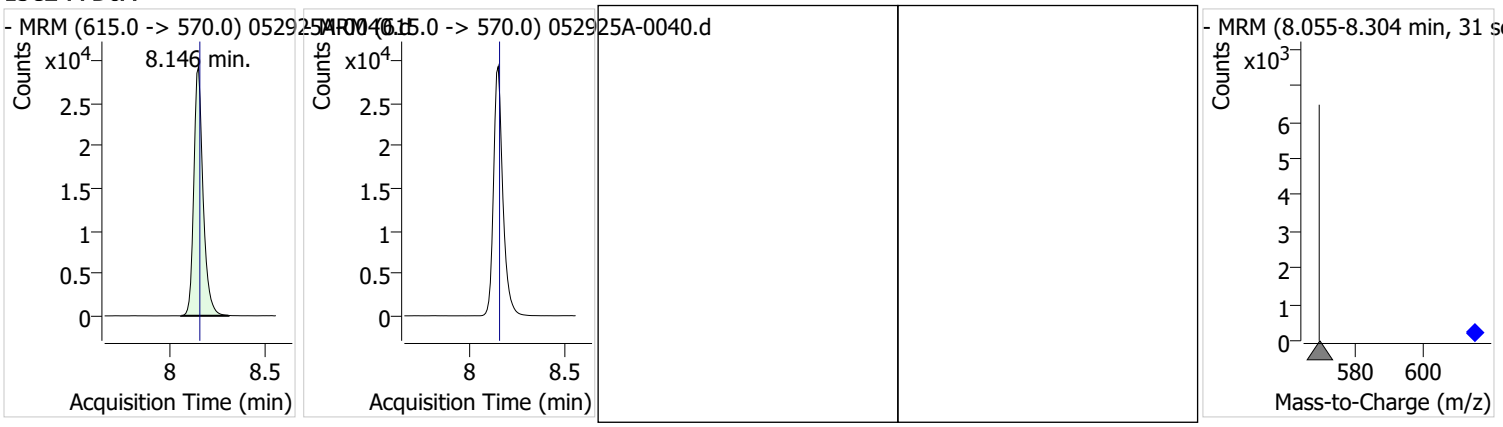
13C2-6:2FTS



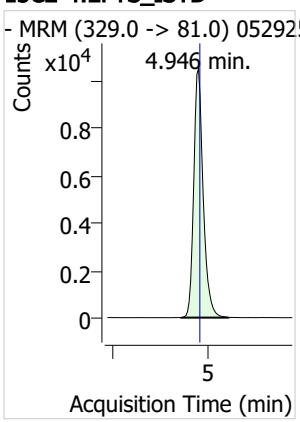
13C2-8:2FTS

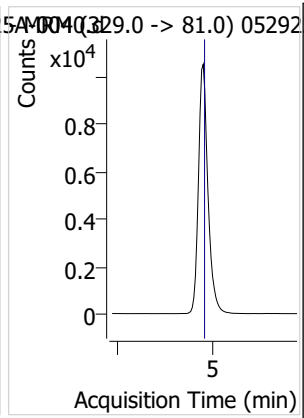


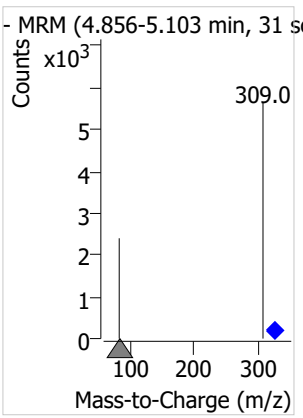
13C2-PFDoA



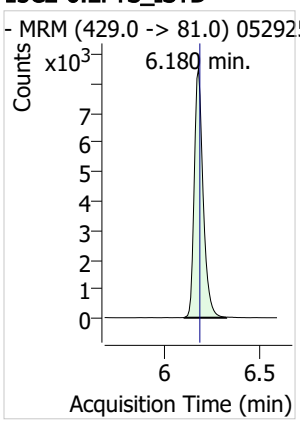
13C2-4:2FTS_ISTD

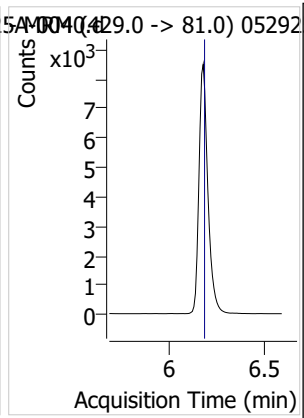


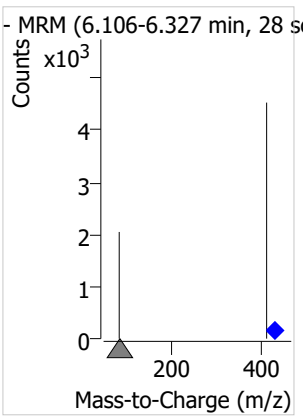




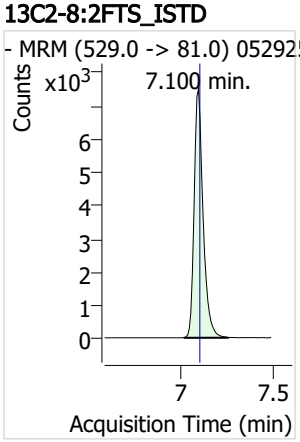
13C2-6:2FTS_ISTD

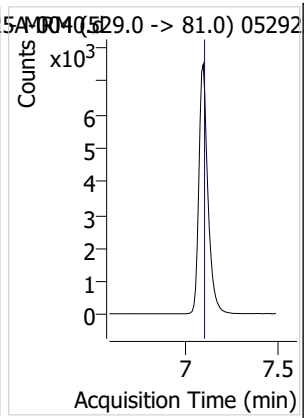


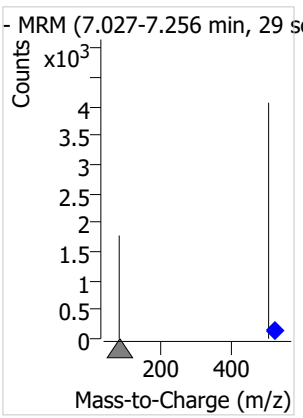




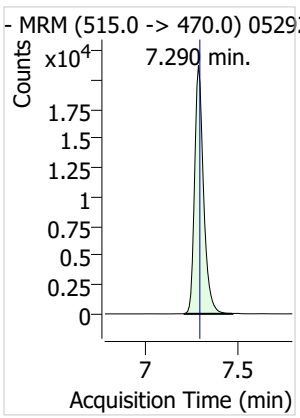
13C2-8:2FTS_ISTD

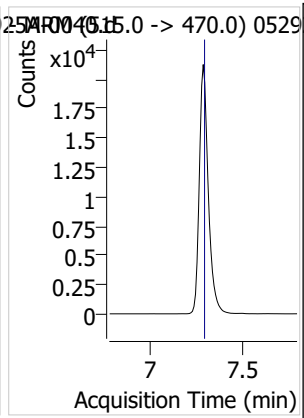


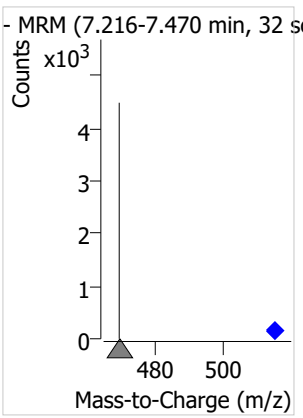




13C2-PFDA



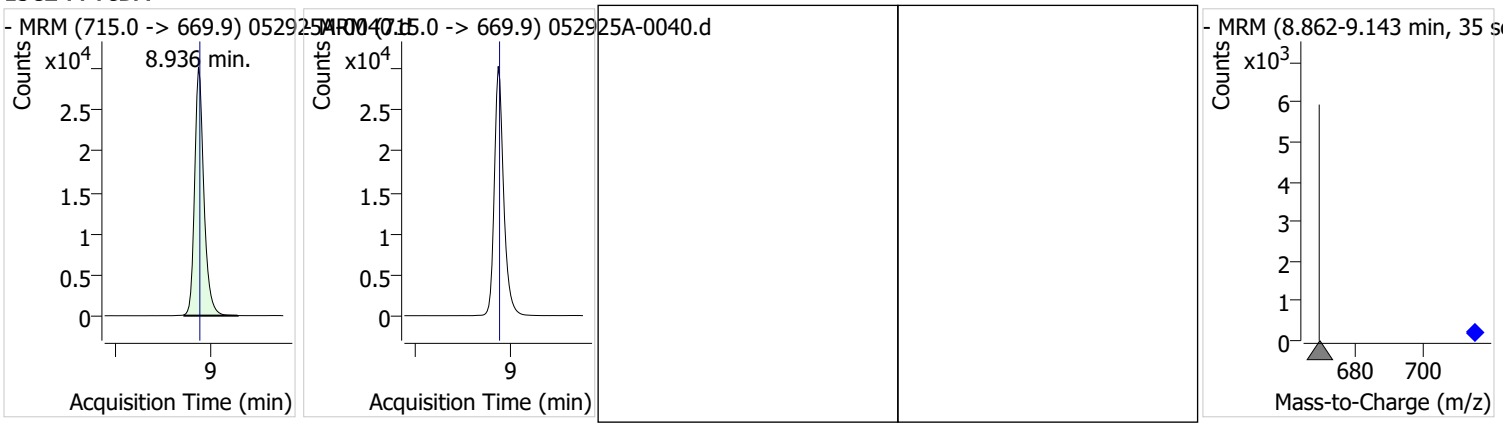




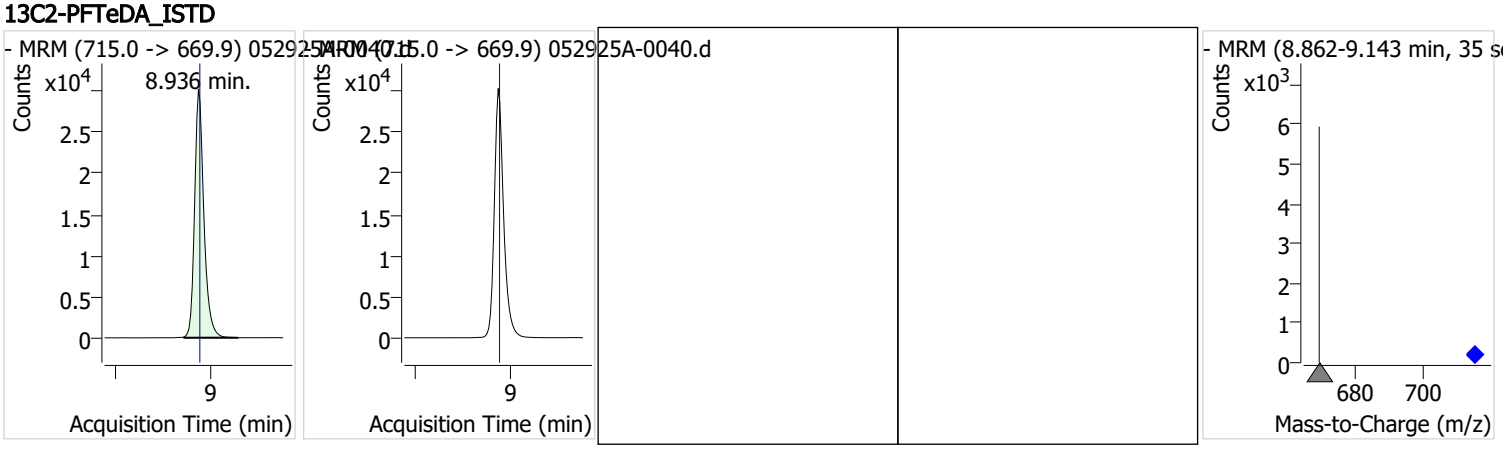
13C2-PFHxA



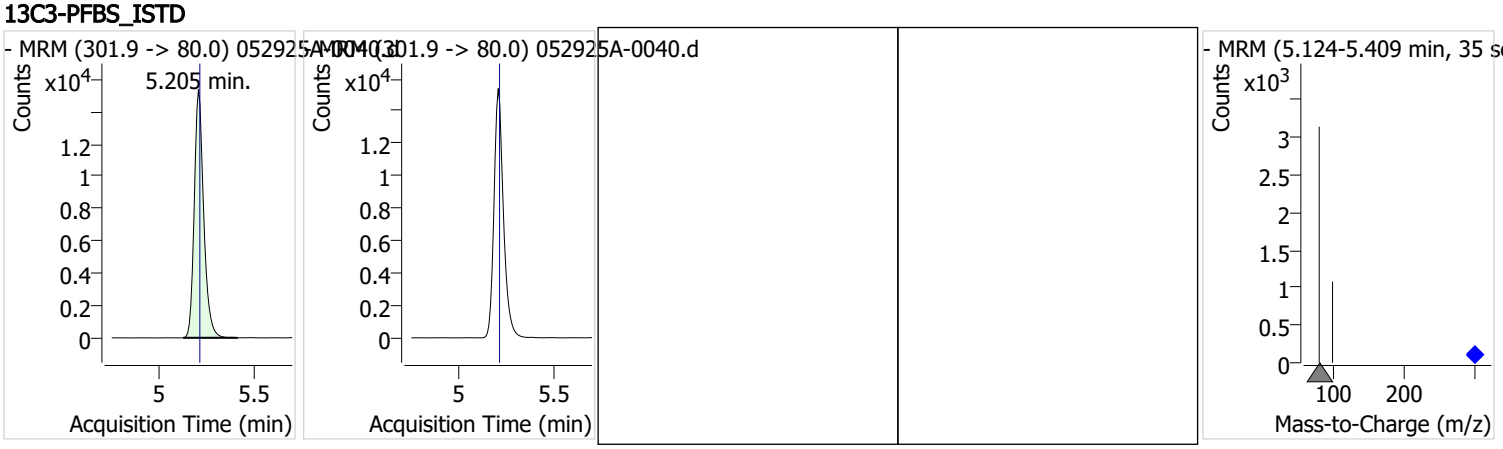
13C2-PFTeDA



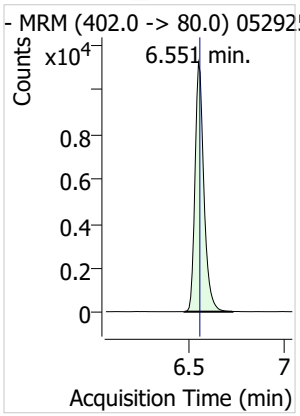
13C2-PFTeDA_ISTD

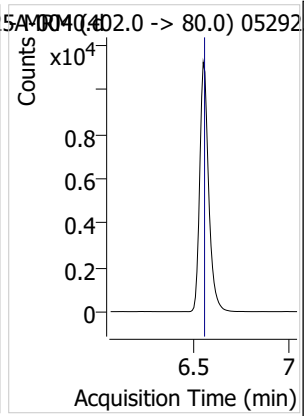


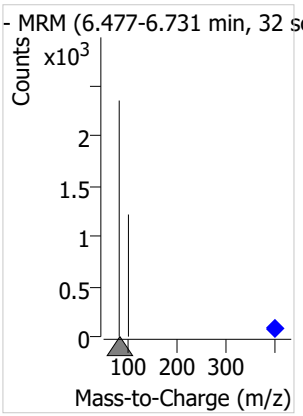
13C3-PFBS_ISTD



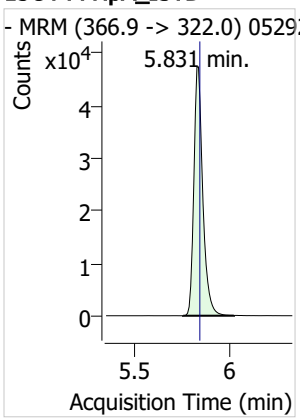
13C3-PFHxS_ISTD

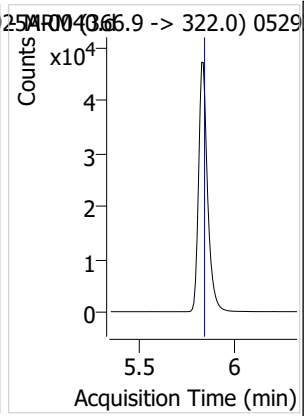


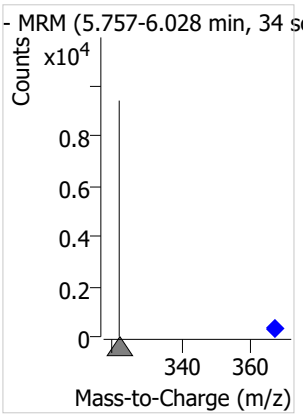




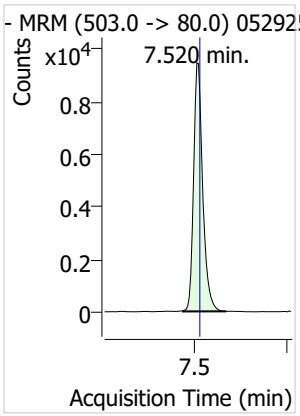
13C4-PFHpA_ISTD

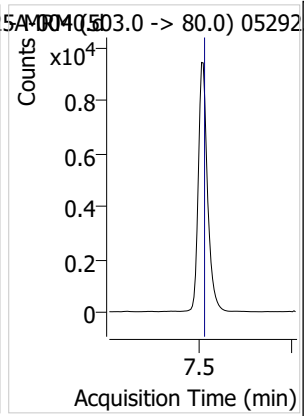


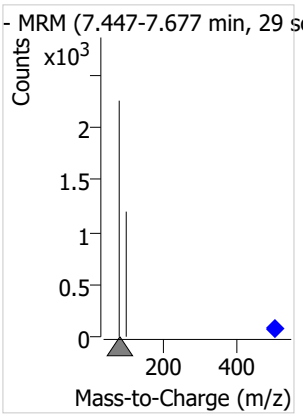




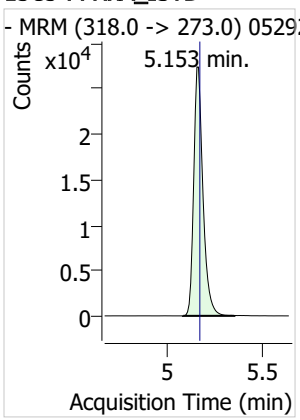
13C4-PFOS

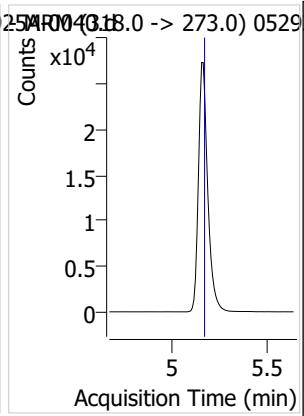


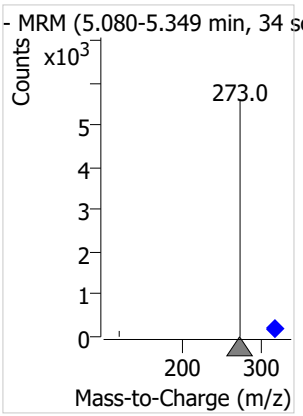




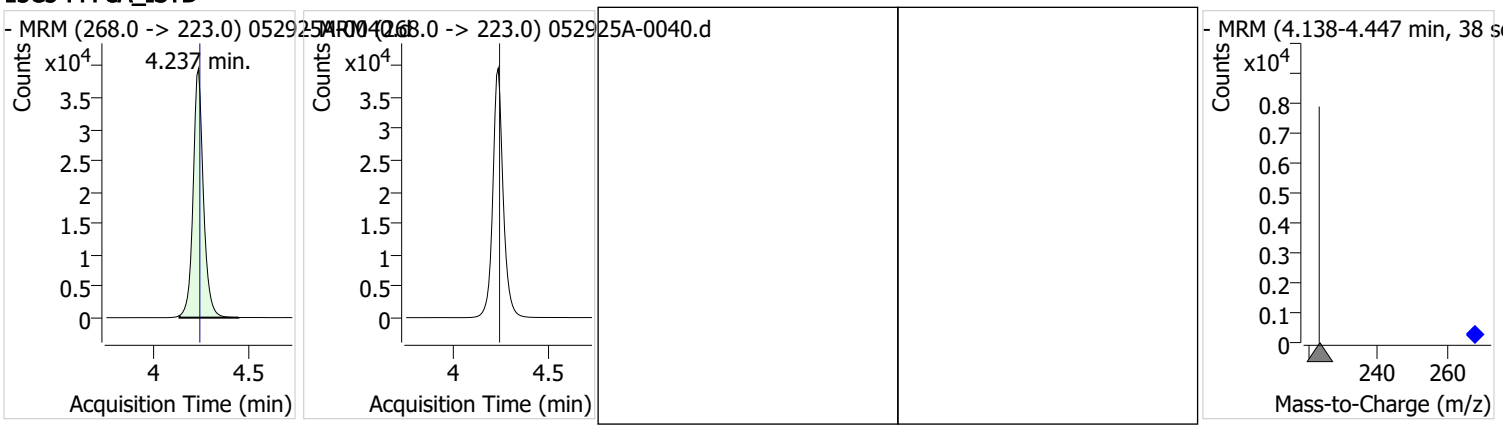
13C5-PFHxA_ISTD







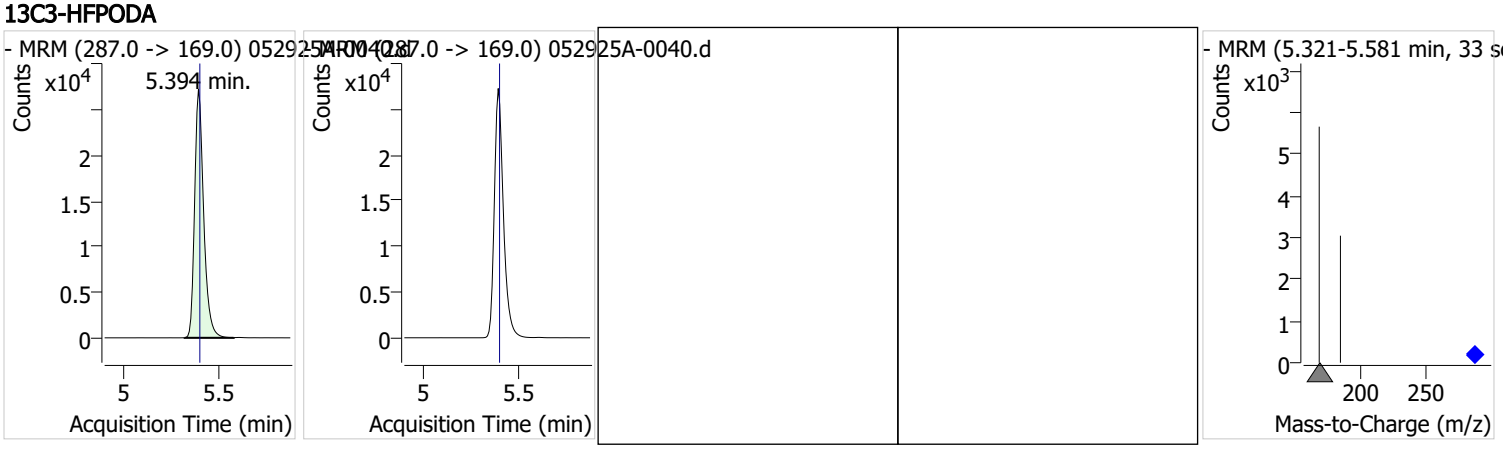
13C5-PFPeA_ISTD



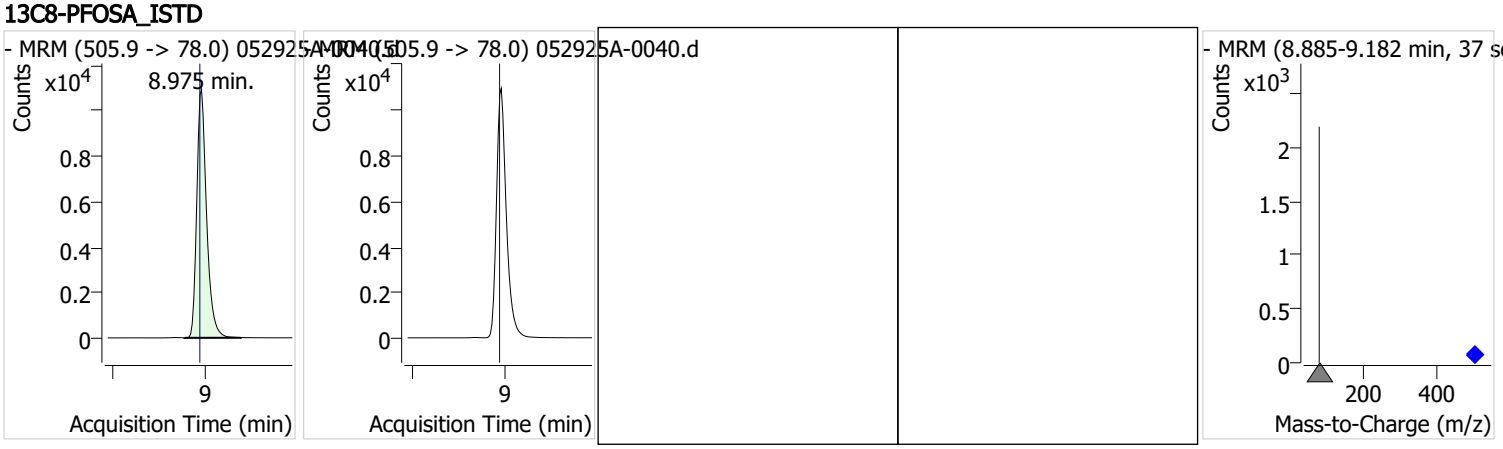
13C6-PFDA_ISTD



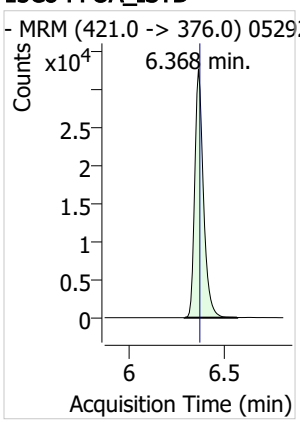
13C3-HFPODA

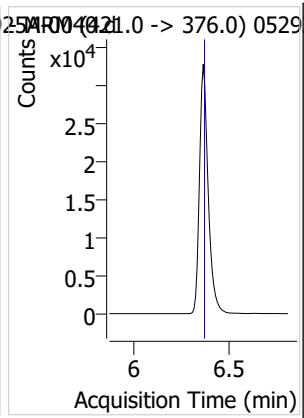


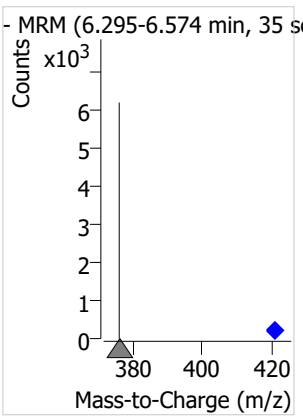
13C8-PFOSA_ISTD



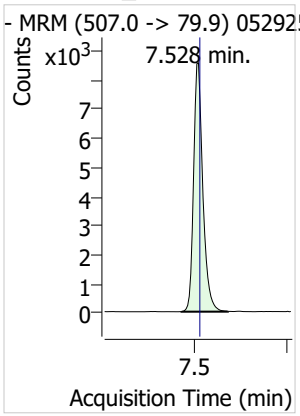
13C8-PFOA_ISTD

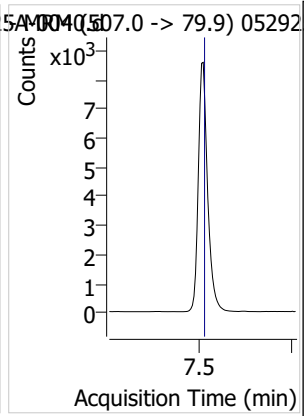


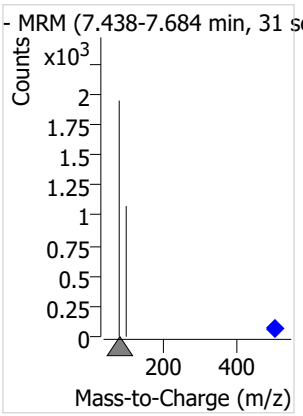




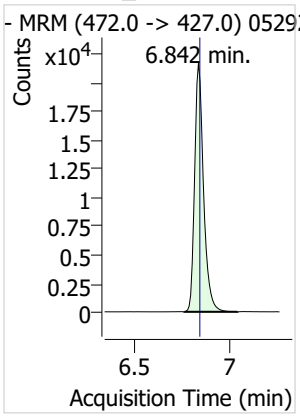
13C8-PFOS_ISTD

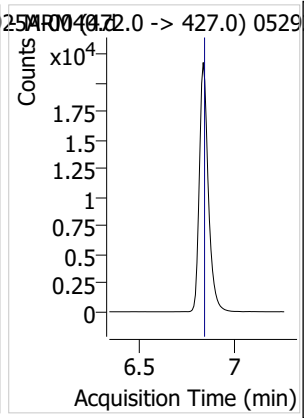


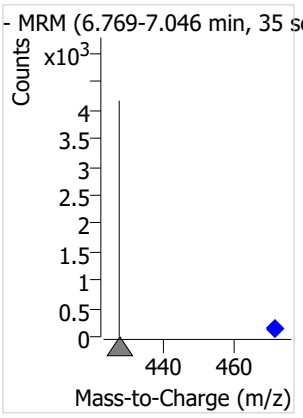




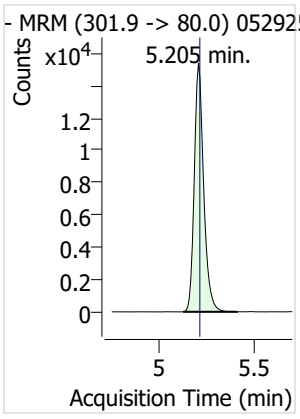
13C9-PFNA_ISTD

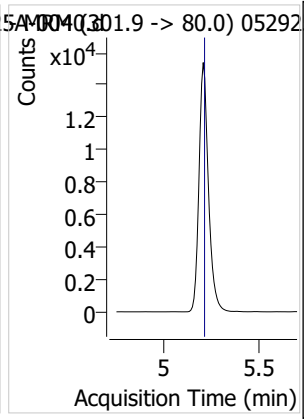


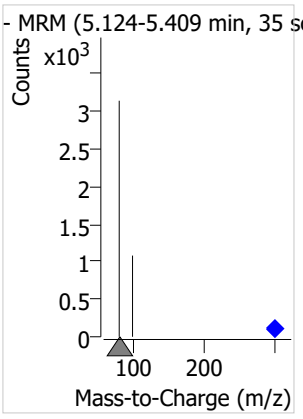




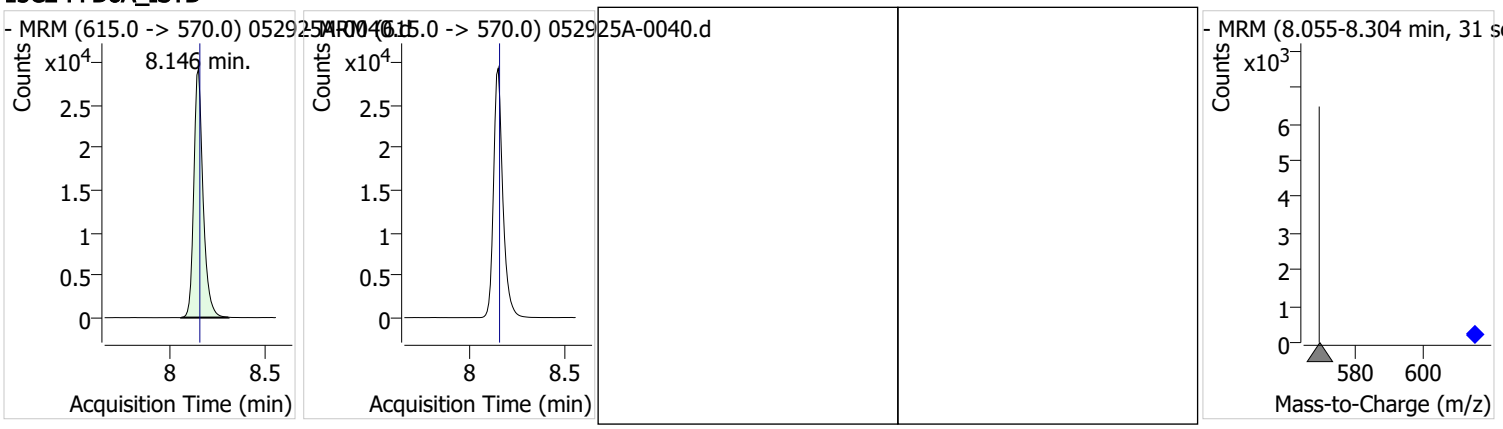
13C3-PFBS







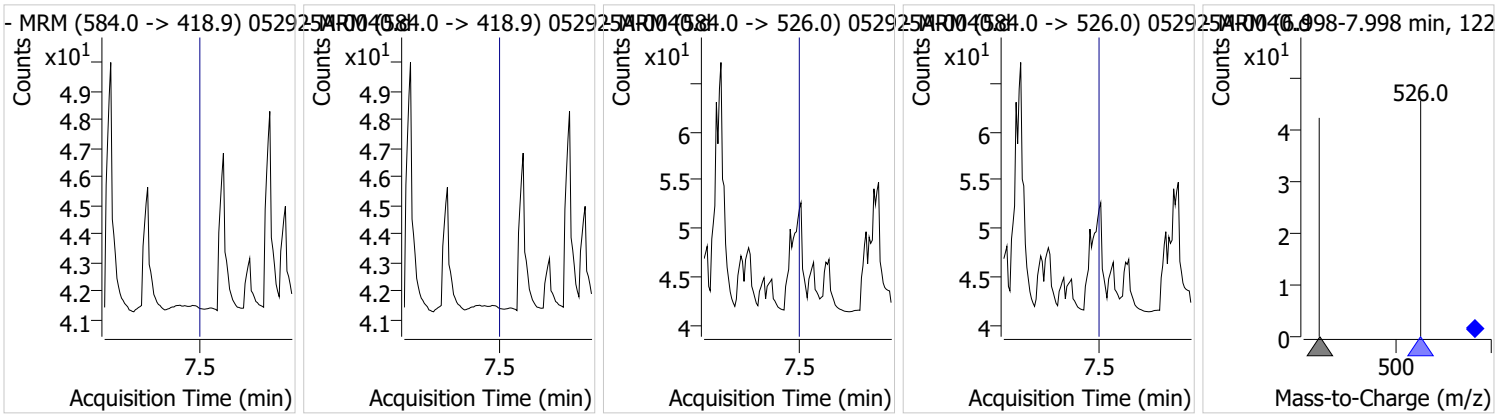
13C2-PFDoA_ISTD



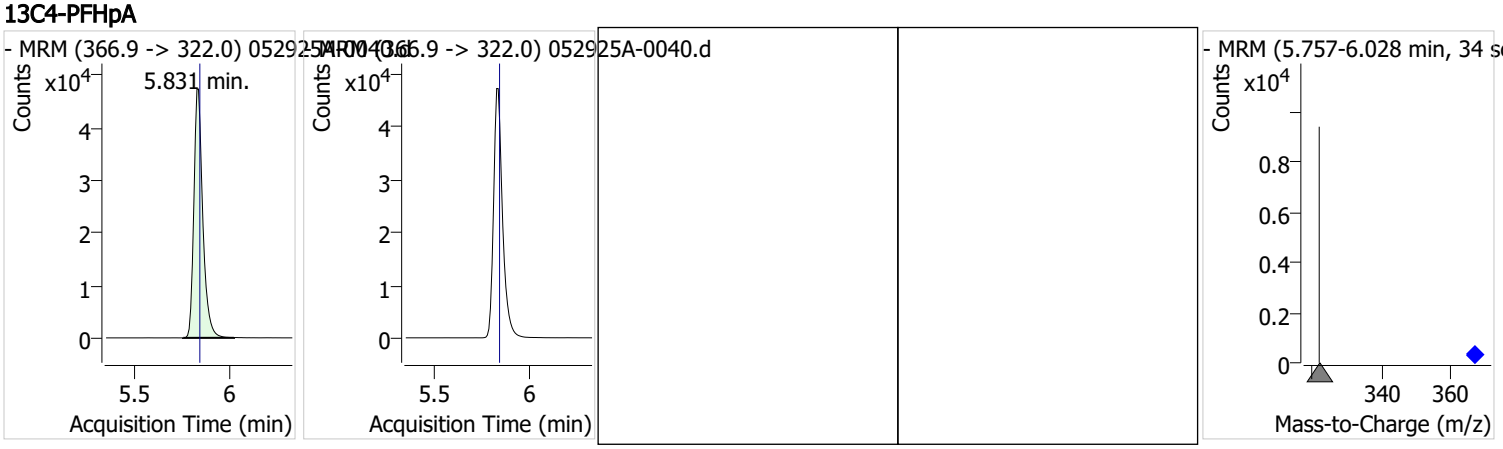
13C3-PFHxS



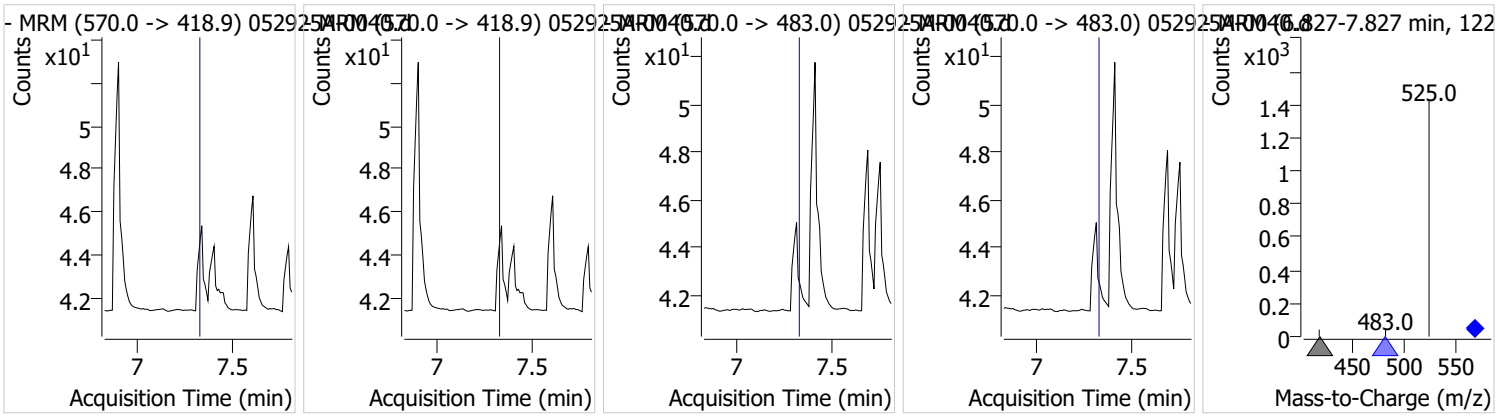
NEtFOSAA



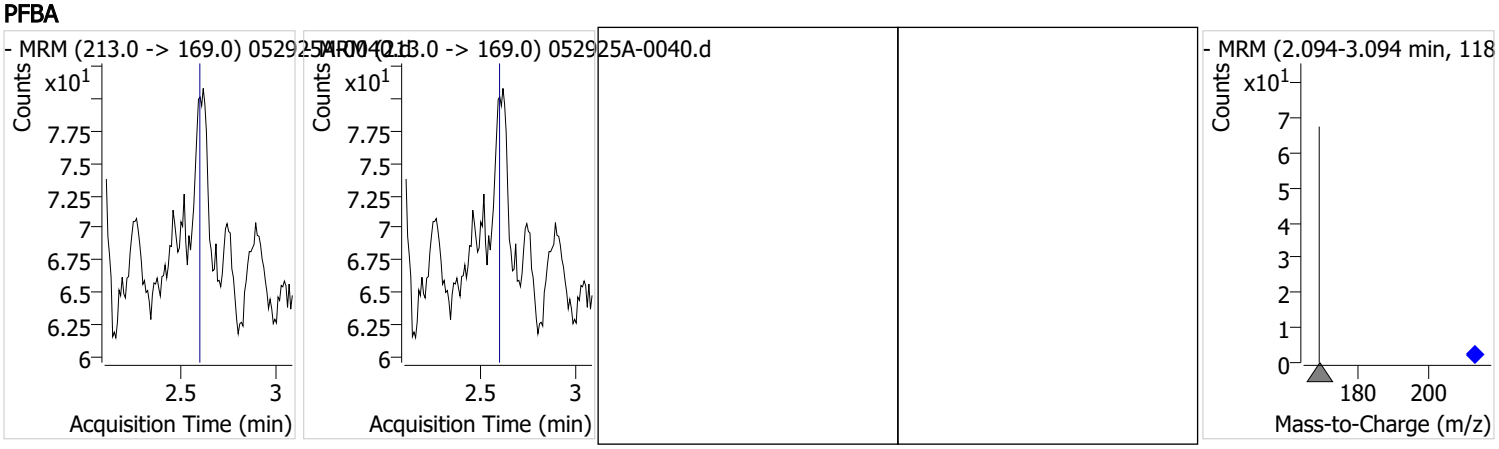
13C4-PFHpA



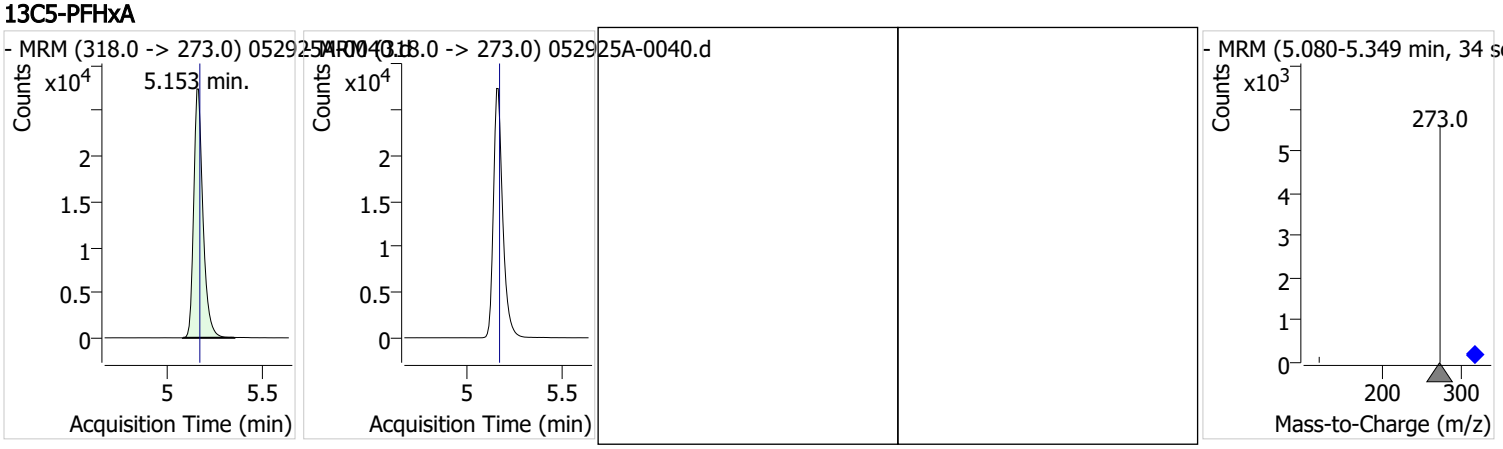
NMeFOSAA



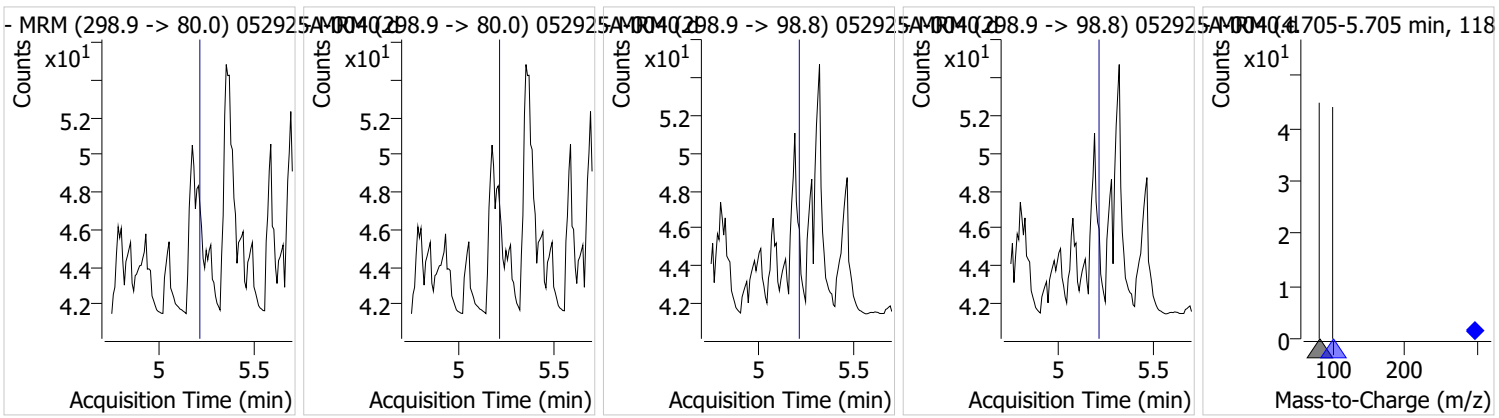
PFBA



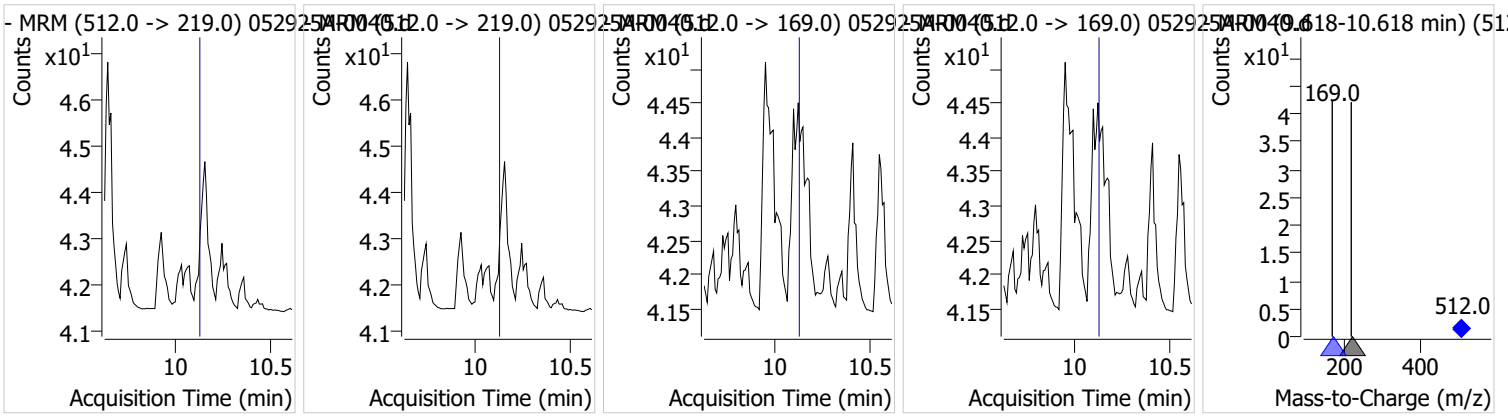
13C5-PFHxA



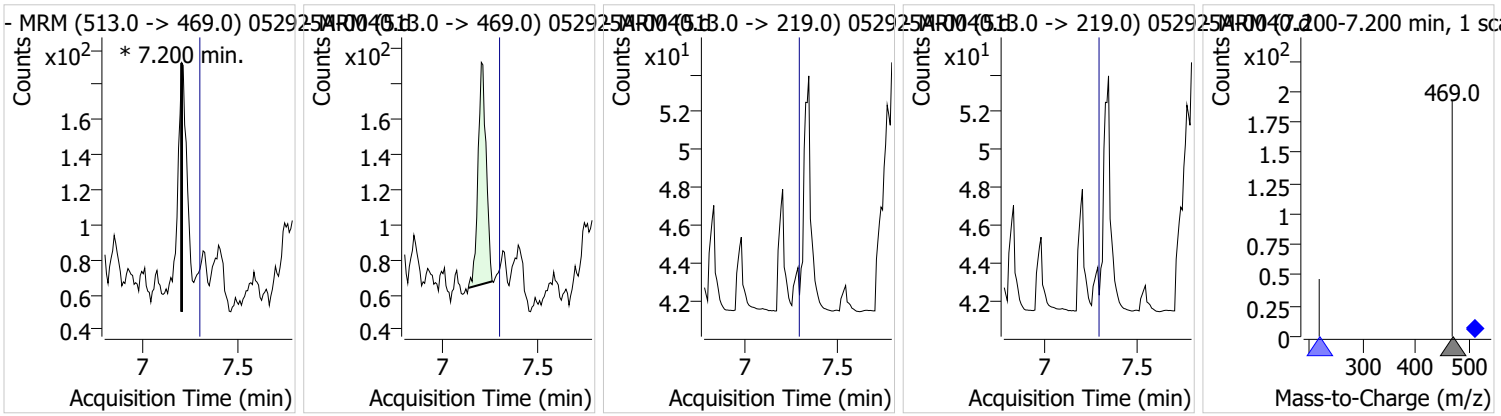
PFBS



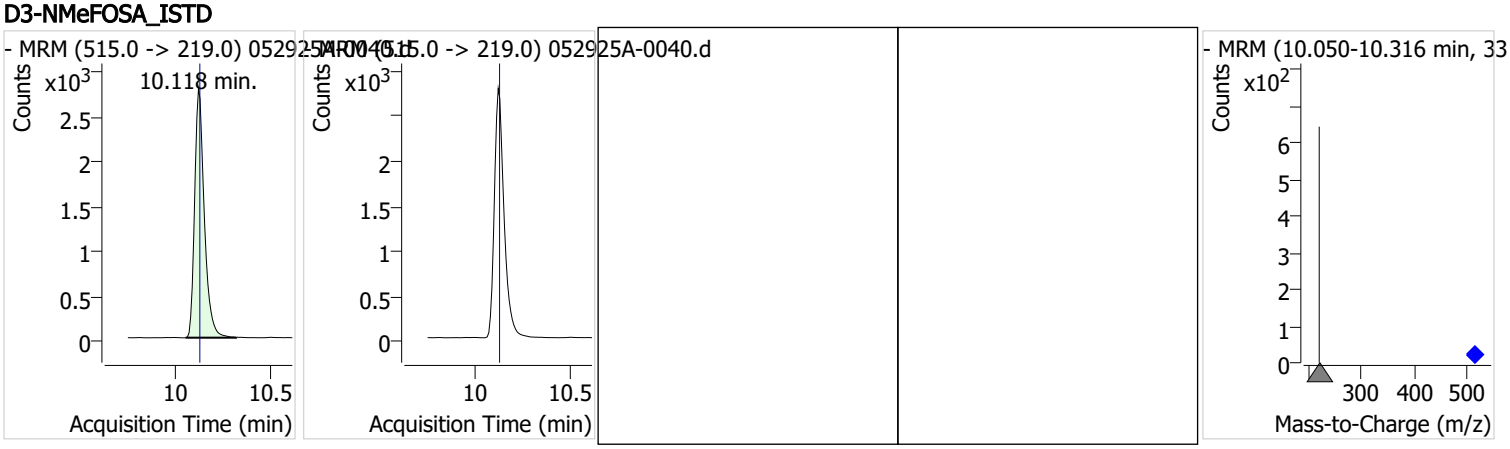
NMeFOSA



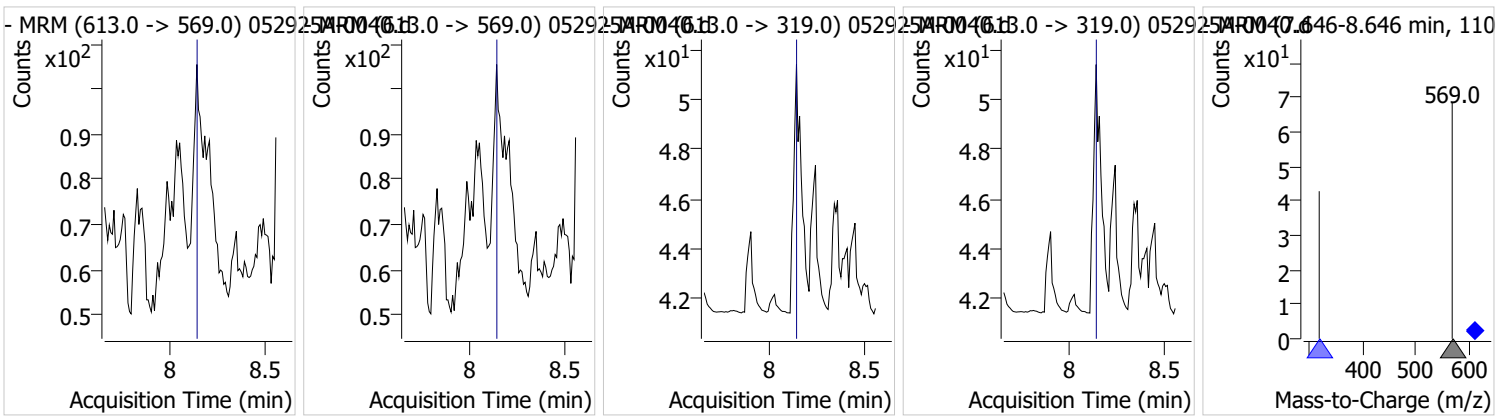
PFDA



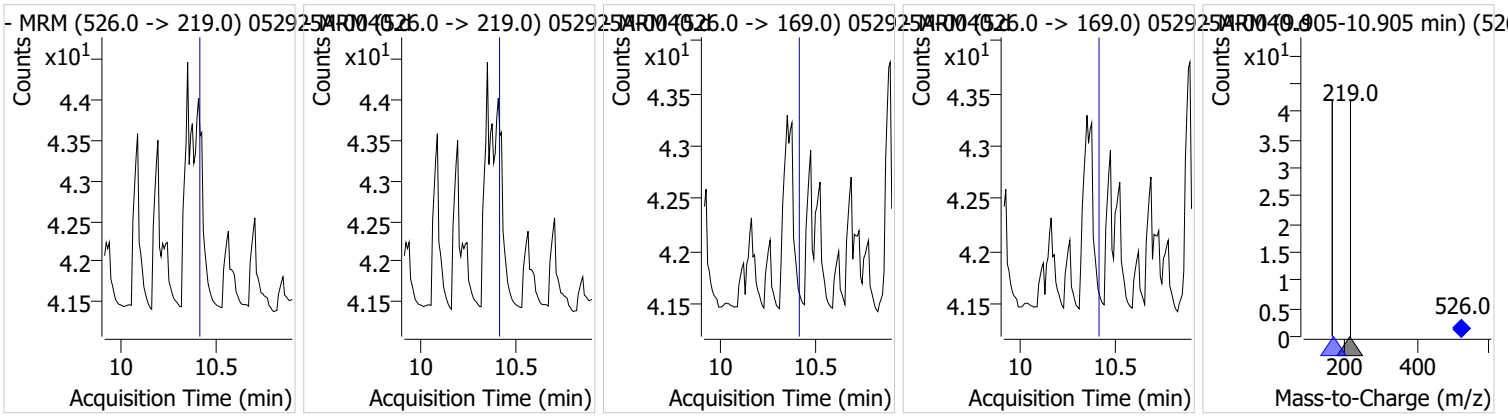
D3-NMeFOSA_ISTD



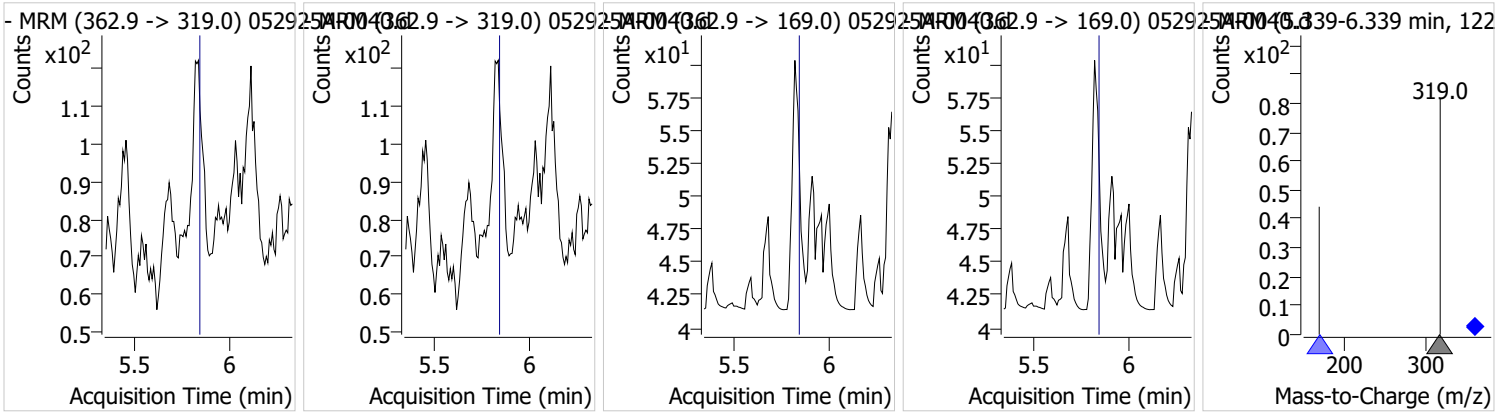
PFDoA



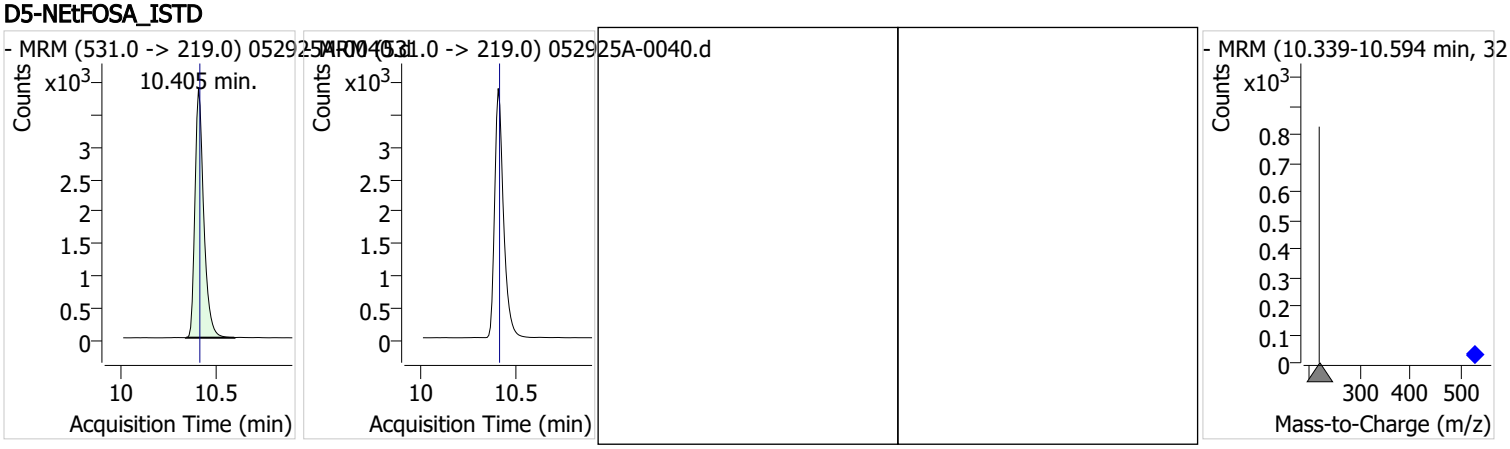
NEtFOSA



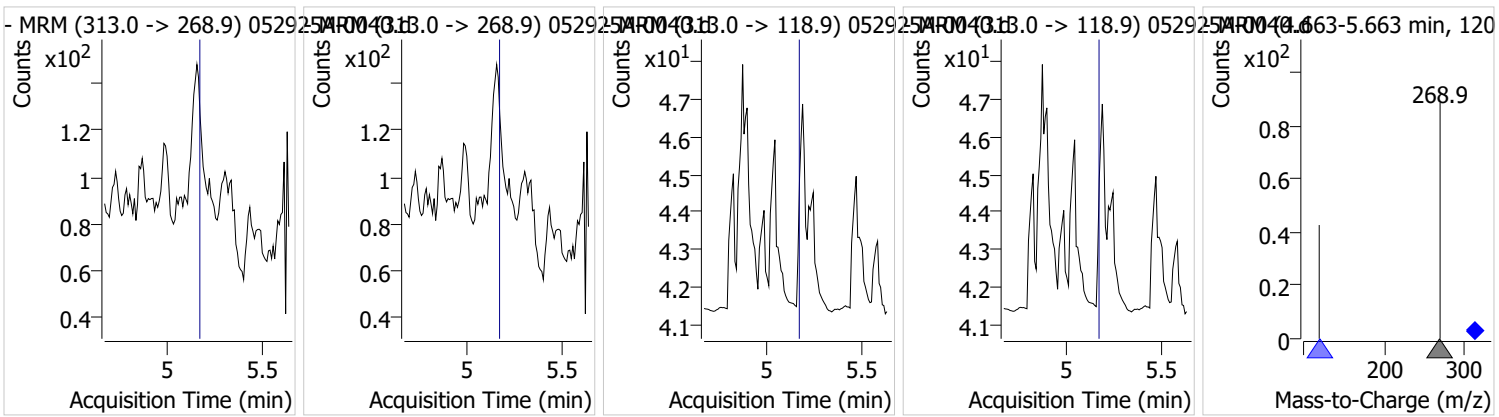
PFHpA



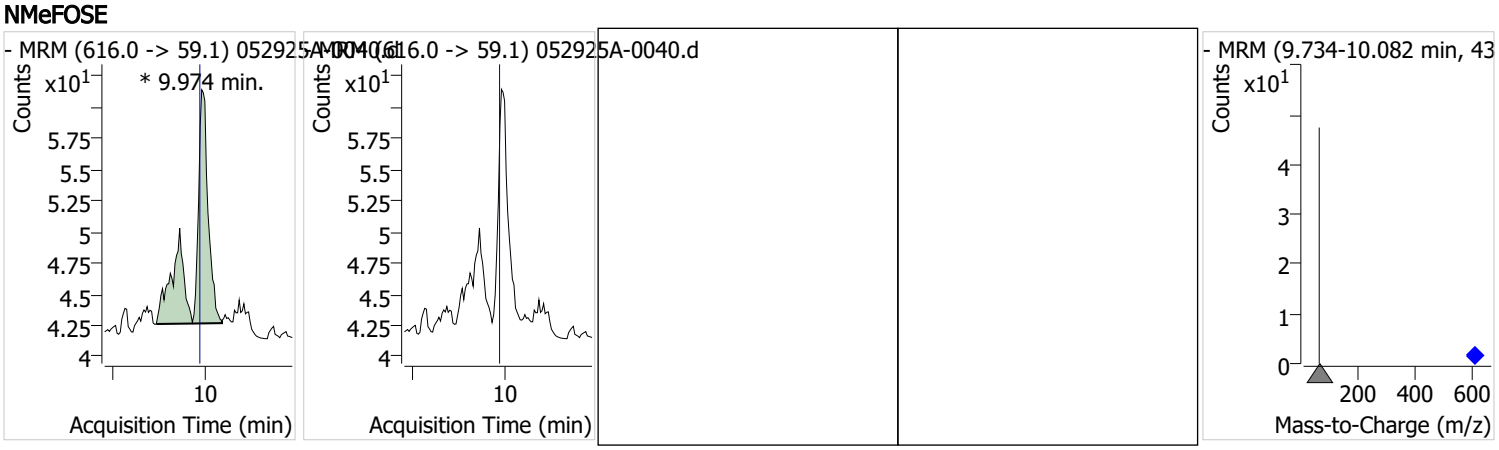
D5-NEtFOSA_ISTD



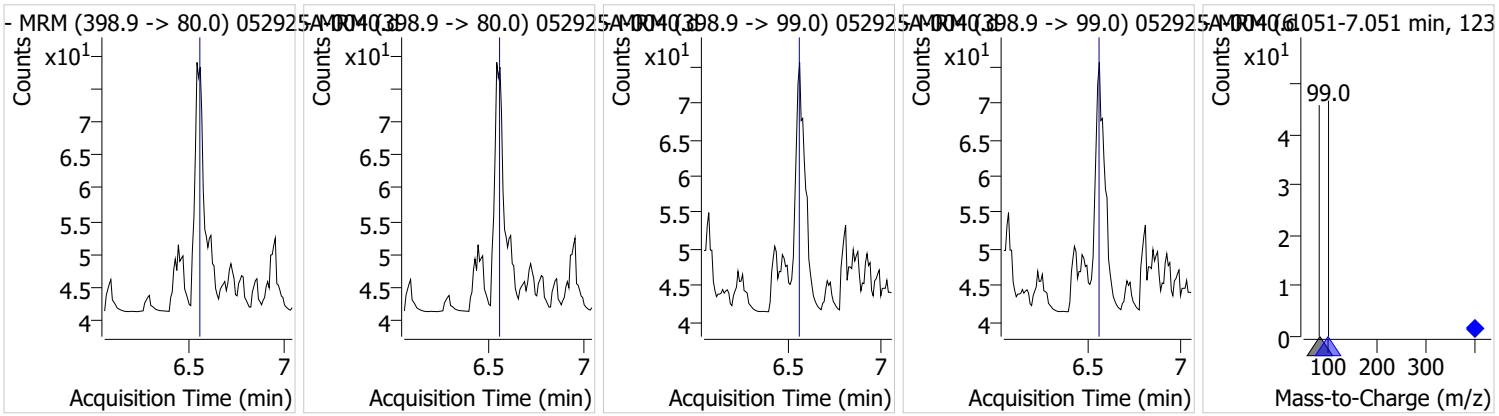
PFHxA



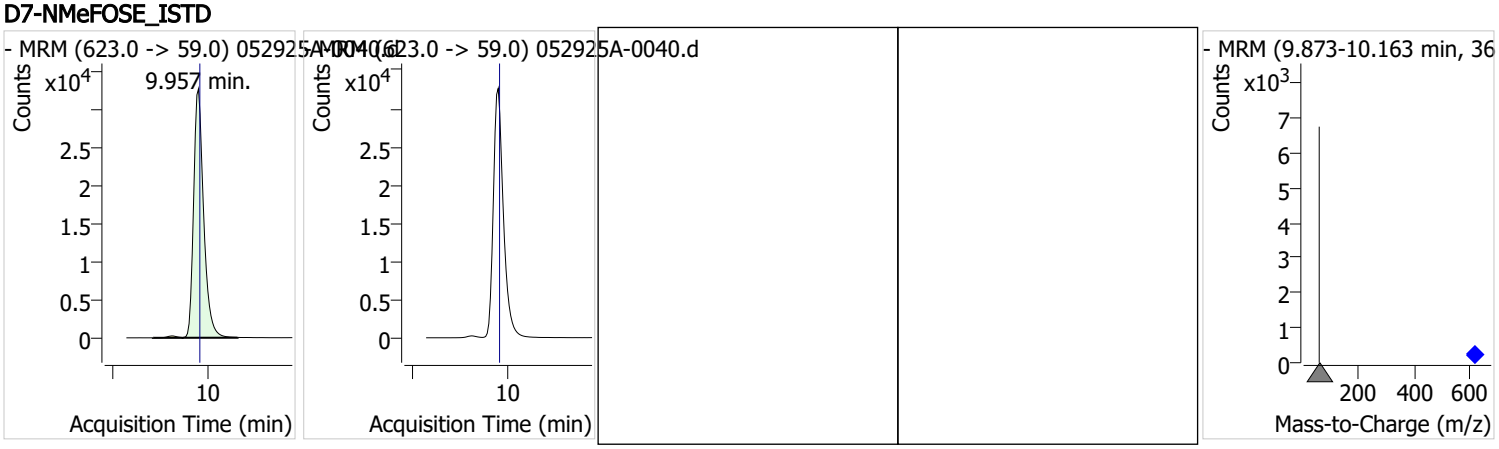
NMeFOSE



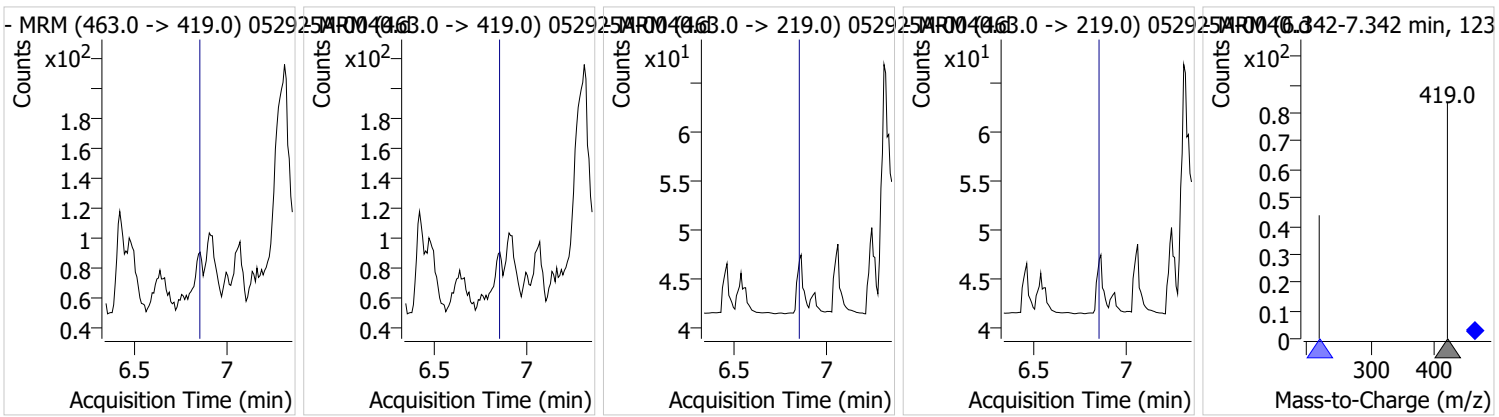
PFHxS



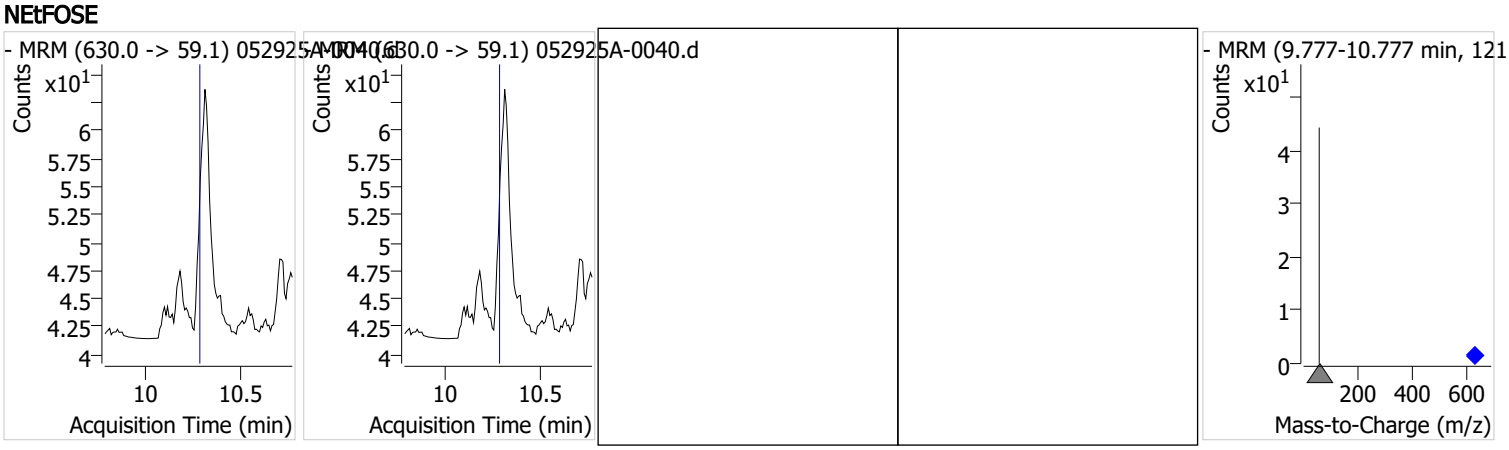
D7-NMeFOSE_ISTD



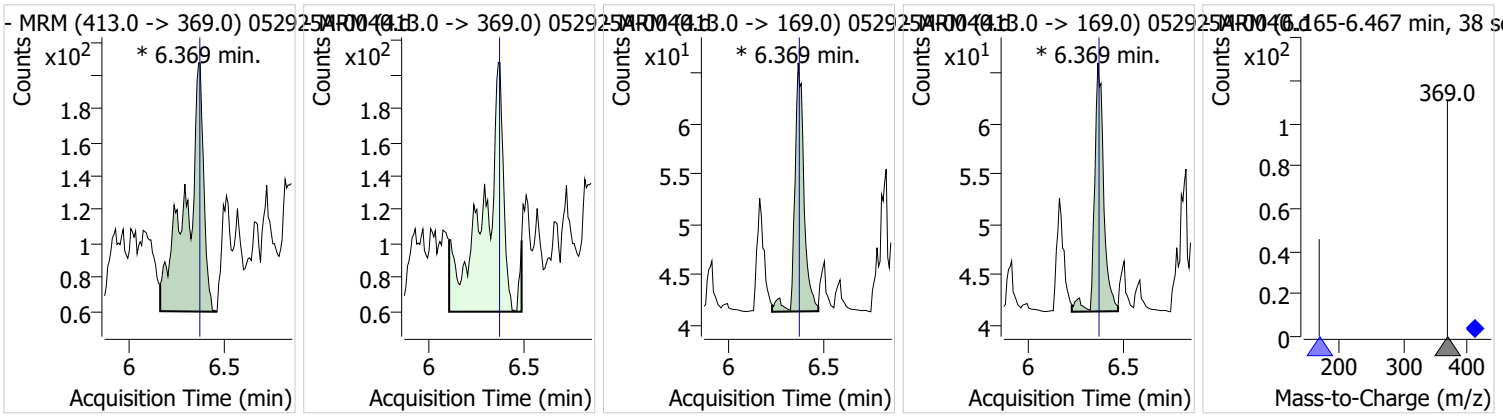
PFNA



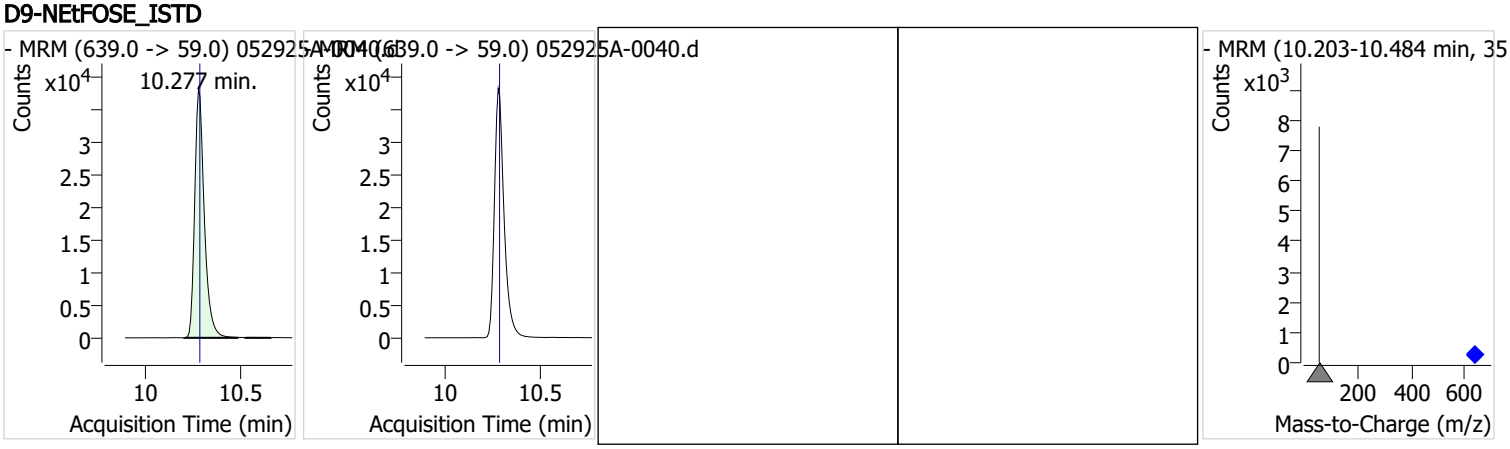
NEtFOSE



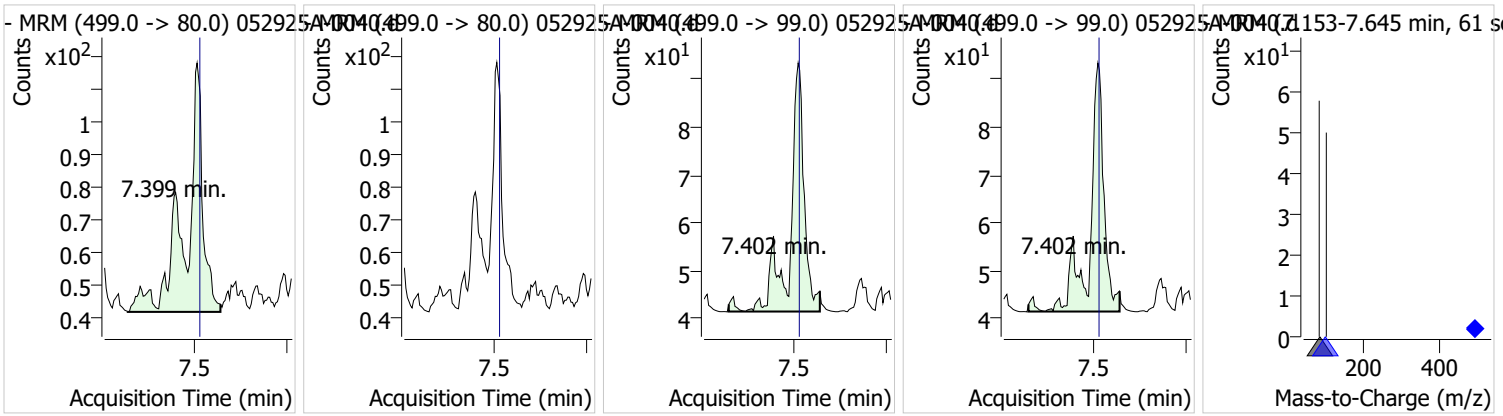
PFOA



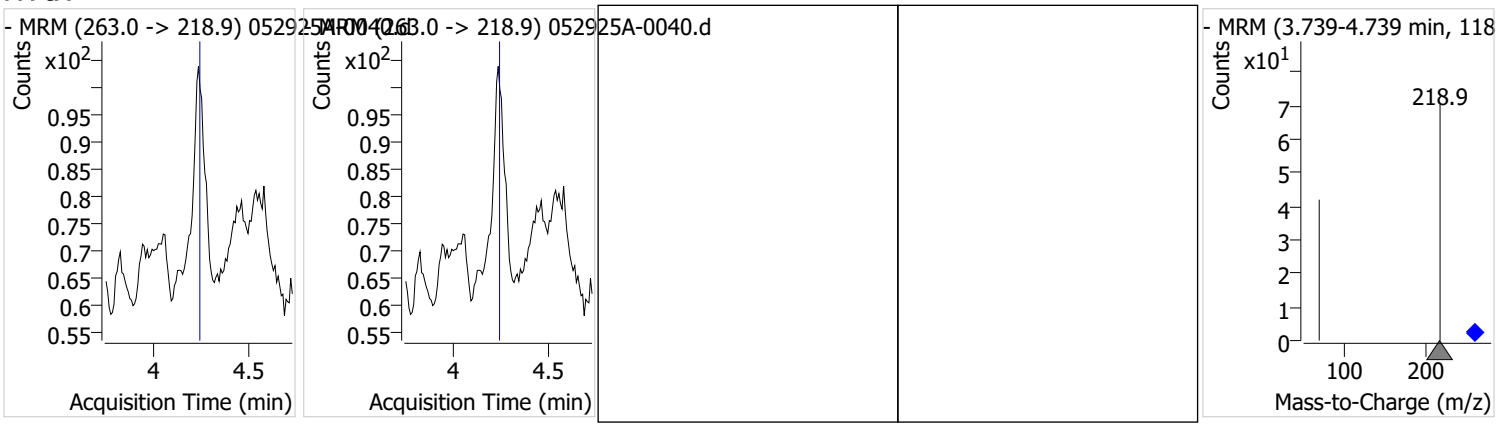
D9-NEtFOSE_ISTD



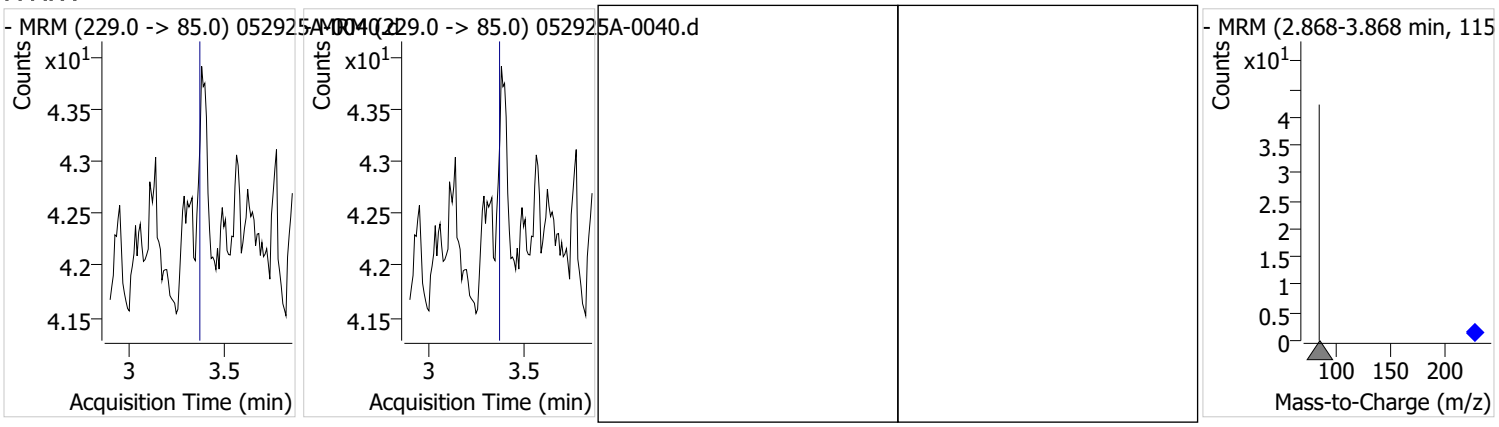
PFOS



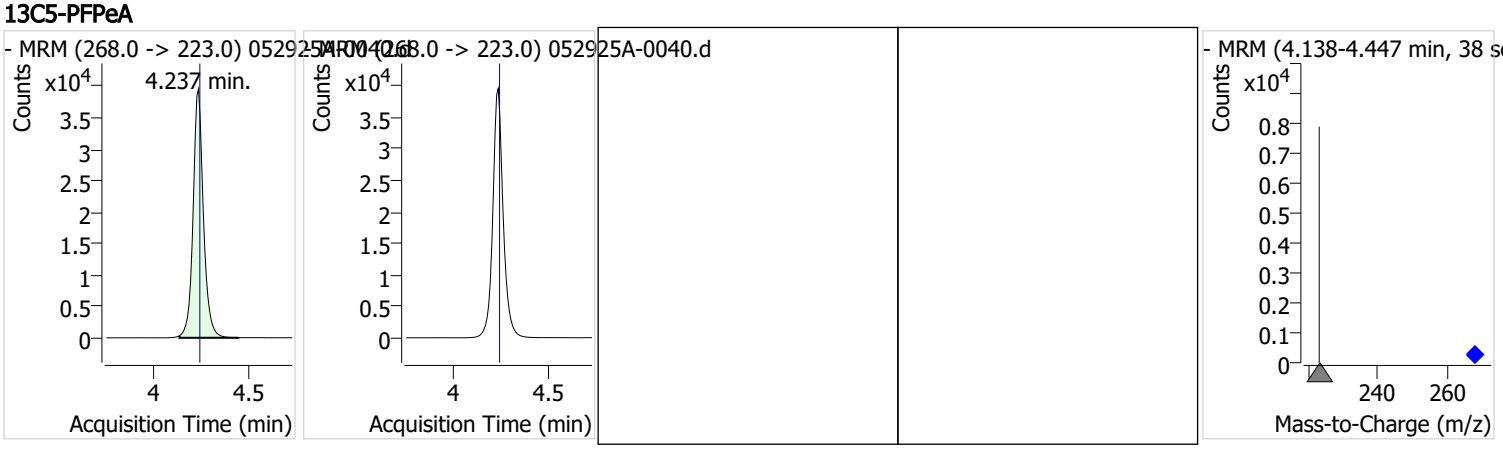
PFPeA



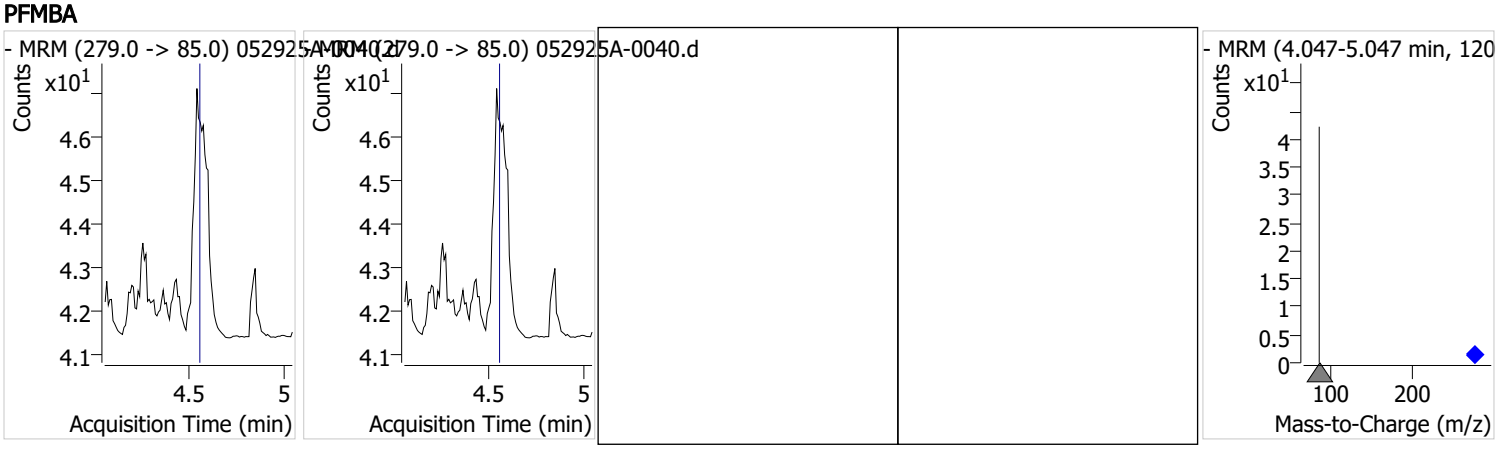
PFMPA



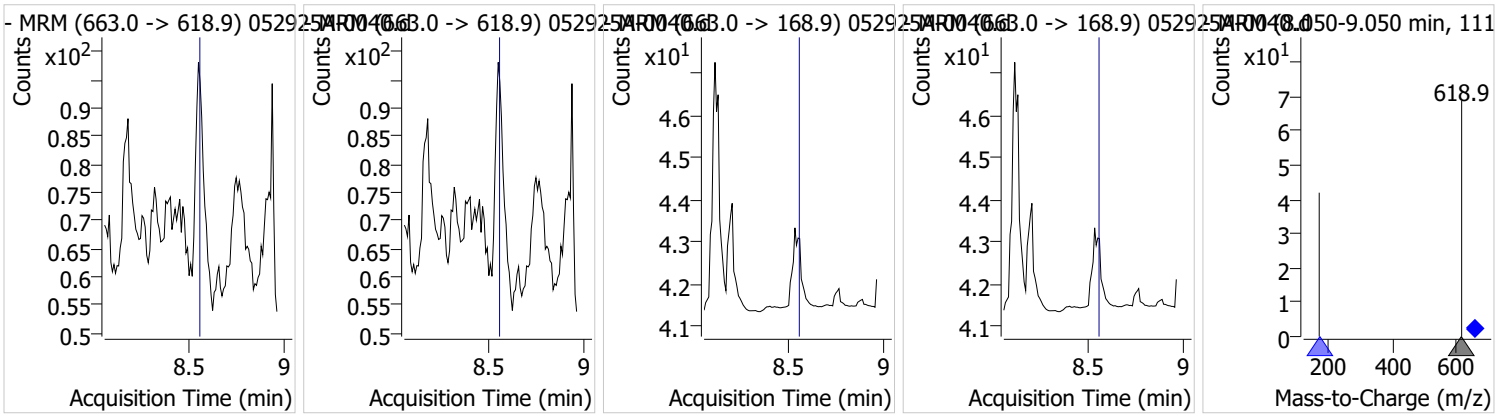
13C5-PFPeA



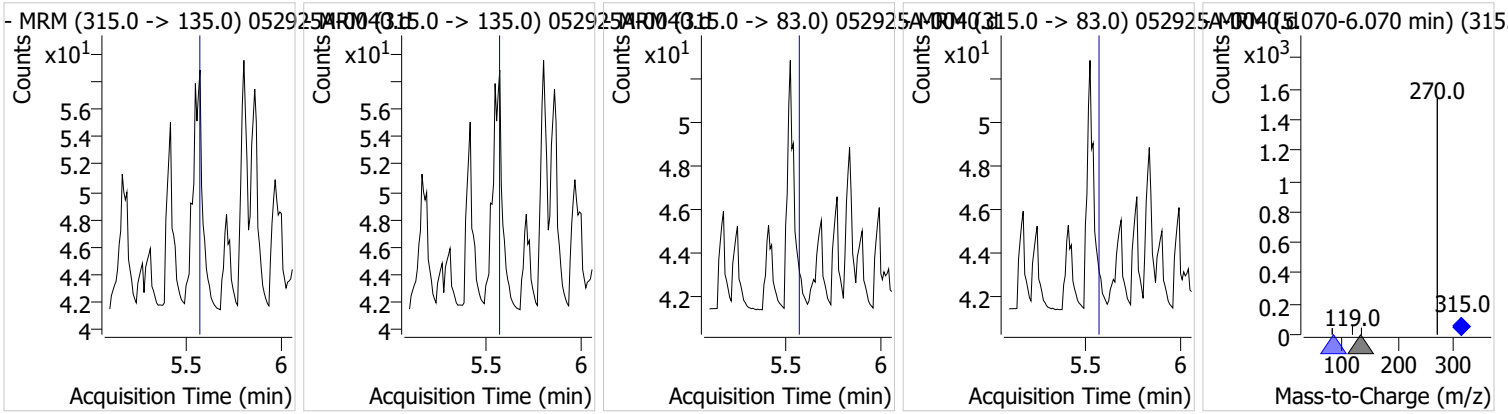
PFMBA



PFTrDA



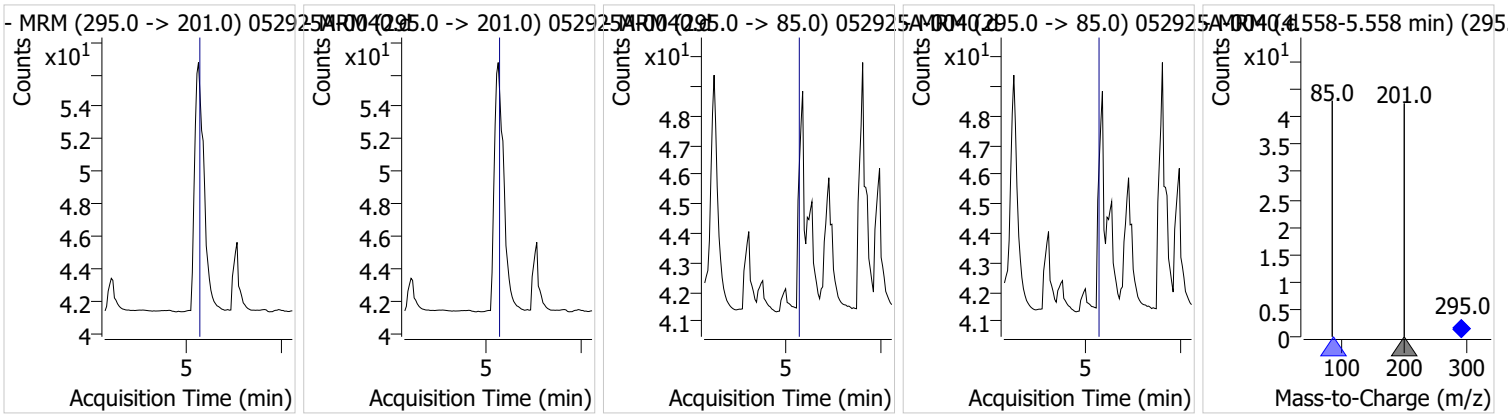
PFEESA



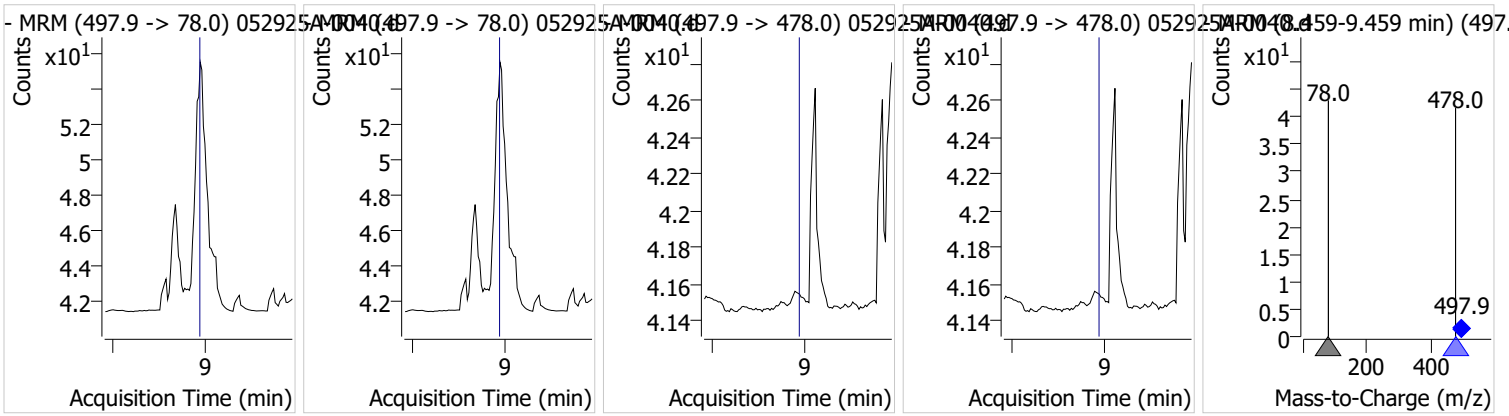
13C6-PFDA



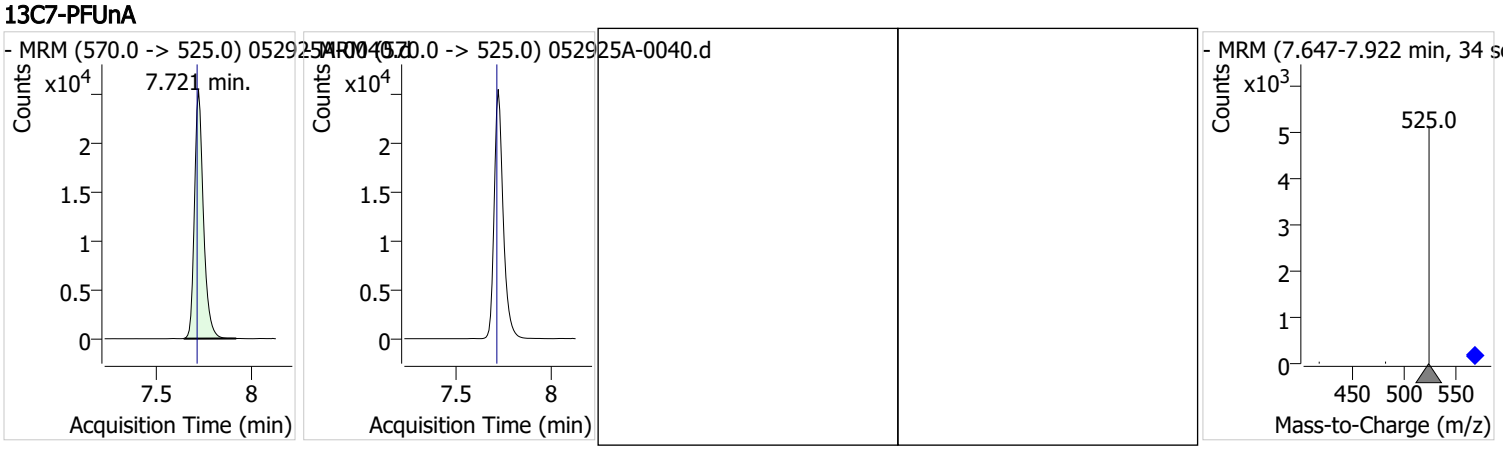
NFDHA



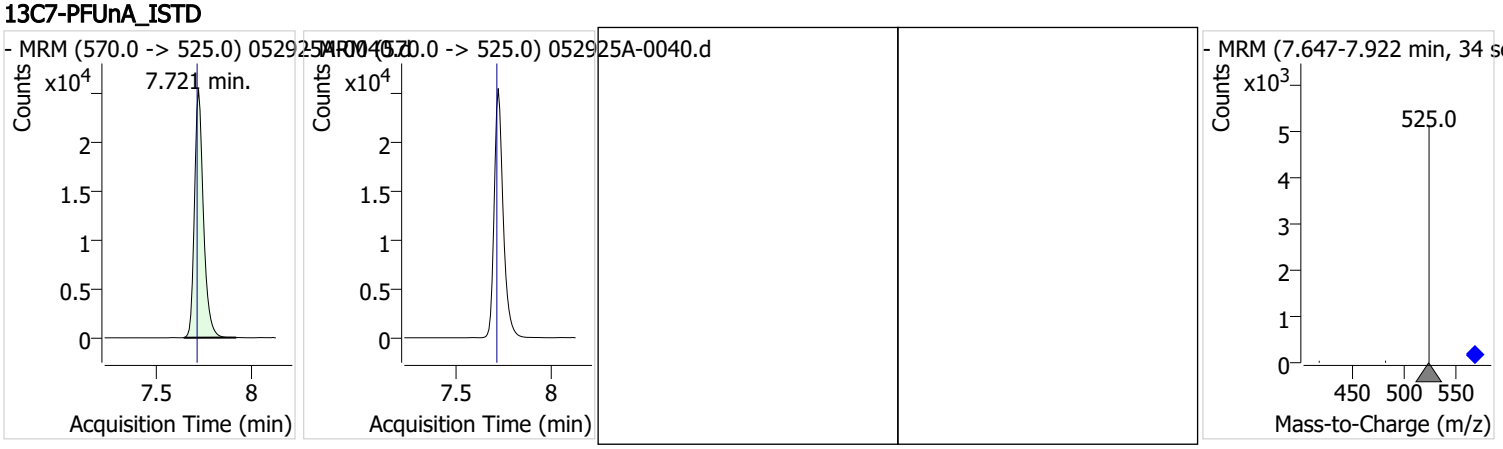
PFOSA



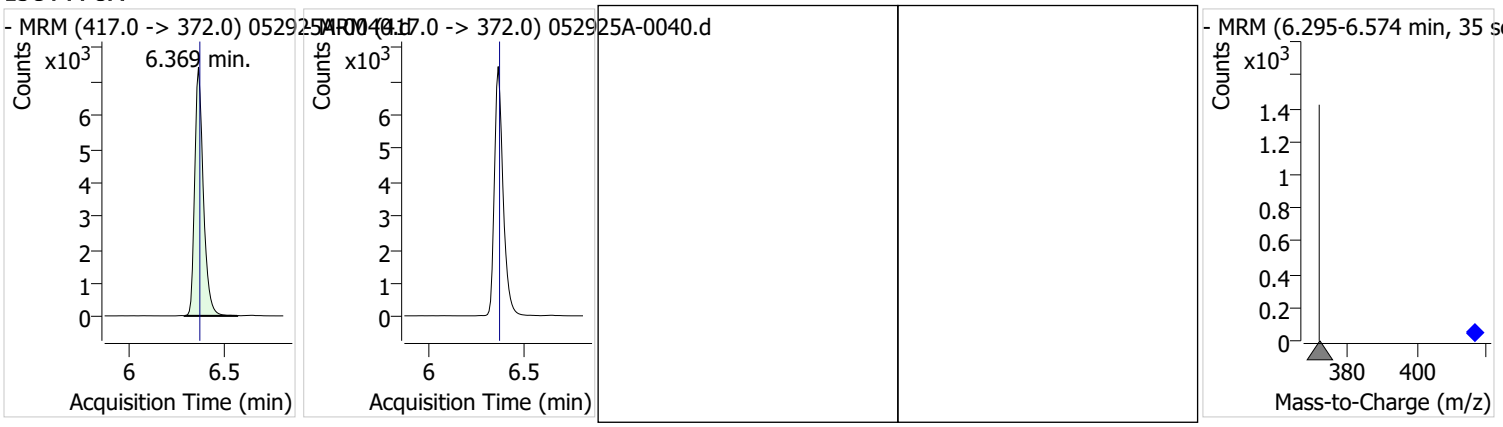
13C7-PFUnA



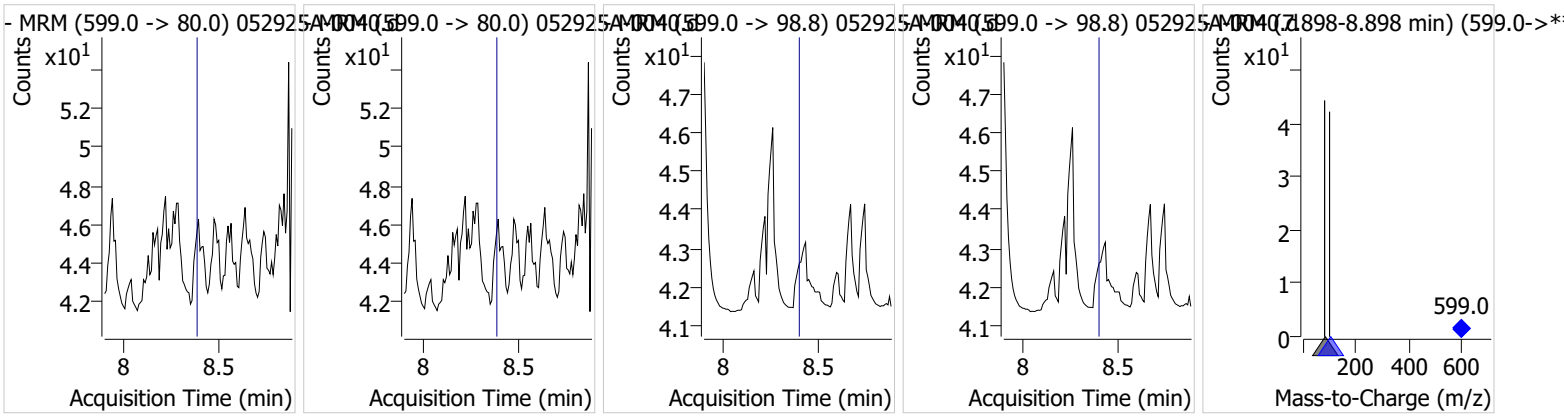
13C7-PFUnA_ISTD



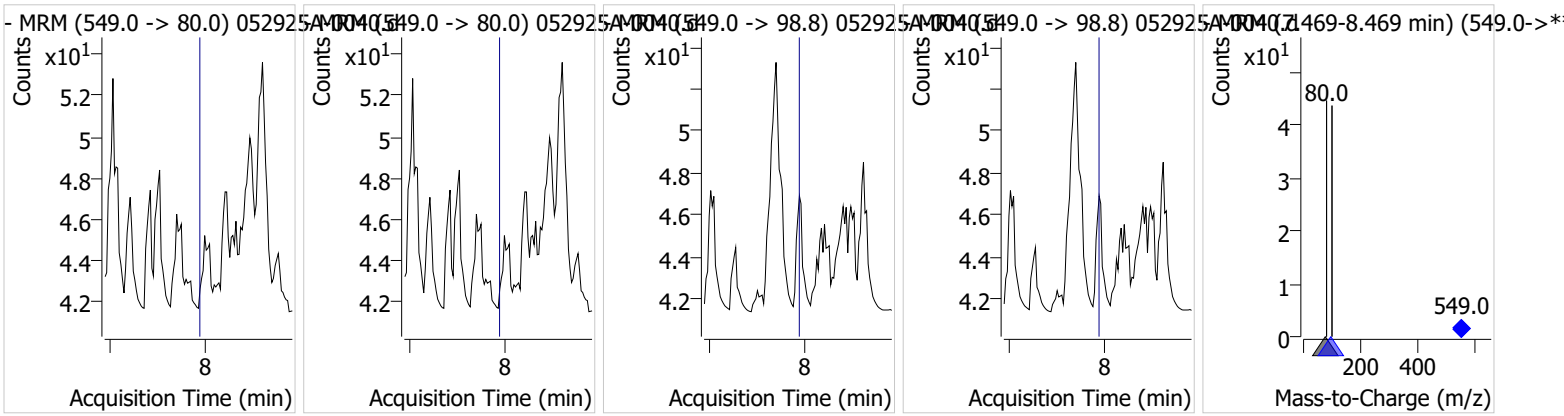
13C4-PFOA



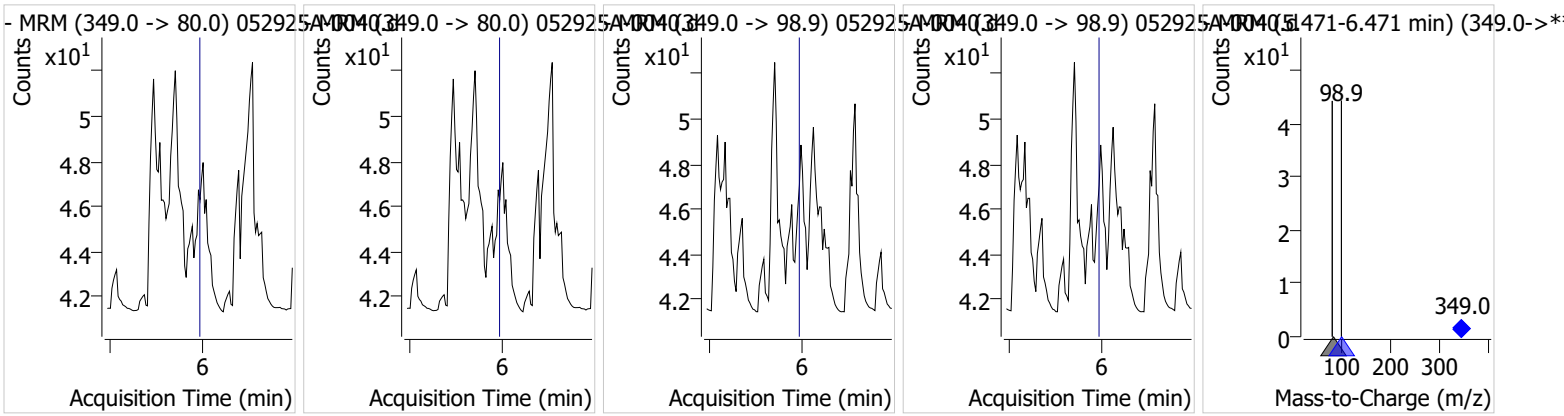
PFDS



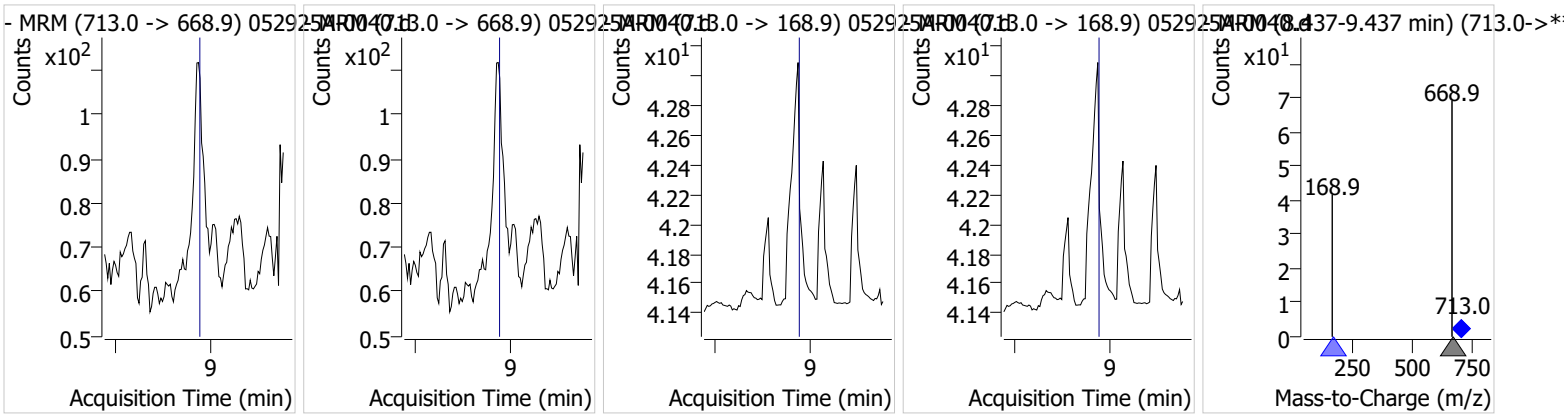
PFNS



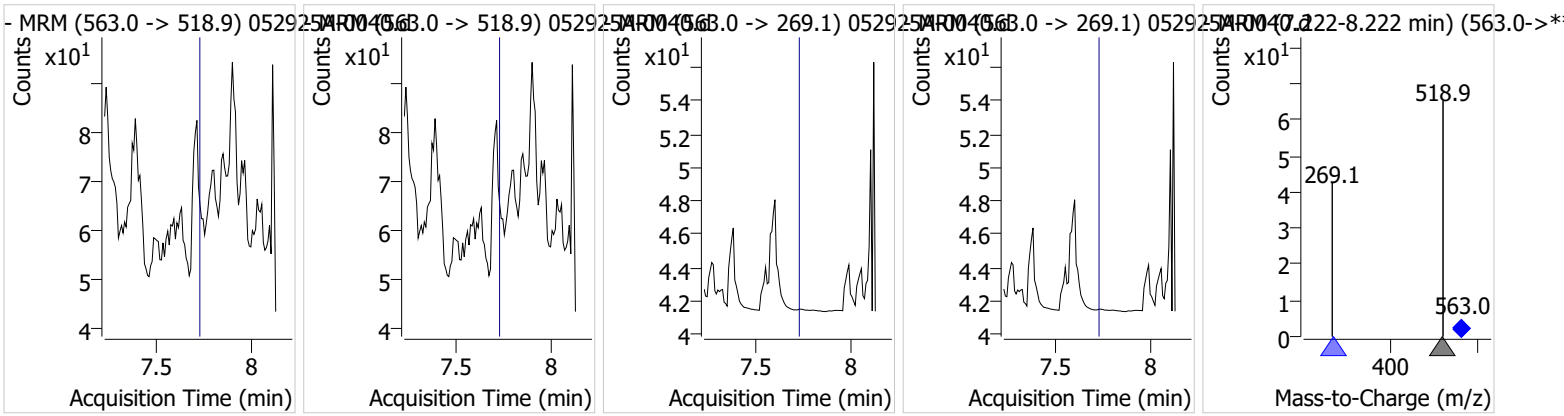
PFPeS



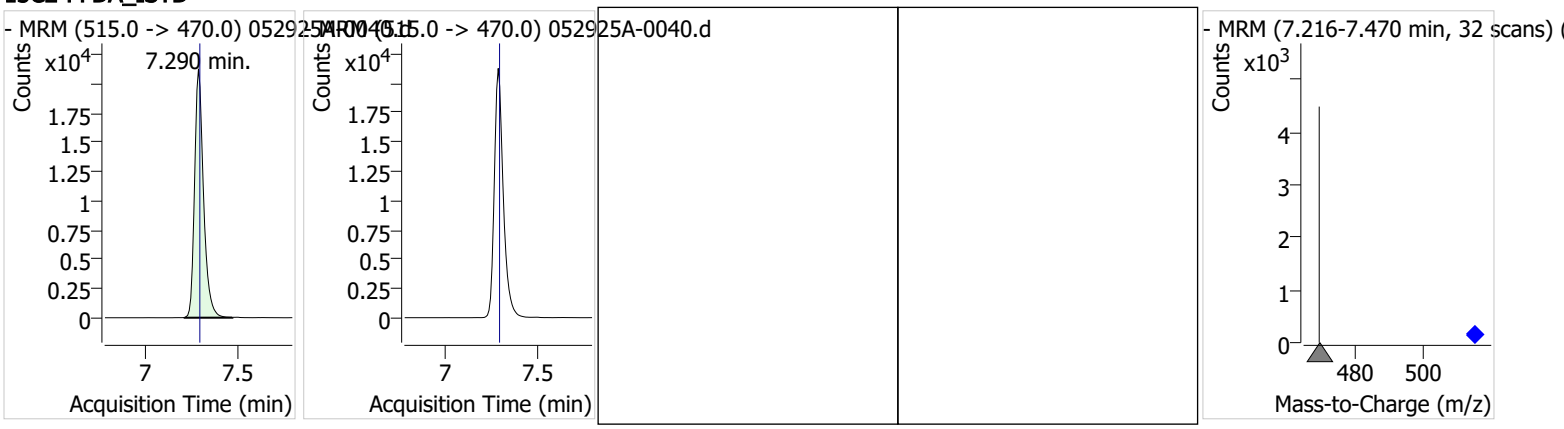
PFTeDA



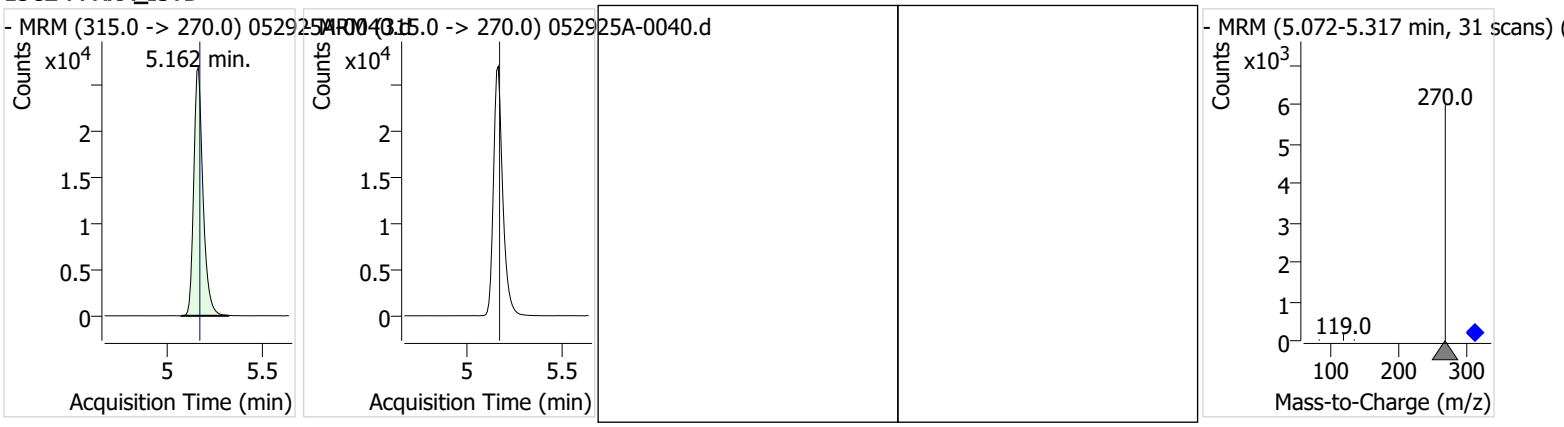
PFUnA



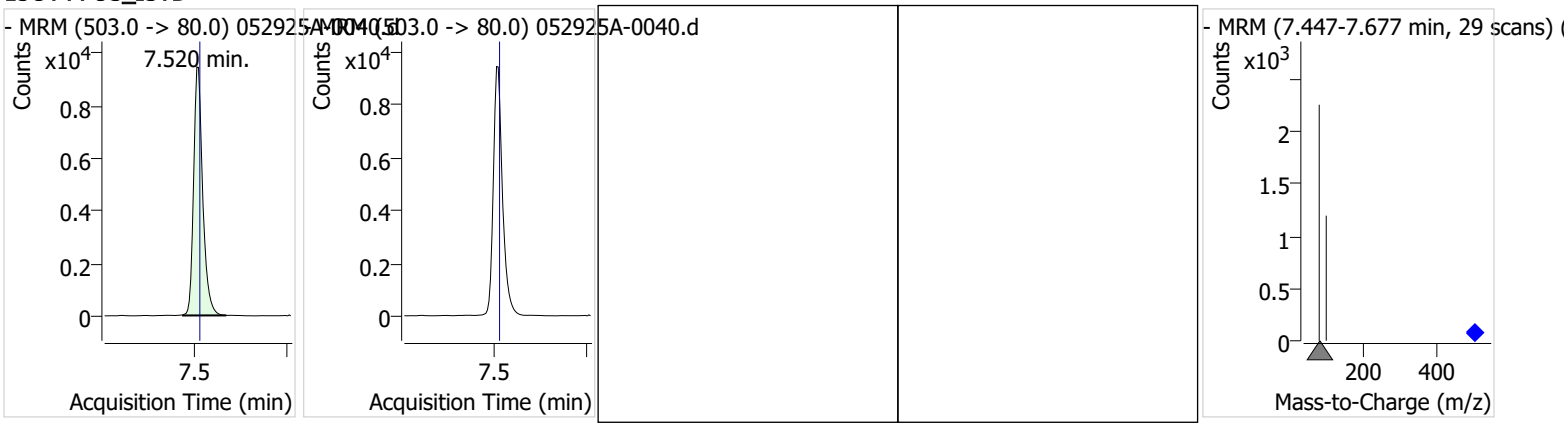
13C2-PFDA_ISTD



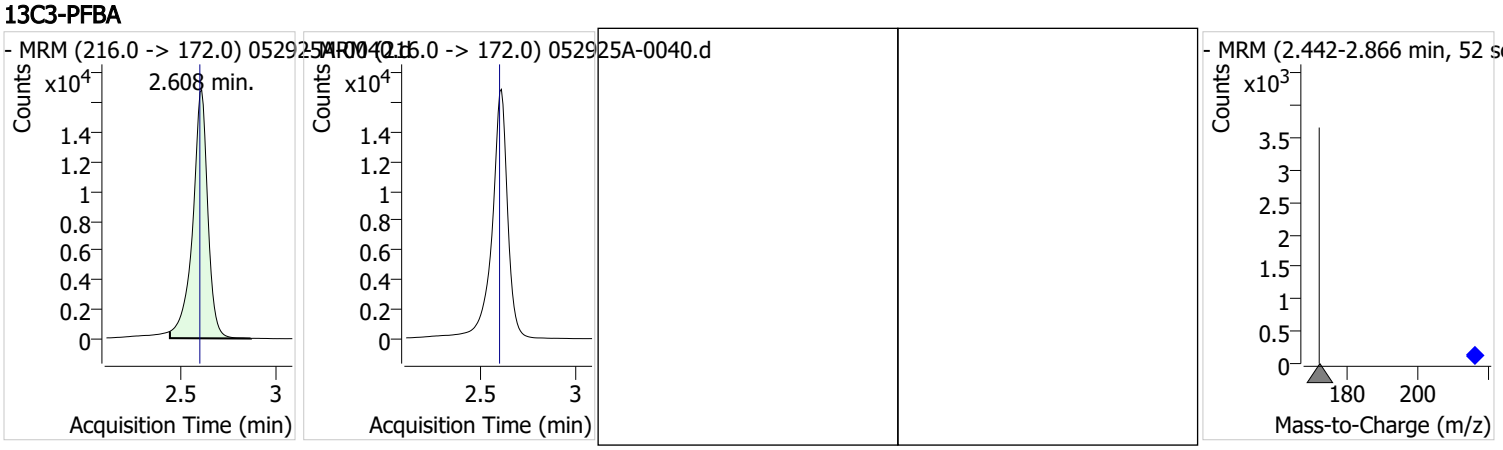
13C2-PFHxA_ISTD



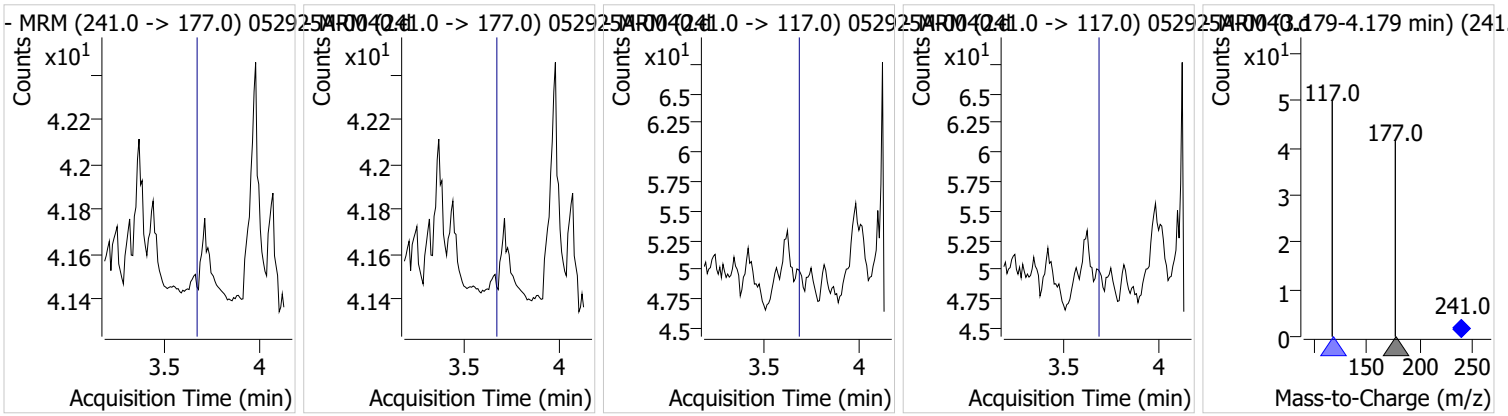
13C4-PFOS_ISTD



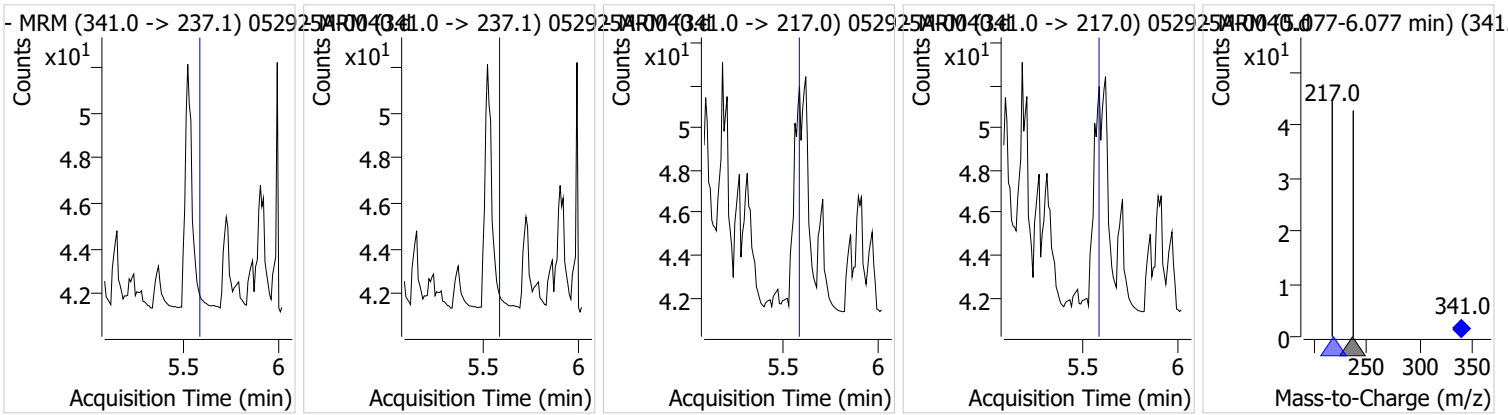
13C3-PFBA



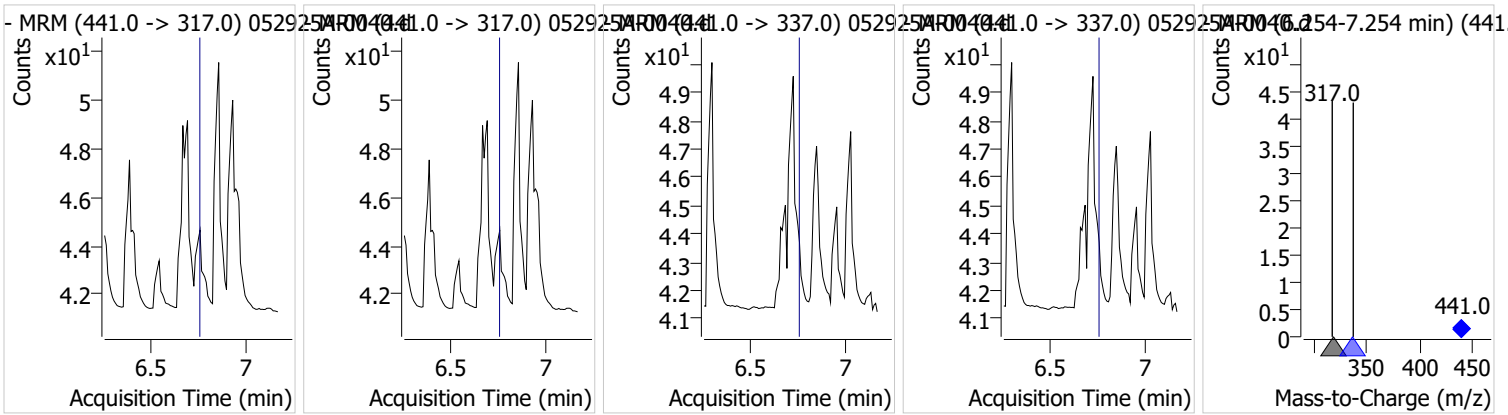
3:3FTCA



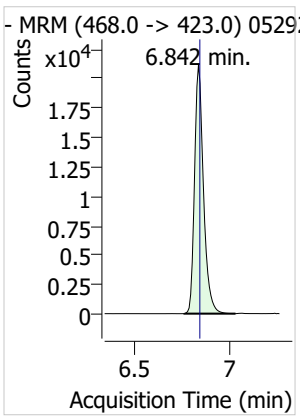
5:3FTCA

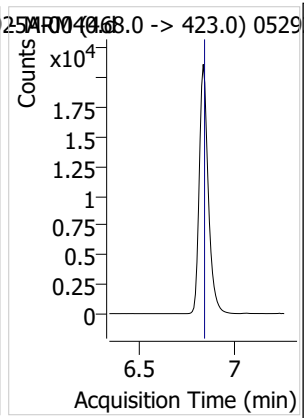


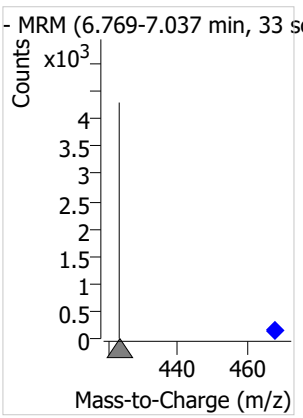
7:3FTCA



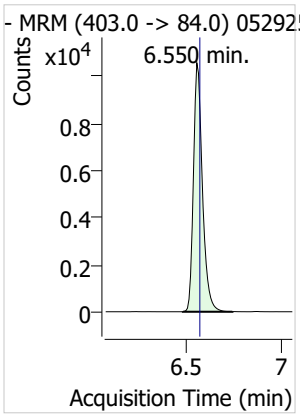
13C5-PFNA

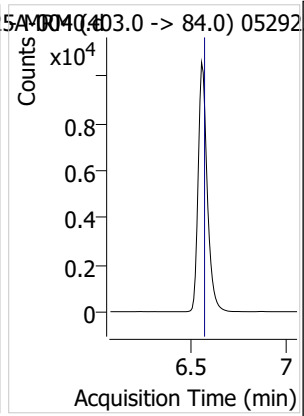


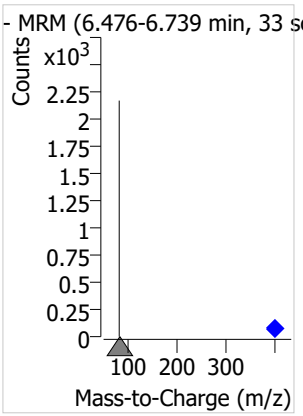




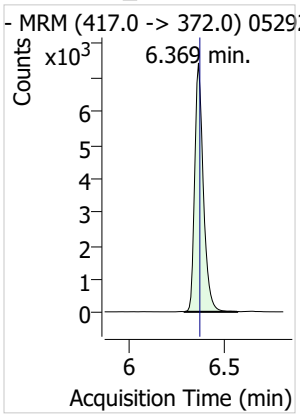
18O2-PFHxS

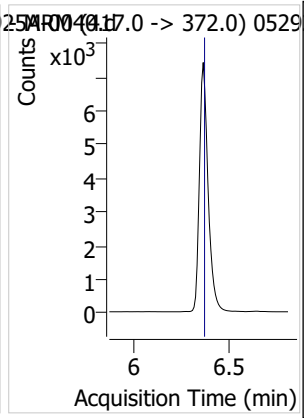


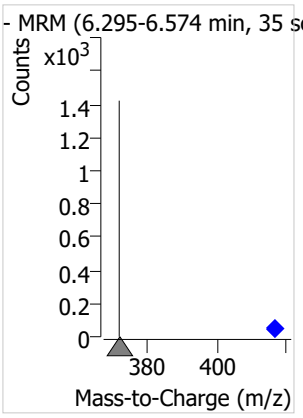




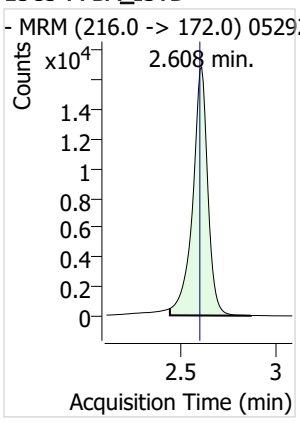
13C4-PFOA_ISTD

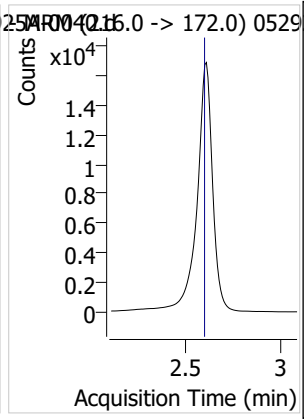


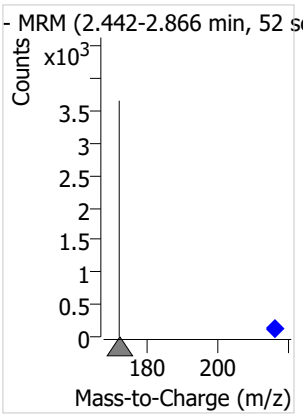




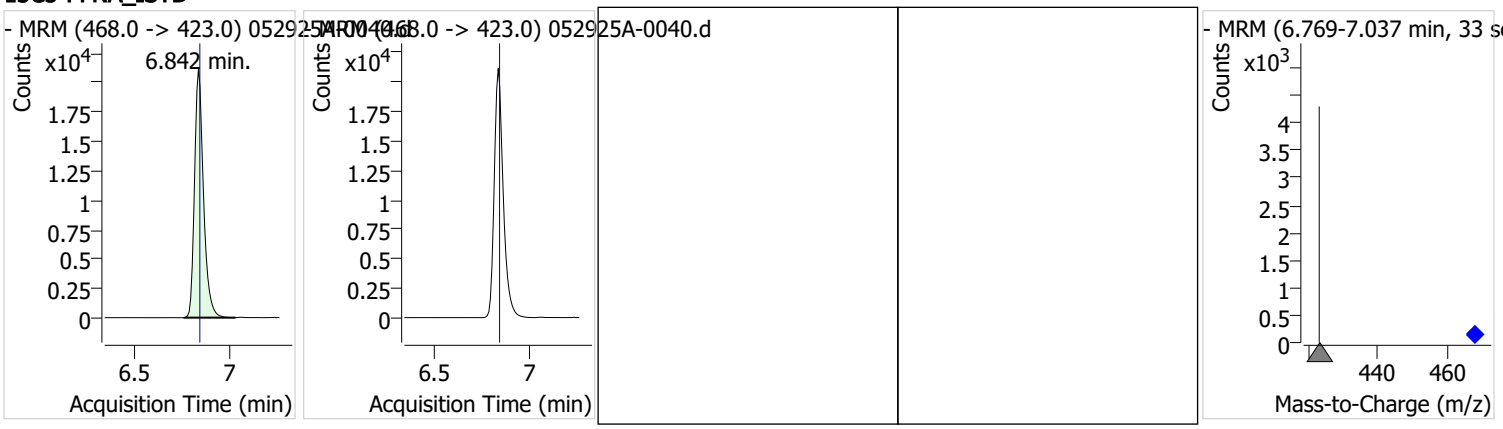
13C3-PFBA_ISTD



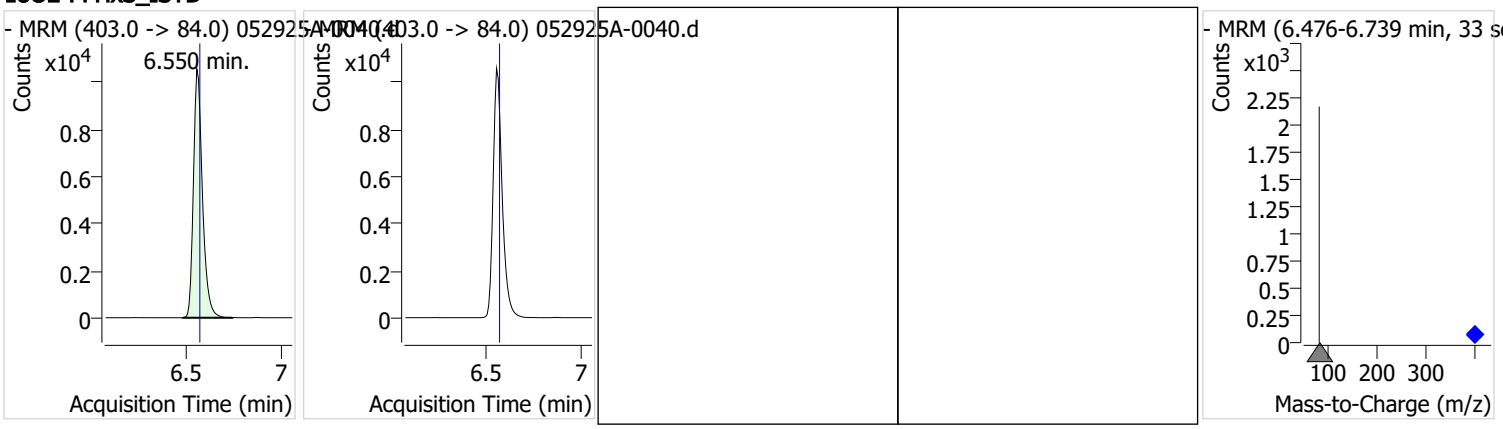




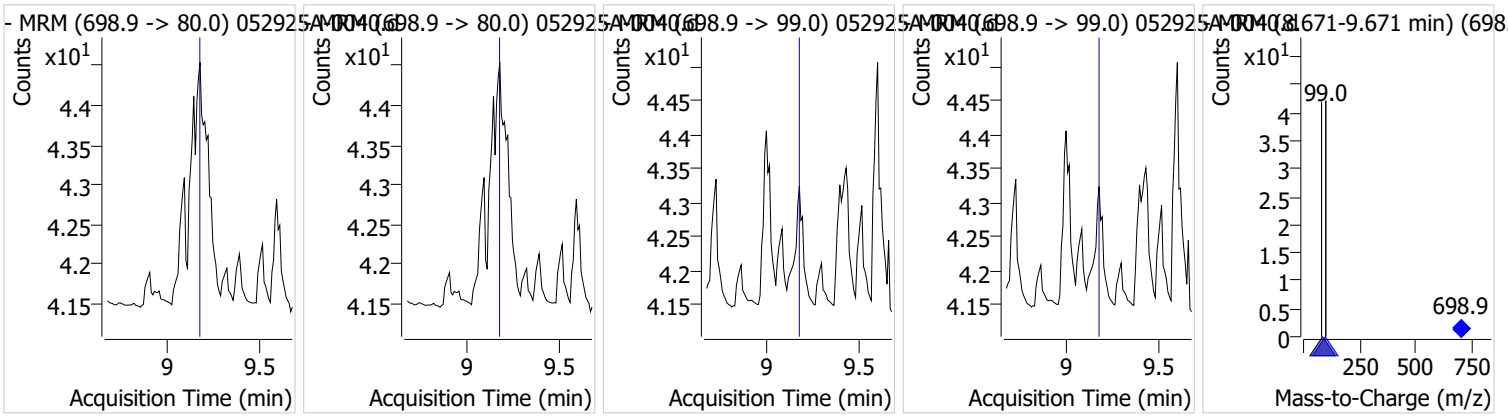
13C5-PFNA_ISTD



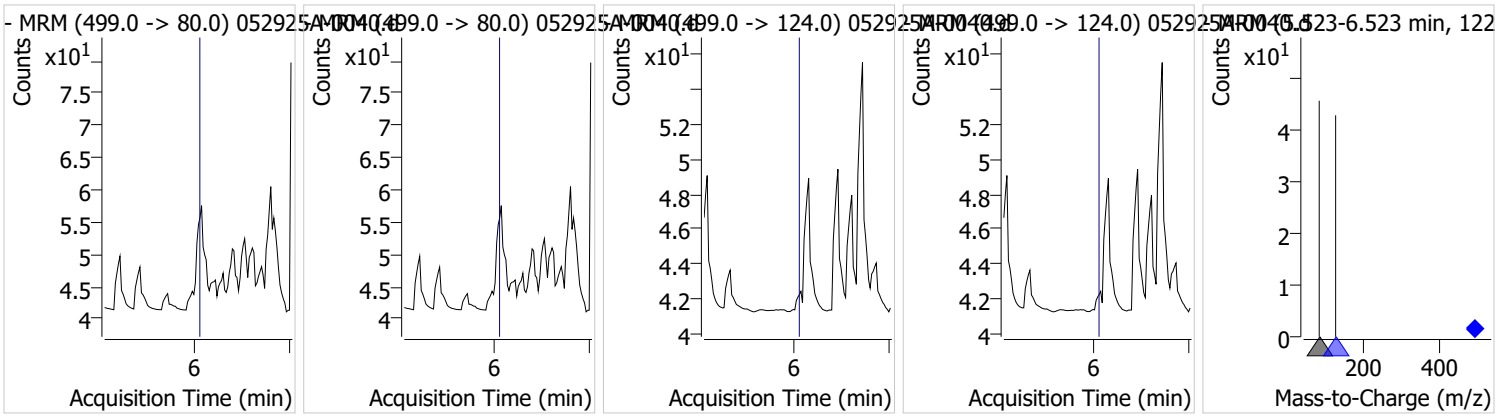
18O2-PFHxS_ISTD



PFDoS



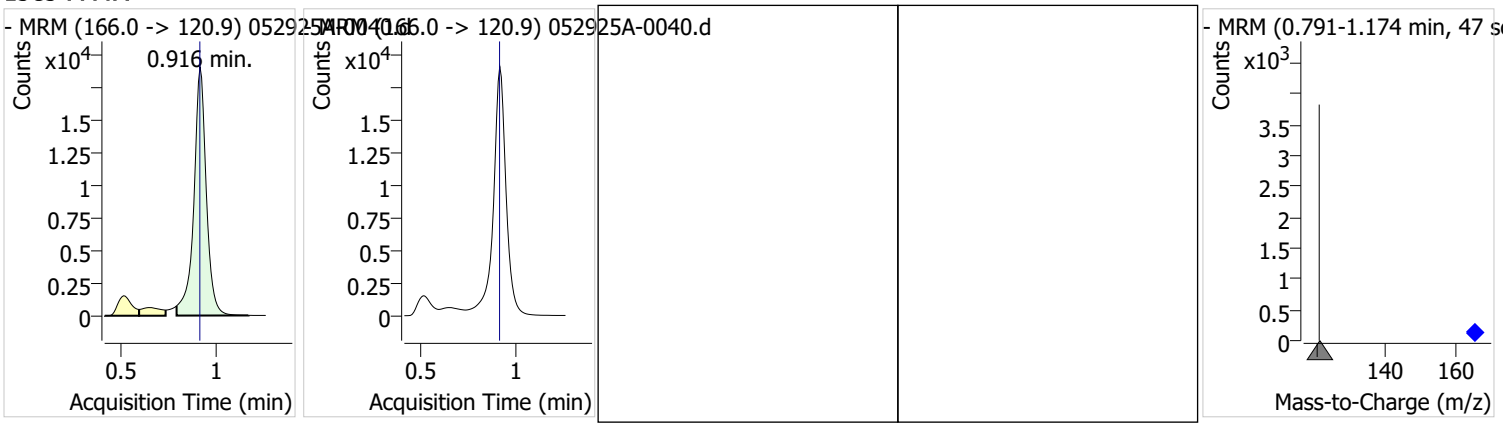
TDCA



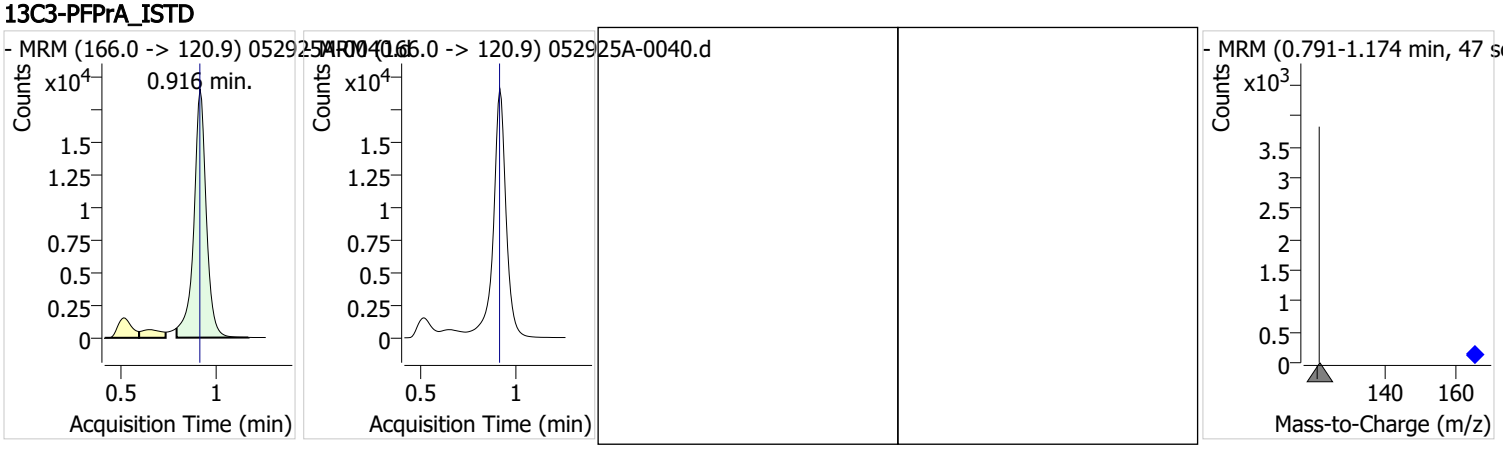
PFPrA



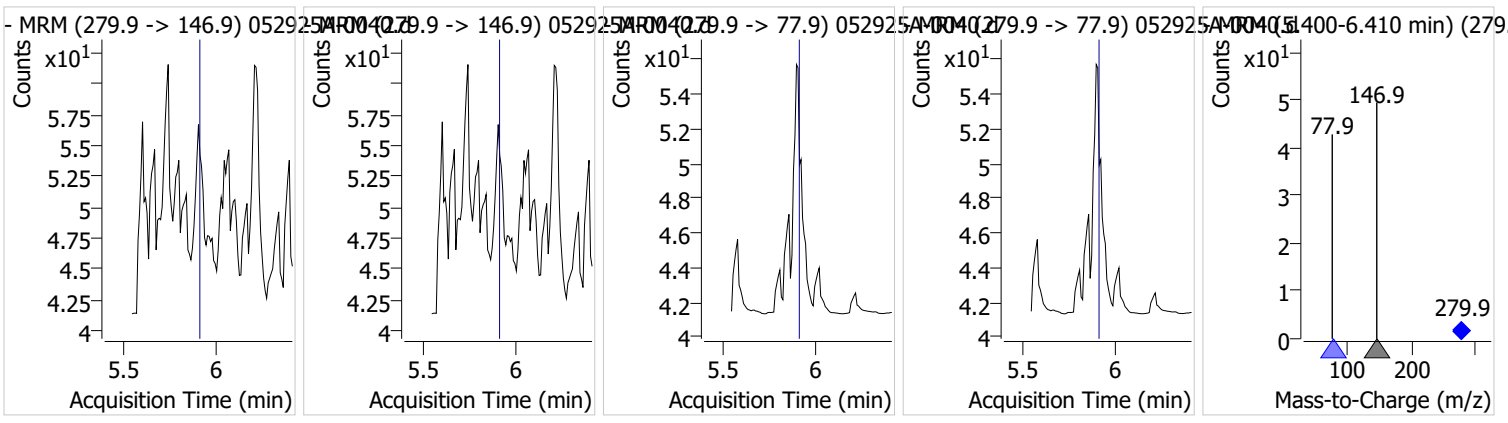
13C3-PFPrA



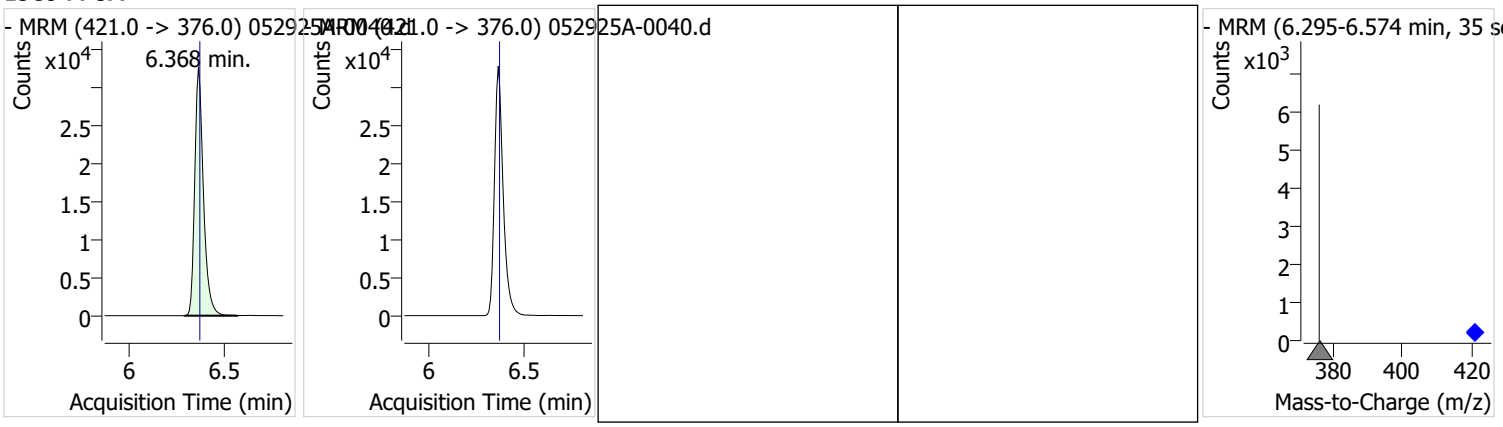
13C3-PFPrA_ISTD



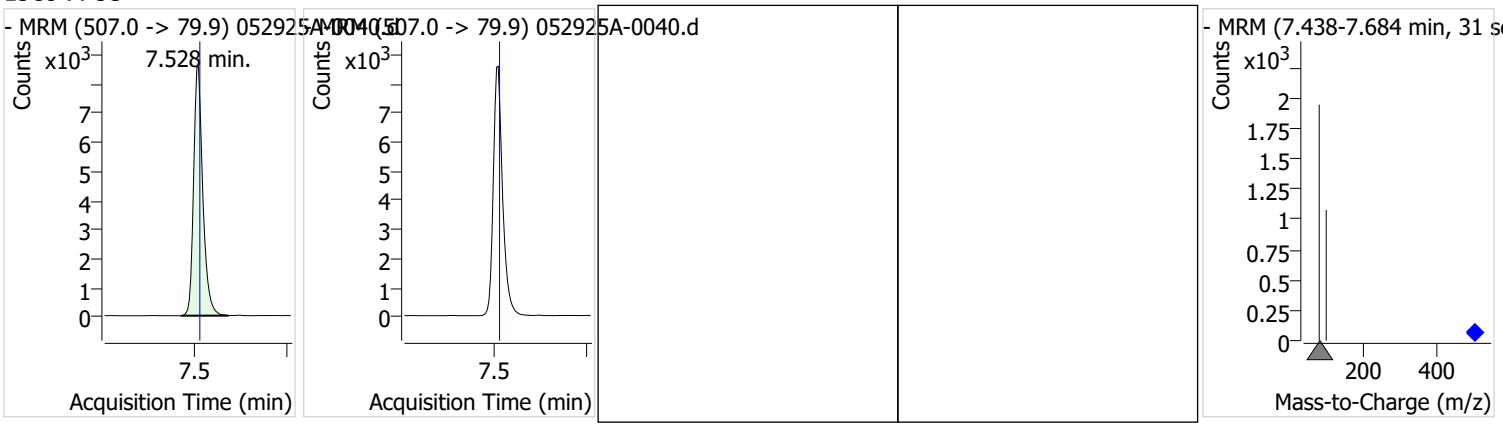
TFSI



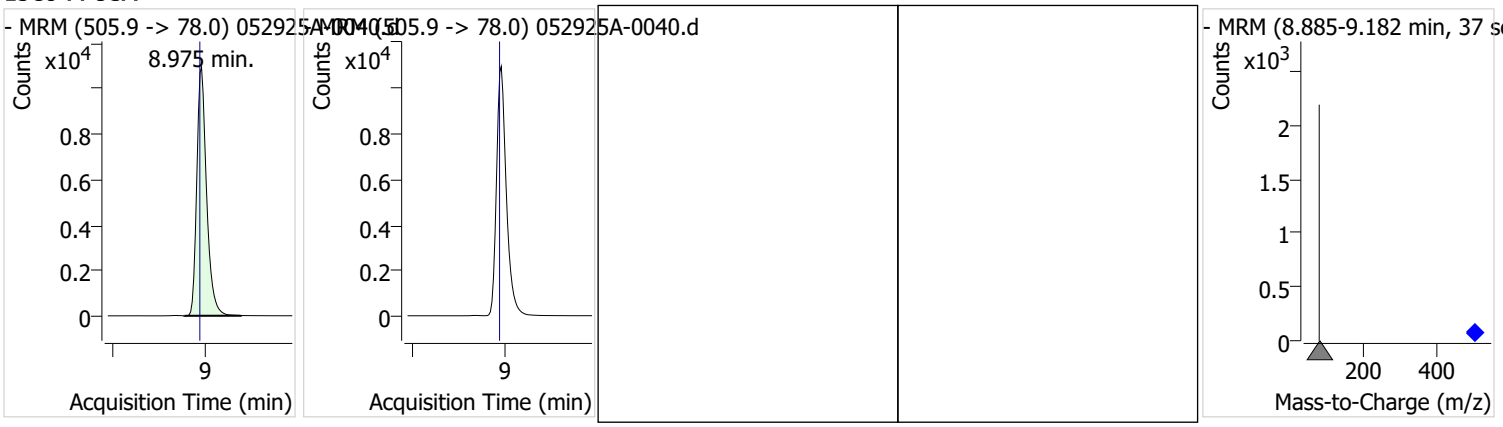
13C8-PFOA



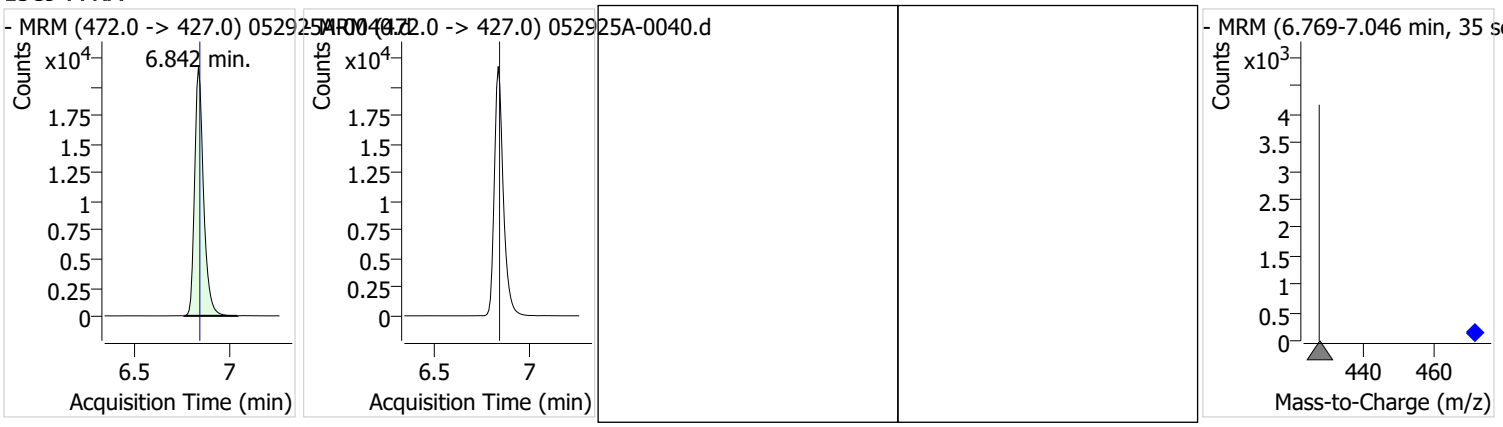
13C8-PFOS



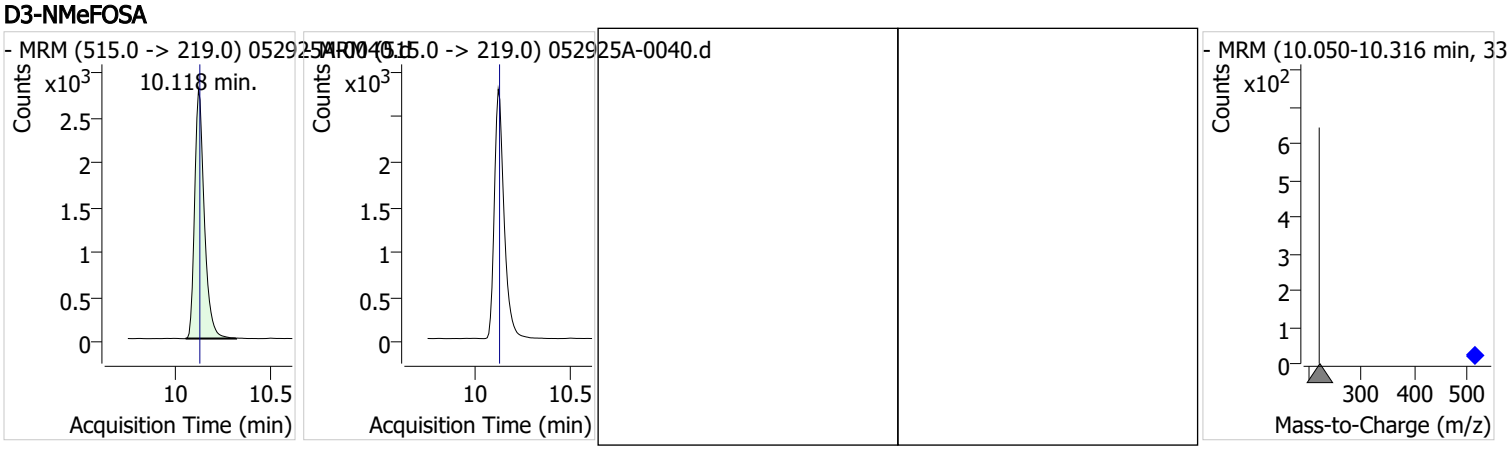
13C8-PFOSA



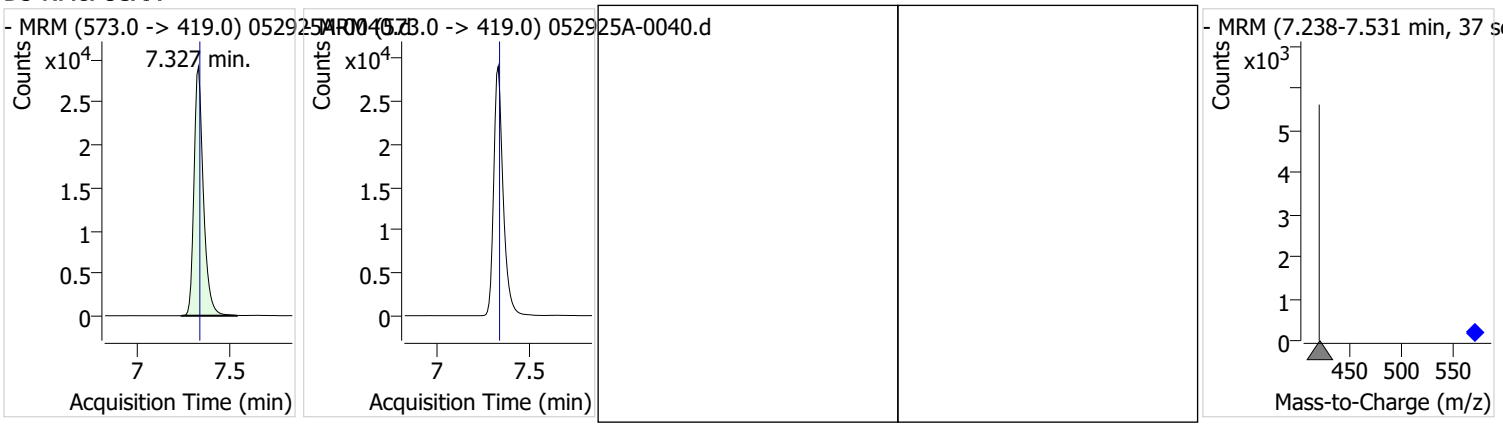
13C9-PFNA



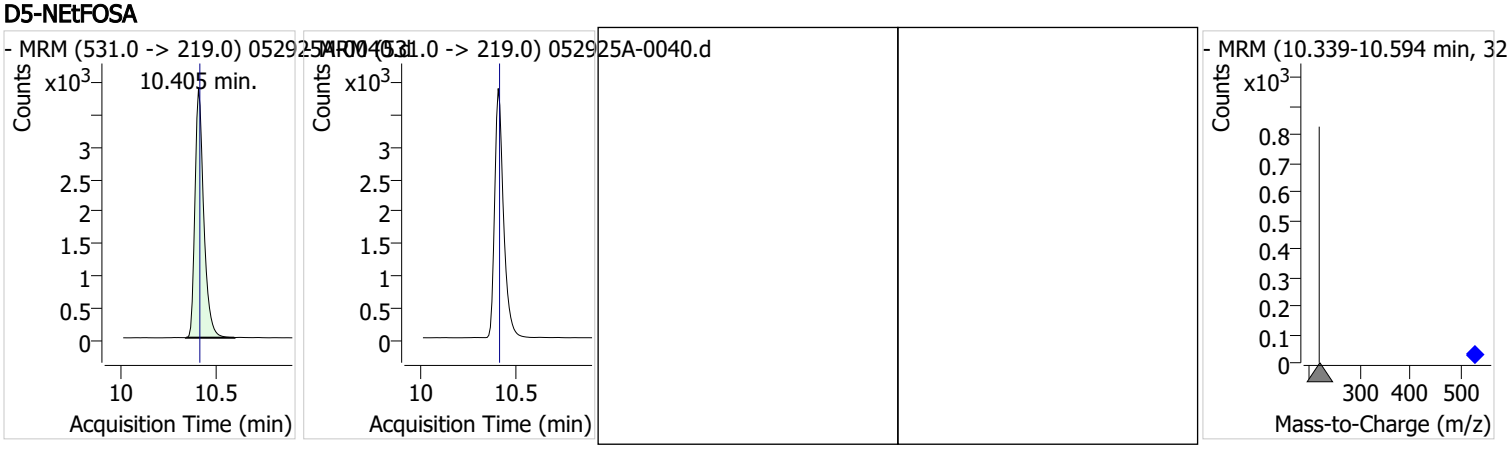
D3-NMeFOSA



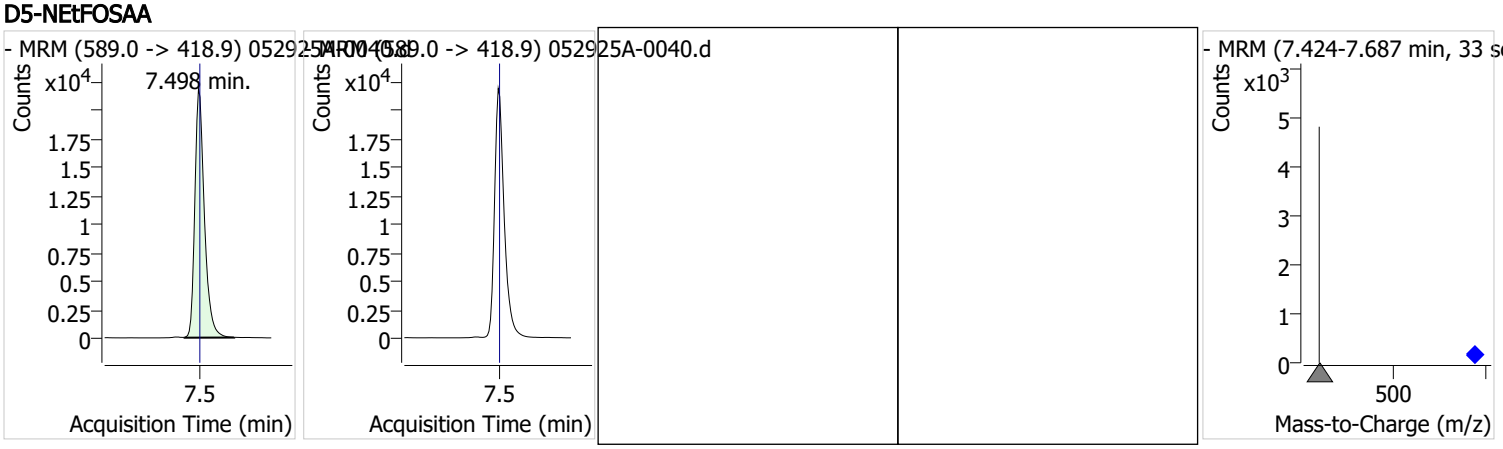
D3-NMeFOSAA



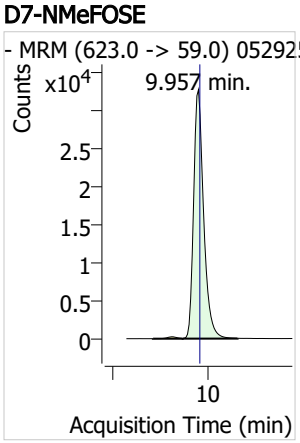
D5-NEtFOSA

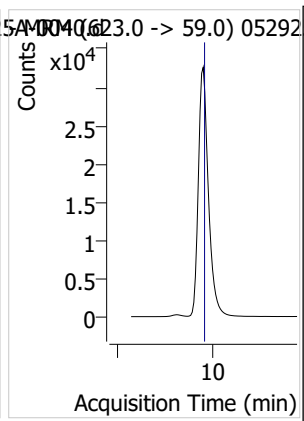


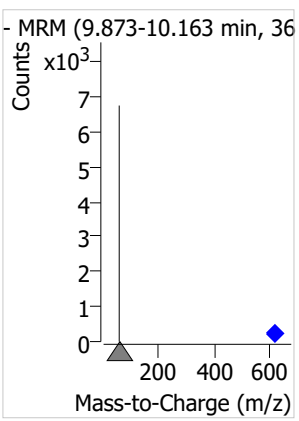
D5-NEtFOSAA



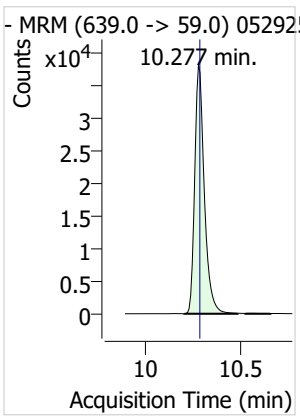
D7-NMeFOSE

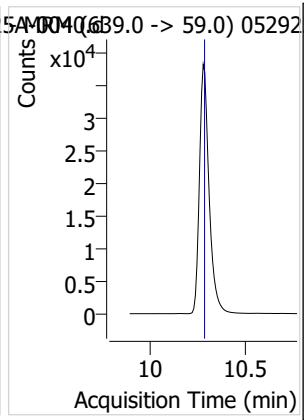


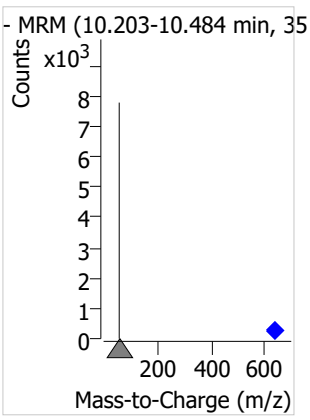




D9-NEtFOSE

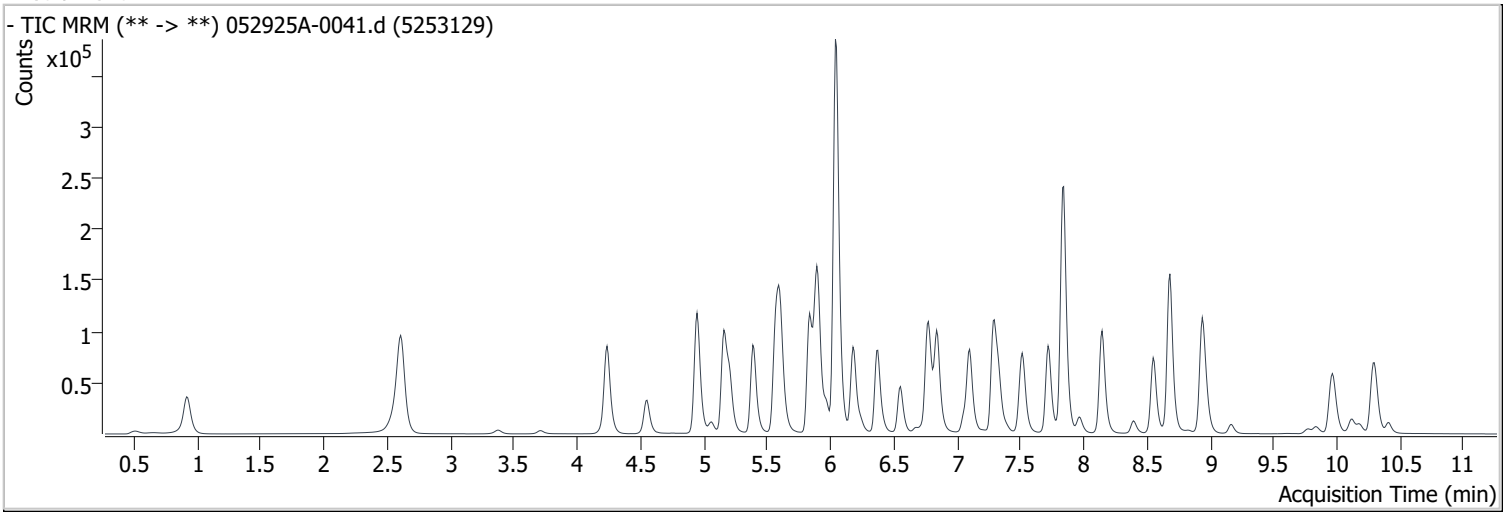






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 7:35 PM	**Data File**	052925A-0041.d
Sample Type	QC	**Sample Name**	5253129
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	86394	25515.18		13C3-HFPODA_ISTD	5.394	97800	8.9990	ng/ml			
285.0 -> 184.9	5.394	49090	8386.45	56.8								
4:2FTS	4.947	203942	141199.89		13C2-4:2FTS_ISTD	4.946	34433	8.9988	ng/ml			
327.0 -> 80.9	4.947	73656	183019.54	36.1								
6:2FTS	6.180	120067	36083.61		13C2-6:2FTS_ISTD	6.180	25586	8.7124	ng/ml			
427.0 -> 80.9	6.181	50134	87207.46	41.8								
ADONA	6.044	898593	113147.52		13C4-PFHpA_ISTD	5.839	169958	8.1542	ng/ml			
377.0 -> 85.1	6.044	373640	11727.80	41.6								
8:2FTS	7.100	119034	35290.96		13C2-8:2FTS_ISTD	7.100	24700	8.7920	ng/ml			
527.0 -> 81.0	7.101	51648	74724.63	43.4								
13C4-PFBA	2.606	222248	40617.83		13C3-PFBA_ISTD	2.608	108530	8.4137	ng/ml			
9Cl-PF3ONS	7.846	634139	27734.98		13C8-PFOS_ISTD	7.528	32203	8.7088	ng/ml			
533.0 -> 353.0	7.846	179684	8000.56	28.3								
11Cl-PF3OUdS	8.685	415834	111450.49		13C8-PFOS_ISTD	7.528	32203	8.1567	ng/ml			
633.0 -> 453.0	8.684	104247	15698.38	25.1								
PFHpS	7.064	38207	1434.78		13C8-PFOS_ISTD	7.528	32203	2.1379	ng/ml			
449.0 -> 98.8	7.064	17094	1155.48	44.7								
13C2-4:2FTS	4.946	34433	15273.34		18O2-PFHxS_ISTD	6.559	40320	4.9595	ng/ml			
13C2-6:2FTS	6.180	25586	85067.40		18O2-PFHxS_ISTD	6.559	40320	4.8912	ng/ml			
13C2-8:2FTS	7.100	24700	56788.31		18O2-PFHxS_ISTD	6.559	40320	4.7041	ng/ml			
13C2-PFDoA	8.146	101579	1728.32		13C2-PFDA_ISTD	7.290	83976	0.9682	ng/ml			
13C2-PFDA	7.290	83976	25204.80					1.7273	ng/ml			
13C2-PFHxA	5.162	106127	12834.08					3.4432	ng/ml			
13C2-PFTeDA	8.936	109388	7479.24		13C2-PFDA_ISTD	7.290	83976	0.9279	ng/ml			
13C4-PFOS	7.529	38143	11313.00					3.4603	ng/ml			
13C3-HFPODA	5.394	97800	28600.04		13C2-PFHxA_ISTD	5.162	106127	8.6251	ng/ml			
13C3-PFBS	5.205	56185	16093.98		18O2-PFHxS_ISTD	6.559	40320	2.0410	ng/ml			
13C3-PFHxS	6.560	39887	4948.42		18O2-PFHxS_ISTD	6.559	40320	2.1398	ng/ml			
NEtFOSAA	7.434	33673	1994.84		D5-NEtFOSAA_ISTD	7.498	82736	2.0906	ng/ml			
584.0 -> 526.0	7.433	29327	3057.97	87.1								

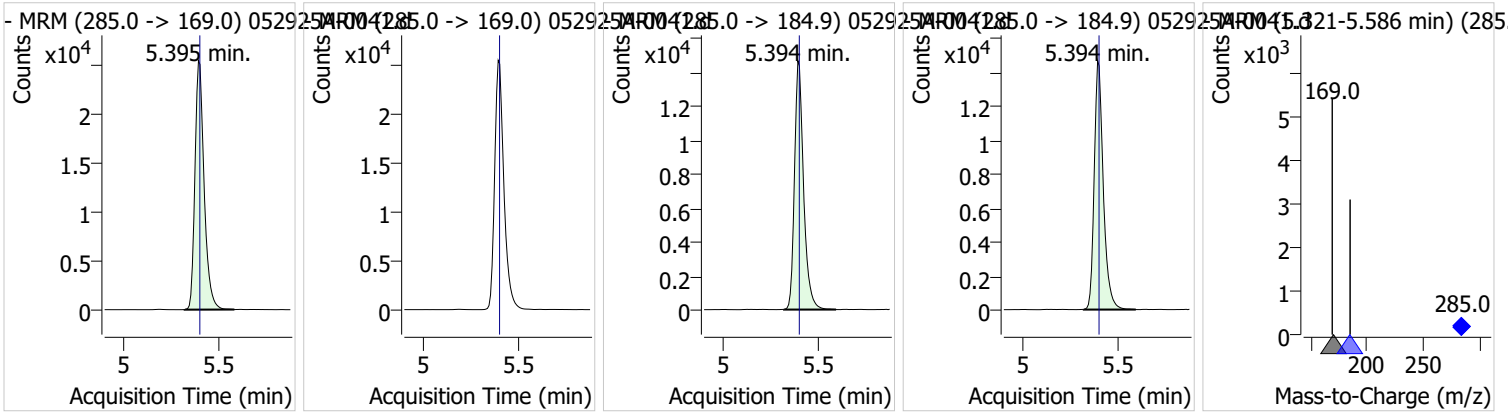
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	169958	17090.74		13C2-PFHxA_ISTD	5.162	106127	2.2551	ng/ml			
NMeFOSAA	7.247	16628	89652.18		D3-NMeFOSAA_ISTD	7.327	109333	2.0461	ng/ml			
570.0 -> 483.0	7.246	19845	1777.41	119.3								
PFBA	2.611	196630	2716.60		13C4-PFBA_ISTD	2.606	222248	8.8782	ng/ml			
13C5-PFHxA	5.161	103654	5068.74		13C2-PFHxA_ISTD	5.162	106127	2.2002	ng/ml			
PFBS	5.205	59125	6590.15		13C3-PFBS_ISTD	5.205	56185	1.9953	ng/ml			
298.9 -> 98.8	5.213	20729	1591.41	35.1								
NMeFOSA	10.073	11381	2354.03		D3-NMeFOSA_ISTD	10.118	10883	2.1970	ng/ml			
512.0 -> 169.0	10.074	16065	1331.23	141.2								
PFDA	7.290	153725	1756.83		13C6-PFDA_ISTD	7.289	81233	2.3127	ng/ml			
513.0 -> 219.0	7.290	29640	9079.79	19.3								
PFDoA	8.146	212183	6362.56		13C2-PFDoA_ISTD	8.146	101579	2.3192	ng/ml			
613.0 -> 319.0	8.147	23095	45128.90	10.9								
NEtFOSA	10.377	14394	3185.69		D5-NEtFOSA_ISTD	10.405	13479	2.1828	ng/ml			
526.0 -> 169.0	10.377	19132	1513.08	132.9								
PFHpA	5.839	166428	2152.51		13C4-PFHpA_ISTD	5.839	169958	2.1828	ng/ml			
362.9 -> 169.0	5.839	26899	21569.22	16.2								
PFHxA	5.163	103328	31428.22		13C5-PFHxA_ISTD	5.161	103654	2.1367	ng/ml			
313.0 -> 118.9	5.163	3437	320.54	3.3								
NMeFOSE	9.899	138748	2740.69		D7-NMeFOSE_ISTD	9.957	131362	21.4570	ng/ml			
PFHxS	6.498	39515	4463.24		13C3-PFHxS_ISTD	6.560	39887	1.9608	ng/ml			
398.9 -> 99.0	6.498	18186	3374.91	46.0								
PFNA	6.789	116040	1628.97		13C9-PFNA_ISTD	6.842	76312	2.1729	ng/ml			
463.0 -> 219.0	6.789	35495	2441.09	30.6								
NEtFOSE	10.249	171429	1691.99		D9-NEtFOSE_ISTD	10.277	150712	20.9942	ng/ml			
PFOA	6.300	116971	1796.79		13C8-PFOA_ISTD	6.377	114279	2.1669	ng/ml			
413.0 -> 169.0	6.300	34328	1752.18	29.3								
PFOS	7.399	36551	2995.81		13C8-PFOS_ISTD	7.528	32203	1.9200	ng/ml			
499.0 -> 99.0	7.402	17700	1731.59	48.4								
PFPeA	4.239	157804	6437.18		13C5-PFPeA_ISTD	4.237	159722	4.3884	ng/ml			
PFMPA	3.377	16464	3272.35		13C4-PFBA_ISTD	2.606	222248	4.2825	ng/ml			
13C5-PFPeA	4.237	159722	28072.13		13C2-PFHxA_ISTD	5.162	106127	4.2495	ng/ml			
PFMBA	4.556	118345	12353.00		13C5-PFPeA_ISTD	4.237	159722	4.4611	ng/ml			
PFTrDA	8.550	229229	4791.77		13C2-PFDoA_ISTD	8.146	101579	2.1456	ng/ml			
663.0 -> 168.9	8.551	19712	5785.34	8.6								
PFEESA	5.570	324709	804605.03		13C5-PFHxA_ISTD	5.161	103654	3.9189	ng/ml			
315.0 -> 83.0	5.571	22015	2152.55	6.8								
13C6-PFDA	7.289	81233	24432.12		13C2-PFDA_ISTD	7.290	83976	1.0273	ng/ml			
NFDHA	5.066	24335	3231.17		13C5-PFHxA_ISTD	5.161	103654	4.3400	ng/ml			
295.0 -> 85.0	5.067	8466	2520.84	34.8								
PFOSA	8.899	41429	3179.52		13C8-PFOSA_ISTD	8.967	43966	2.1423	ng/ml			
497.9 -> 478.0	8.902	1227	971.12	3.0								
13C7-PFUnA	7.721	92922	27647.53		13C2-PFDA_ISTD	7.290	83976	1.0522	ng/ml			
13C4-PFOA	6.377	28888	8486.46					3.4937	ng/ml			
PFDS	8.398	27171	9091.76		13C8-PFOS_ISTD	7.528	32203	2.0065	ng/ml			
599.0 -> 98.8	8.397	13311	2766.25	49.0								
PFNS	7.969	33876	13742.56		13C8-PFOS_ISTD	7.528	32203	2.0349	ng/ml			
549.0 -> 98.8	7.968	15486	28454.60	45.7								
PFPeS	5.971	49833	14732.75		13C3-PFHxS_ISTD	6.560	39887	1.9921	ng/ml			
349.0 -> 98.9	5.971	22072	6560.03	44.3								
PFTeDA	8.937	232759	5054.21		13C2-PFTeDA_ISTD	8.936	109388	2.3053	ng/ml			

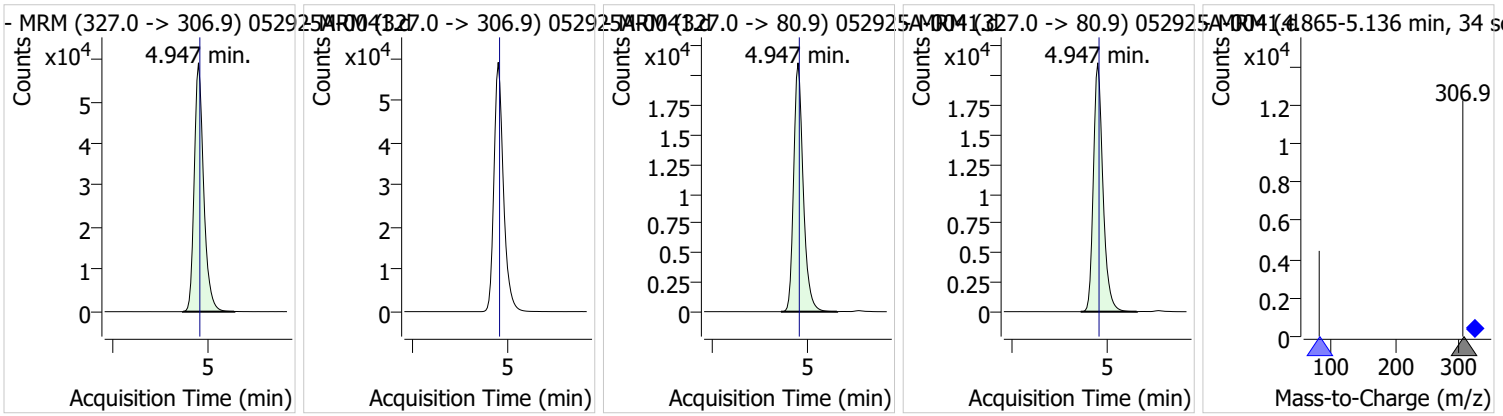
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	12570	19699.50	5.4								
PFUnA	7.722	161246	3055.07		13C7-PFUnA_ISTD	7.721	92922	2.0779	ng/ml			
563.0 -> 269.1	7.722	29431	48073.60	18.3								
13C3-PFBA	2.608	108530	3327.15					7.1465	ng/ml			
3:3FTCA	3.712	8882	1788.46		13C5-PFPeA_ISTD	4.237	159722	9.8203	ng/ml			
241.0 -> 117.0	3.706	4677	382.82	52.7								
5:3FTCA	5.601	191063	51316.95		13C5-PFHxA_ISTD	5.161	103654	49.3883	ng/ml			
341.0 -> 217.0	5.602	169016	7033.81	88.5								
7:3FTCA	6.778	208151	52355.20		13C9-PFNA_ISTD	6.842	76312	50.9857	ng/ml			
441.0 -> 337.0	6.778	218156	54881.20	104.8								
13C5-PFNA	6.842	84786	13254.73					1.7928	ng/ml			
18O2-PFHxS	6.559	40320	4538.81					3.5496	ng/ml			
PFDoS	9.171	19103	5635.41		13C8-PFOS_ISTD	7.528	32203	2.0985	ng/ml			
698.9 -> 99.0	9.170	10727	8914.30	56.2								
TDCA					13C8-PFOS_ISTD	7.528	32203	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.920	73156	6636.76		13C3-PFPrA_ISTD	0.916	95791	8.6914	ng/ml			
13C3-PFPrA	0.916	95791	7598.17		13C3-PFBA_ISTD	2.608	108530	8.1587	ng/ml			
TFSI	5.900	335913	33984.22		13C3-HFPODA_ISTD	5.394	97800	4.4395	ng/ml			
279.9 -> 77.9	5.900	238986	62921.10	71.1								
13C8-PFOA	6.377	114279	364172.69		13C4-PFOA_ISTD	6.377	28888	2.1115	ng/ml			
13C8-PFOS	7.528	32203	9663.66		13C4-PFOS_ISTD	7.529	38143	2.1587	ng/ml			
13C8-PFOSA	8.967	43966	12267.10		13C4-PFOS_ISTD	7.529	38143	2.0496	ng/ml			
13C9-PFNA	6.842	76312	9448.77		13C5-PFNA_ISTD	6.842	84786	1.0187	ng/ml			
D3-NMeFOSA	10.118	10883	3434.08		13C4-PFOS_ISTD	7.529	38143	1.5924	ng/ml			
D3-NMeFOSAA	7.327	109333	31635.82		13C4-PFOS_ISTD	7.529	38143	4.6084	ng/ml			
D5-NEtFOSA	10.405	13479	751.28		13C4-PFOS_ISTD	7.529	38143	1.6407	ng/ml			
D5-NEtFOSAA	7.498	82736	830.68		13C4-PFOS_ISTD	7.529	38143	4.5919	ng/ml			
D7-NMeFOSE	9.957	131362	15194.66		13C4-PFOS_ISTD	7.529	38143	20.0214	ng/ml			
D9-NEtFOSE	10.277	150712	43030.04		13C4-PFOS_ISTD	7.529	38143	20.6864	ng/ml			

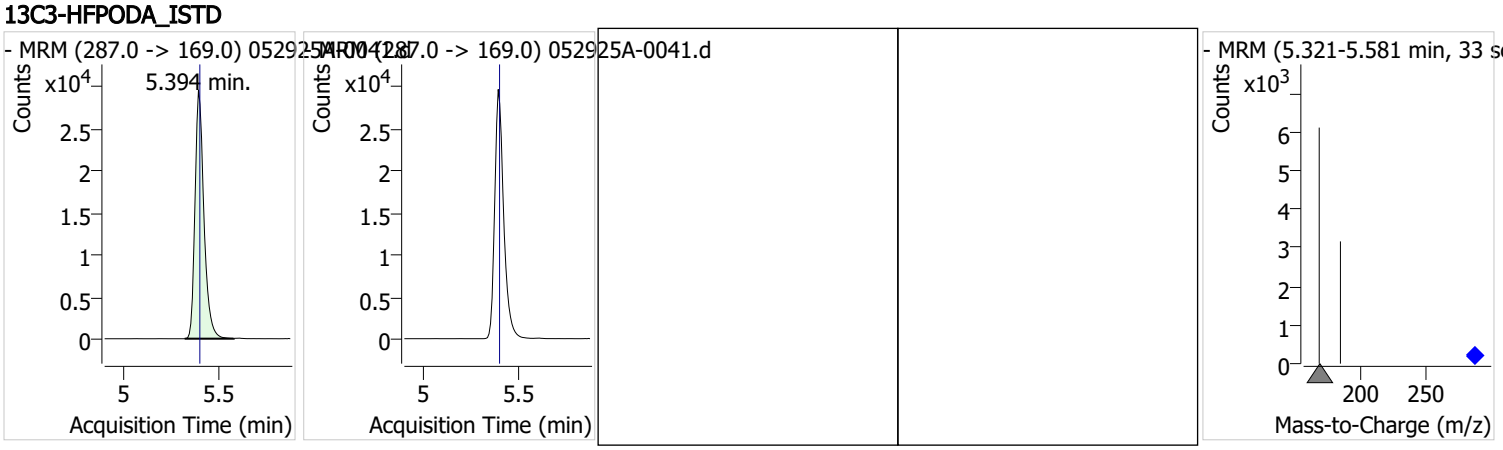
HFPO-DA



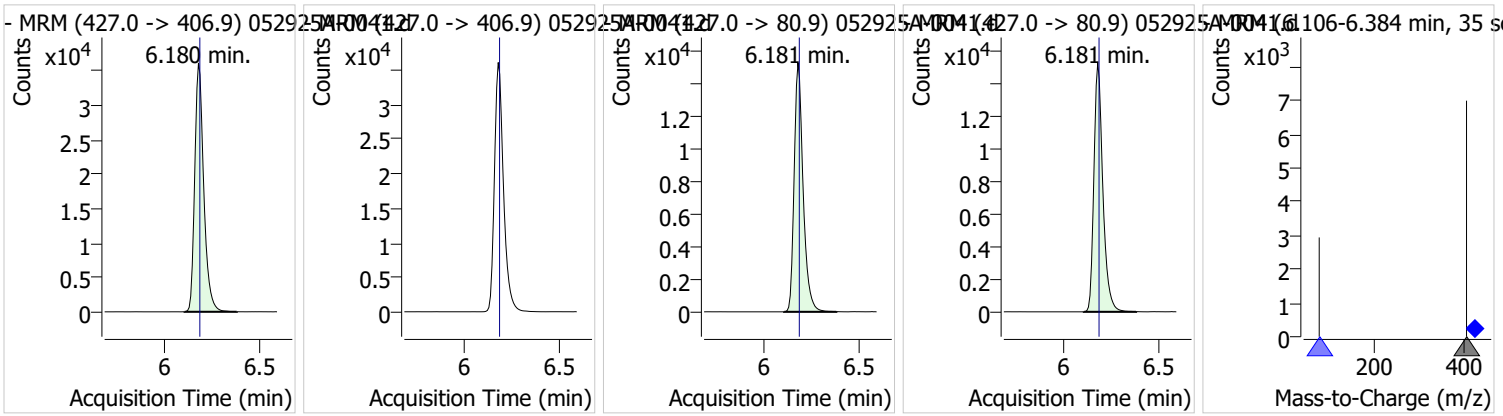
4:2FTS



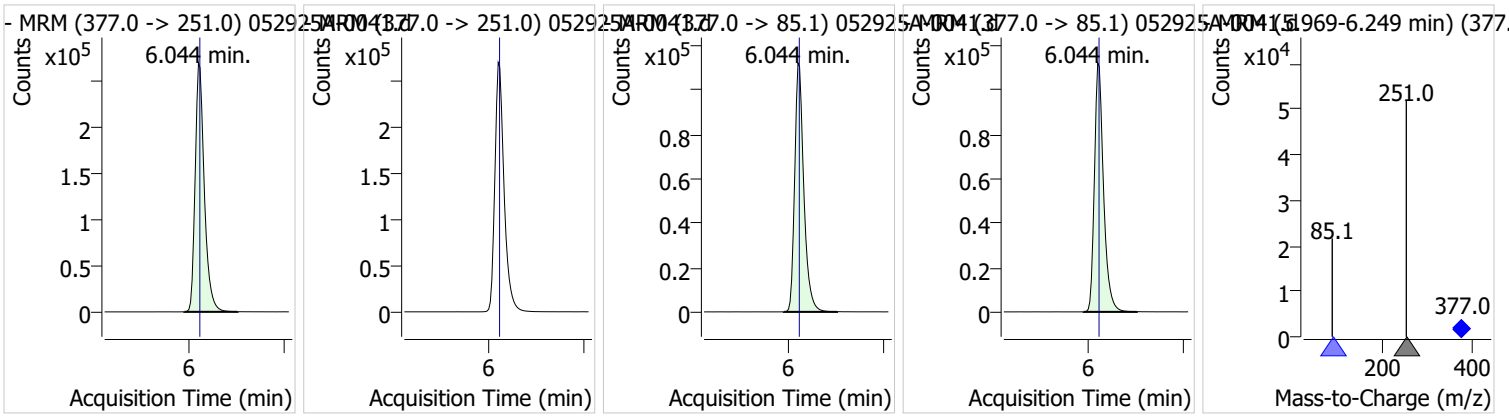
13C3-HFPODA_ISTD



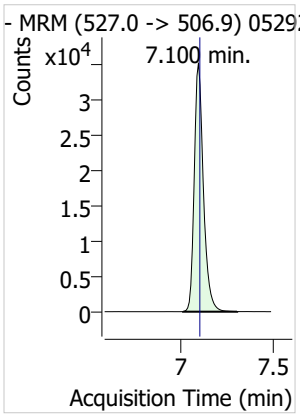
6:2FTS

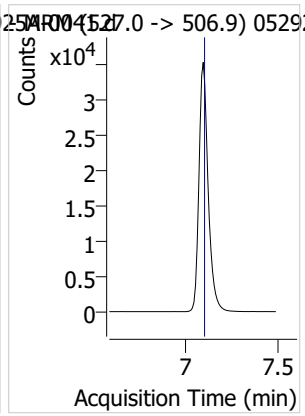


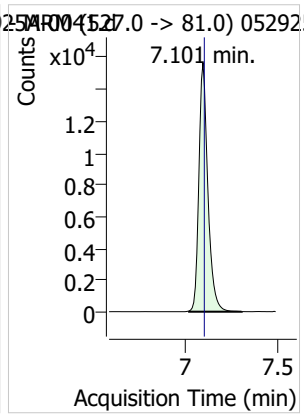
ADONA

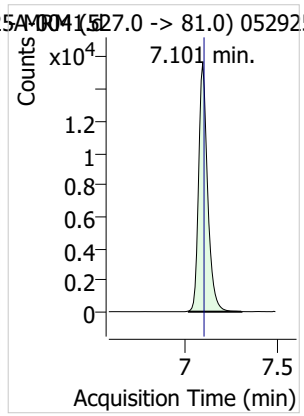


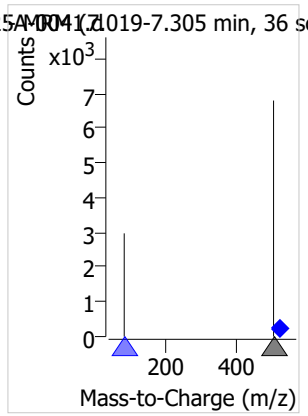
8:2FTS



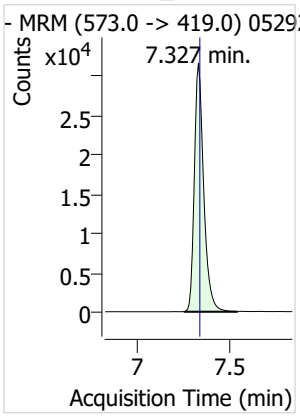


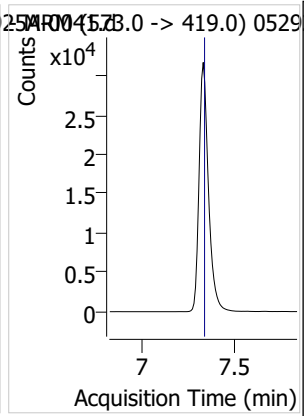


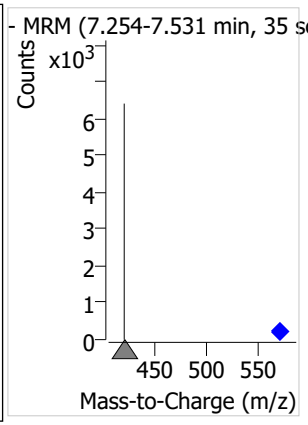




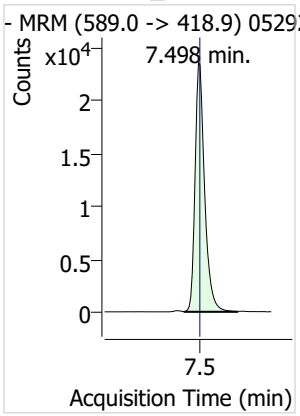
D3-NMeFOSAA_ISTD

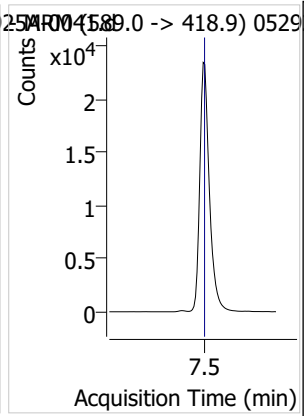


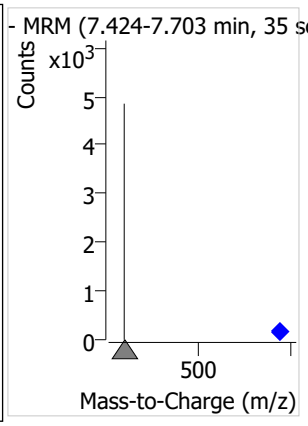




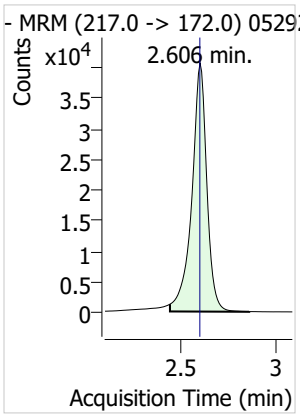
D5-NEtFOSAA_ISTD

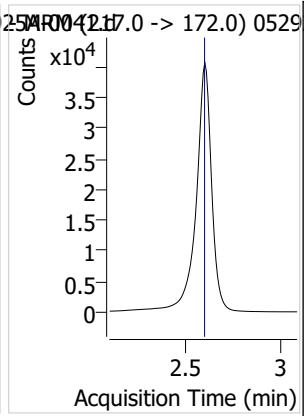


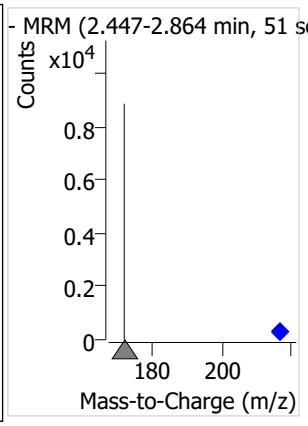




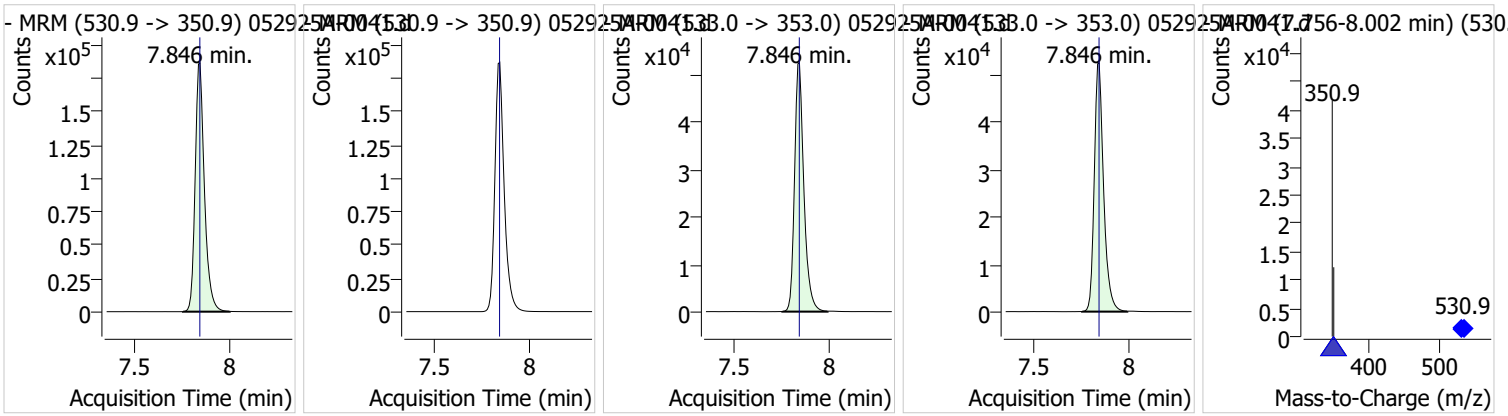
13C4-PFBA



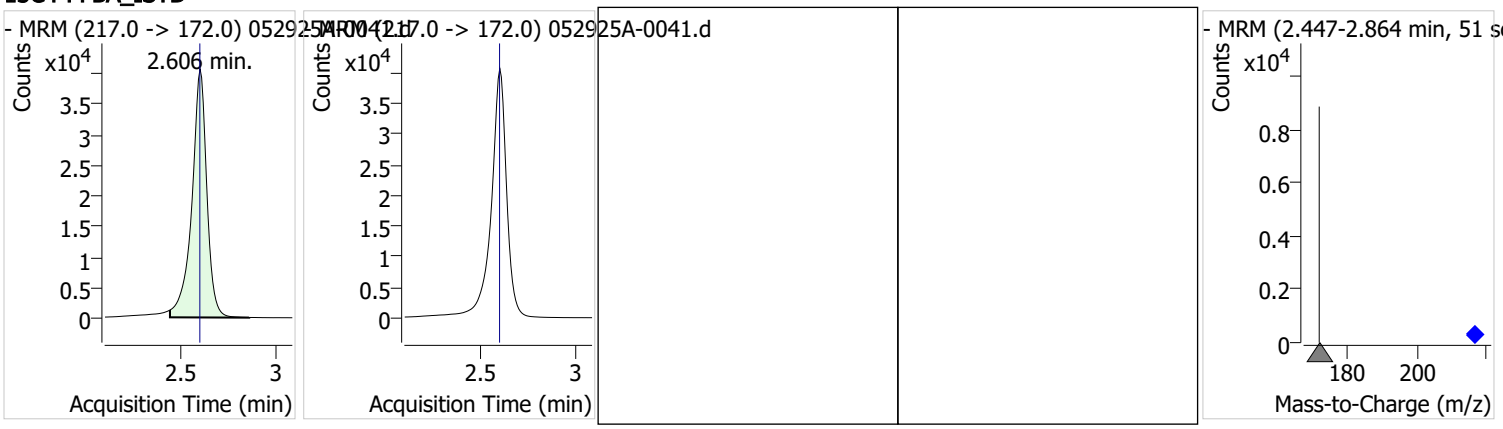




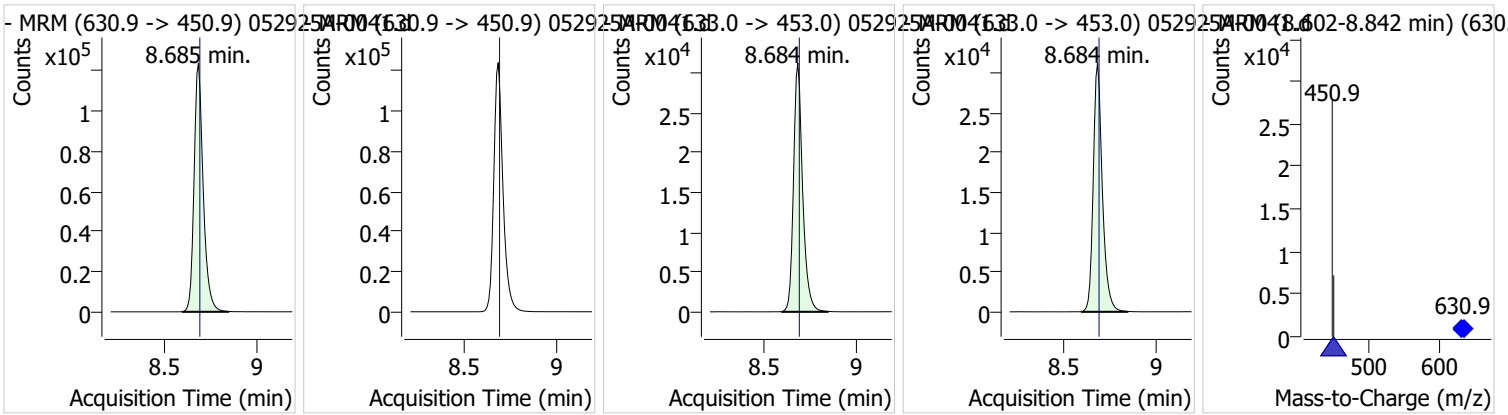
9Cl-PF3ONS



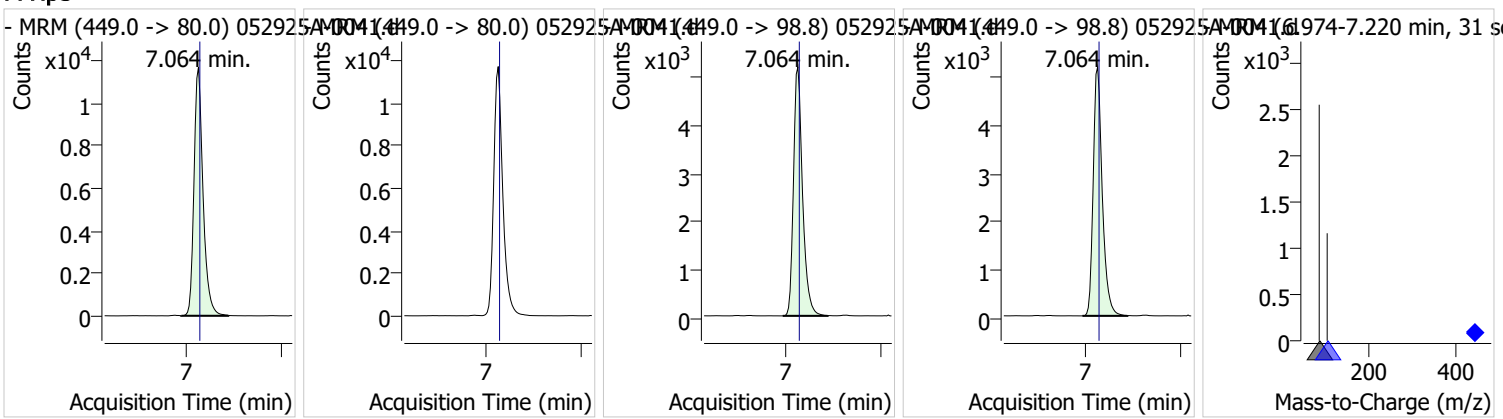
13C4-PFBA_ISTD



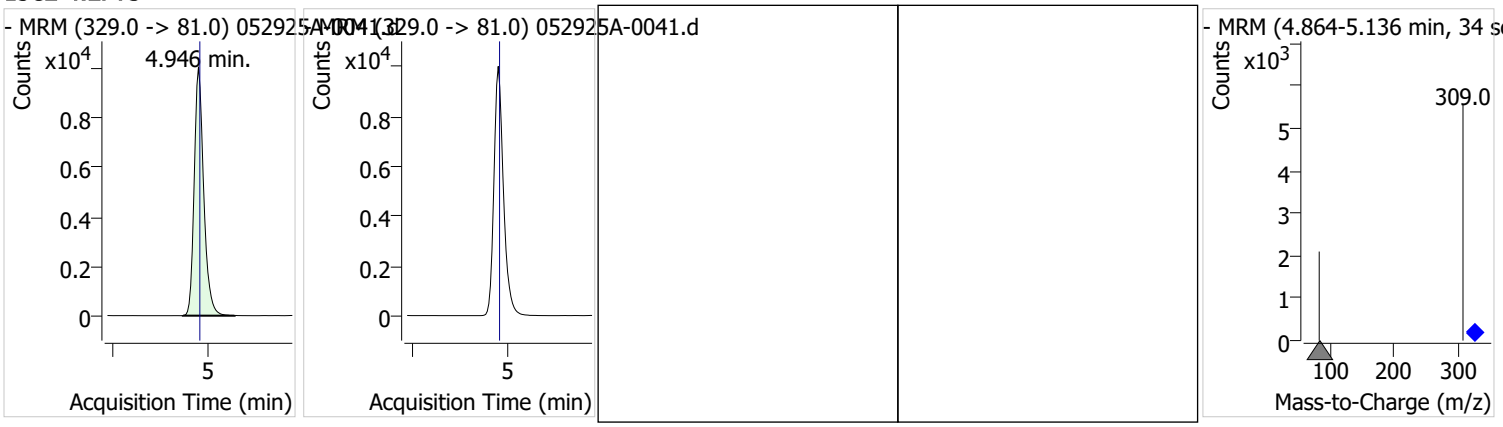
11Cl-PF3OUdS



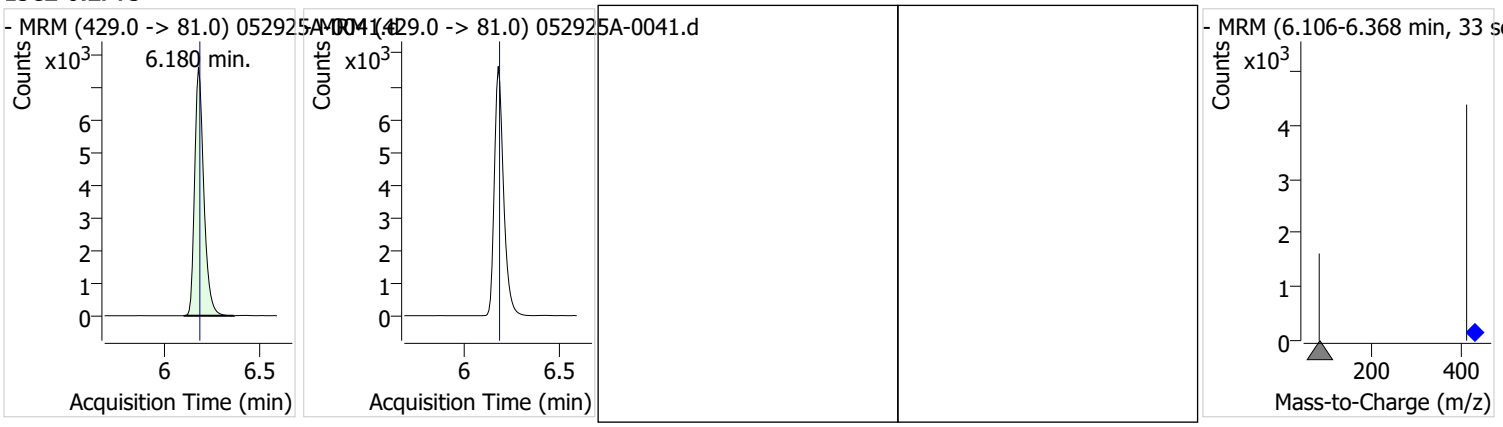
PFHpS



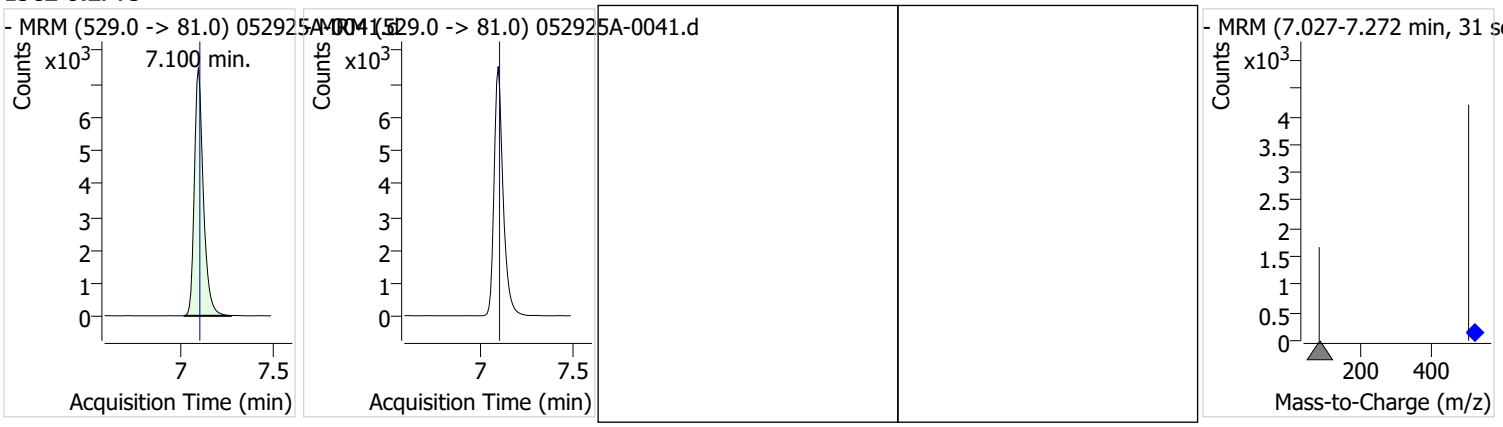
13C2-4:2FTS



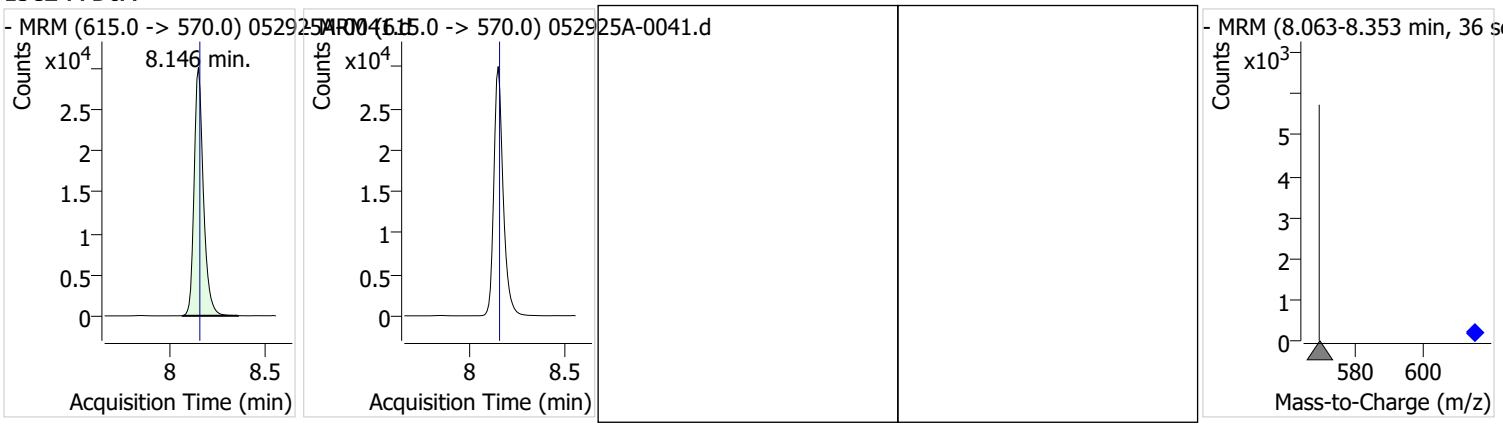
13C2-6:2FTS



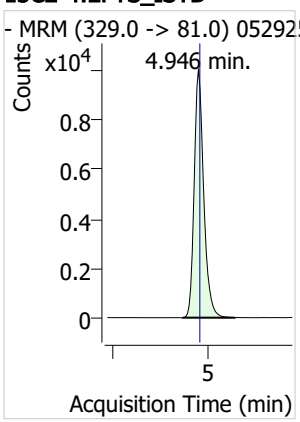
13C2-8:2FTS

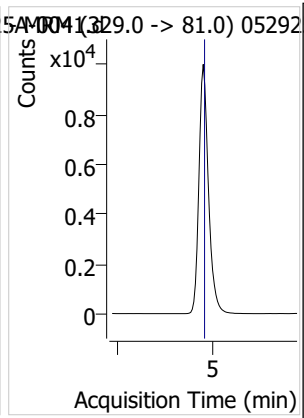


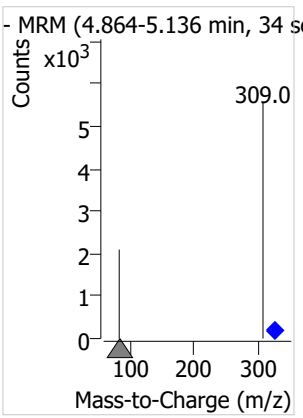
13C2-PFDoA



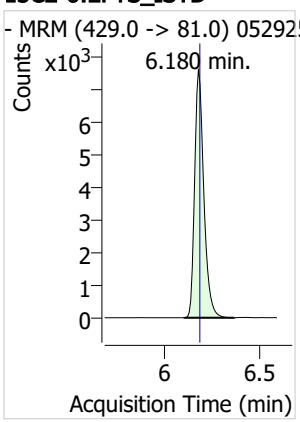
13C2-4:2FTS_ISTD

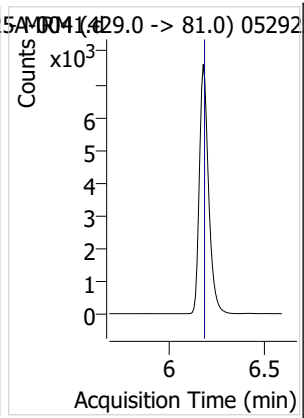


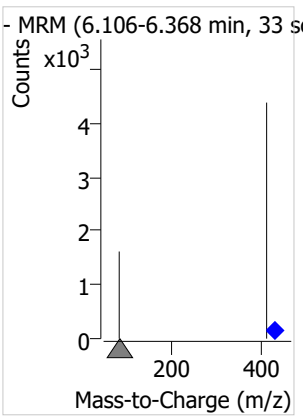




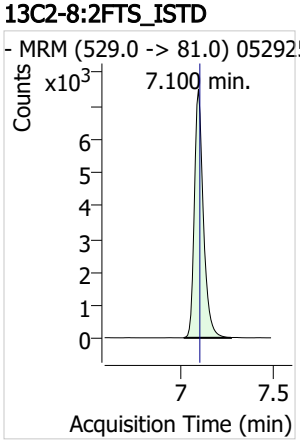
13C2-6:2FTS_ISTD

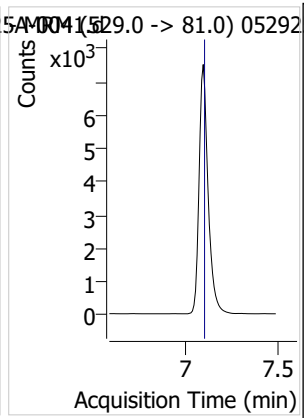


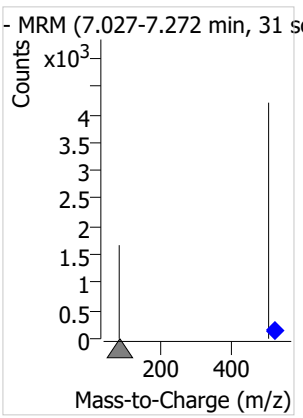




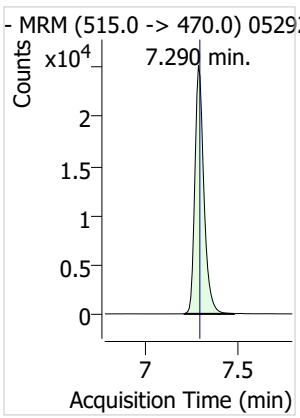
13C2-8:2FTS_ISTD

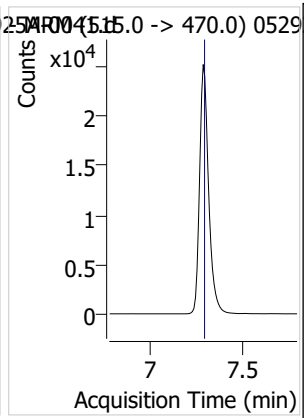


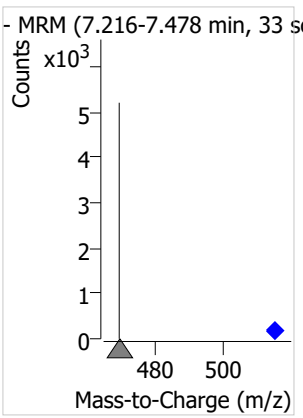




13C2-PFDA



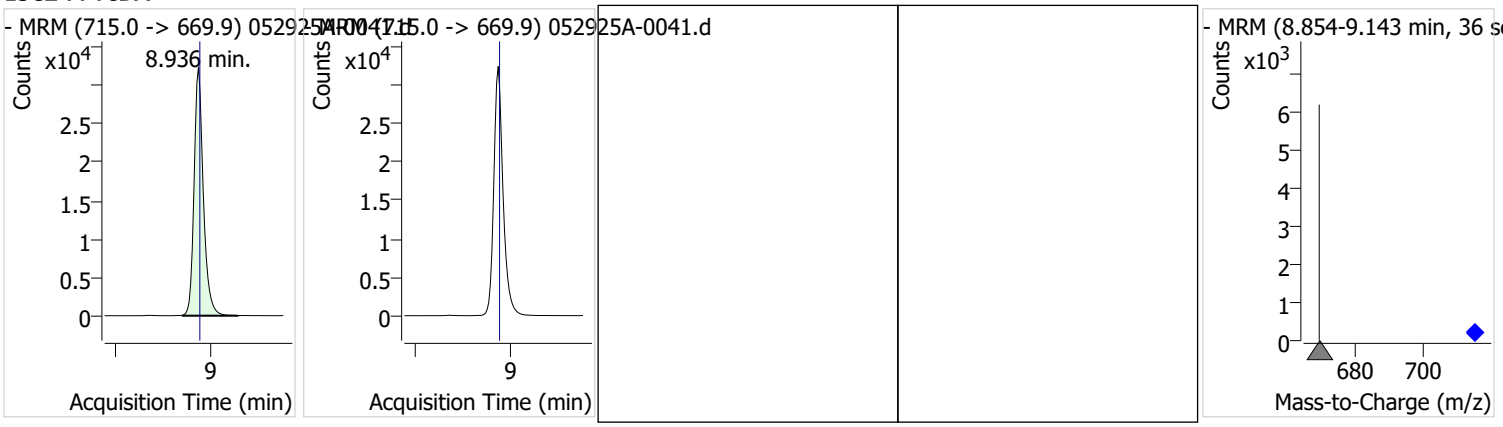




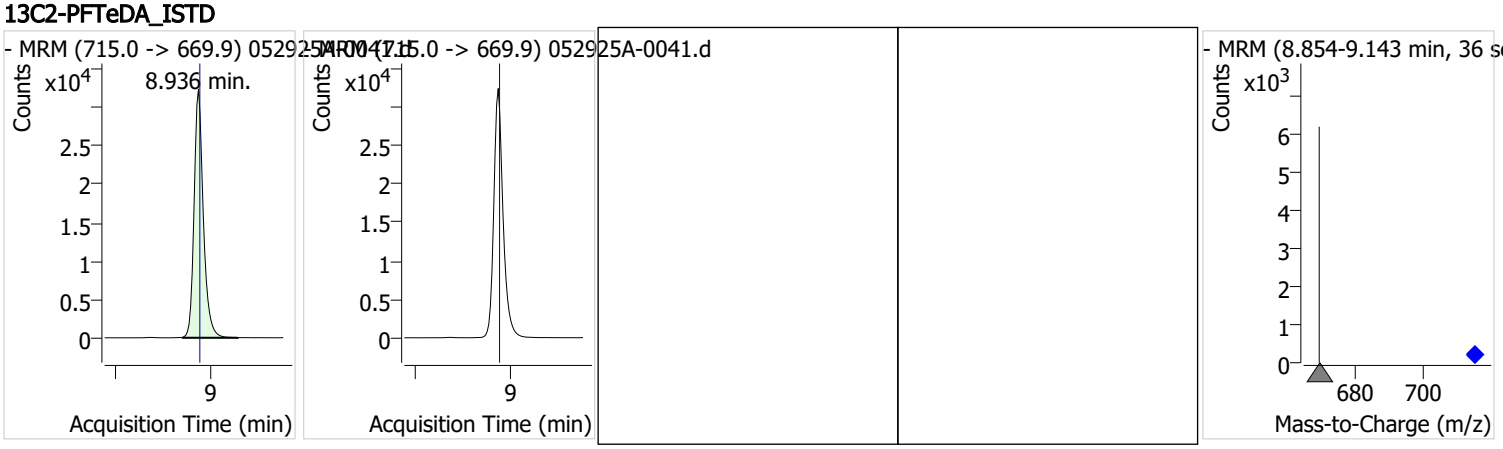
13C2-PFHxA



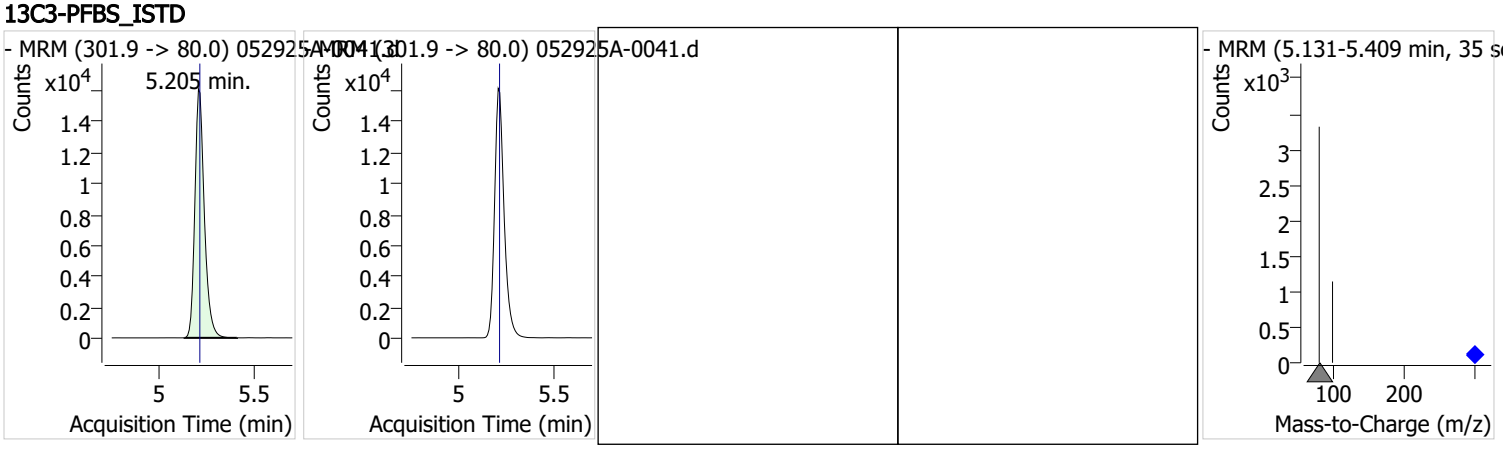
13C2-PFTeDA



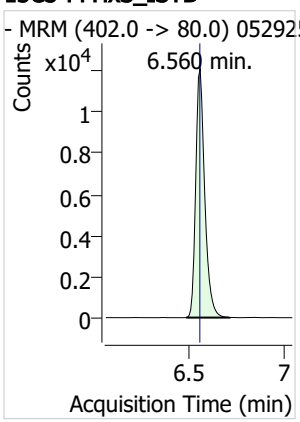
13C2-PFTeDA_ISTD

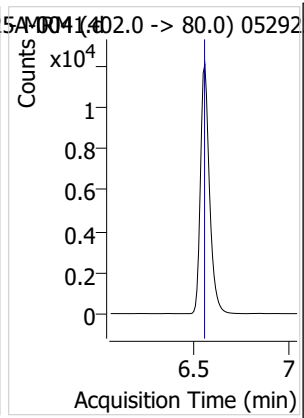


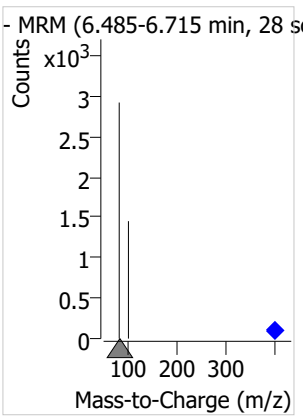
13C3-PFBS_ISTD



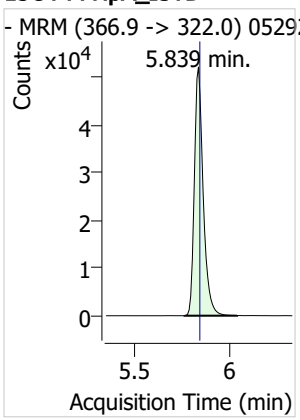
13C3-PFHxS_ISTD

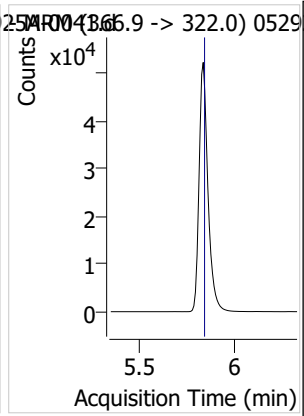


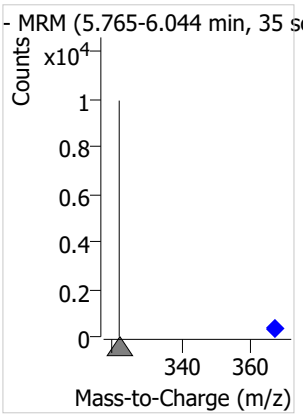




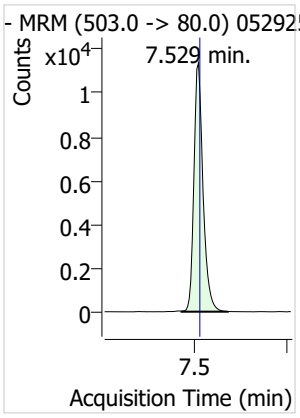
13C4-PFHpA_ISTD

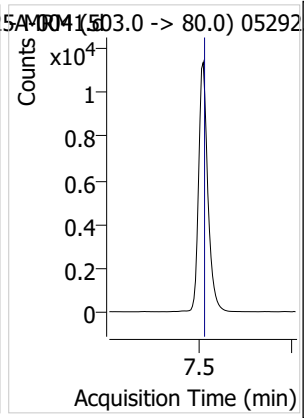


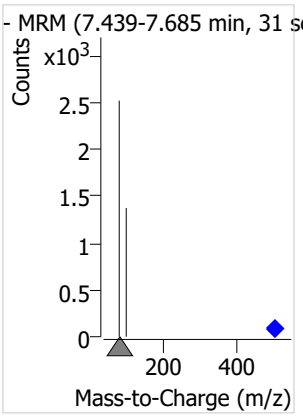




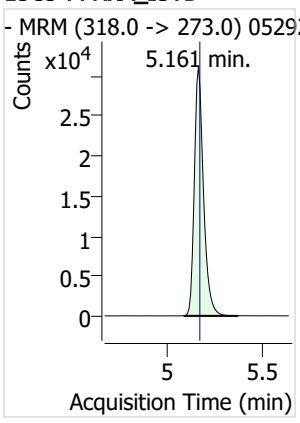
13C4-PFOS

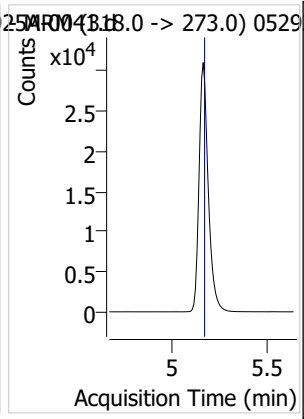


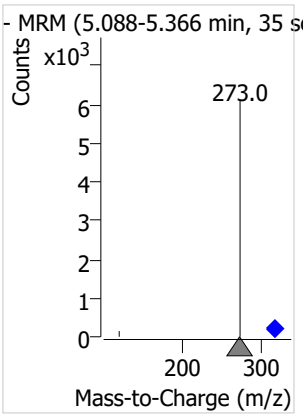




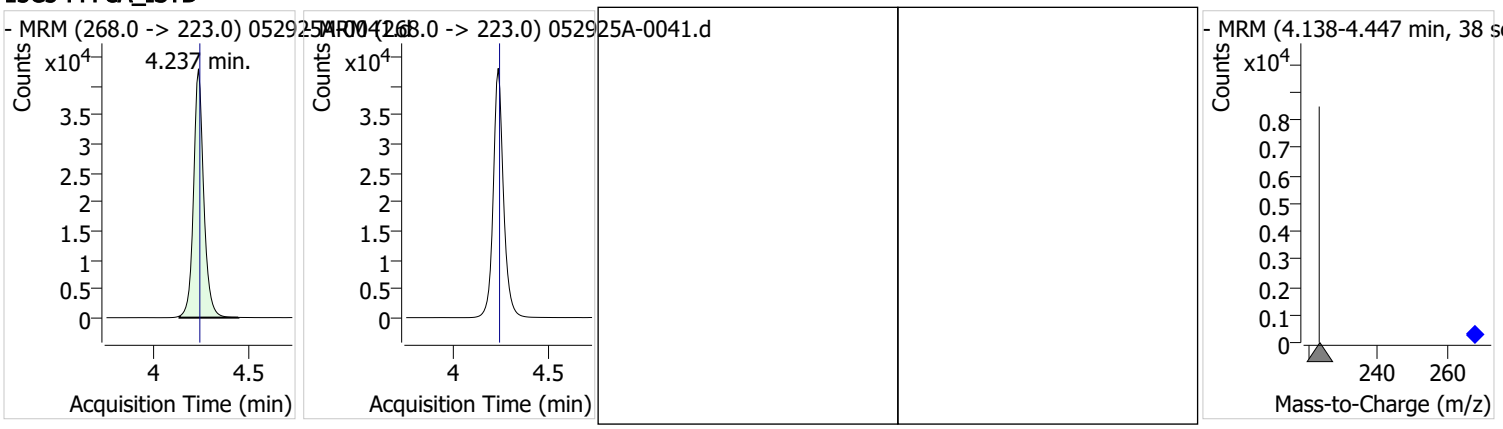
13C5-PFHxA_ISTD







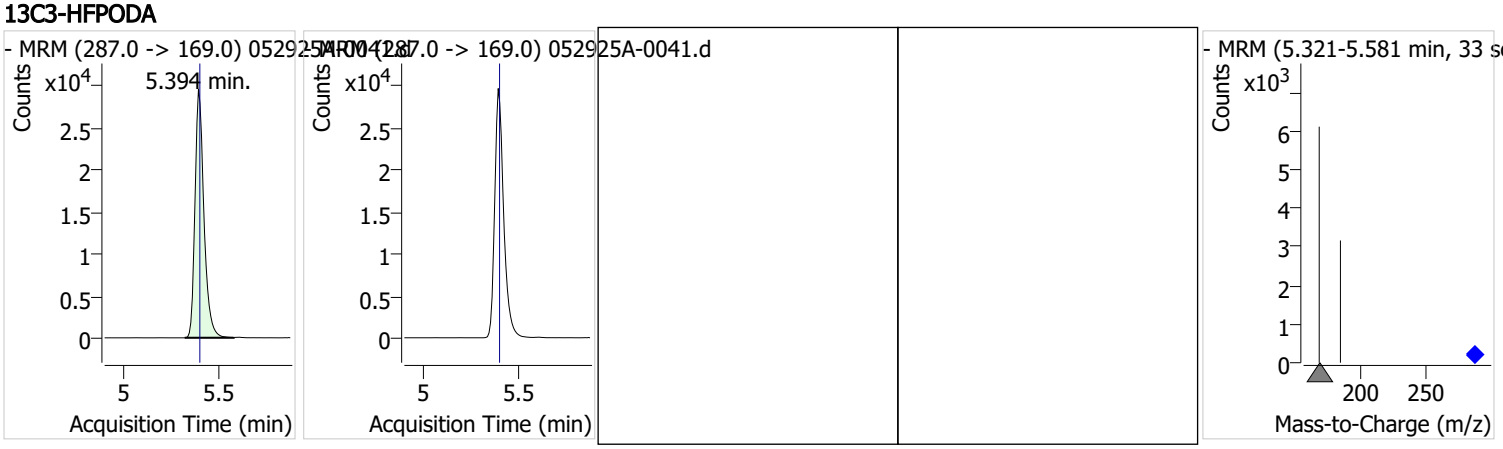
13C5-PFPeA_ISTD



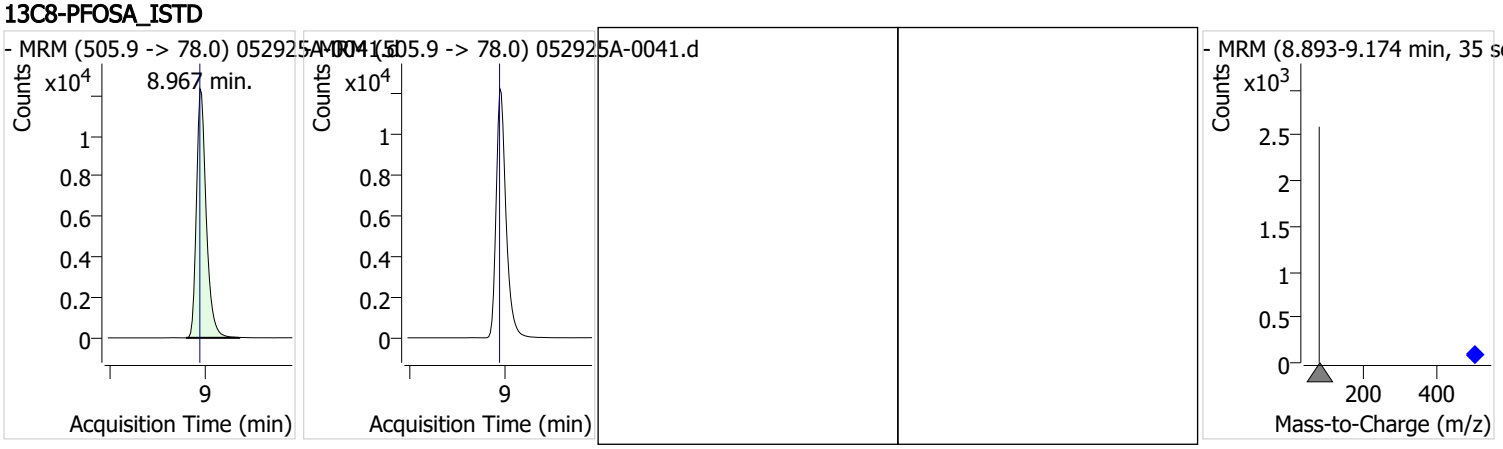
13C6-PFDA_ISTD



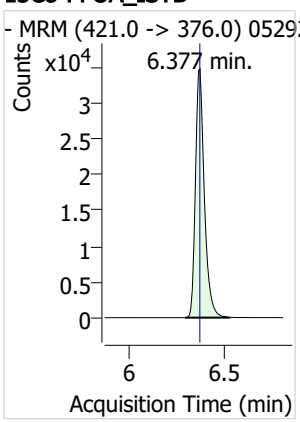
13C3-HFPODA

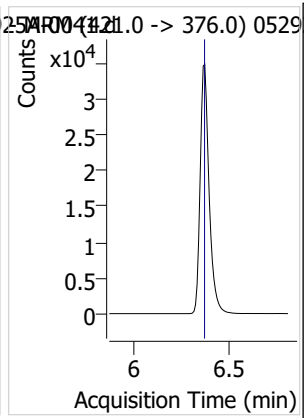


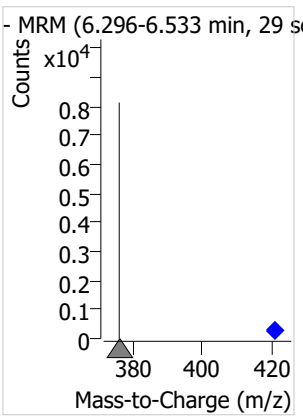
13C8-PFOSA_ISTD



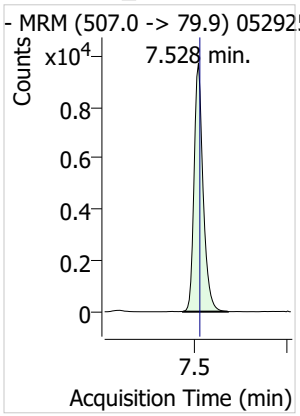
13C8-PFOA_ISTD

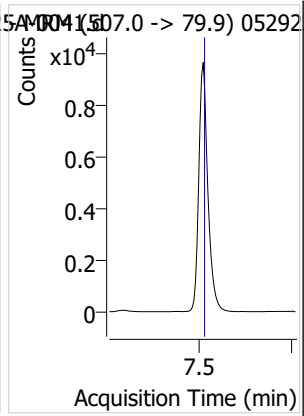


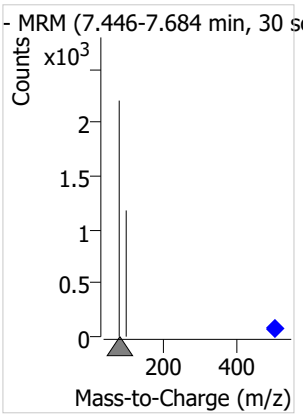




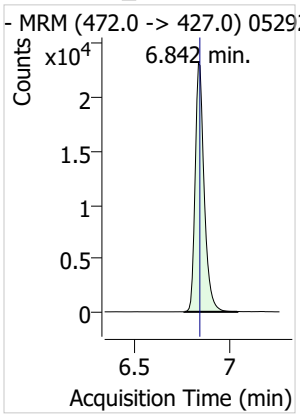
13C8-PFOS_ISTD

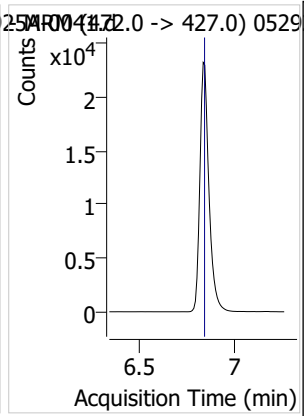


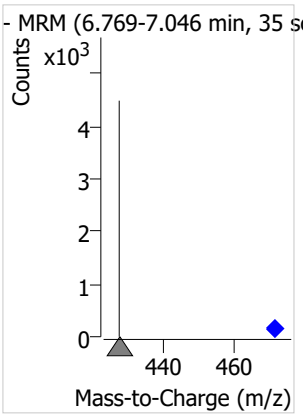




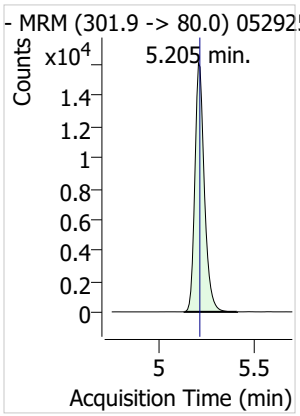
13C9-PFNA_ISTD

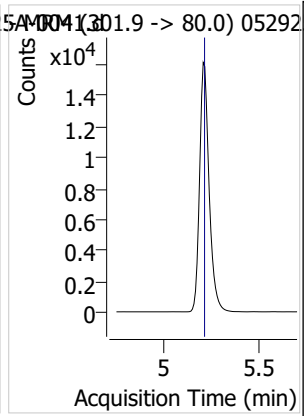


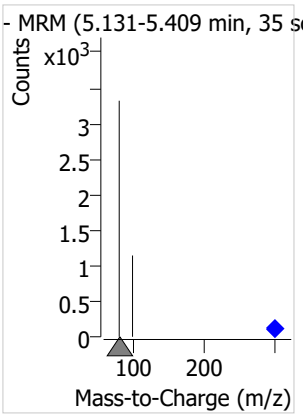




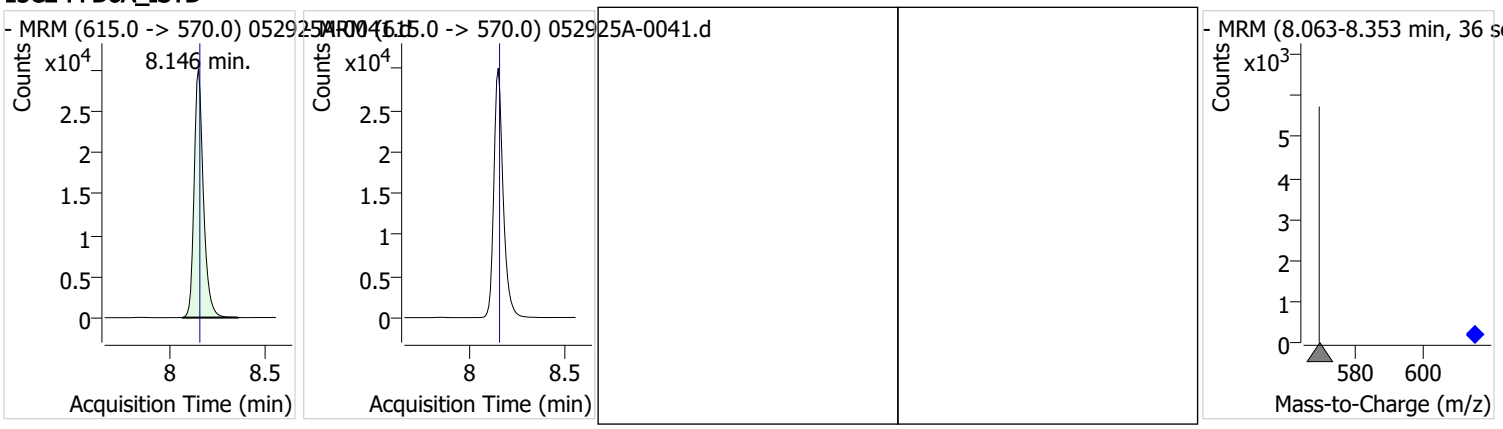
13C3-PFBS



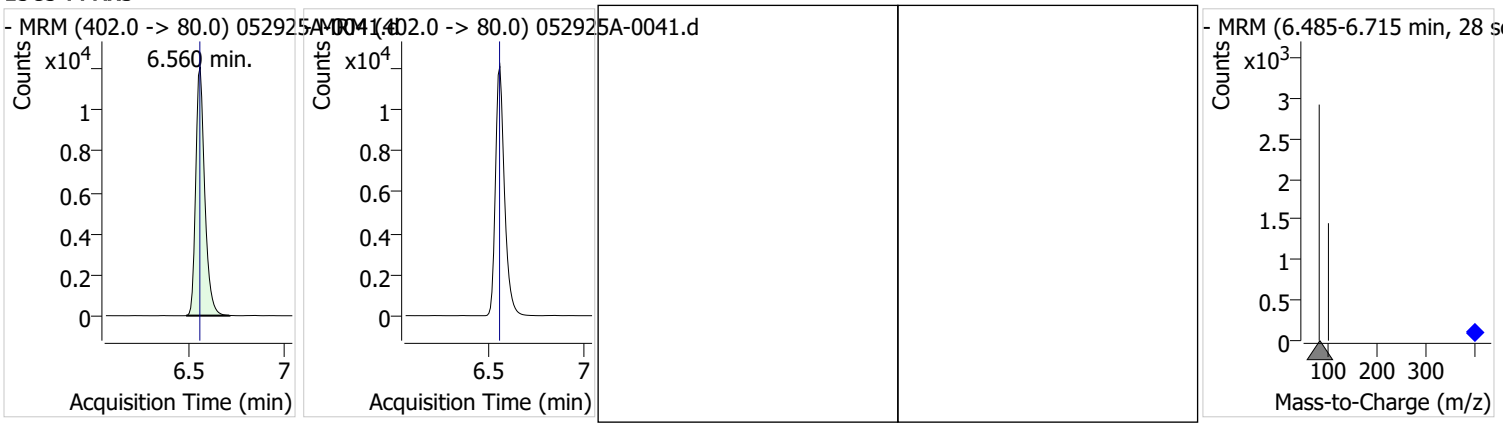




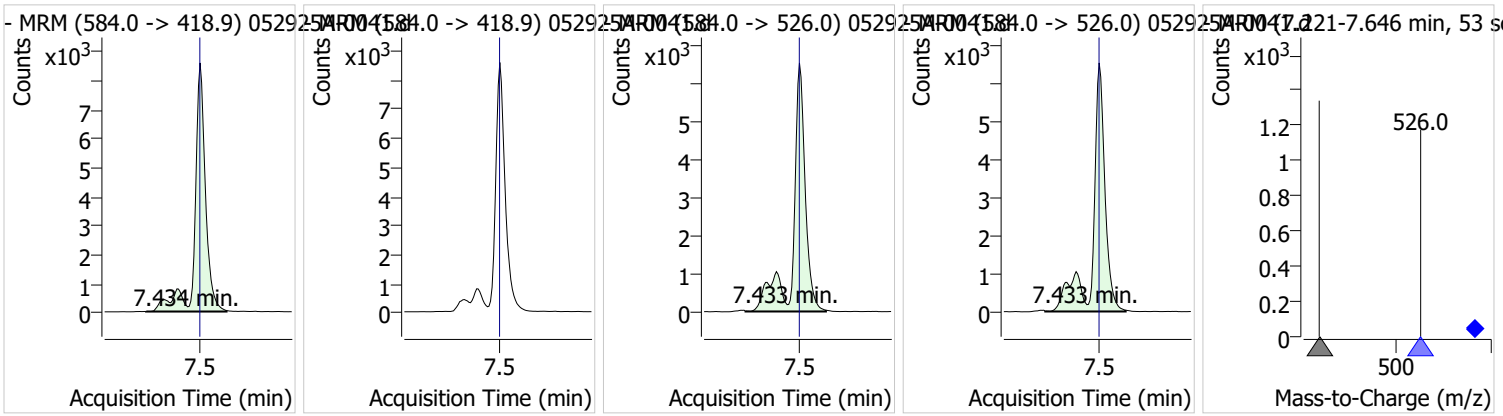
13C2-PFDoA_ISTD



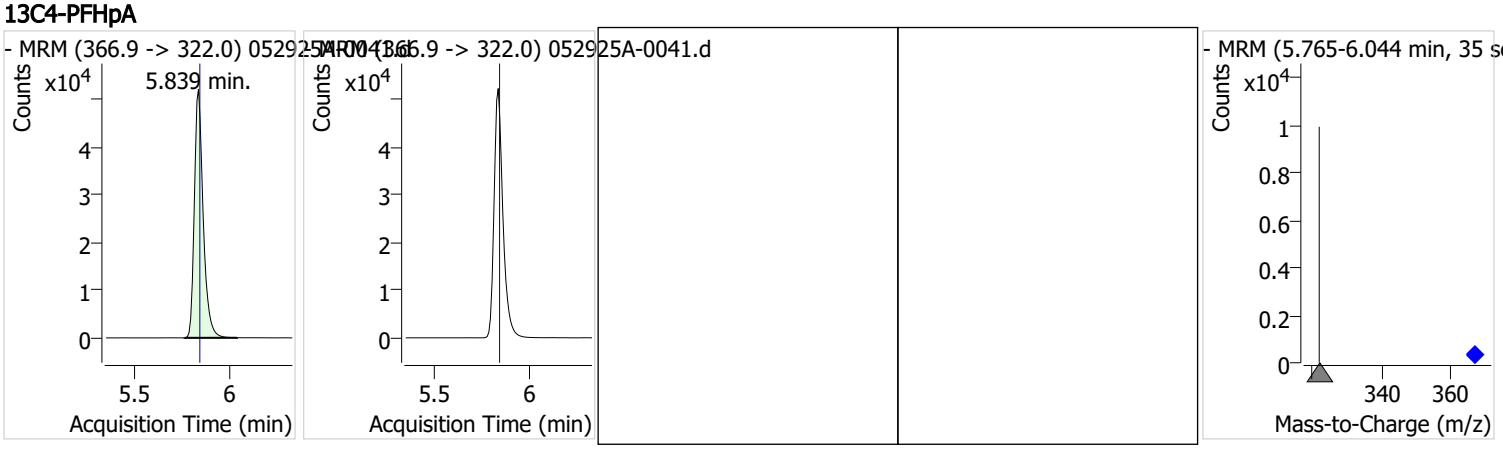
13C3-PFHxS



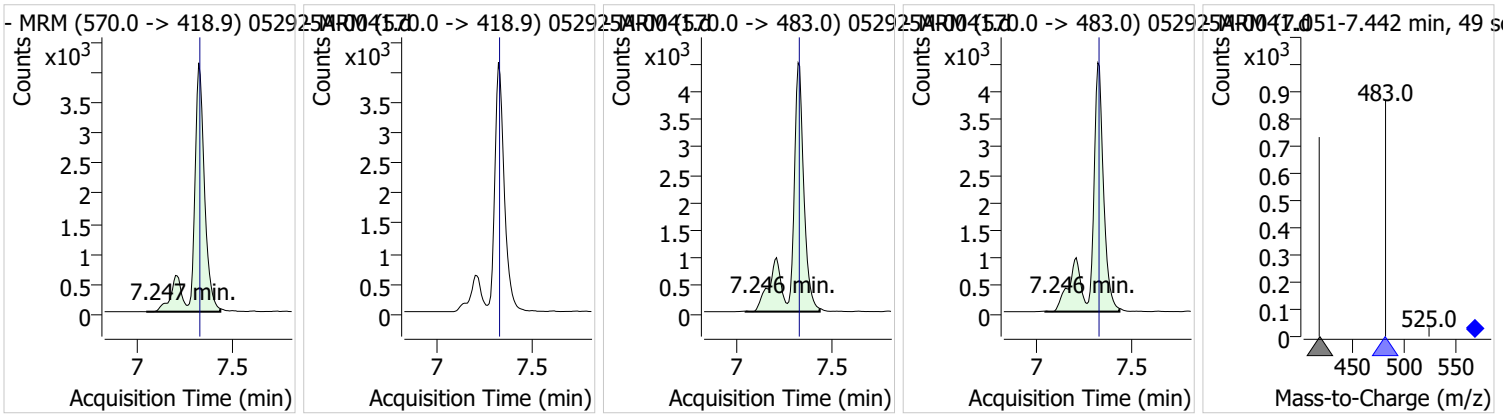
NEtFOSAA



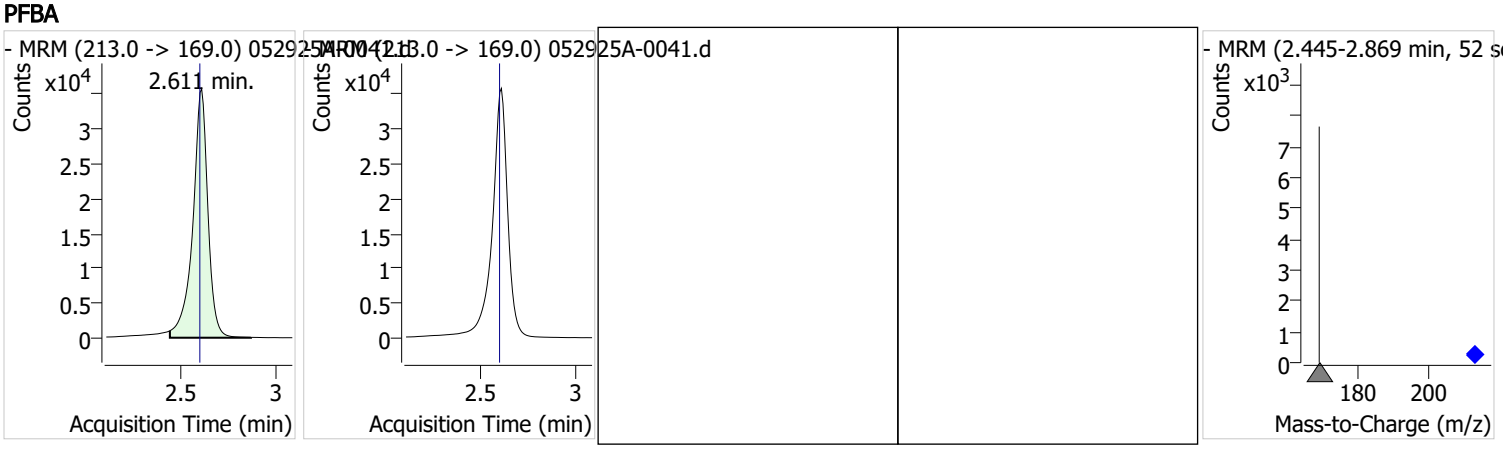
13C4-PFHpA



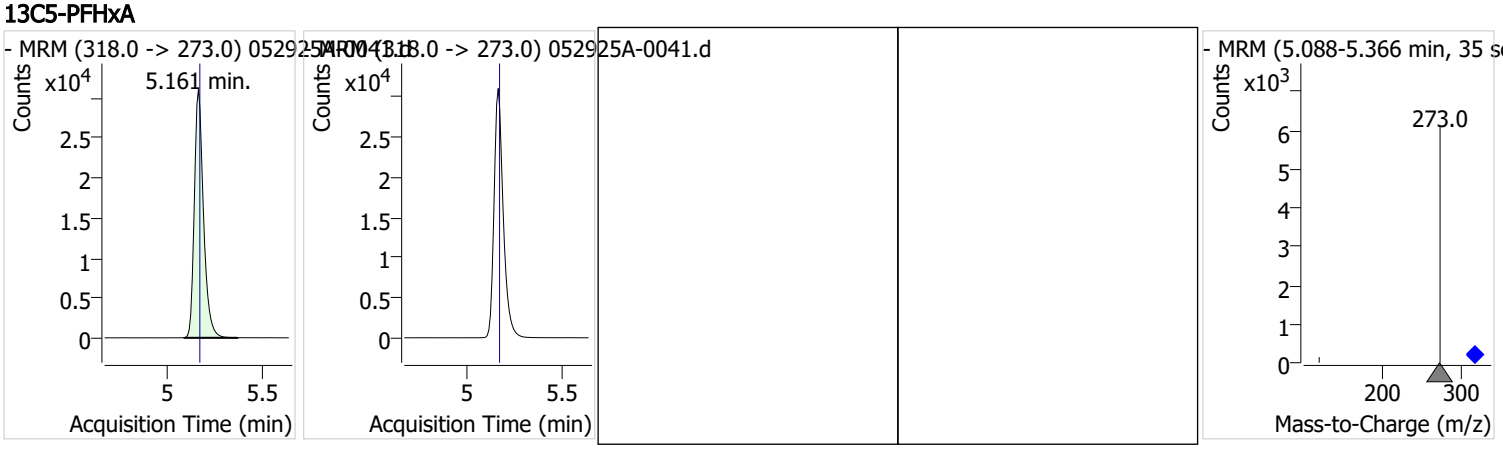
NMeFOSAA



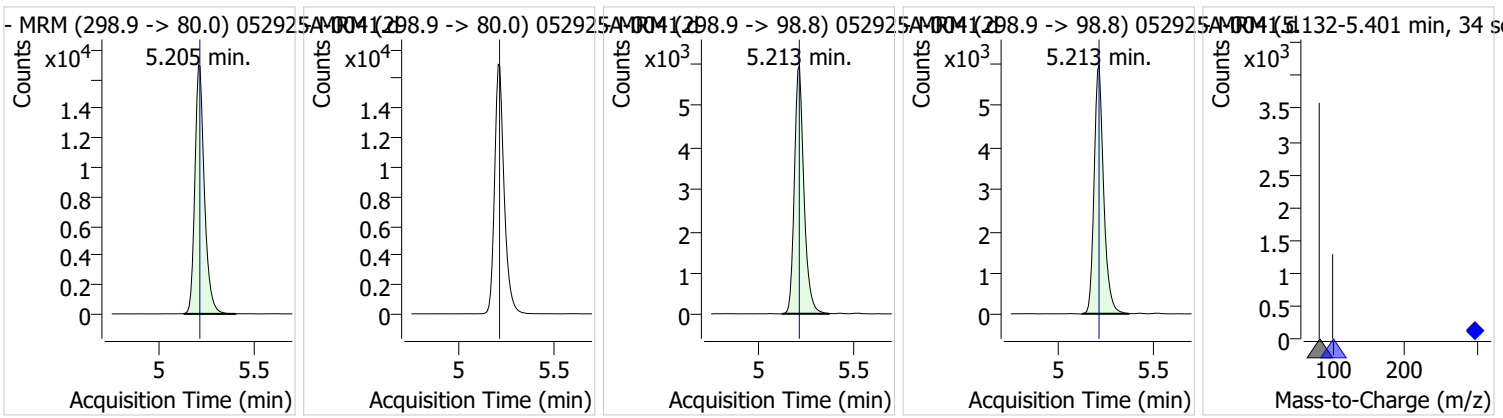
PFBA



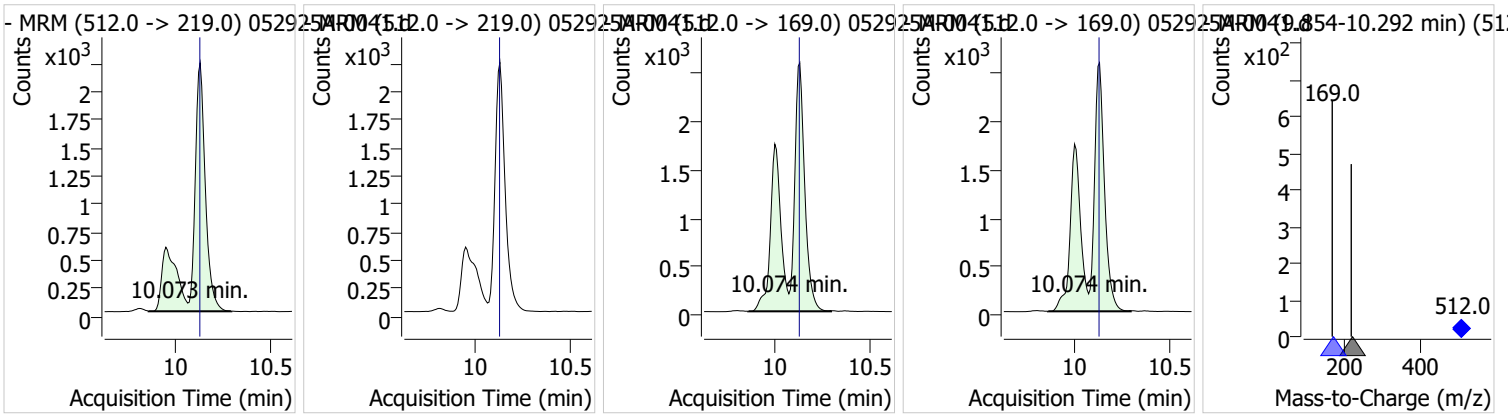
13C5-PFHxA



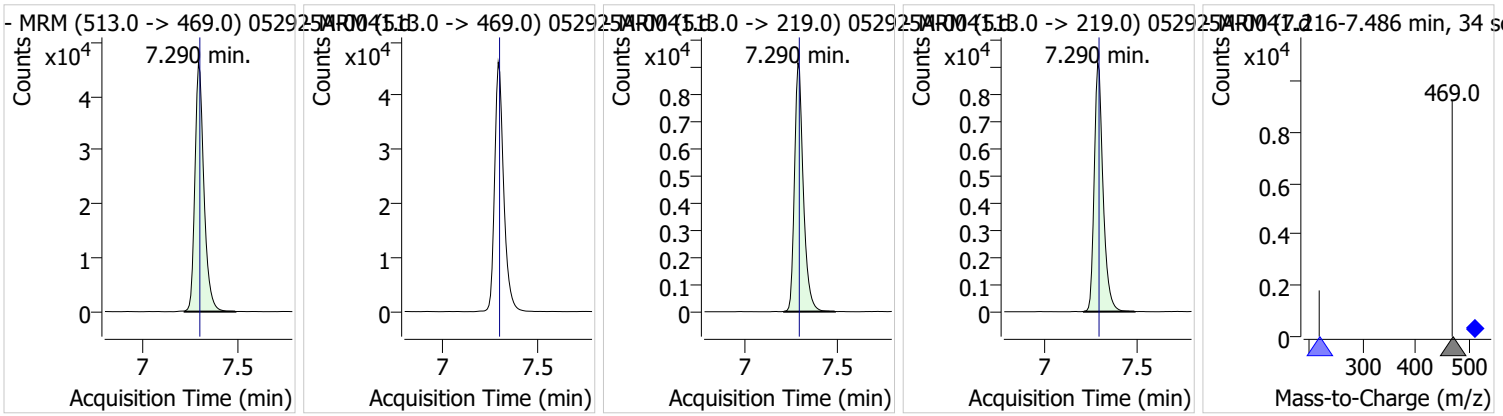
PFBS



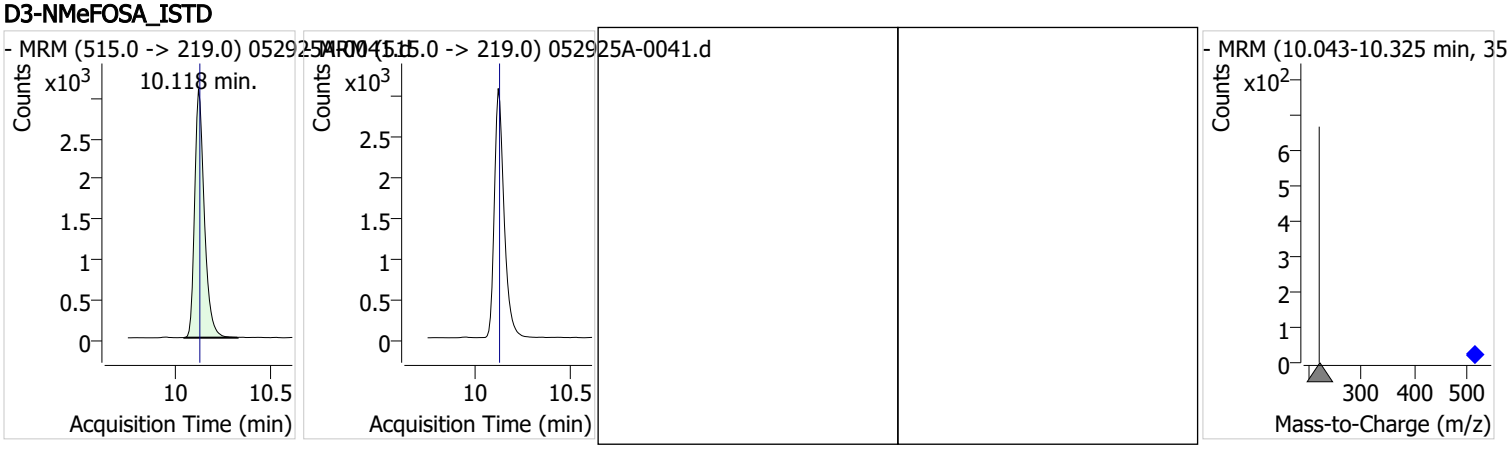
NMeFOSA



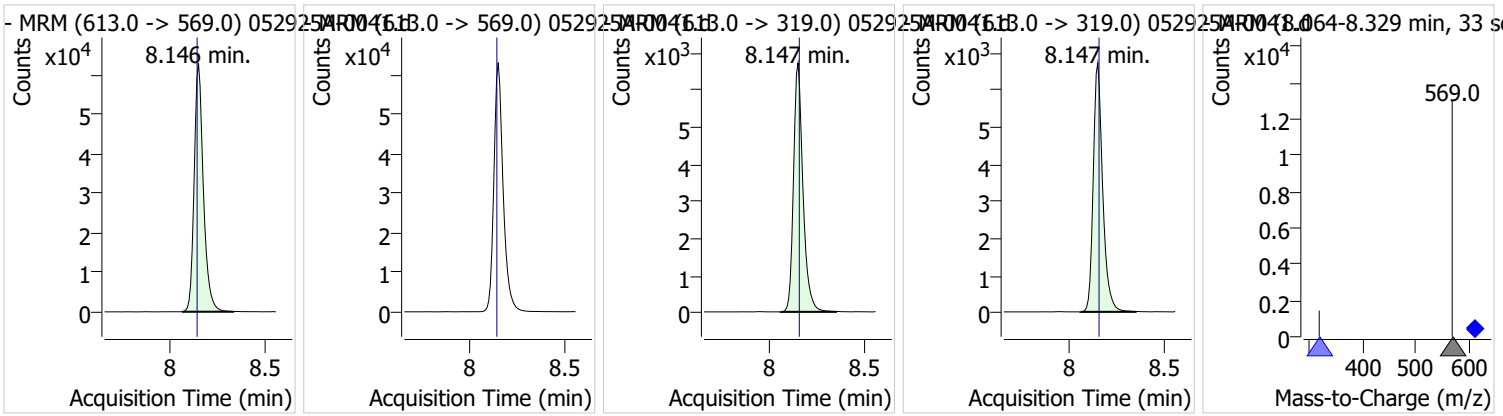
PFDA



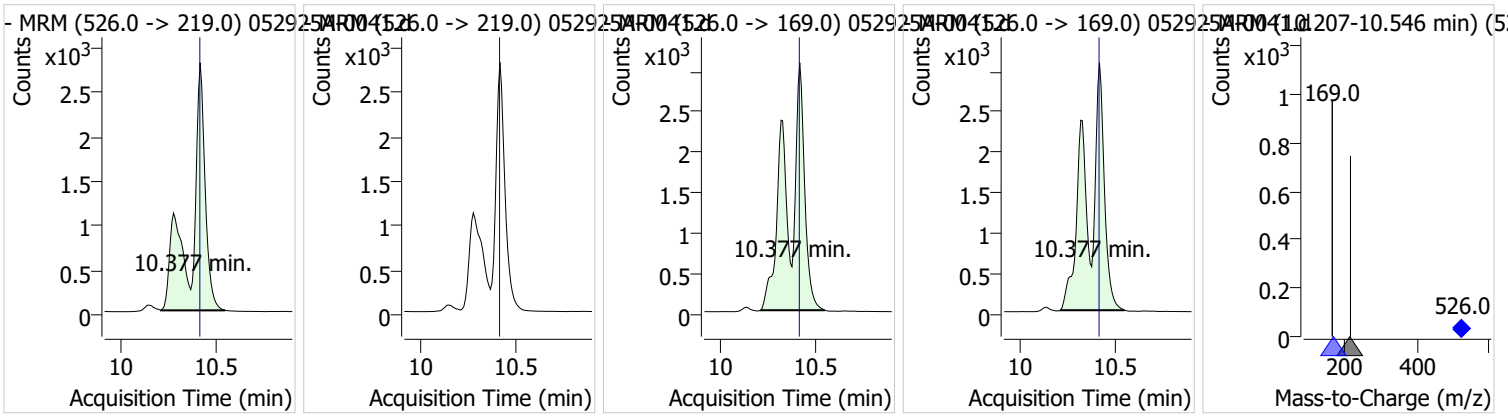
D3-NMeFOSA_ISTD



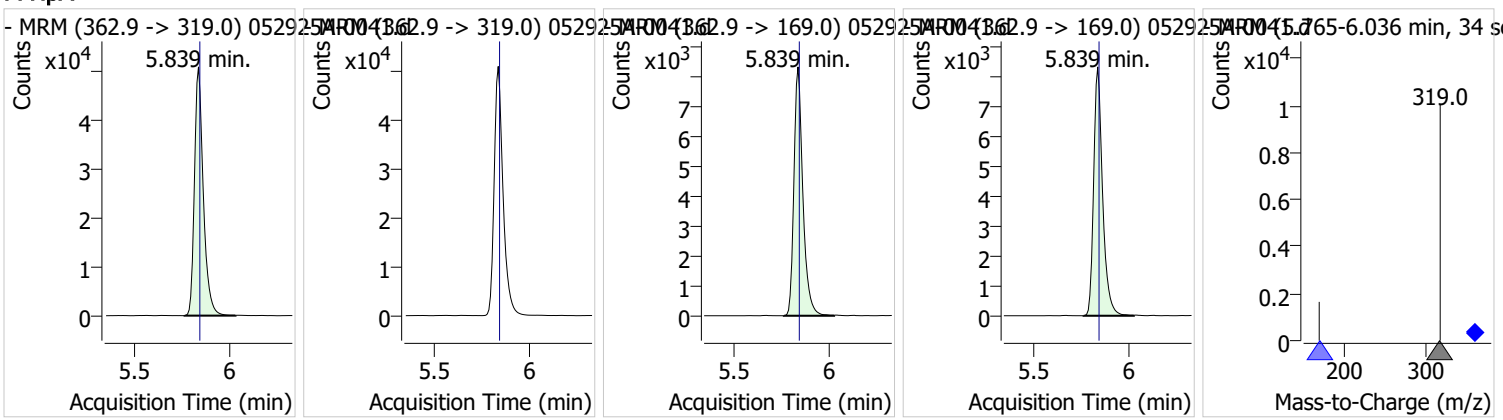
PFDoA



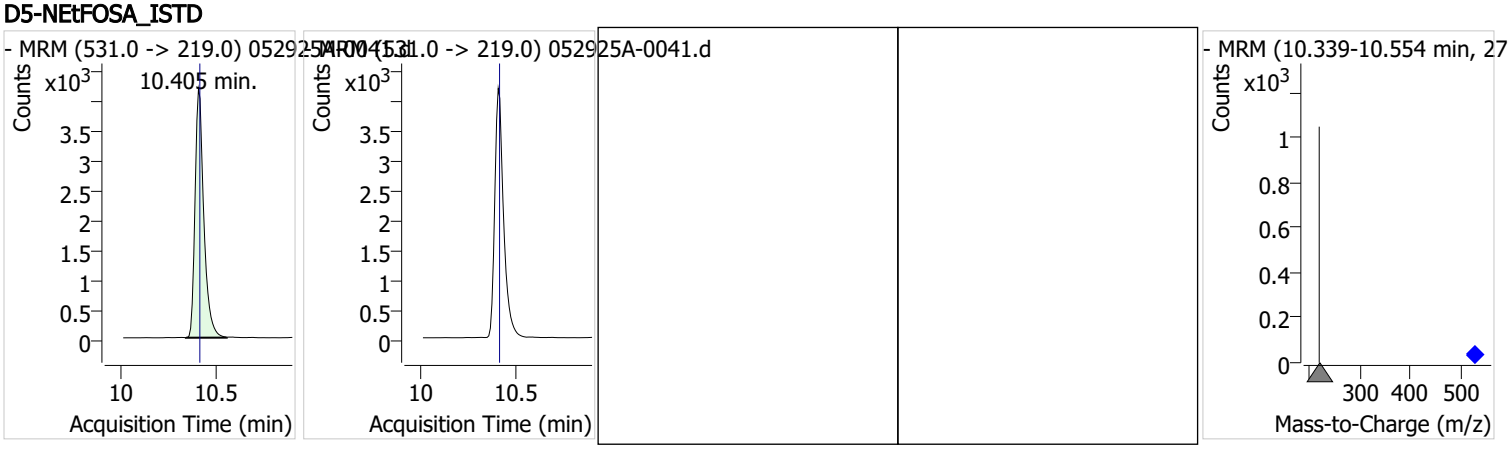
NEtFOSA



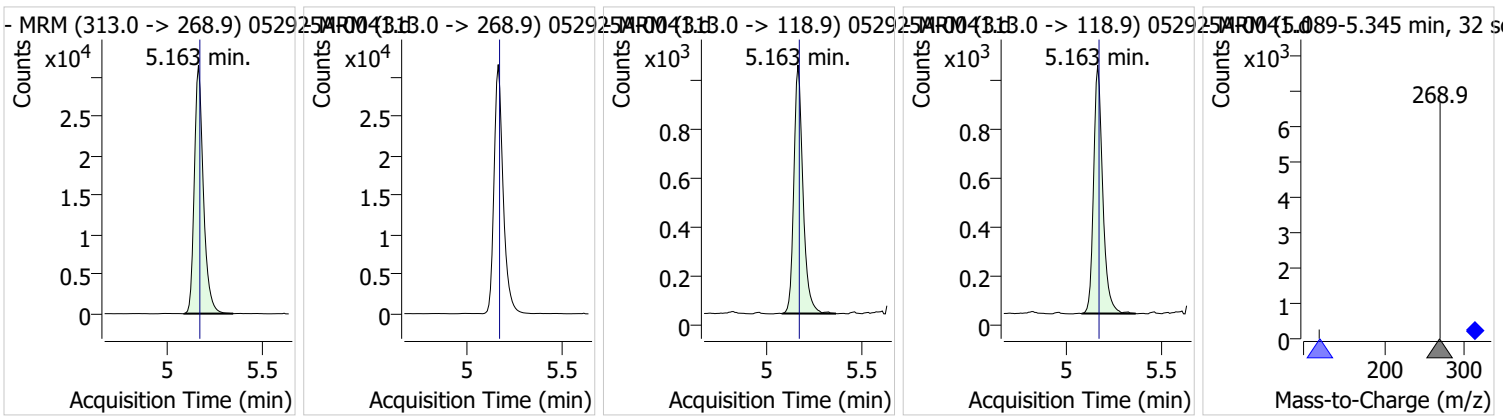
PFHpA



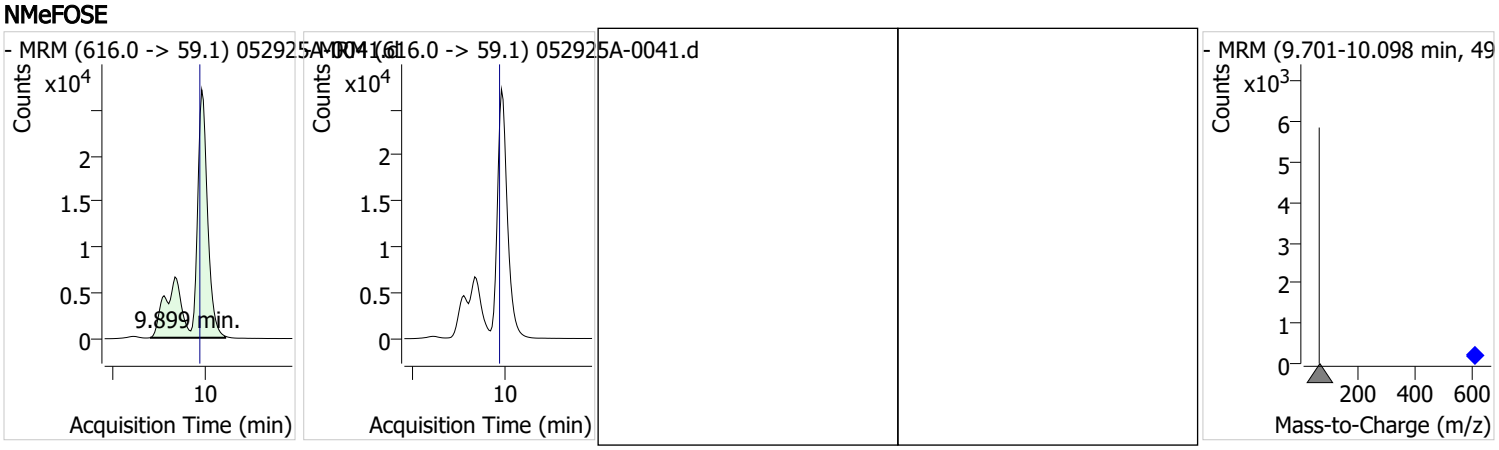
D5-NEtFOSA_ISTD



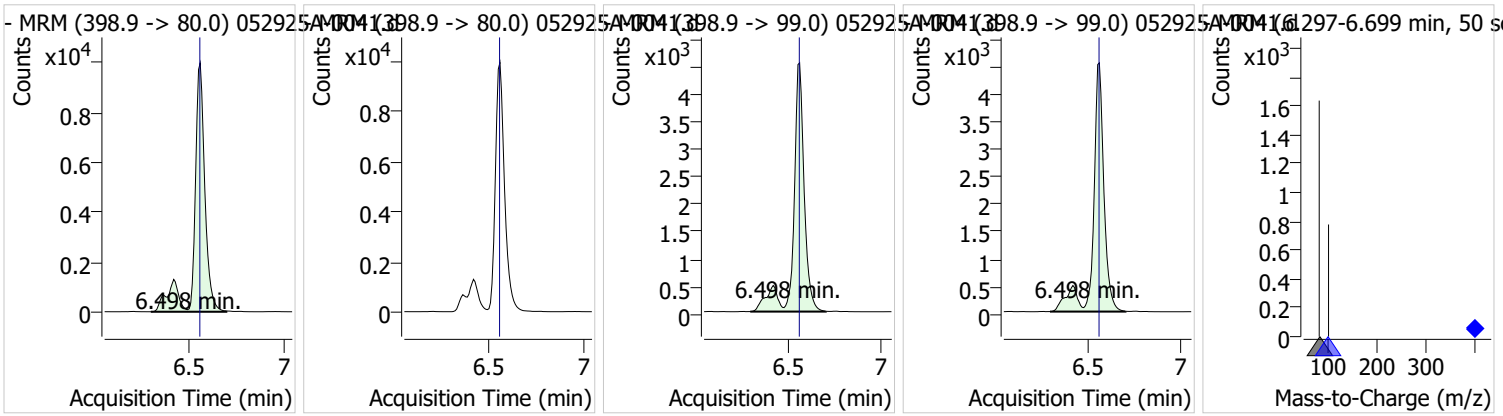
PFHxA



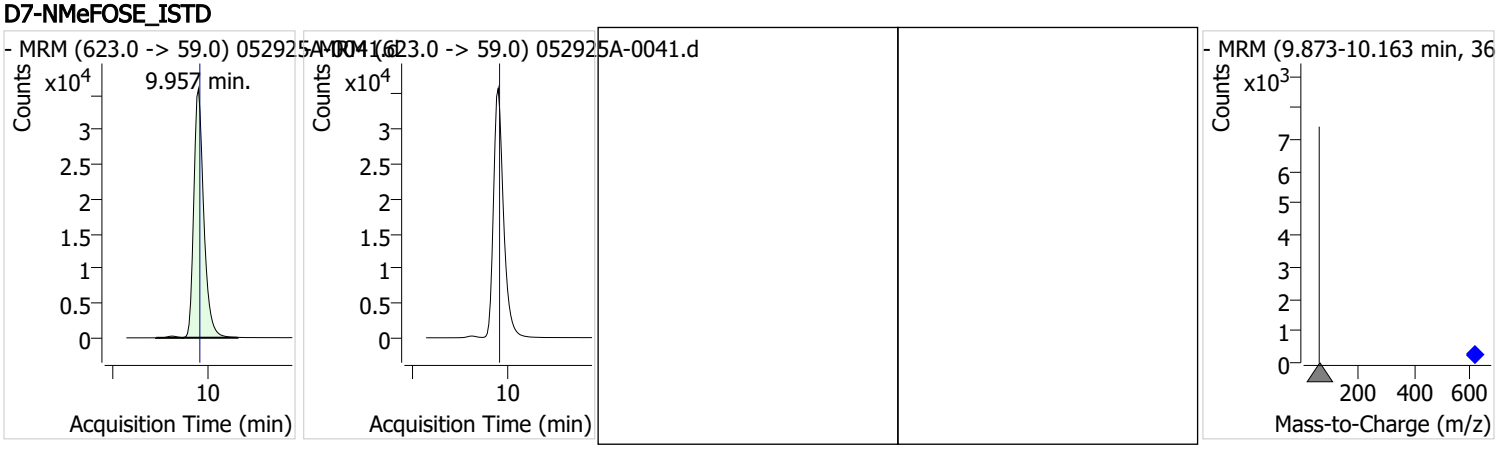
NMeFOSE



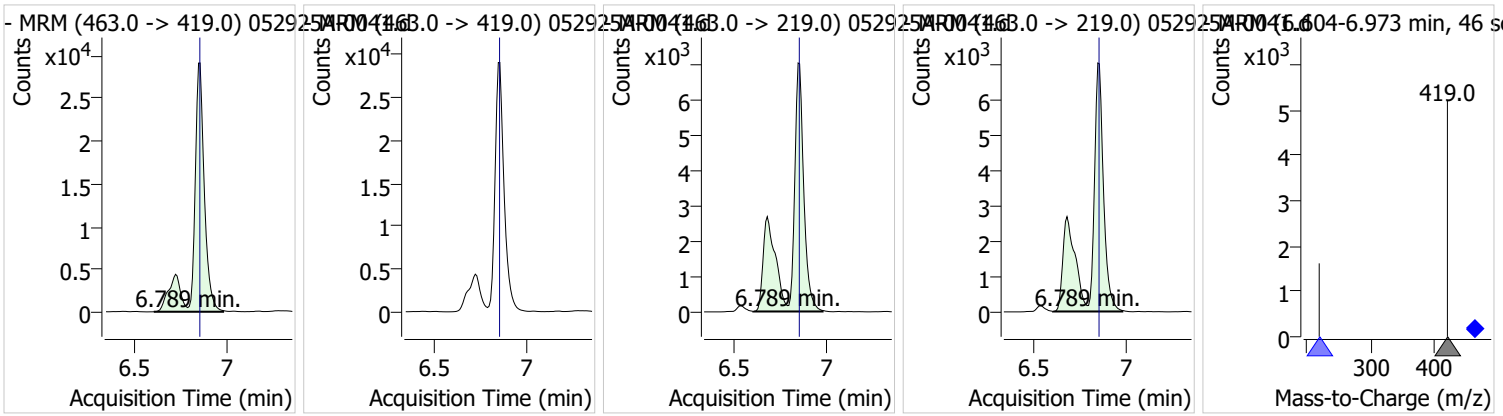
PFHxS



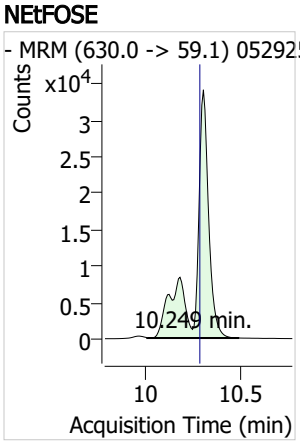
D7-NMeFOSE_ISTD

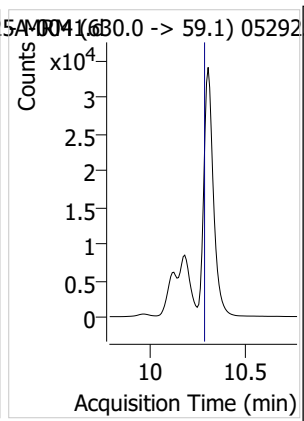


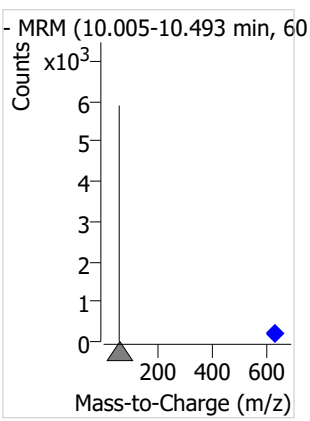
PFNA



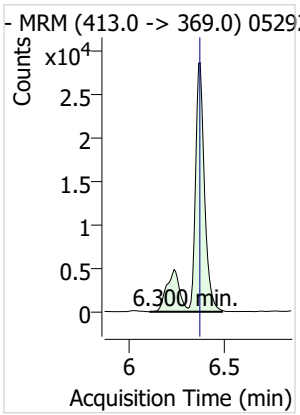
NEtFOSE

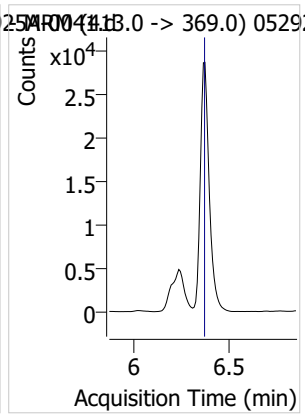


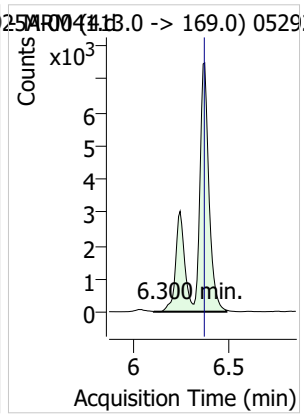


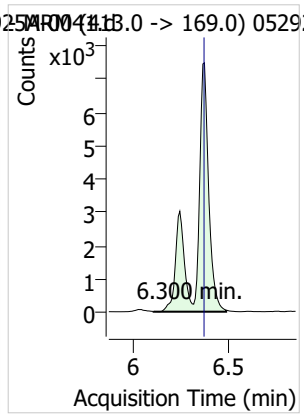


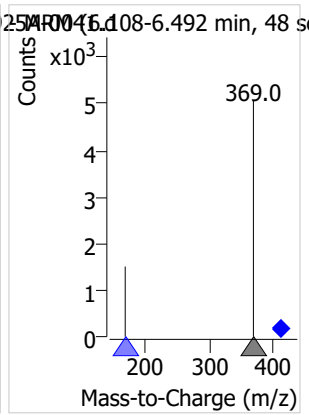
PFOA



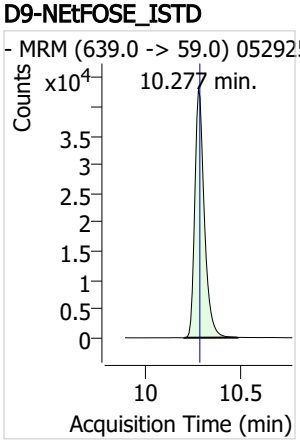


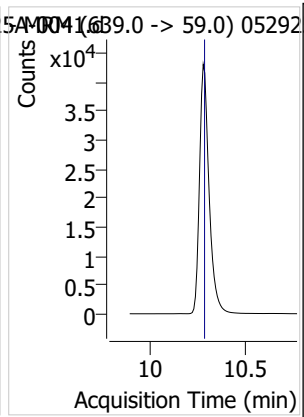


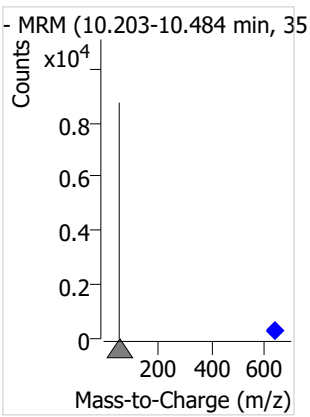




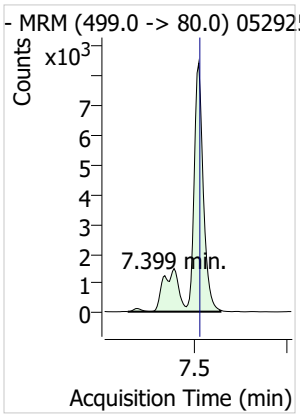
D9-NEtFOSE_ISTD

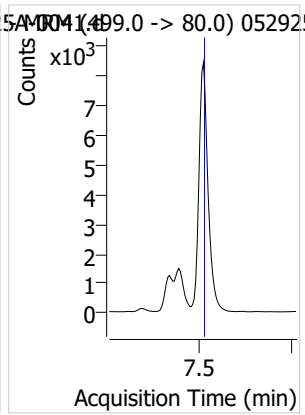


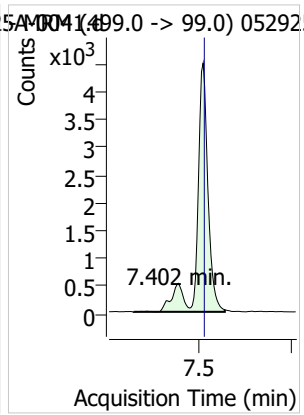


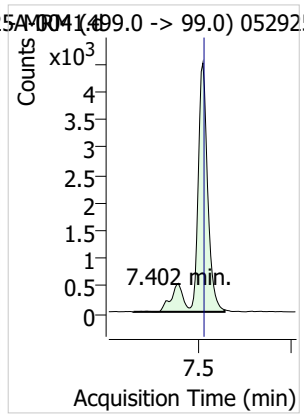


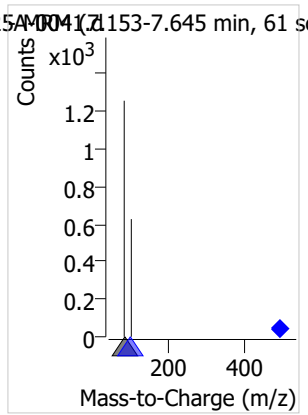
PFOS







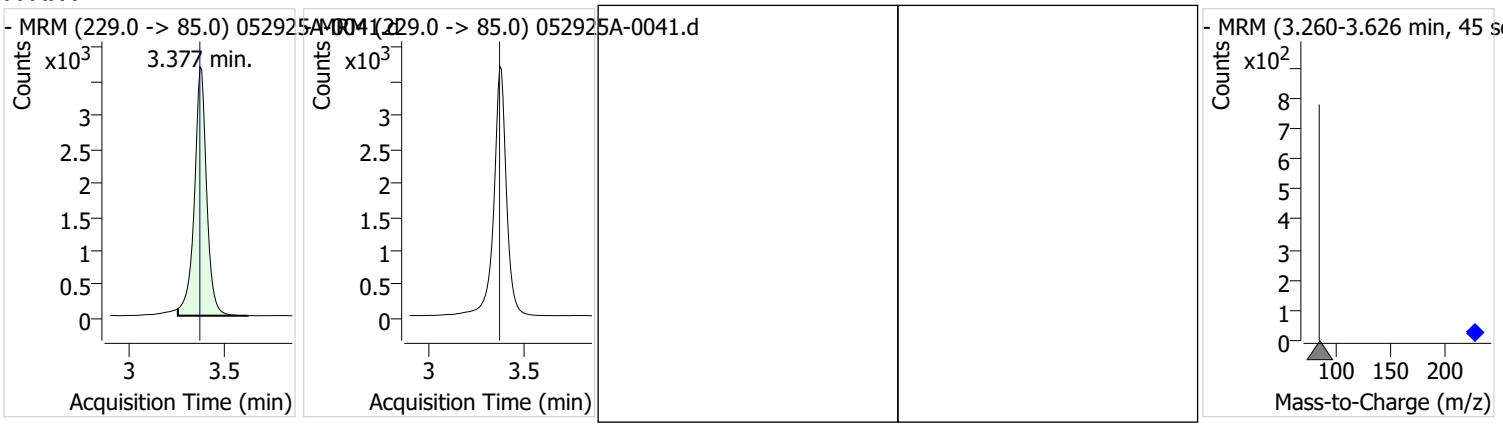




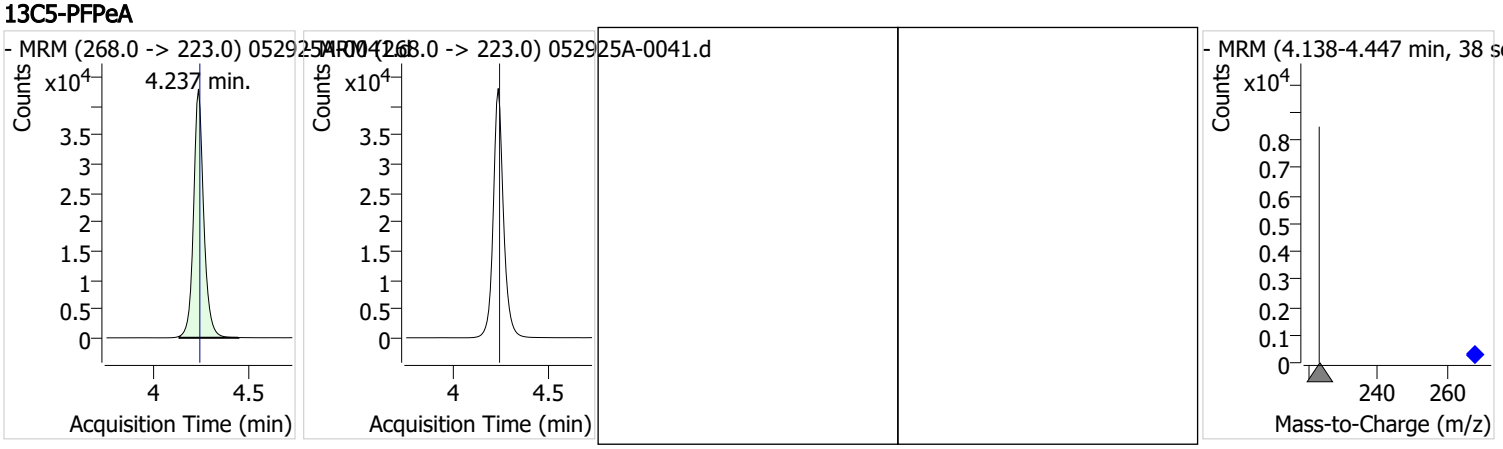
PFPeA



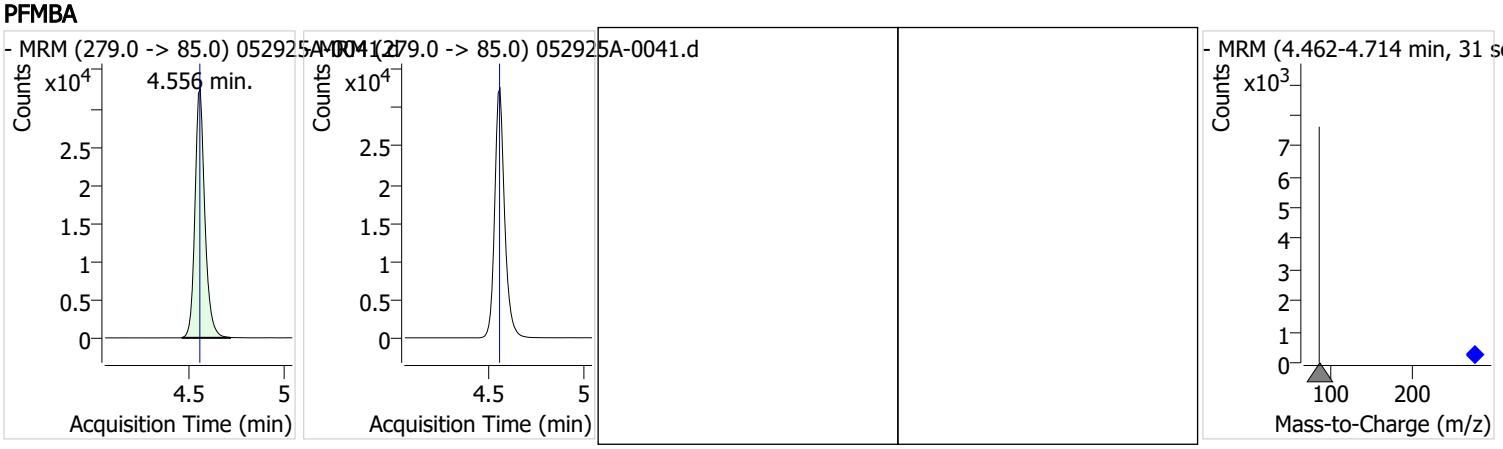
PFMPA



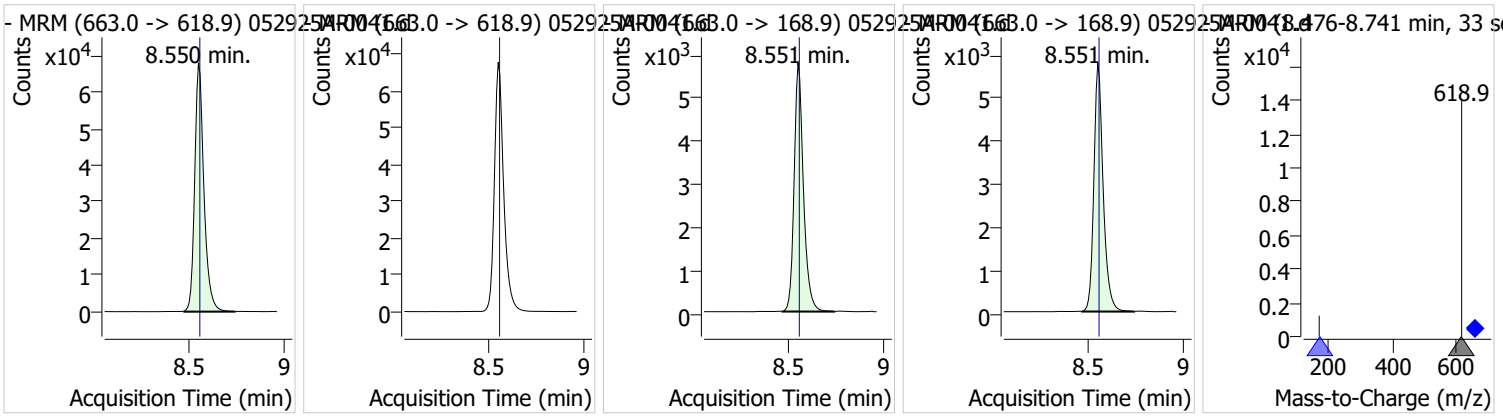
13C5-PFPeA



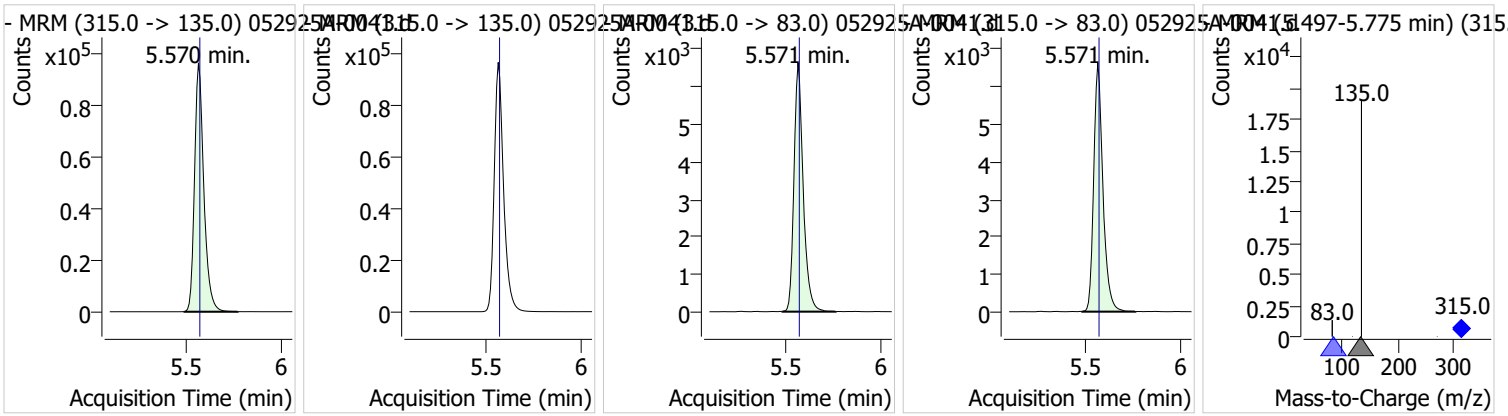
PFMBA



PFTrDA



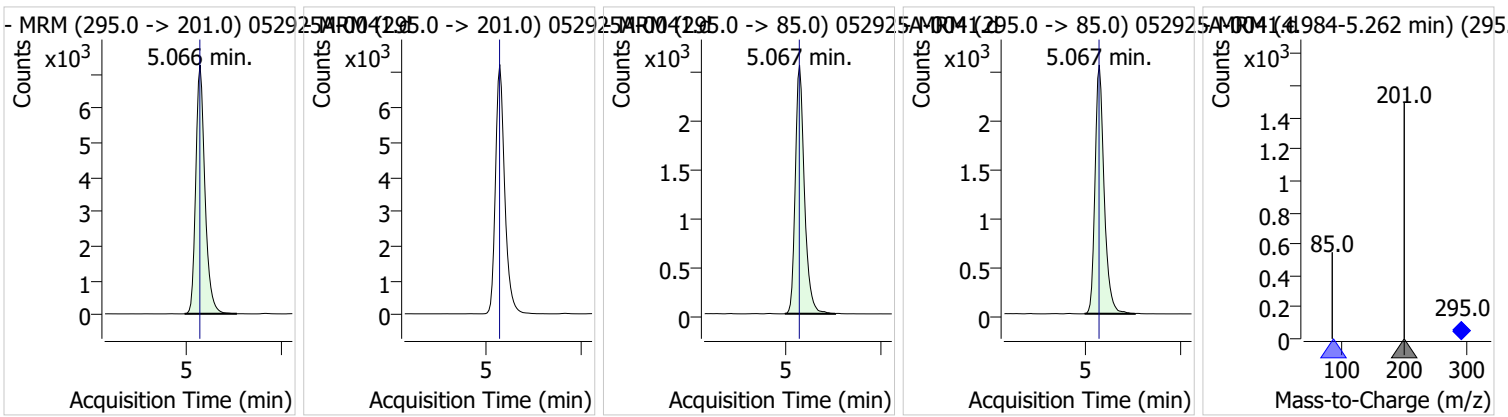
PFEESA



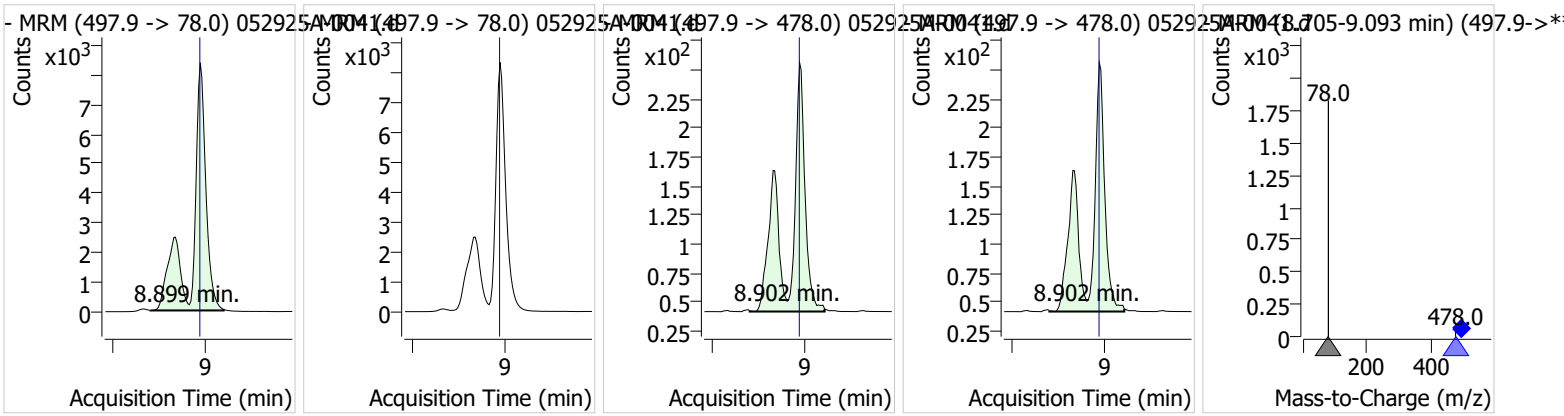
13C6-PFDA



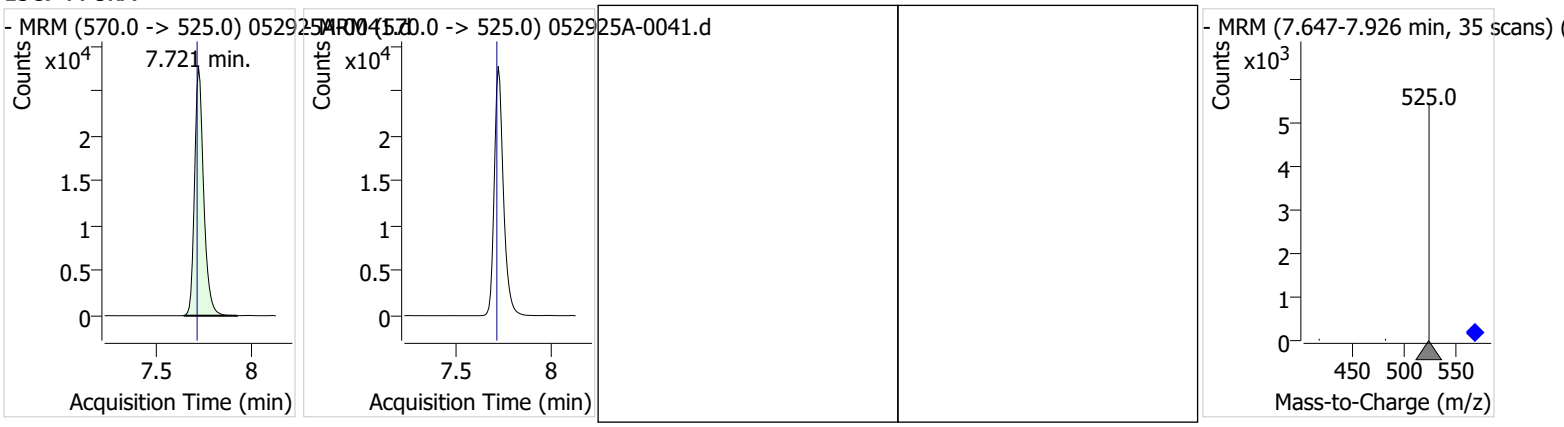
NFDHA



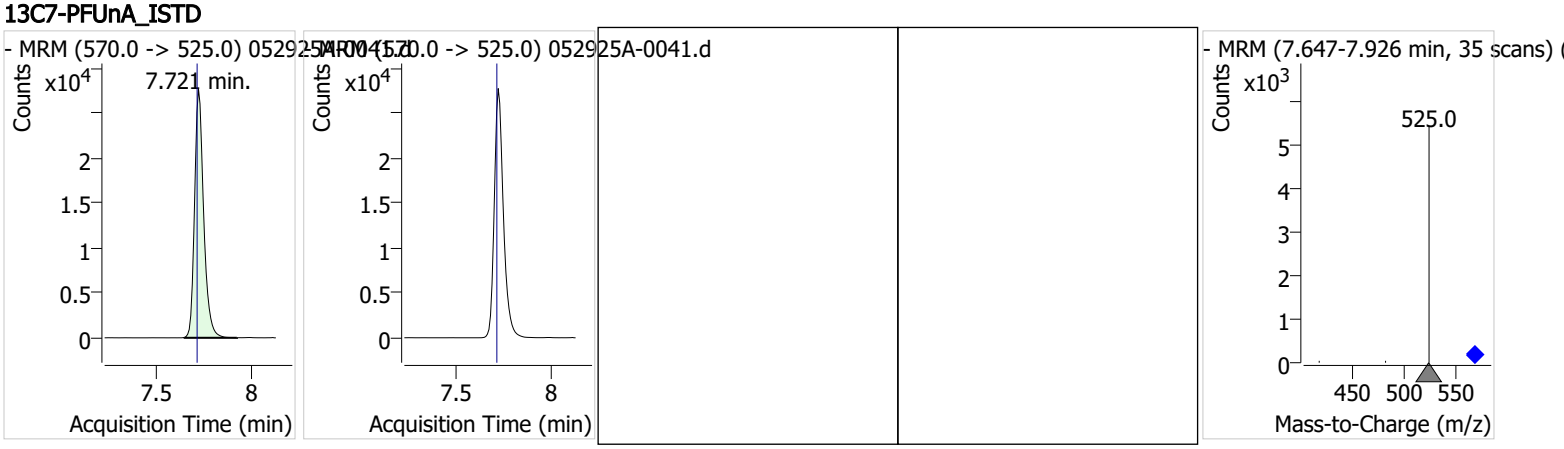
PFOSA



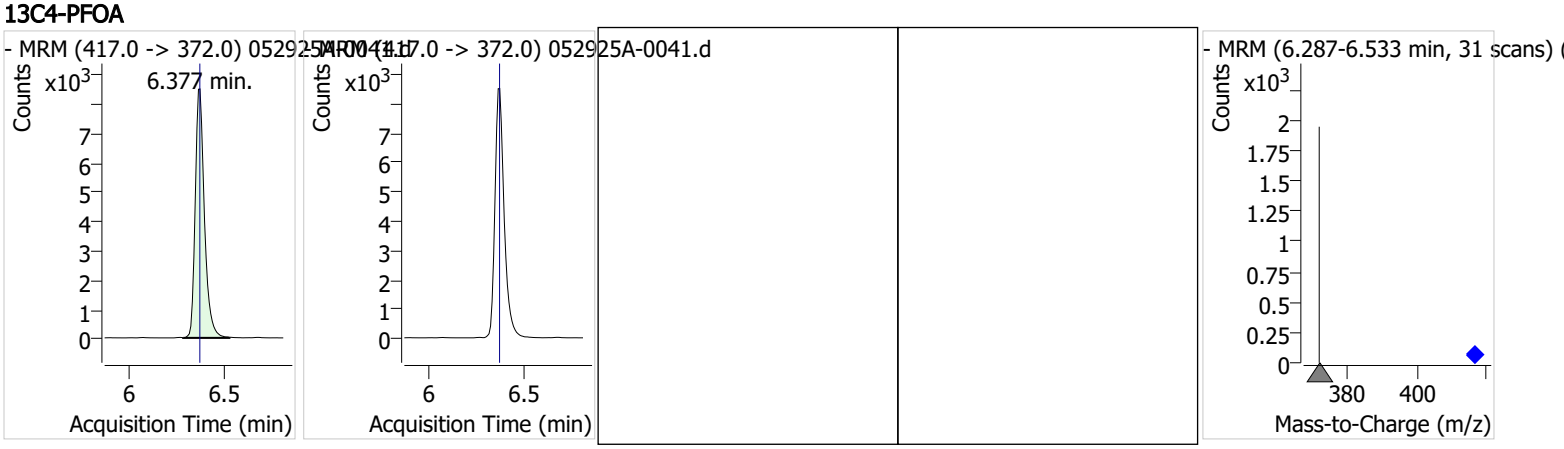
13C7-PFUnA



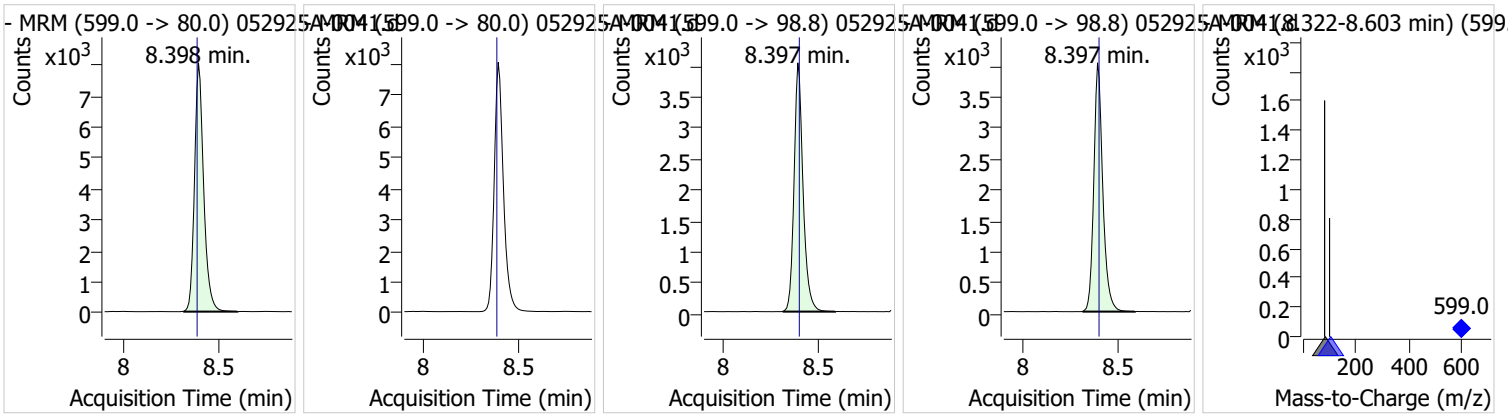
13C7-PFUnA_ISTD



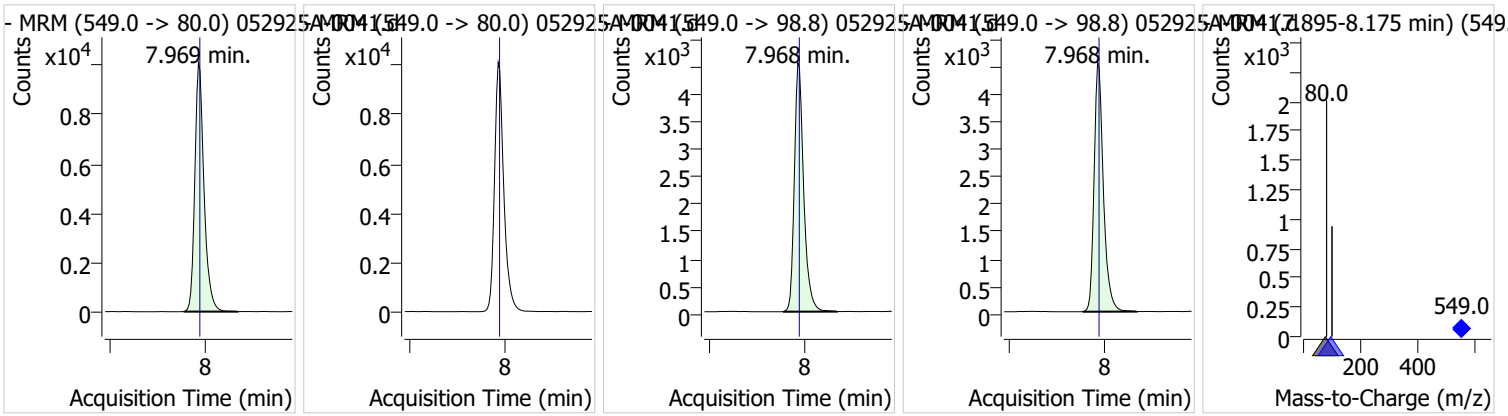
13C4-PFOA



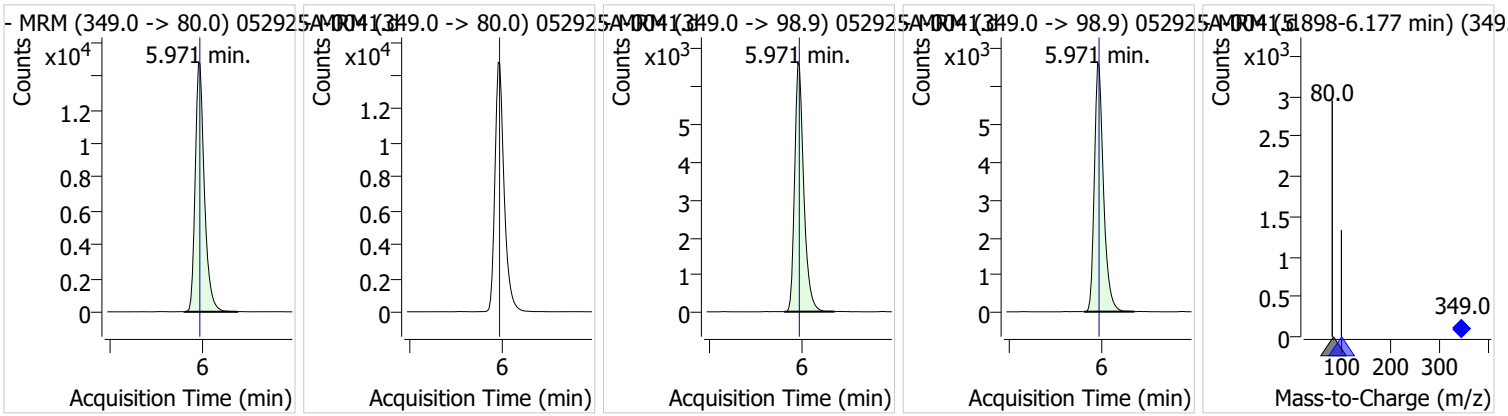
PFDS



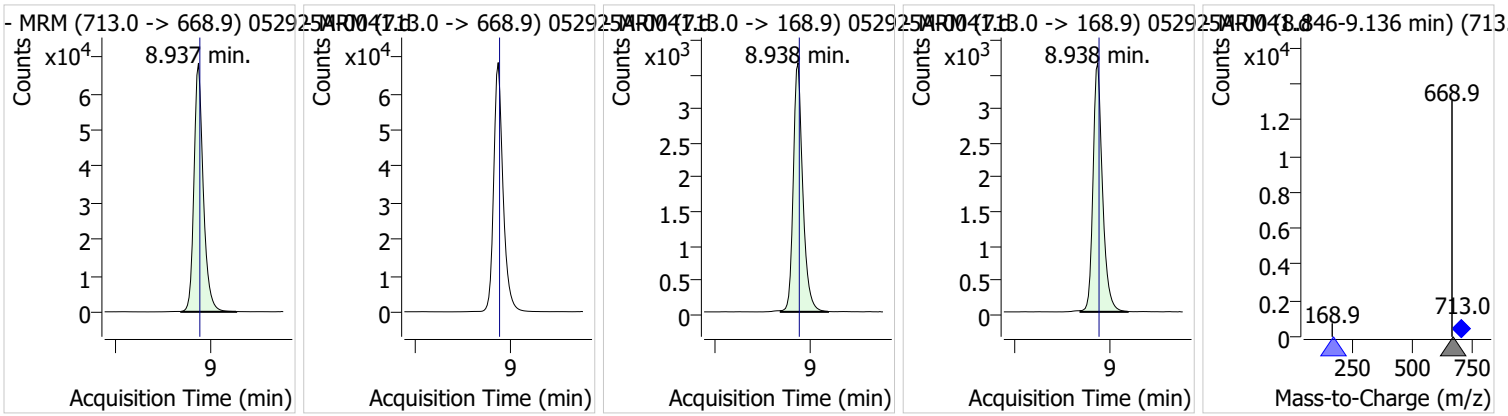
PFNS



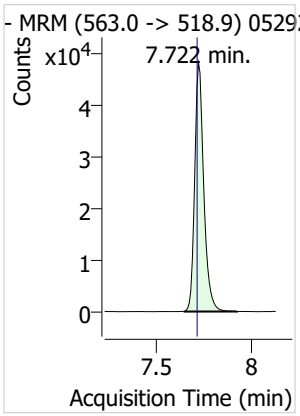
PFPeS

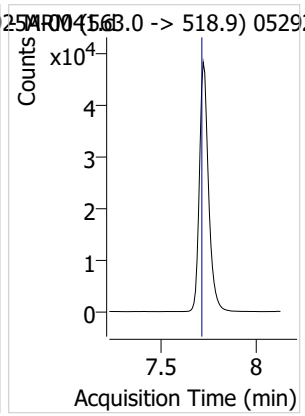


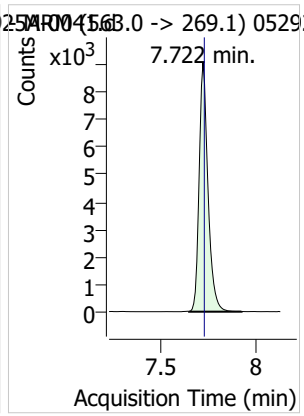
PFTeDA

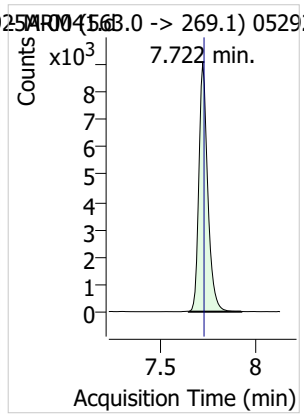


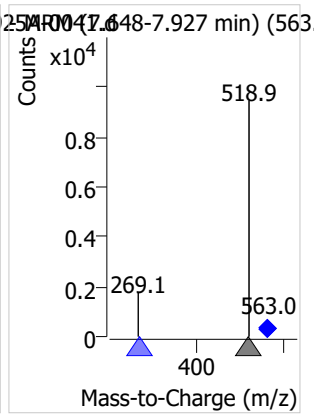
PFUnA



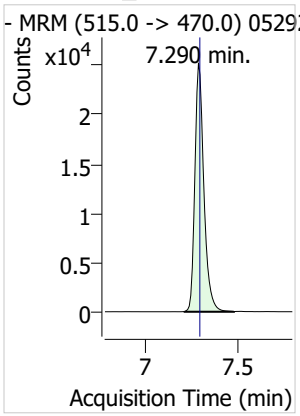


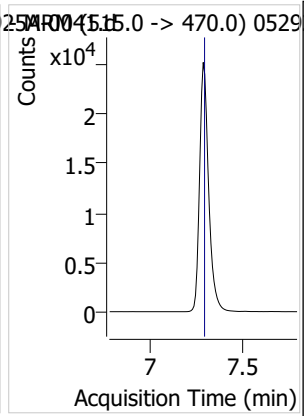


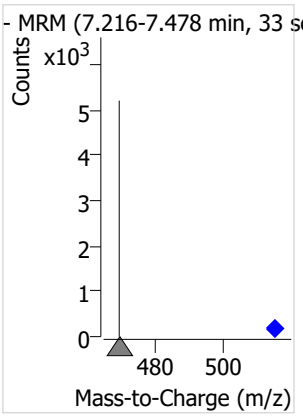




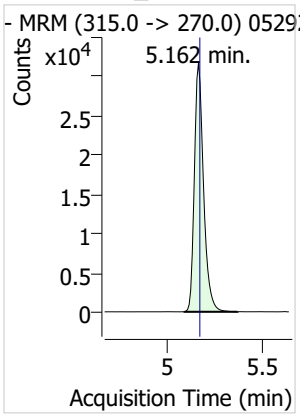
13C2-PFDA_ISTD

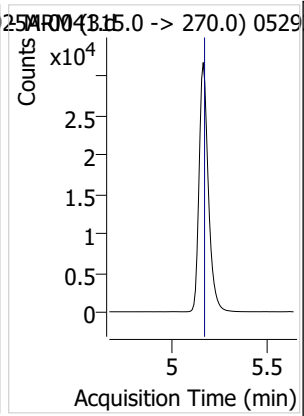


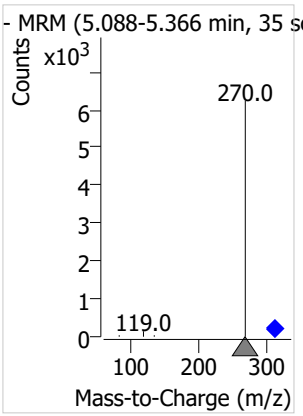




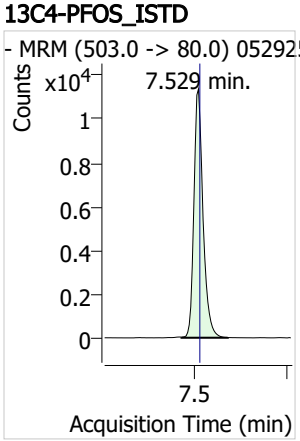
13C2-PFHxA_ISTD

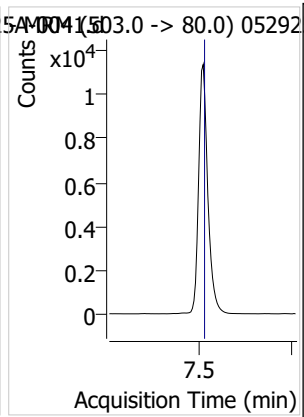


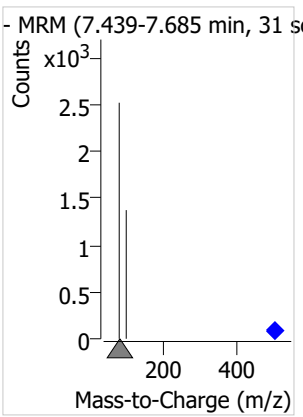




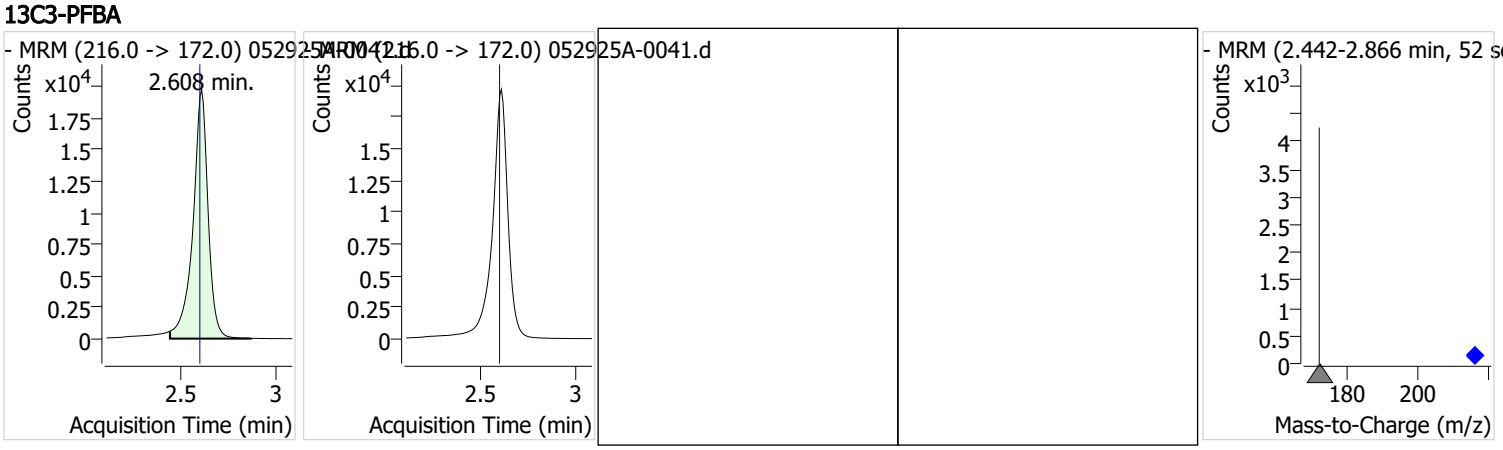
13C4-PFOS_ISTD



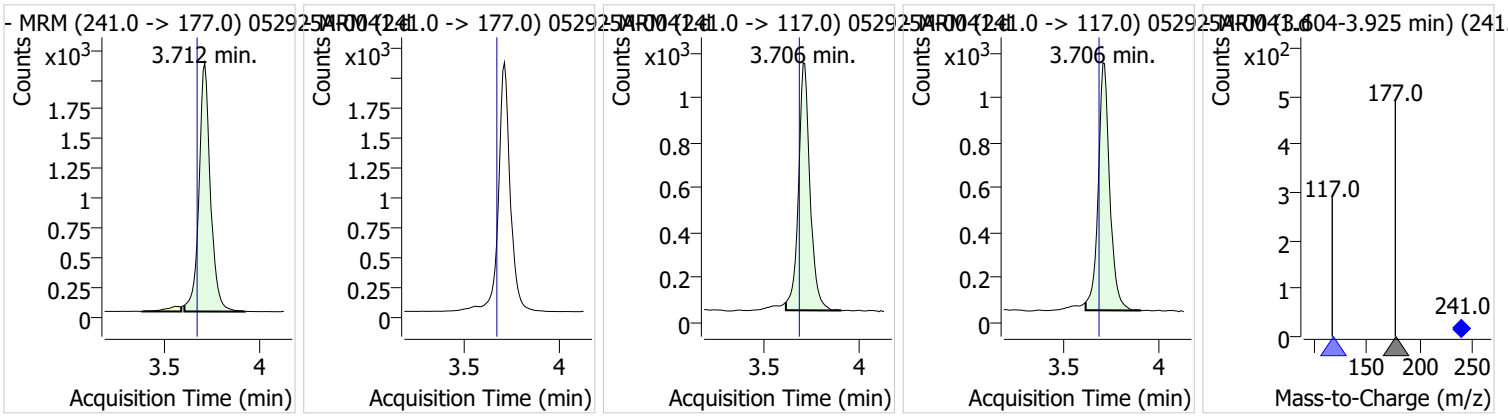




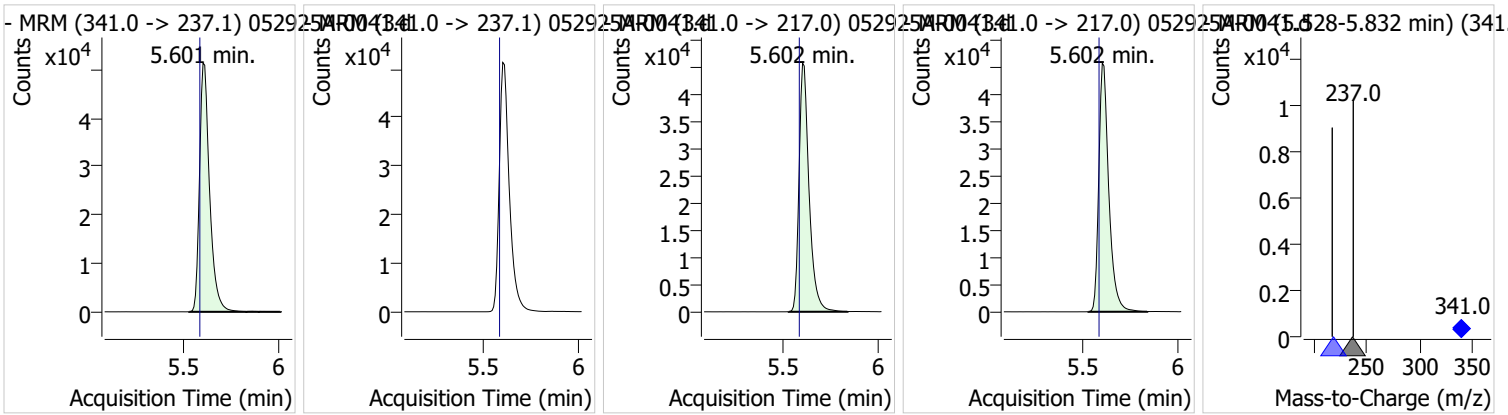
13C3-PFBA



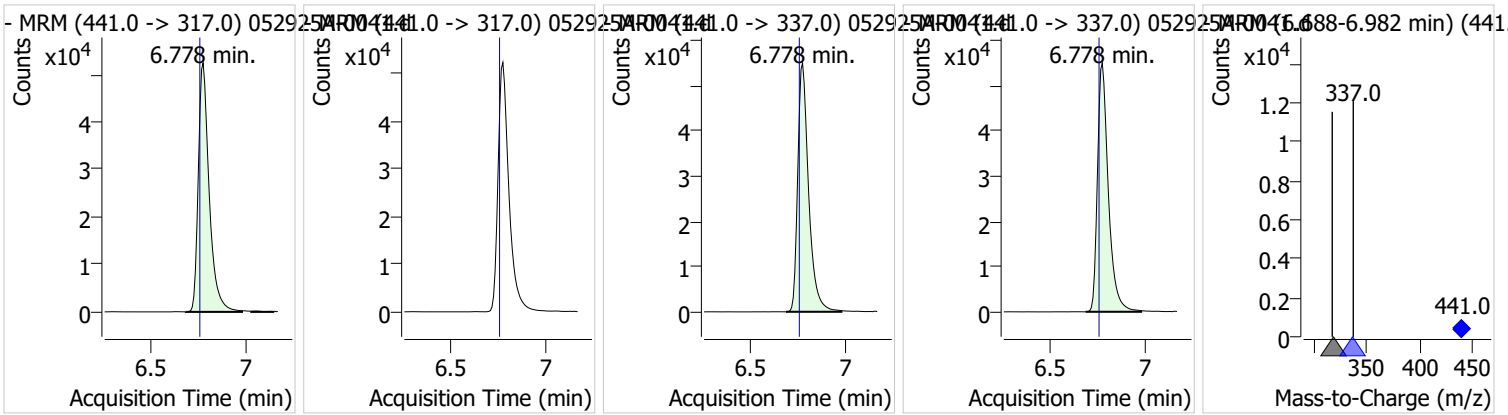
3:3FTCA



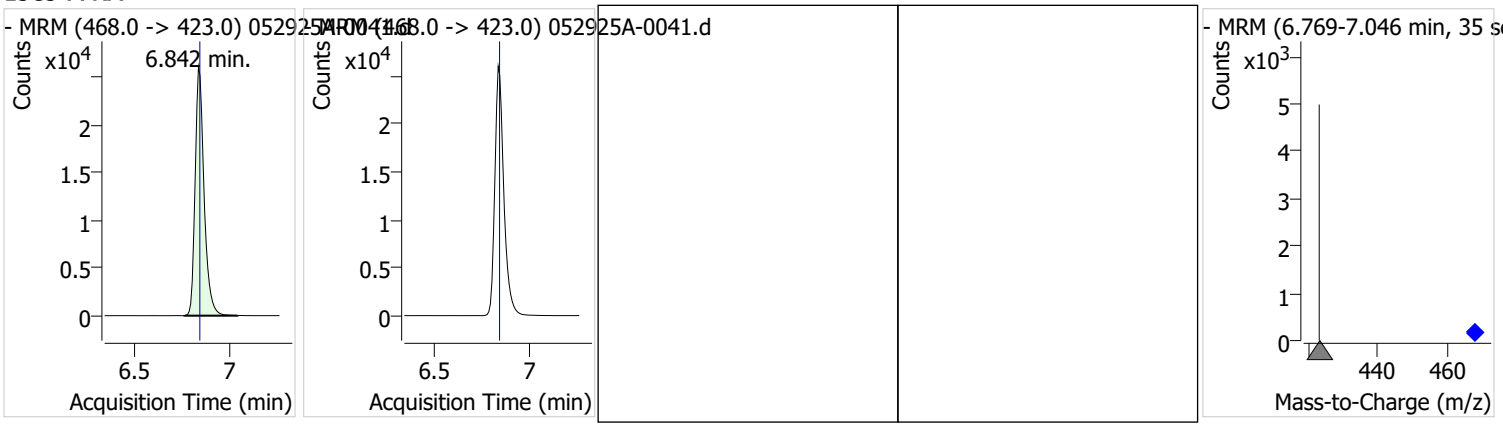
5:3FTCA



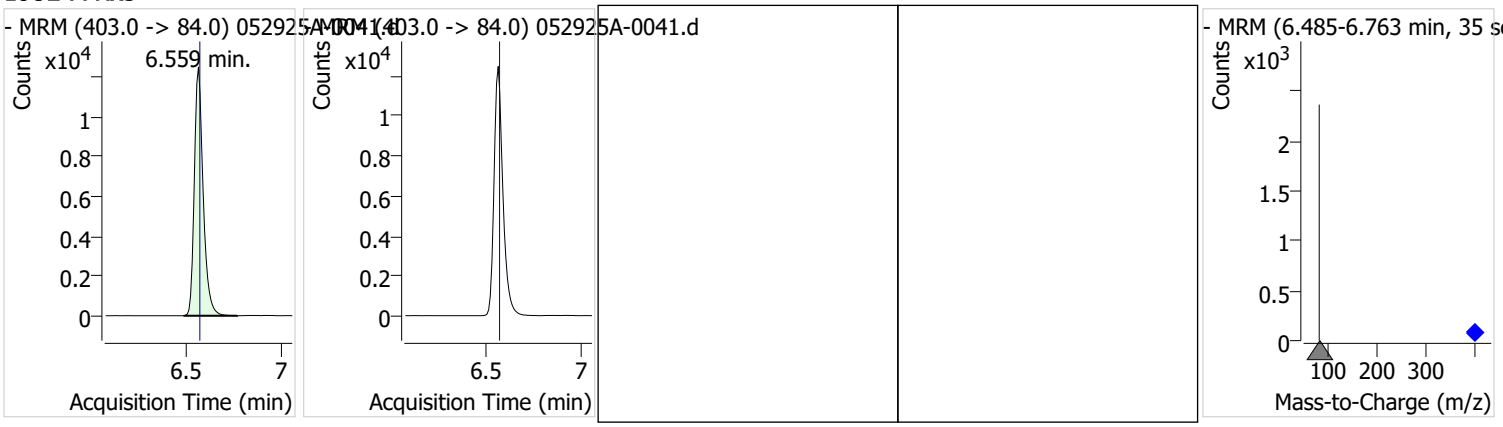
7:3FTCA



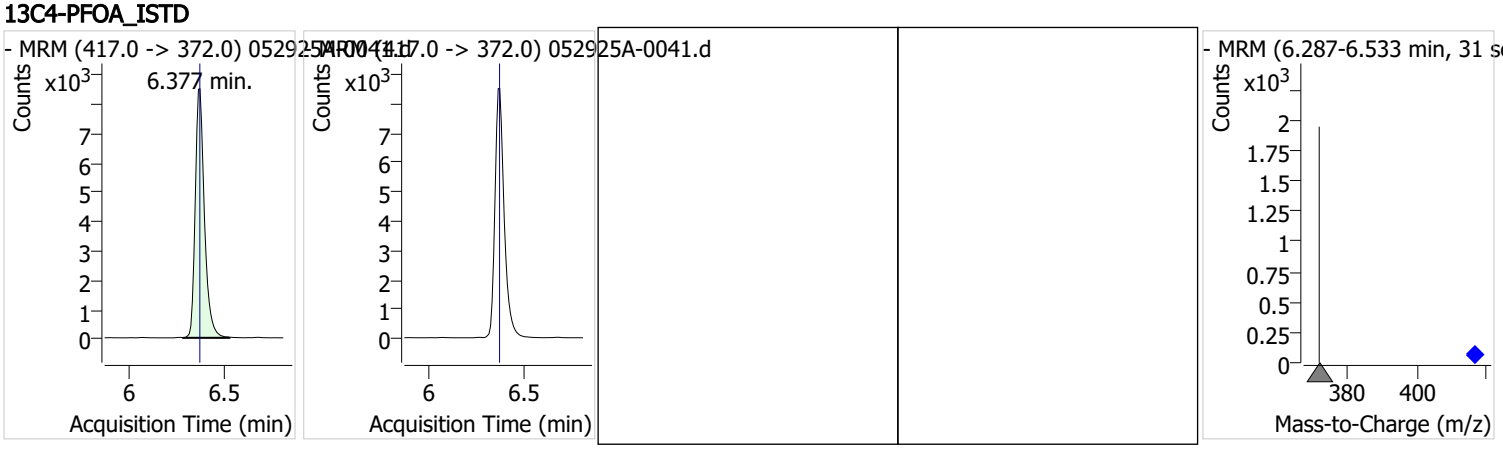
13C5-PFNA



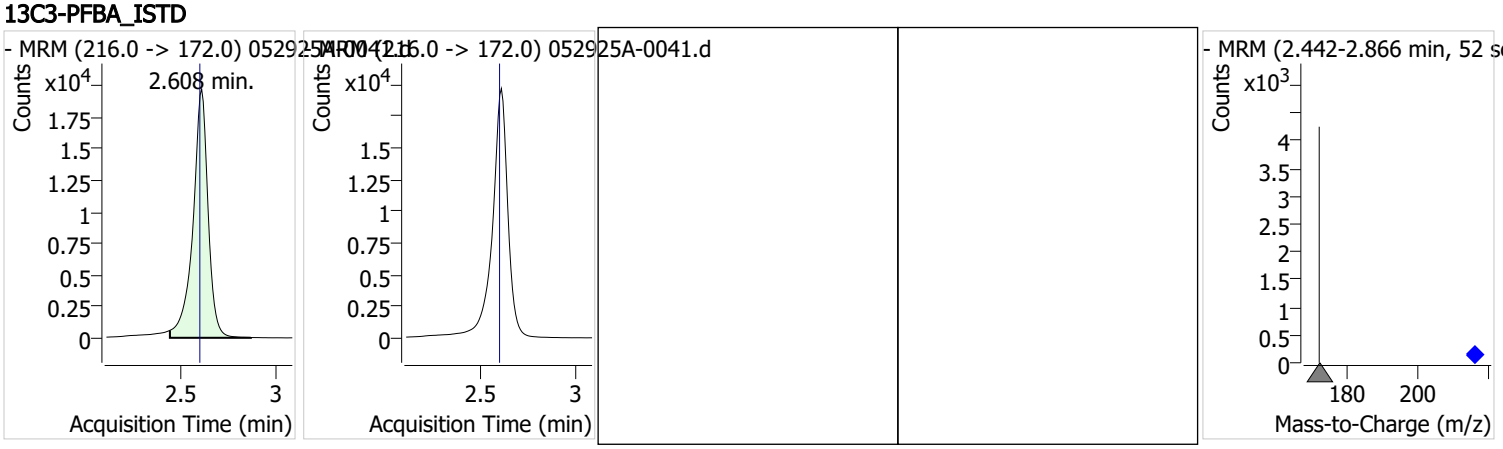
18O2-PFHxS



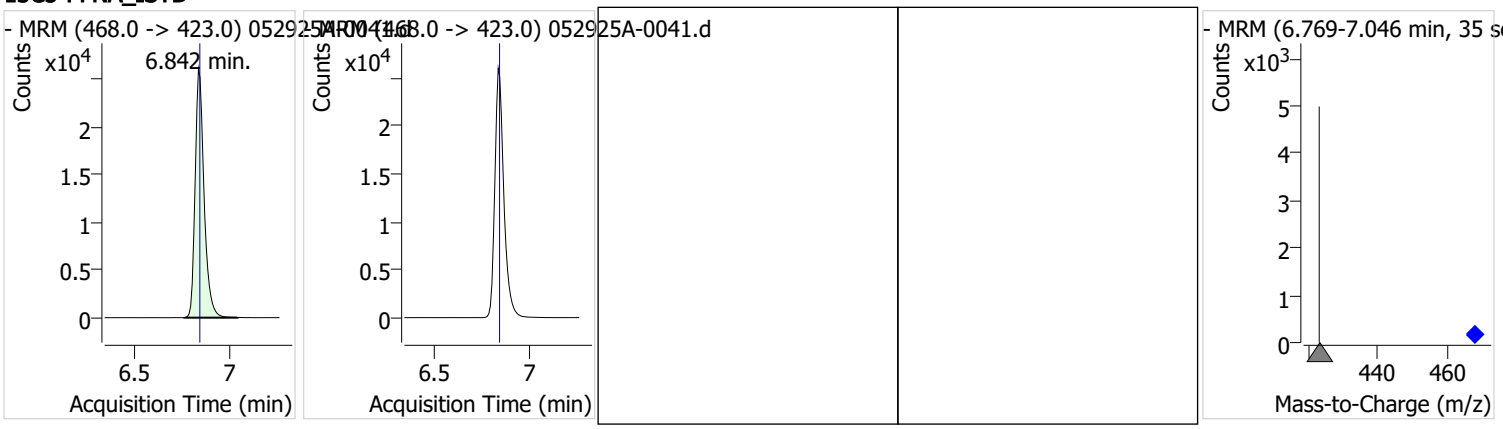
13C4-PFOA_ISTD



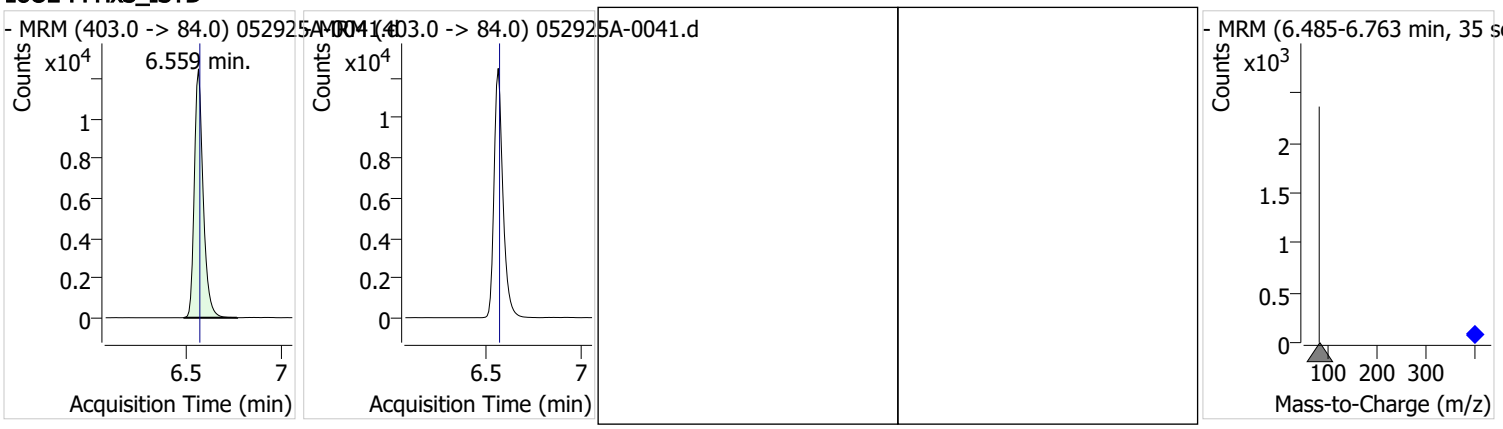
13C3-PFBA_ISTD



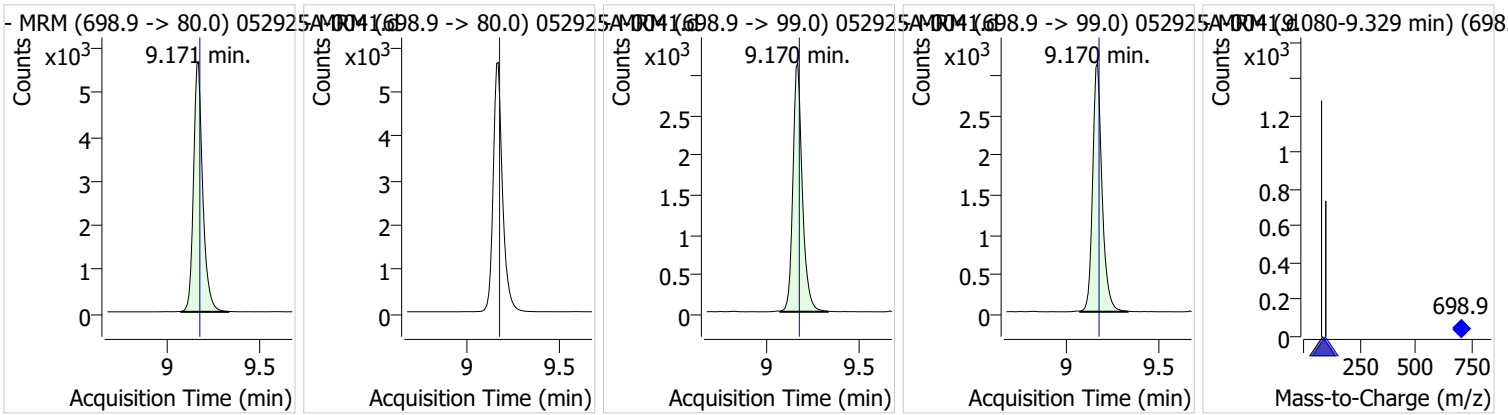
13C5-PFNA_ISTD



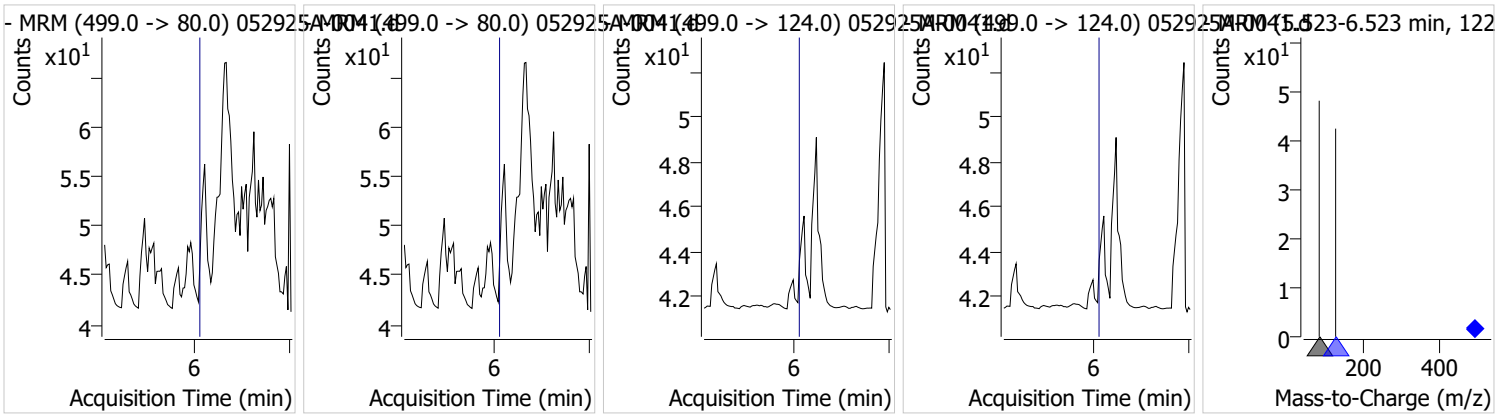
18O2-PFHxS_ISTD



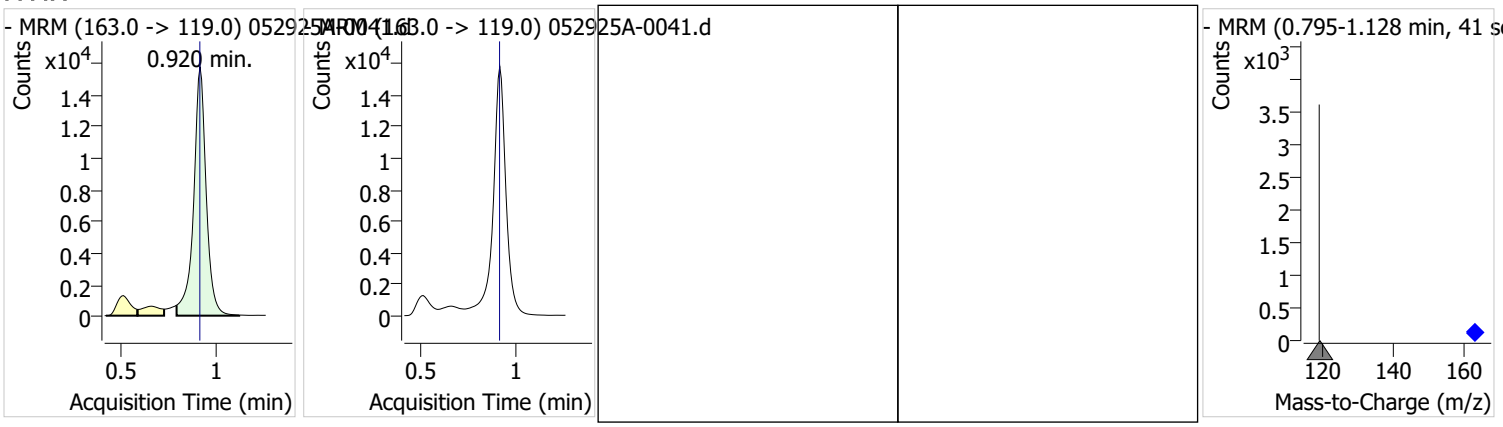
PFDoS



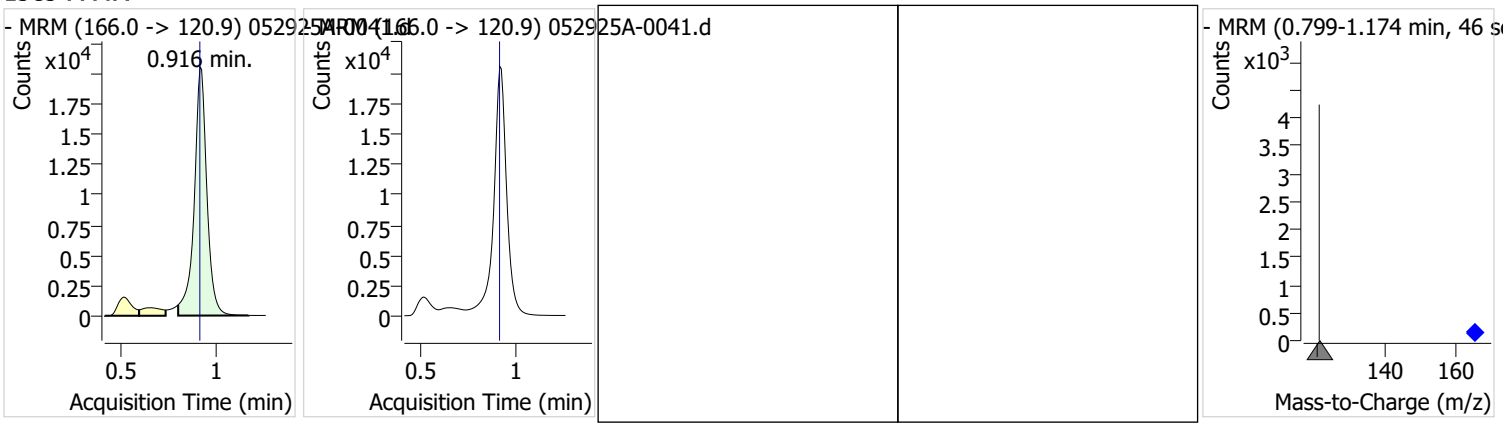
TDCA



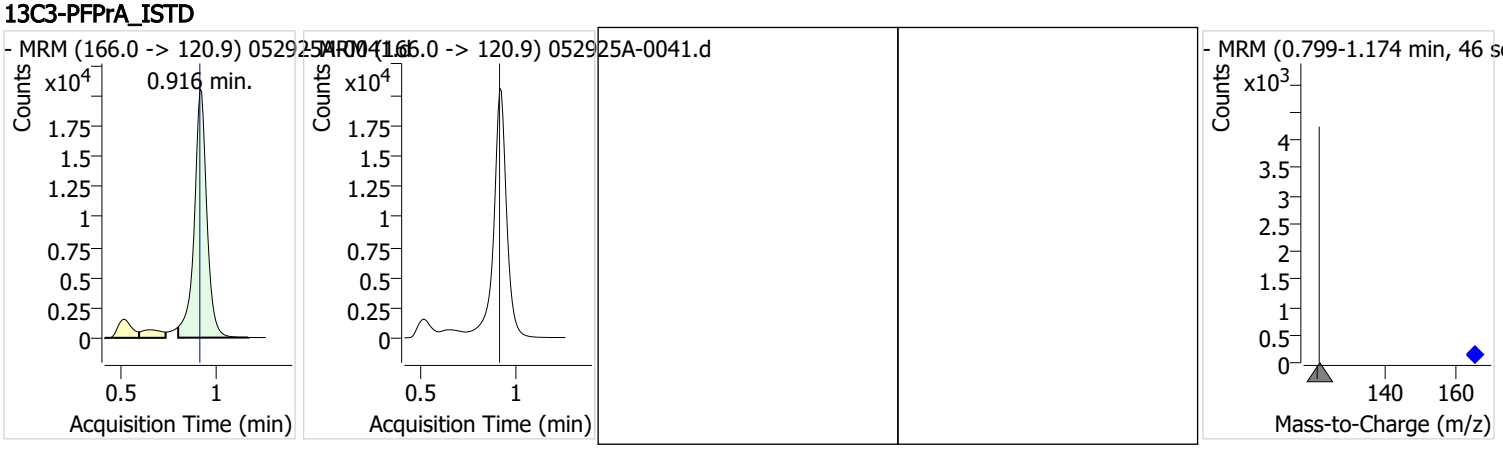
PFPrA



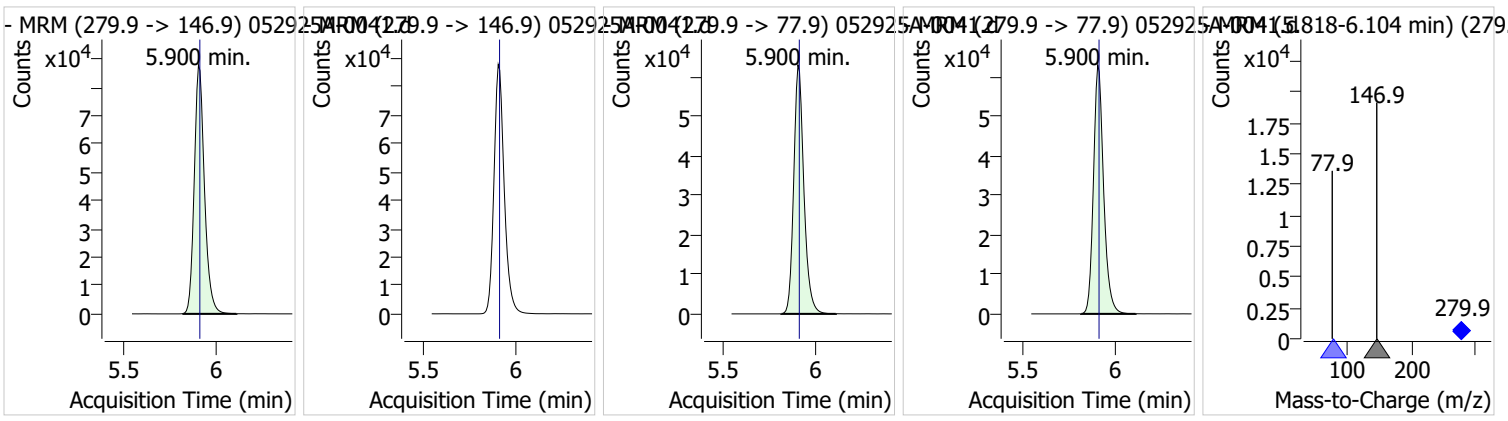
13C3-PFPrA



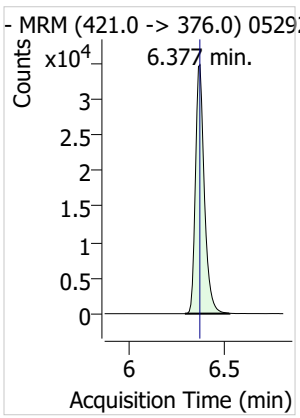
13C3-PFPrA_ISTD

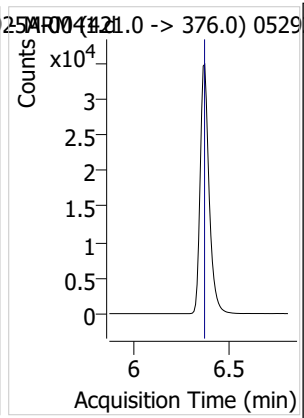


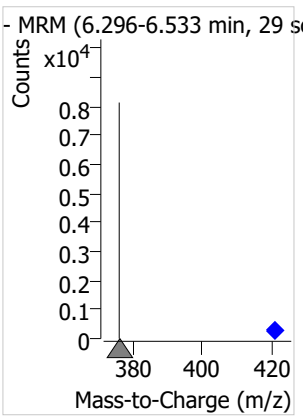
TFSI



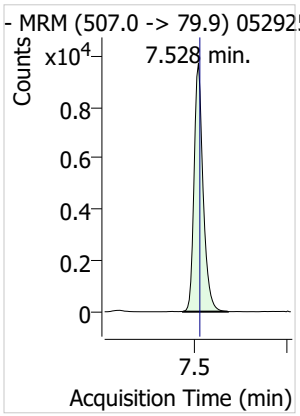
13C8-PFOA

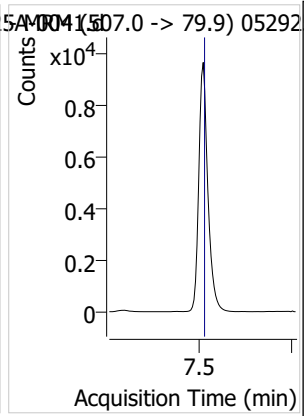


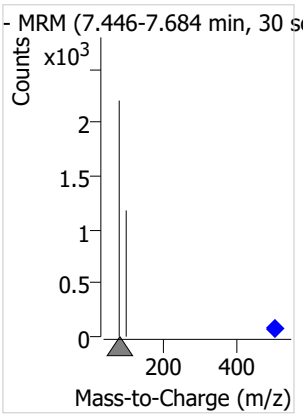




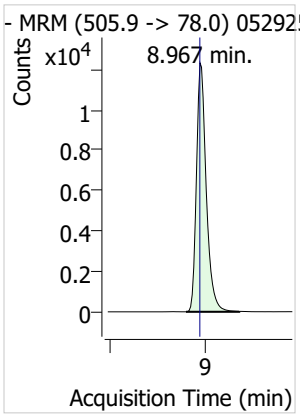
13C8-PFOS

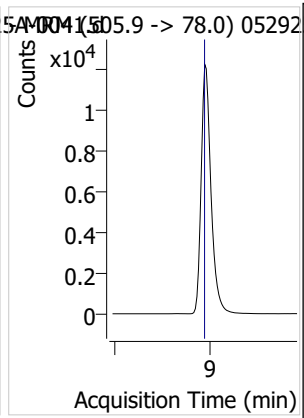


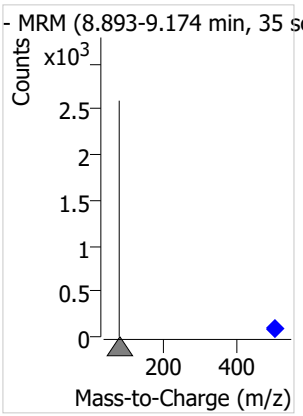




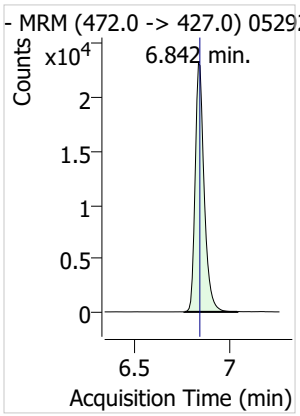
13C8-PFOSA

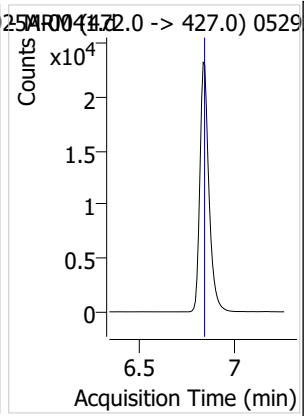


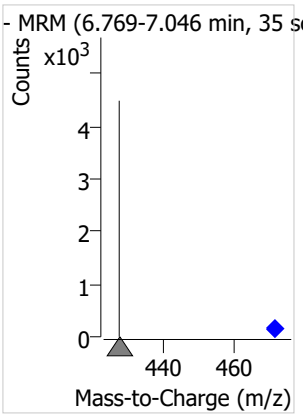




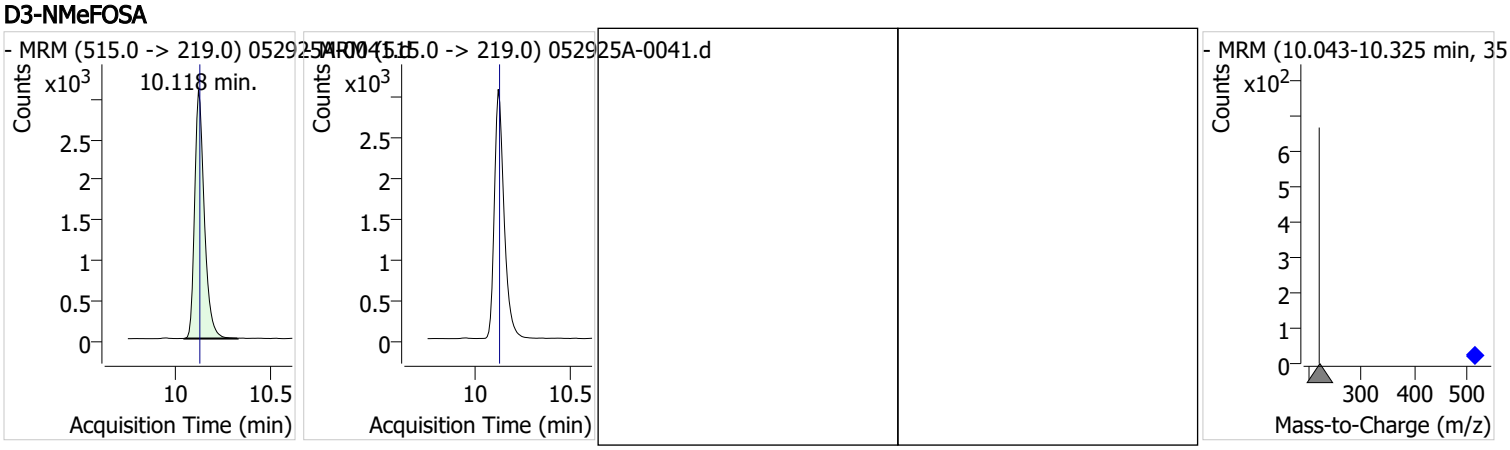
13C9-PFNA



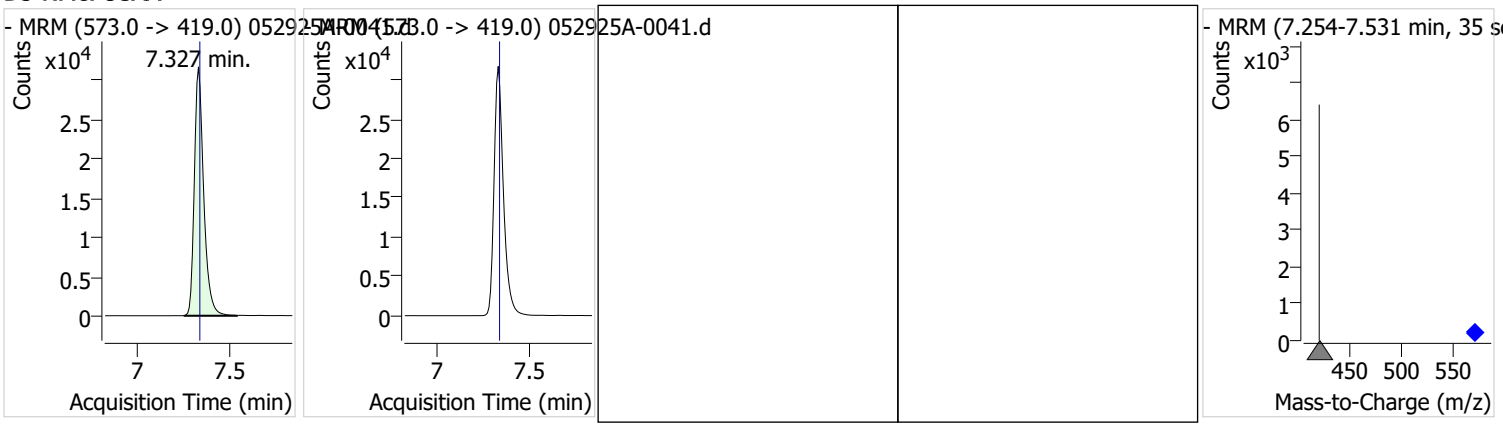




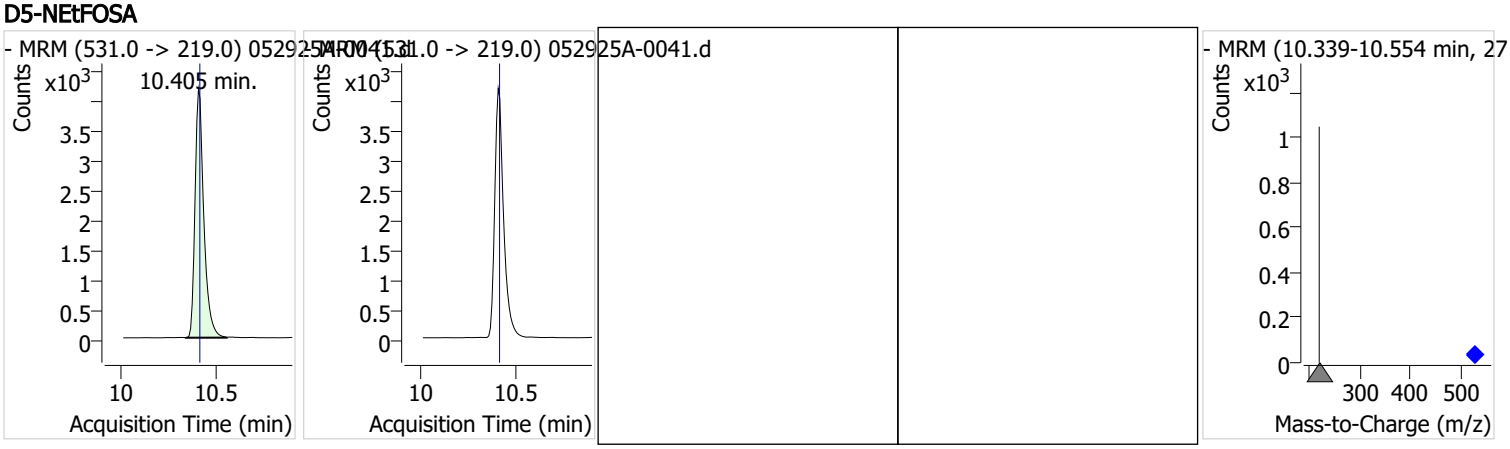
D3-NMeFOSA



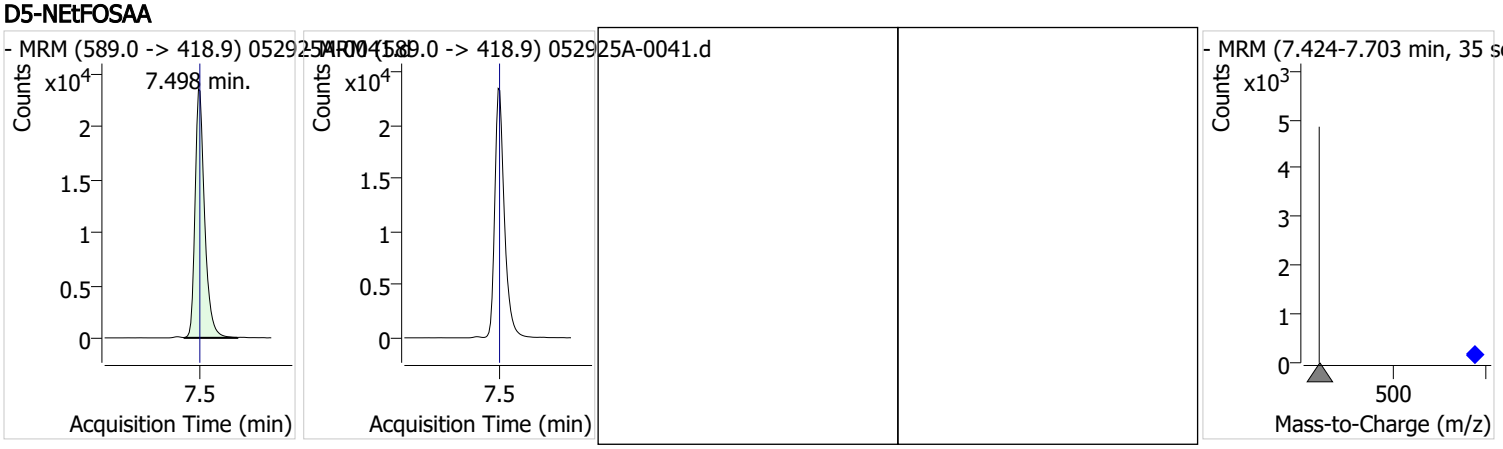
D3-NMeFOSAA



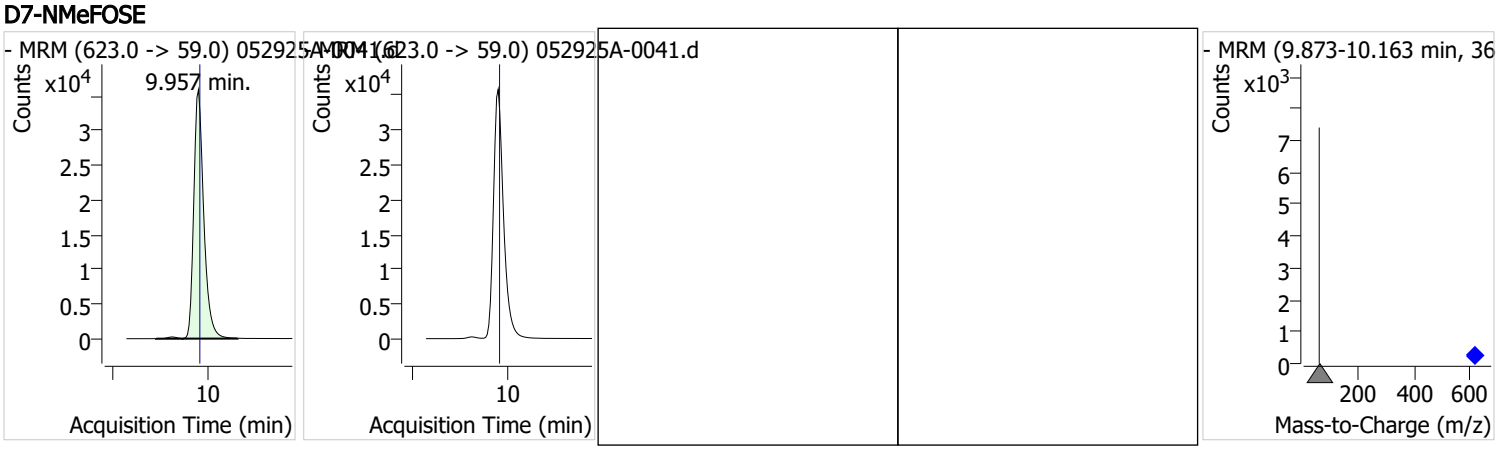
D5-NEtFOSA



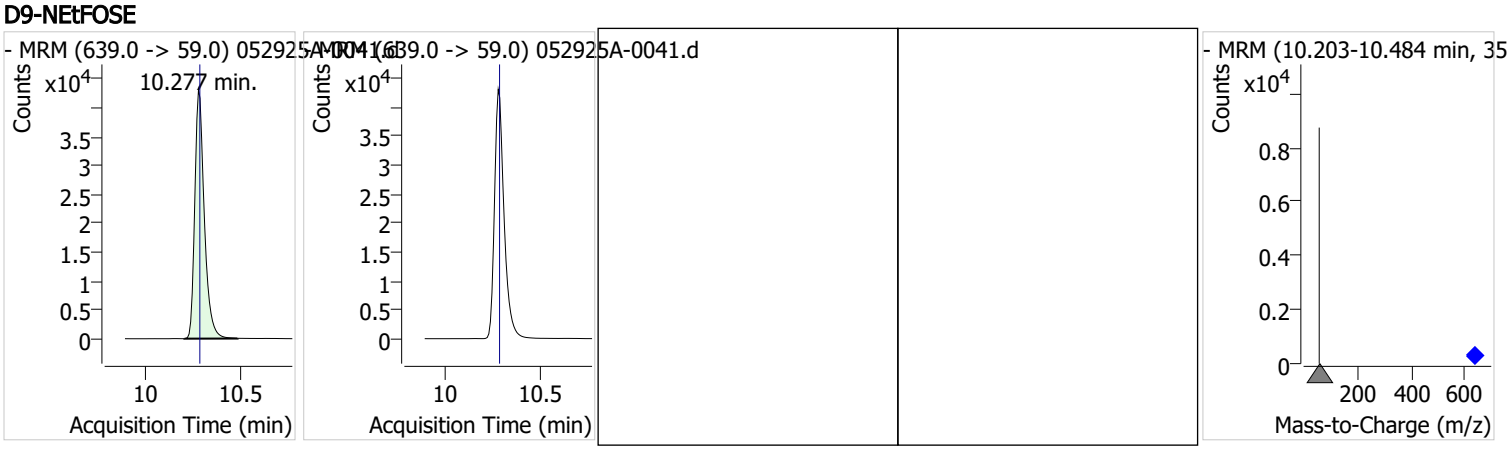
D5-NEtFOSAA



D7-NMeFOSE

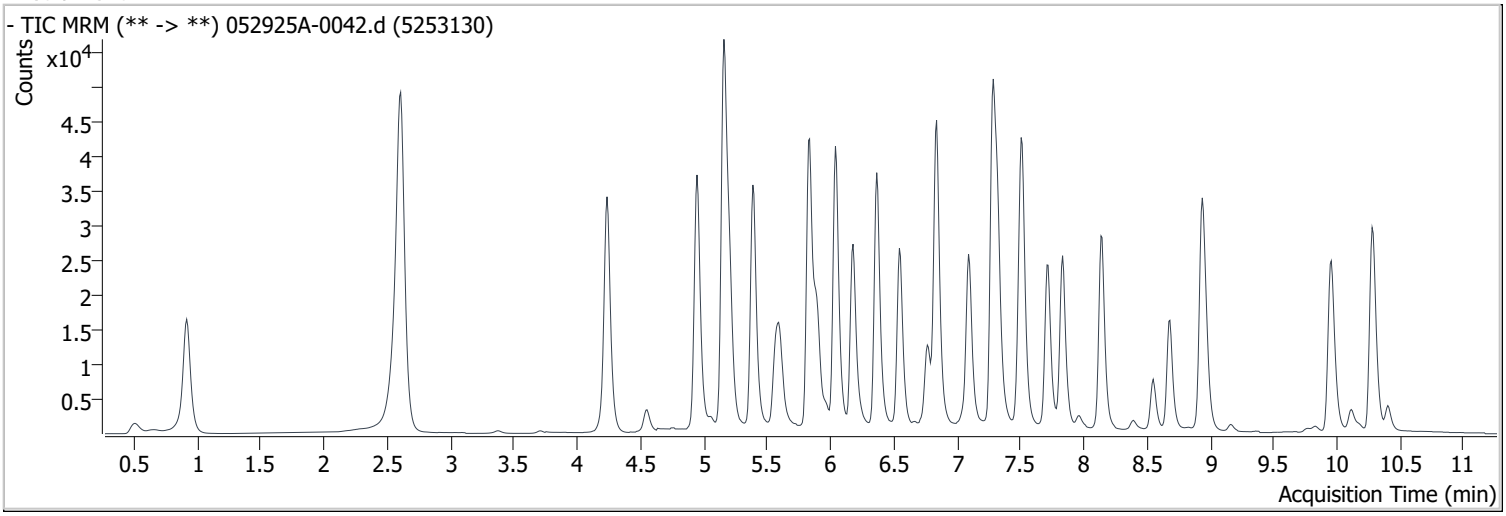


D9-NEtFOSE



Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 7:49 PM	**Data File**	052925A-0042.d
Sample Type	QC	**Sample Name**	5253130
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	9162	35298.93		13C3-HFPODA_ISTD	5.394	64958	1.4368	ng/ml			
285.0 -> 184.9	5.394	5178	229.42	56.5								
4:2FTS	4.947	22475	8044.86		13C2-4:2FTS_ISTD	4.946	27042	1.2627	ng/ml			
327.0 -> 80.9	4.947	8127	2263.44	36.2								
6:2FTS	6.180	12638	5209.80		13C2-6:2FTS_ISTD	6.180	19387	1.2103	ng/ml			
427.0 -> 80.9	6.181	5884	3779.42	46.6								
ADONA	6.044	94515	28866.25		13C4-PFHpA_ISTD	5.831	115434	1.2628	ng/ml			
377.0 -> 85.1	6.044	37291	2142.73	39.5								
8:2FTS	7.092	13002	23353.76		13C2-8:2FTS_ISTD	7.092	18221	1.3018	ng/ml			
527.0 -> 81.0	7.093	5555	1663.59	42.7								
13C4-PFBA	2.606	154848	5363.87		13C3-PFBA_ISTD	2.608	98108	6.4849	ng/ml			
9Cl-PF3ONS	7.838	62809	2544.06		13C8-PFOS_ISTD	7.519	21620	1.2848	ng/ml			
533.0 -> 353.0	7.838	18119	1033.28	28.8								
11Cl-PF3OUdS	8.685	42805	12533.79		13C8-PFOS_ISTD	7.519	21620	1.2507	ng/ml			
633.0 -> 453.0	8.684	10699	2754.64	25.0								
PFHpS	7.055	3430	15910.58		13C8-PFOS_ISTD	7.519	21620	0.2859	ng/ml			
449.0 -> 98.8	7.055	1838	2050.46	53.6								
13C2-4:2FTS	4.946	27042	40258.80		18O2-PFHxS_ISTD	6.550	36845	4.2622	ng/ml			
13C2-6:2FTS	6.180	19387	5913.46		18O2-PFHxS_ISTD	6.550	36845	4.0557	ng/ml			
13C2-8:2FTS	7.092	18221	68189.60		18O2-PFHxS_ISTD	6.550	36845	3.7974	ng/ml			
13C2-PFDoA	8.138	70934	5442.10		13C2-PFDA_ISTD	7.281	77861	0.7292	ng/ml			
13C2-PFDA	7.281	77861	5757.62					1.6015	ng/ml			
13C2-PFHxA	5.162	97114	29057.39					3.1508	ng/ml			
13C2-PFTeDA	8.936	76676	5311.08		13C2-PFDA_ISTD	7.281	77861	0.7015	ng/ml			
13C4-PFOS	7.520	35477	10549.57					3.2184	ng/ml			
13C3-HFPODA	5.394	64958	60609.86		13C2-PFHxA_ISTD	5.162	97114	6.2604	ng/ml			
13C3-PFBS	5.205	39480	64461.75		18O2-PFHxS_ISTD	6.550	36845	1.5694	ng/ml			
13C3-PFHxS	6.551	28125	1179.80		18O2-PFHxS_ISTD	6.550	36845	1.6511	ng/ml			
NEtFOSAA	7.434	3561	511.65		D5-NEtFOSAA_ISTD	7.498	56788	0.3221	ng/ml			
584.0 -> 526.0	7.433	3202	382.86	89.9								

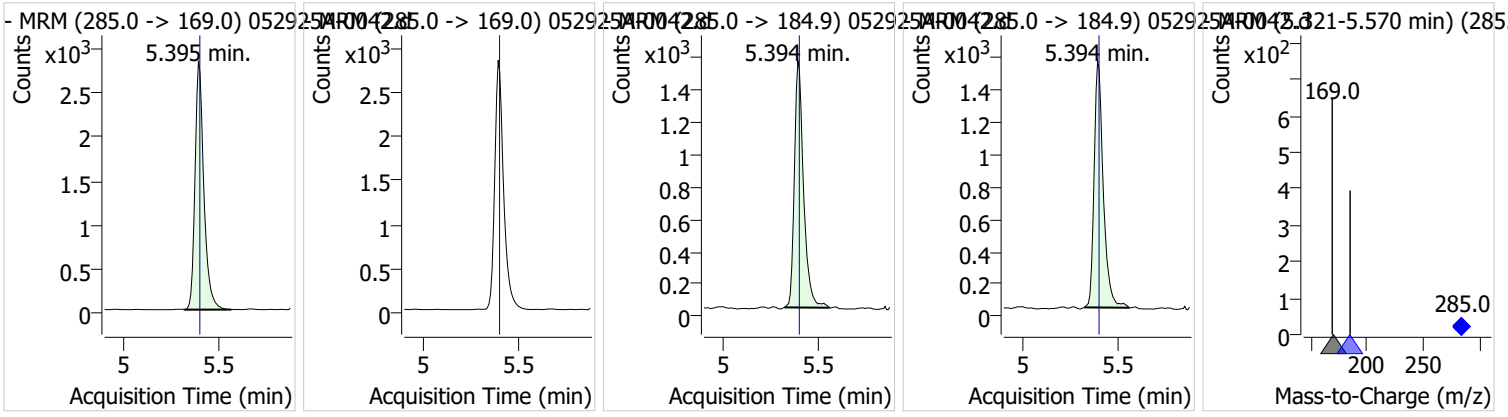
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	115434	4031.69		13C2-PFHxA_ISTD	5.162	97114	1.6738	ng/ml			
NMeFOSAA	7.247	1729	446.90		D3-NMeFOSAA_ISTD	7.319	75296	0.3089	ng/ml			
570.0 -> 483.0	7.246	2105	241.71	121.8								
PFBA	2.603	20015	468.49		13C4-PFBA_ISTD	2.606	154848	1.2971	ng/ml			
13C5-PFHxA	5.161	69480	10090.12		13C2-PFHxA_ISTD	5.162	97114	1.6117	ng/ml			
PFBS	5.205	5854	515.35		13C3-PFBS_ISTD	5.205	39480	0.2812	ng/ml			
298.9 -> 98.8	5.205	2229	365.44	38.1								
NMeFOSA	10.073	1096	427.40		D3-NMeFOSA_ISTD	10.118	7143	0.3224	ng/ml			
512.0 -> 169.0	10.074	1561	297.90	142.5								
PFDA	7.290	16404	354.29		13C6-PFDA_ISTD	7.281	54934	0.3649	ng/ml			
513.0 -> 219.0	7.282	2556	8677.75	15.6								
PFDoA	8.138	21370	1036.25		13C2-PFDoA_ISTD	8.138	70934	0.3345	ng/ml			
613.0 -> 319.0	8.139	2422	1124.02	11.3								
NEtFOSA	10.377	1502	429.29		D5-NEtFOSA_ISTD	10.405	9041	0.3396	ng/ml			
526.0 -> 169.0	10.377	1981	453.15	131.9								
PFHpA	5.839	16868	174.80		13C4-PFHpA_ISTD	5.831	115434	0.3257	ng/ml			
362.9 -> 169.0	5.839	3124	958.07	18.5								
PFHxA	5.163	10103	206.24		13C5-PFHxA_ISTD	5.161	69480	0.3117	ng/ml			
313.0 -> 118.9	5.163	366	45.04	3.6								
NMeFOSE	9.899	13424	1547.33		D7-NMeFOSE_ISTD	9.949	83873	3.2515	ng/ml			
PFHxS	6.498	4599	496.45		13C3-PFHxS_ISTD	6.551	28125	0.3236	ng/ml			
398.9 -> 99.0	6.498	1897	529.44	41.2								
PFNA	6.789	11421	286.01		13C9-PFNA_ISTD	6.842	51334	0.3179	ng/ml			
463.0 -> 219.0	6.789	3670	550.24	32.1								
NEtFOSE	10.249	16467	1117.41		D9-NEtFOSE_ISTD	10.277	96695	3.1431	ng/ml			
PFOA	6.300	12113	271.61		13C8-PFOA_ISTD	6.368	76997	0.3330	ng/ml			
413.0 -> 169.0	6.300	3586	488.62	29.6								
PFOS	7.399	4077	431.10		13C8-PFOS_ISTD	7.519	21620	0.3190	ng/ml			
499.0 -> 99.0	7.402	2088	306.69	51.2								
PFPeA	4.239	16366	562.05		13C5-PFPeA_ISTD	4.237	111479	0.6521	ng/ml			
PFMPA	3.377	1720	249.08		13C4-PFBA_ISTD	2.606	154848	0.6422	ng/ml			
13C5-PFPeA	4.237	111479	24966.66		13C2-PFHxA_ISTD	5.162	97114	3.2412	ng/ml			
PFMBA	4.547	11625	14100.55		13C5-PFPeA_ISTD	4.237	111479	0.6278	ng/ml			
PFTrDA	8.550	22309	815.39		13C2-PFDoA_ISTD	8.138	70934	0.2990	ng/ml			
663.0 -> 168.9	8.551	2013	601.19	9.0								
PFEESA	5.570	32799	53535.05		13C5-PFHxA_ISTD	5.161	69480	0.5905	ng/ml			
315.0 -> 83.0	5.571	2312	686.67	7.1								
13C6-PFDA	7.281	54934	1692.21		13C2-PFDA_ISTD	7.281	77861	0.7493	ng/ml			
NFDHA	5.066	2615	6433.85		13C5-PFHxA_ISTD	5.161	69480	0.6958	ng/ml			
295.0 -> 85.0	5.067	988	290.02	37.8								
PFOSA	8.899	4318	1798.22		13C8-PFOSA_ISTD	8.967	29419	0.3337	ng/ml			
497.9 -> 478.0	8.902	173	2713.60	*4.0								
13C7-PFUnA	7.713	61484	10493.70		13C2-PFDA_ISTD	7.281	77861	0.7509	ng/ml			
13C4-PFOA	6.369	26339	79391.05					3.1854	ng/ml			
PFDS	8.398	2823	525.51		13C8-PFOS_ISTD	7.519	21620	0.3105	ng/ml			
599.0 -> 98.8	8.397	1338	6994.67	47.4								
PFNS	7.969	3351	328.87		13C8-PFOS_ISTD	7.519	21620	0.2998	ng/ml			
549.0 -> 98.8	7.968	1610	716.29	48.0								
PFPeS	5.971	5335	1562.72		13C3-PFHxS_ISTD	6.551	28125	0.3025	ng/ml			
349.0 -> 98.9	5.971	2131	341.70	39.9								
PFTeDA	8.937	23305	1177.91		13C2-PFTeDA_ISTD	8.936	76676	0.3293	ng/ml			

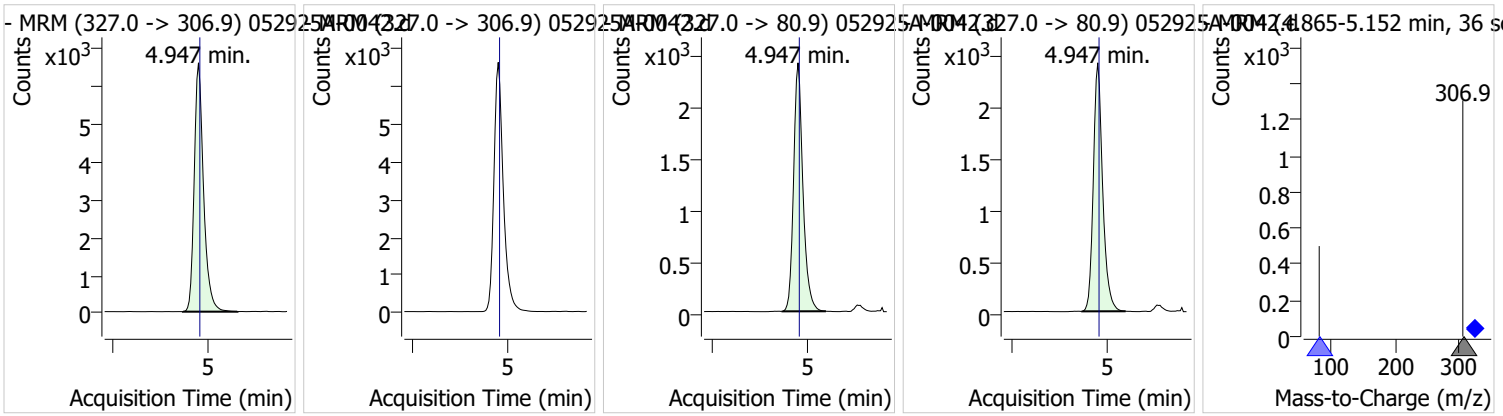
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.929	1293	383.44	5.5								
PFUnA	7.722	15220	516.38		13C7-PFUnA_ISTD	7.713	61484	0.2964	ng/ml			
563.0 -> 269.1	7.722	2566	2510.36	16.9								
13C3-PFBA	2.608	98108	1367.76					6.4603	ng/ml			
3:3FTCA	3.712	1007	446.70		13C5-PFPeA_ISTD	4.237	111479	1.5956	ng/ml			
241.0 -> 117.0	3.706	491	96.95	48.7								
5:3FTCA	5.601	18483	886.13		13C5-PFHxA_ISTD	5.161	69480	7.1276	ng/ml			
341.0 -> 217.0	5.602	17464	1676.19	94.5								
7:3FTCA	6.770	21053	1941.52		13C9-PFNA_ISTD	6.842	51334	7.6658	ng/ml			
441.0 -> 337.0	6.770	22811	1386.53	108.4								
13C5-PFNA	6.842	75562	8264.36					1.5978	ng/ml			
18O2-PFHxS	6.550	36845	3937.96					3.2437	ng/ml			
PFDoS	9.163	1998	579.32		13C8-PFOS_ISTD	7.519	21620	0.3269	ng/ml			
698.9 -> 99.0	9.162	1128	338.01	56.4								
TDCA					13C8-PFOS_ISTD	7.519	21620	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.920	7825	419.31		13C3-PFPrA_ISTD	0.916	68191	1.3059	ng/ml			
13C3-PFPrA	0.916	68191	4223.82		13C3-PFBA_ISTD	2.608	98108	6.4250	ng/ml			
TFSI	5.900	34203	1328.58		13C3-HFPODA_ISTD	5.394	64958	0.7179	ng/ml			
279.9 -> 77.9	5.900	23368	5905.60	68.3								
13C8-PFOA	6.368	76997	23988.22		13C4-PFOA_ISTD	6.369	26339	1.5603	ng/ml			
13C8-PFOS	7.519	21620	2035.82		13C4-PFOS_ISTD	7.520	35477	1.5582	ng/ml			
13C8-PFOSA	8.967	29419	8297.65		13C4-PFOS_ISTD	7.520	35477	1.4746	ng/ml			
13C9-PFNA	6.842	51334	178444.09		13C5-PFNA_ISTD	6.842	75562	0.7689	ng/ml			
D3-NMeFOSA	10.118	7143	2013.19		13C4-PFOS_ISTD	7.520	35477	1.1238	ng/ml			
D3-NMeFOSAA	7.319	75296	21817.03		13C4-PFOS_ISTD	7.520	35477	3.4123	ng/ml			
D5-NEtFOSA	10.405	9041	1604.05		13C4-PFOS_ISTD	7.520	35477	1.1833	ng/ml			
D5-NEtFOSAA	7.498	56788	16215.41		13C4-PFOS_ISTD	7.520	35477	3.3887	ng/ml			
D7-NMeFOSE	9.949	83873	22720.95		13C4-PFOS_ISTD	7.520	35477	13.7444	ng/ml			
D9-NEtFOSE	10.277	96695	5799.97		13C4-PFOS_ISTD	7.520	35477	14.2697	ng/ml			

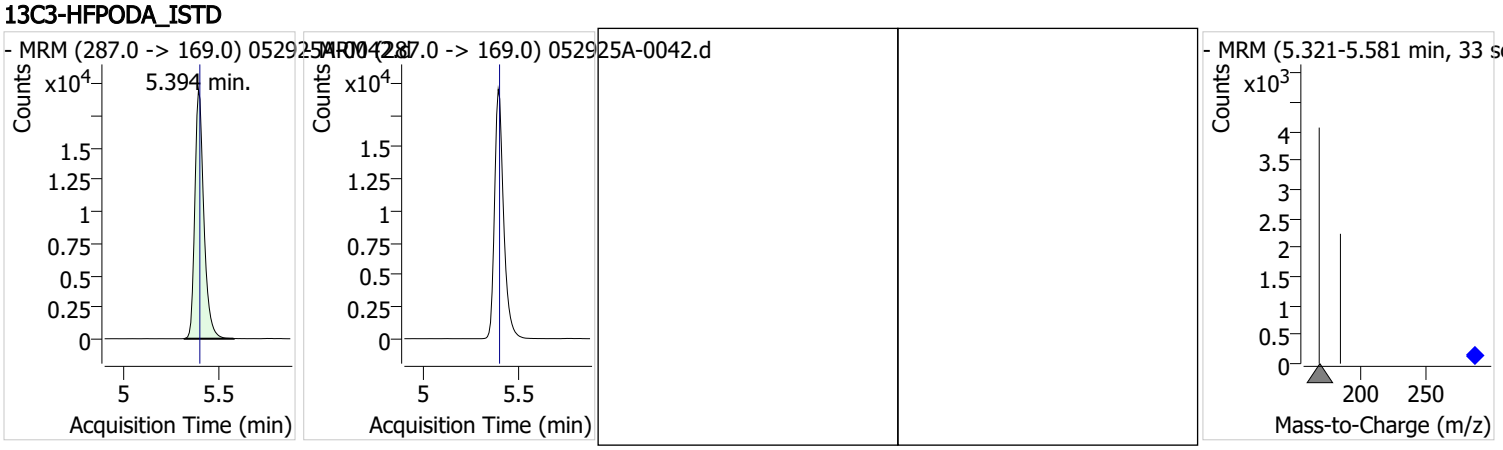
HFPO-DA



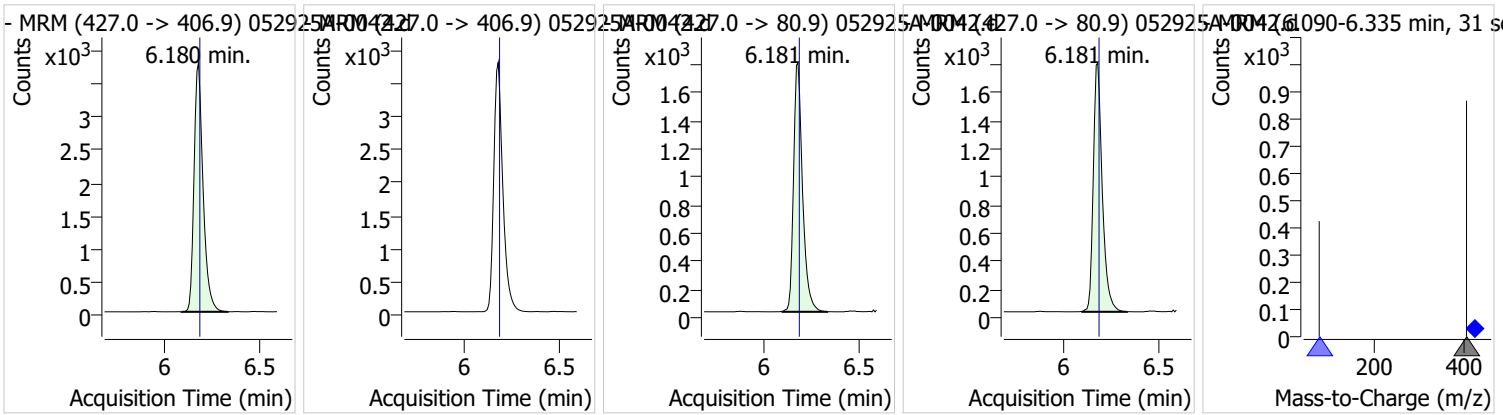
4:2FTS



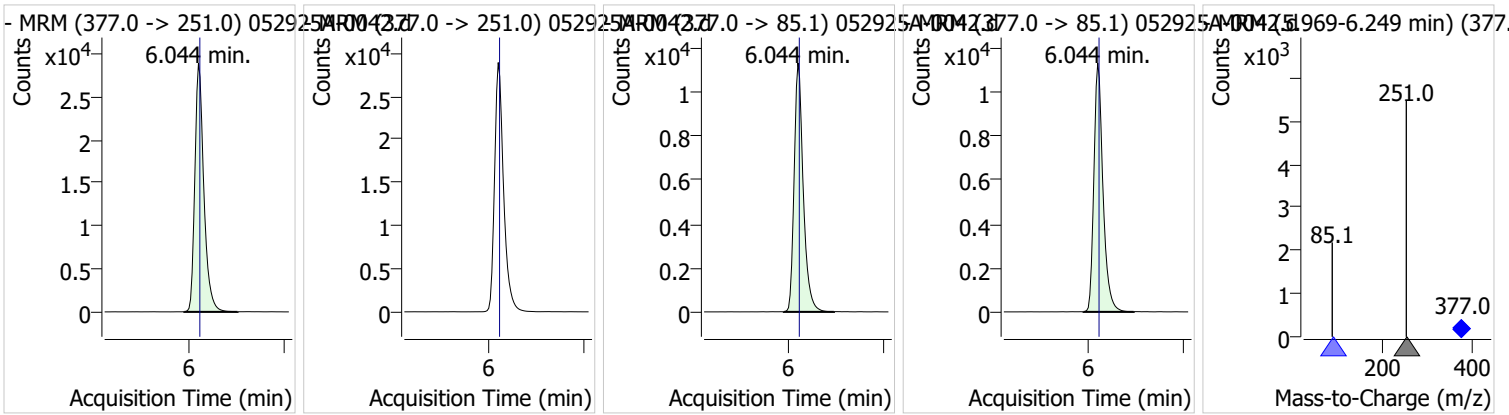
13C3-HFPODA_ISTD



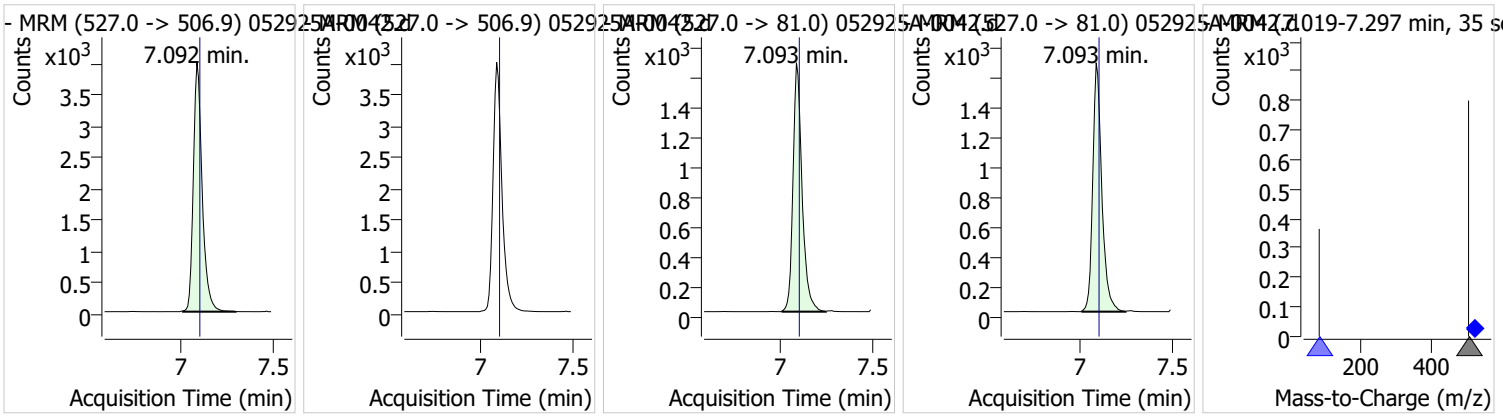
6:2FTS



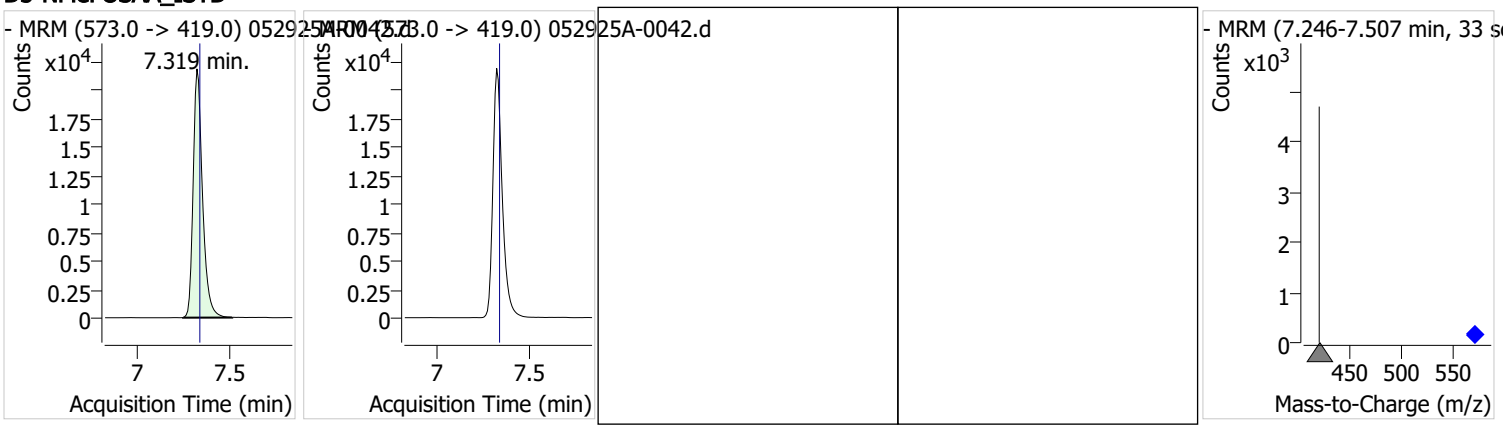
ADONA



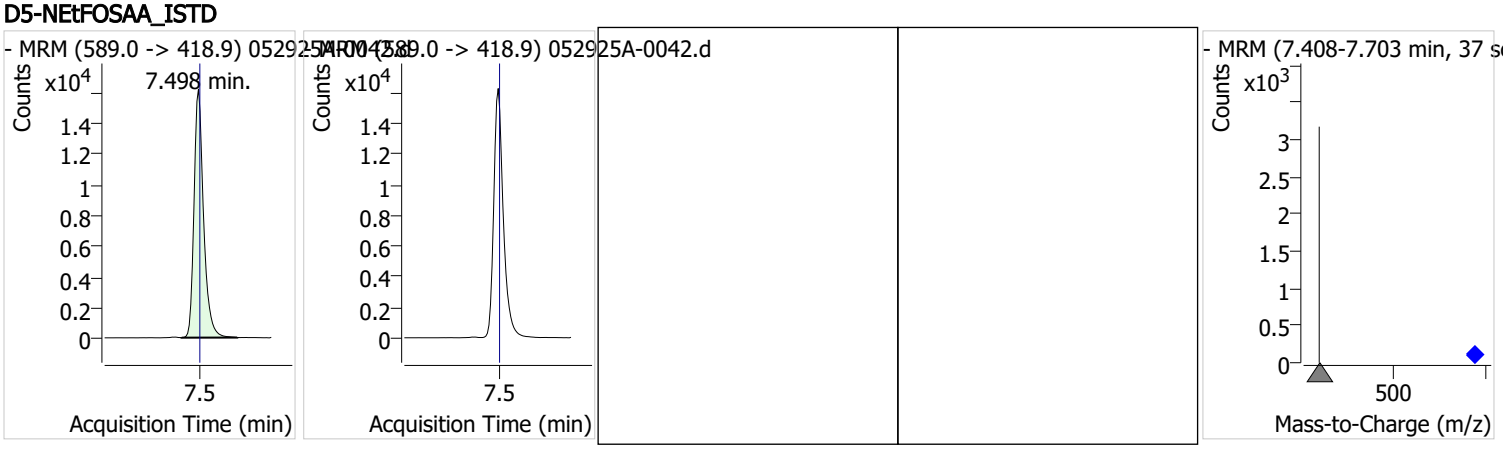
8:2FTS



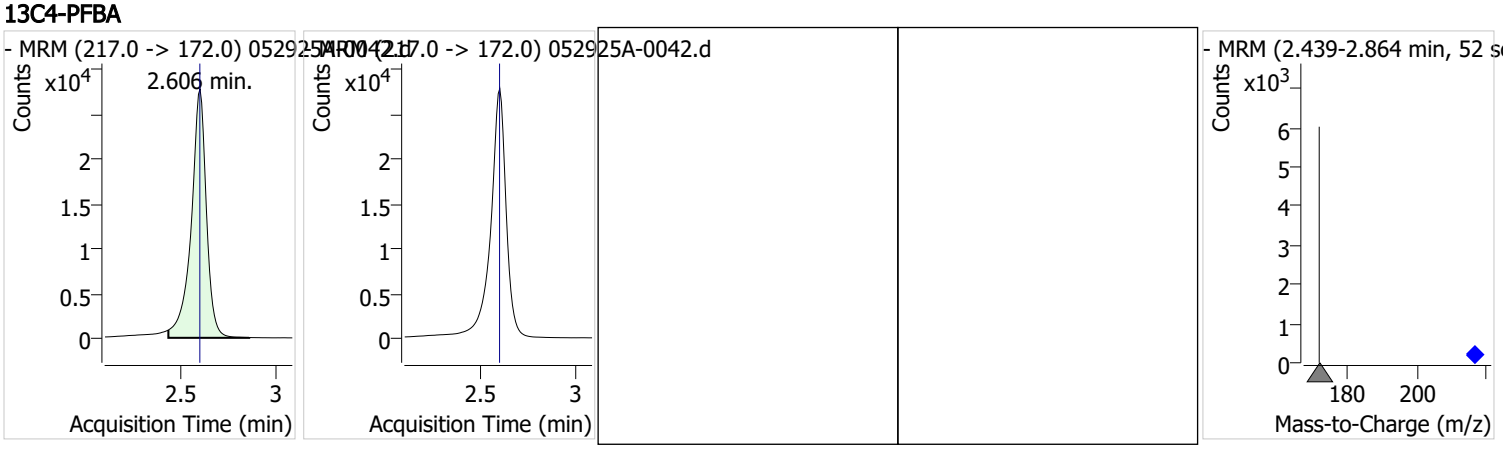
D3-NMeFOSAA_ISTD



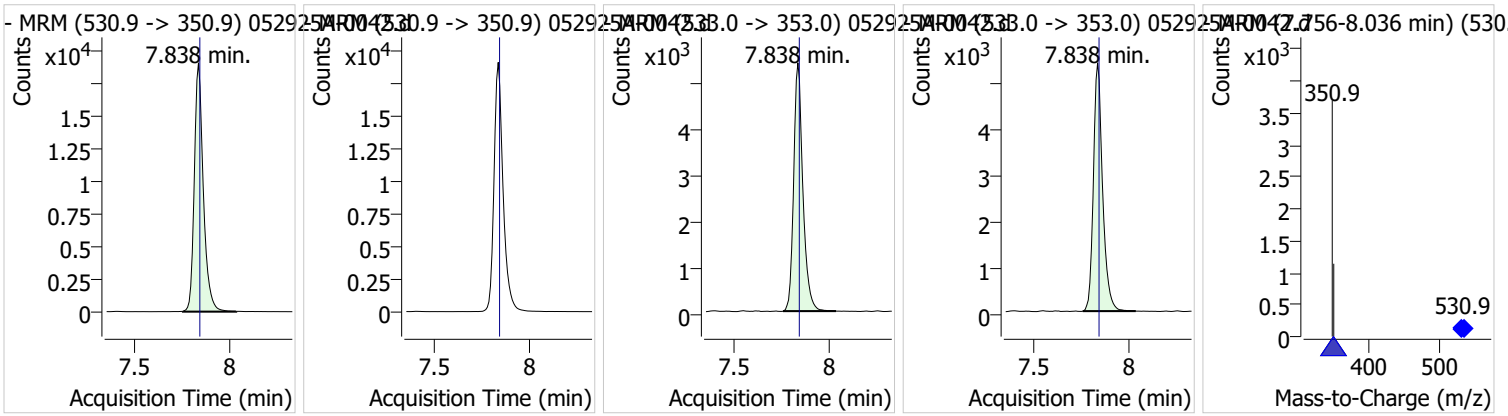
D5-NEtFOSAA_ISTD



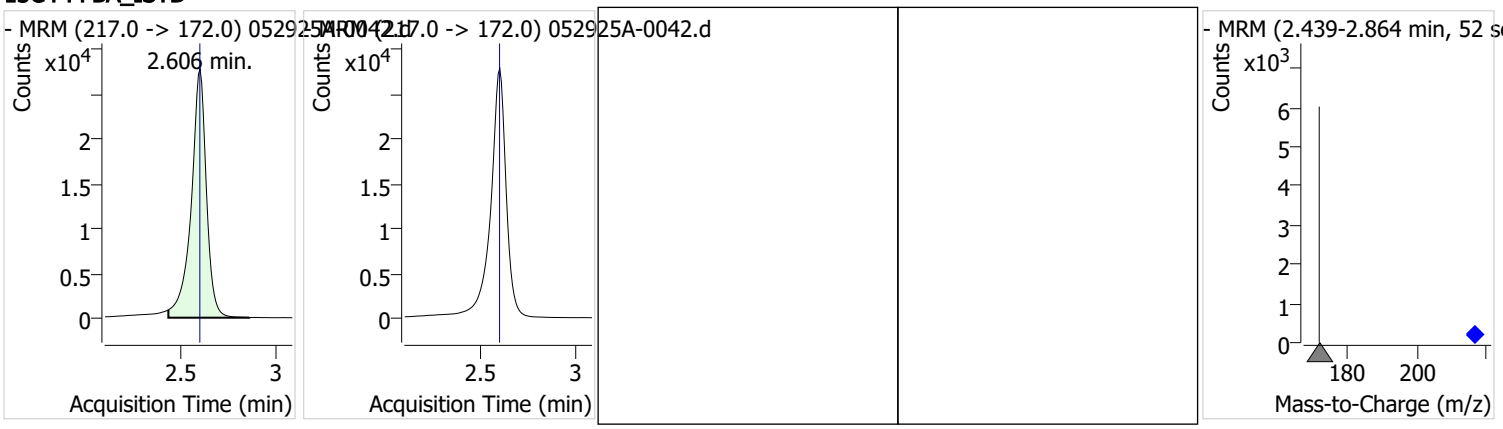
13C4-PFBA



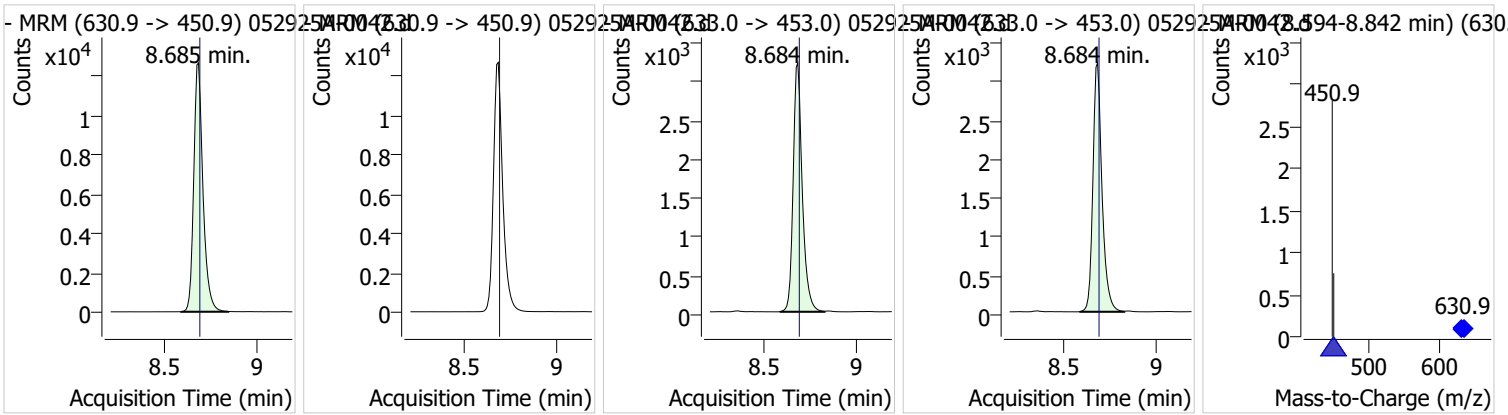
9Cl-PF3ONS



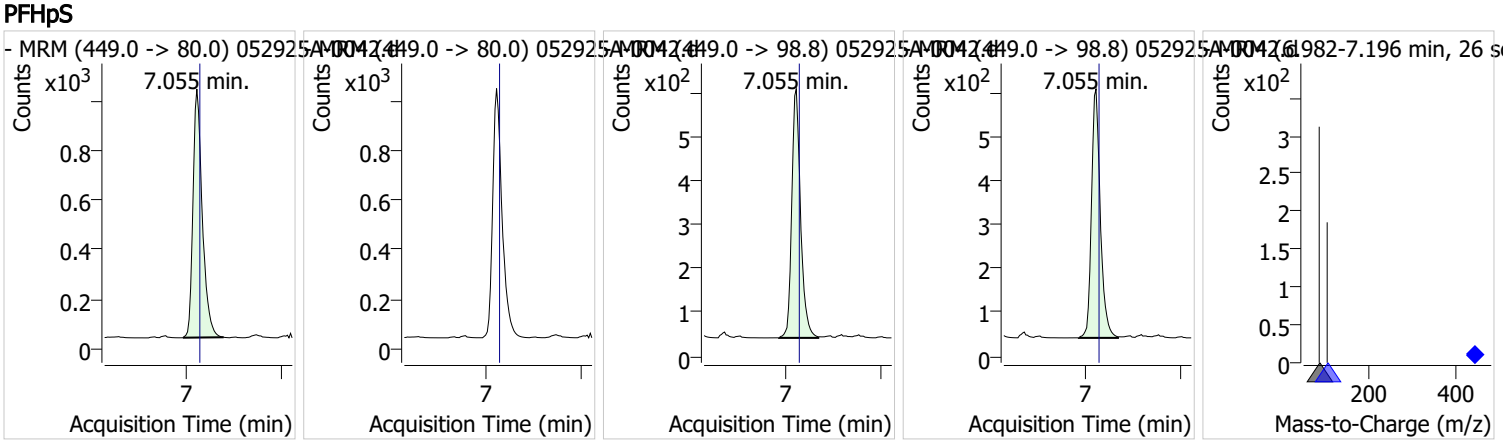
13C4-PFBA_ISTD



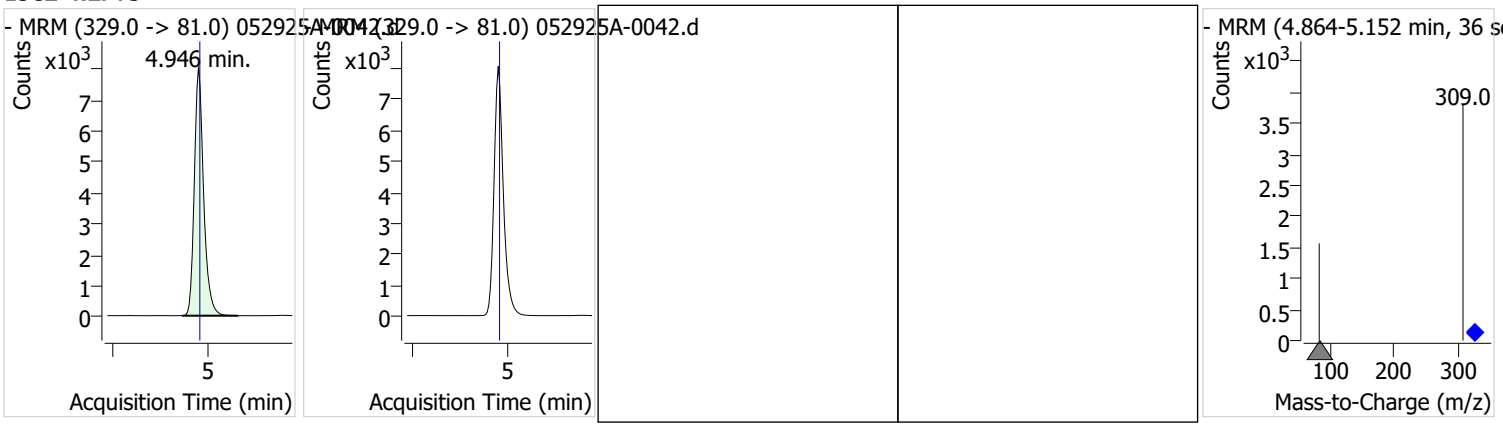
11Cl-PF3OUdS



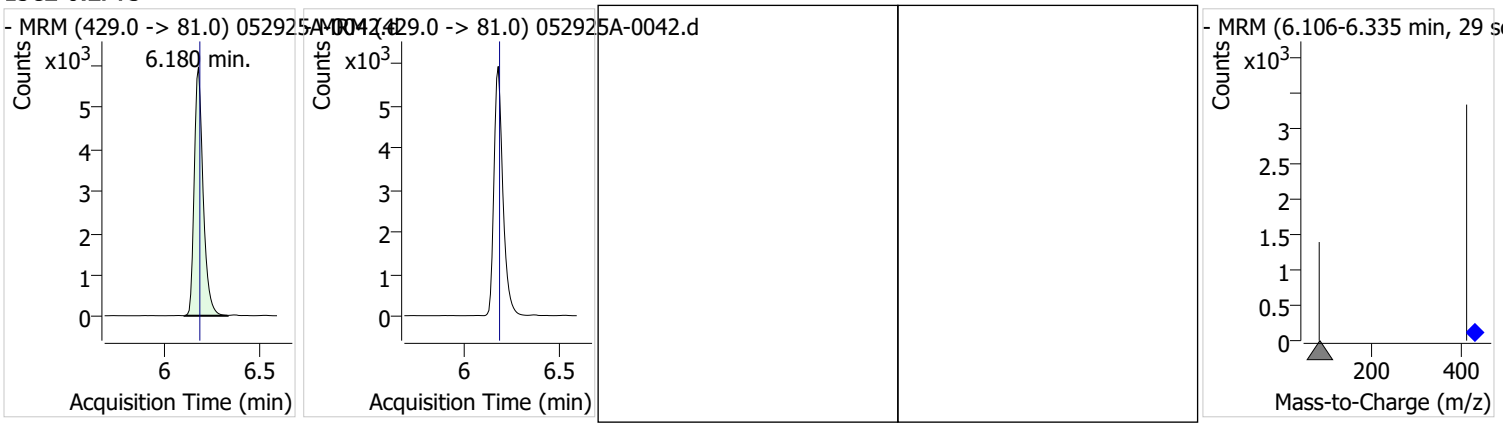
PFHpS



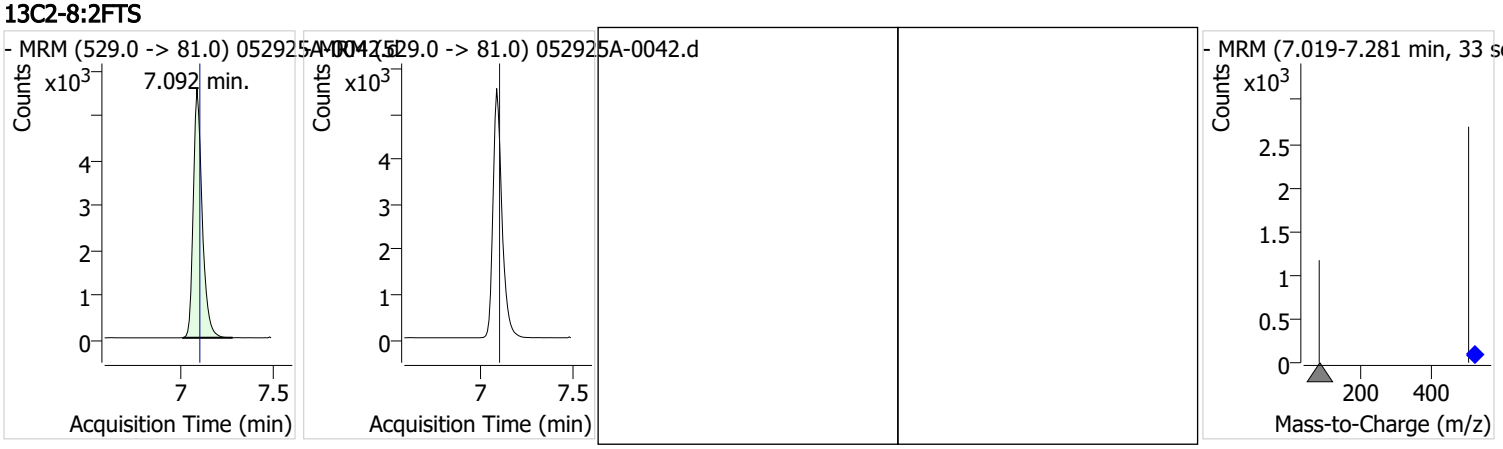
13C2-4:2FTS



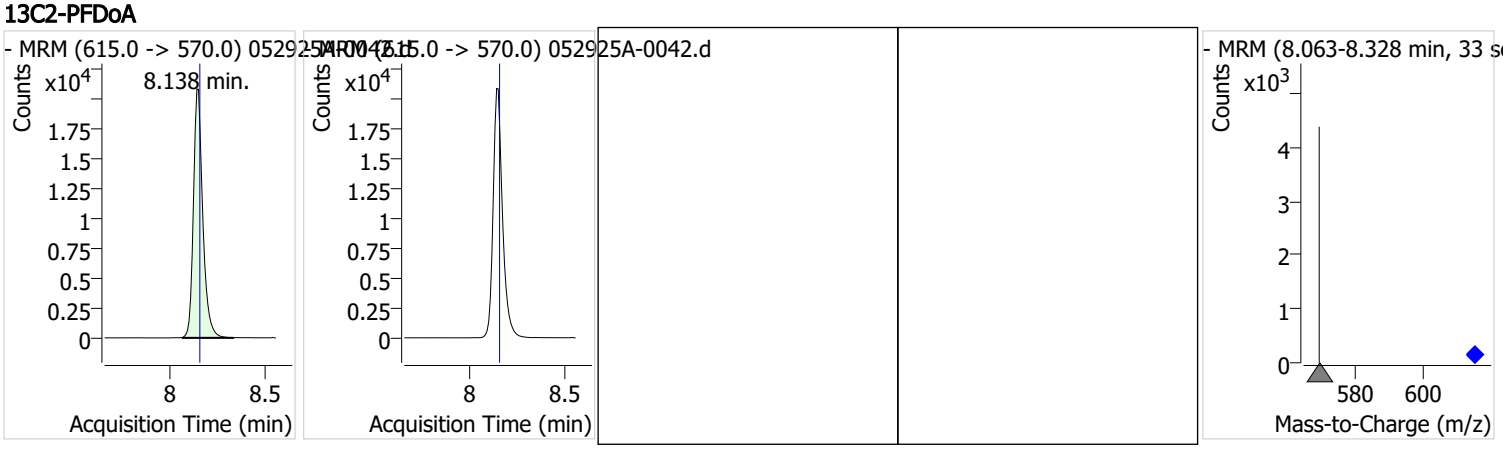
13C2-6:2FTS



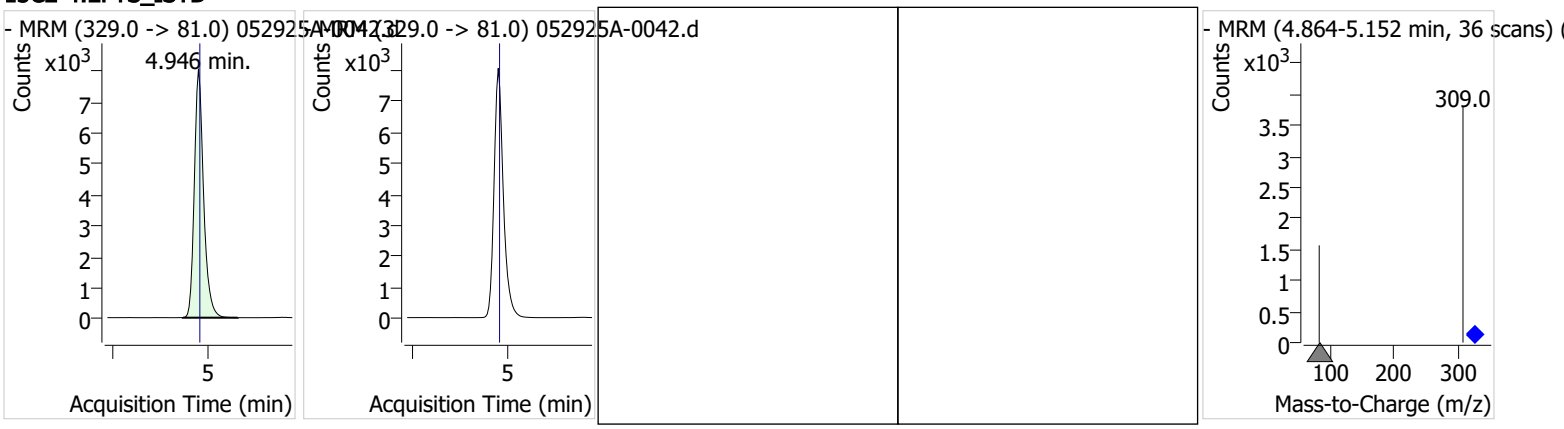
13C2-8:2FTS



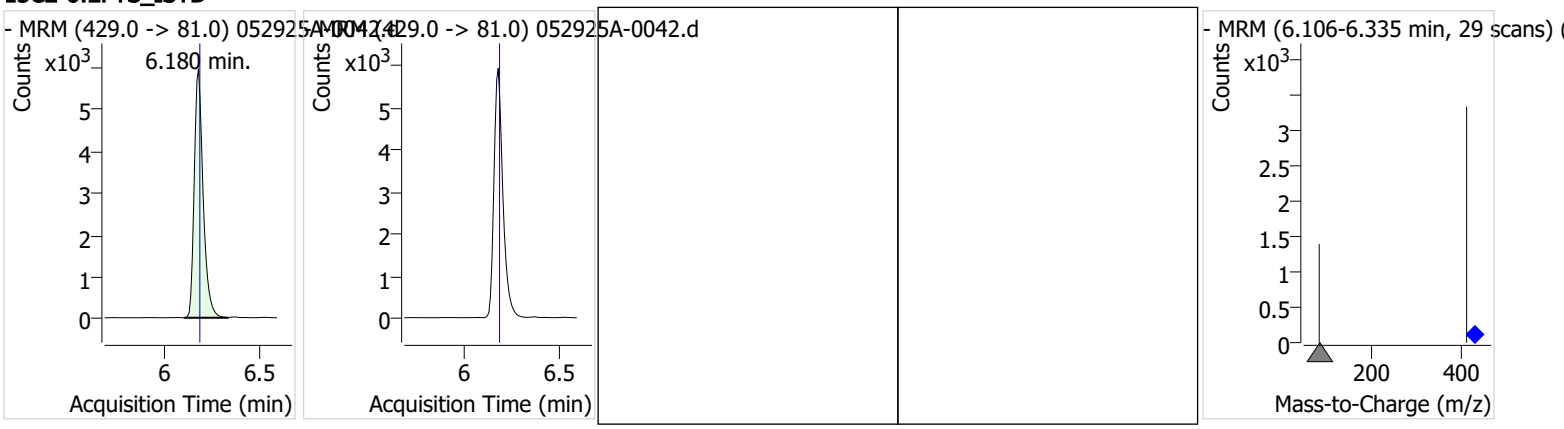
13C2-PFDoA



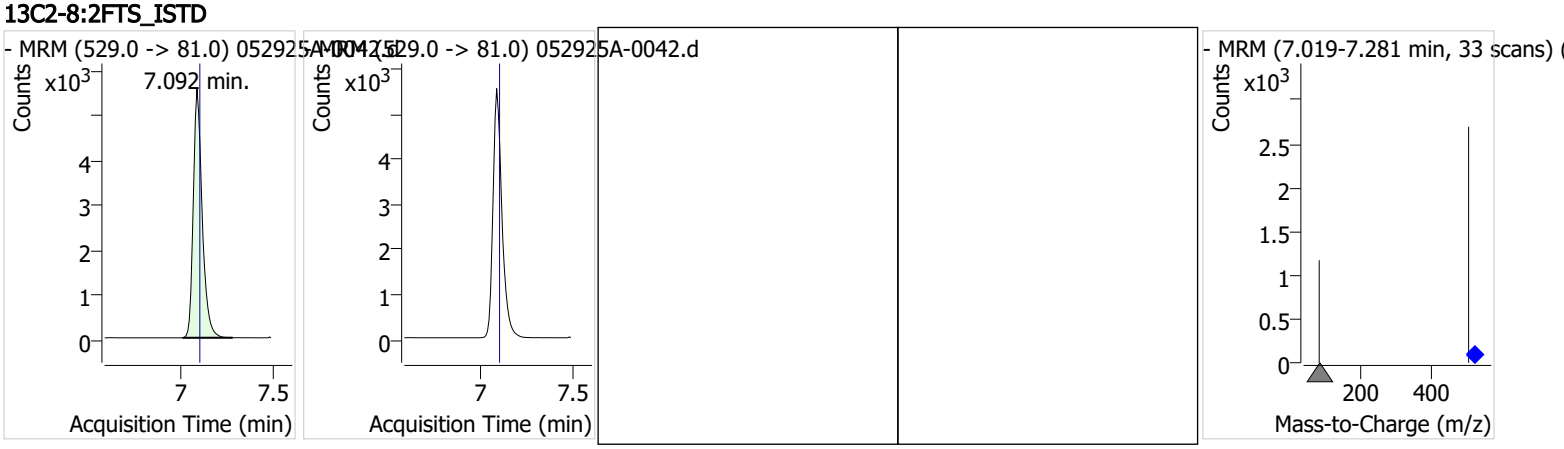
13C2-4:2FTS_ISTD



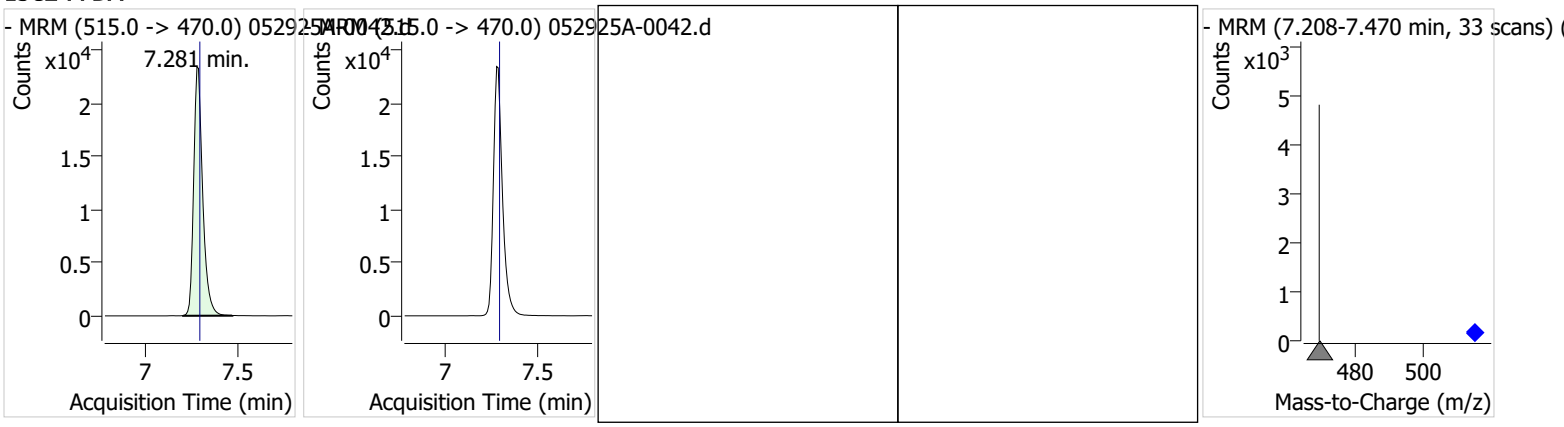
13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



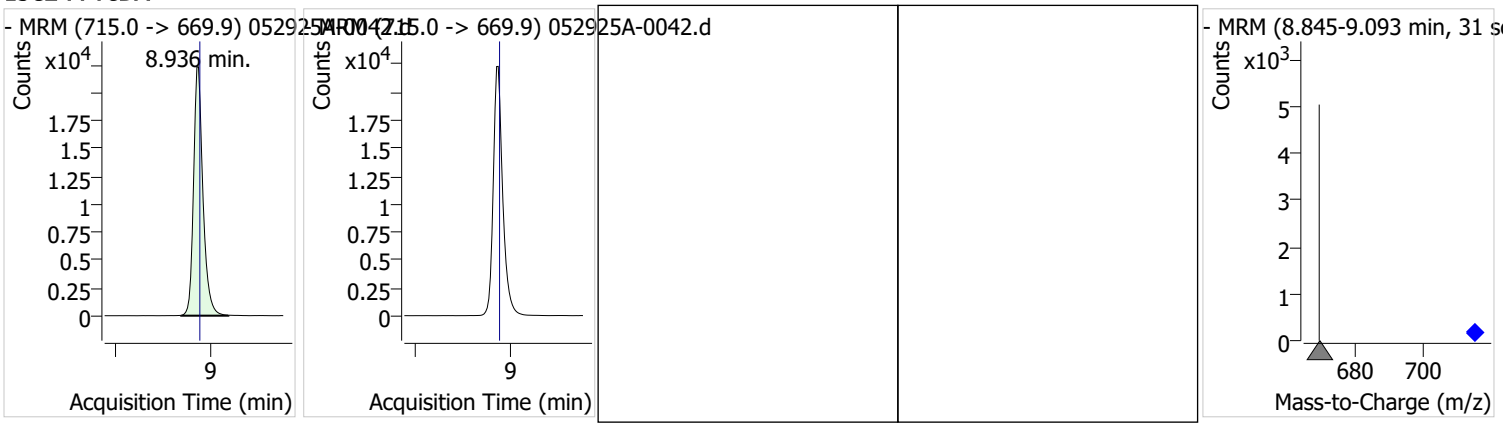
13C2-PFDA



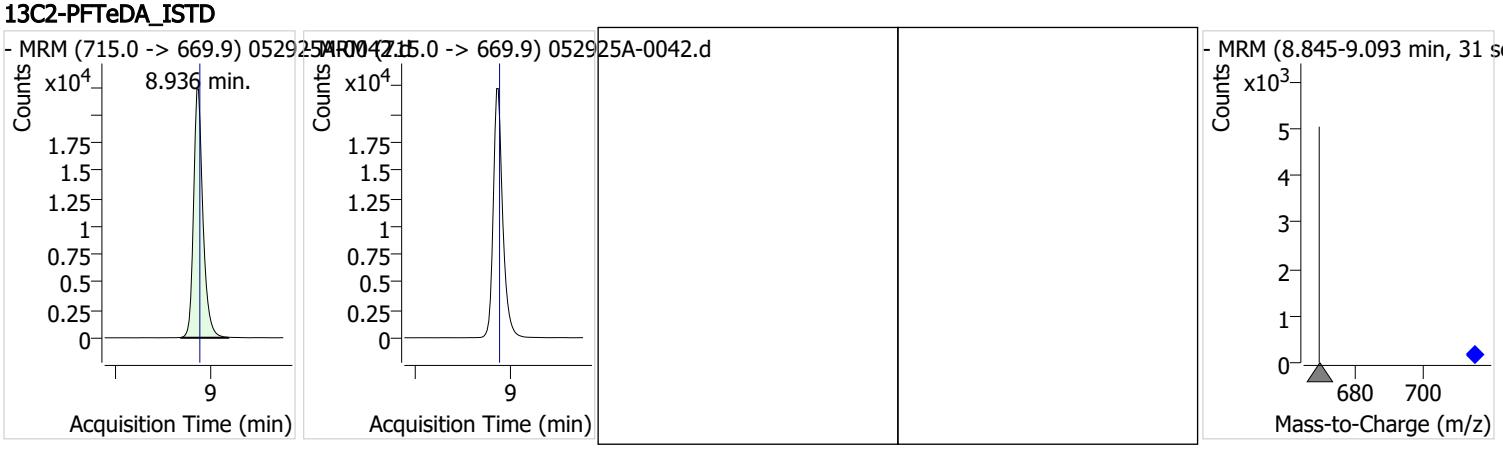
13C2-PFHxA



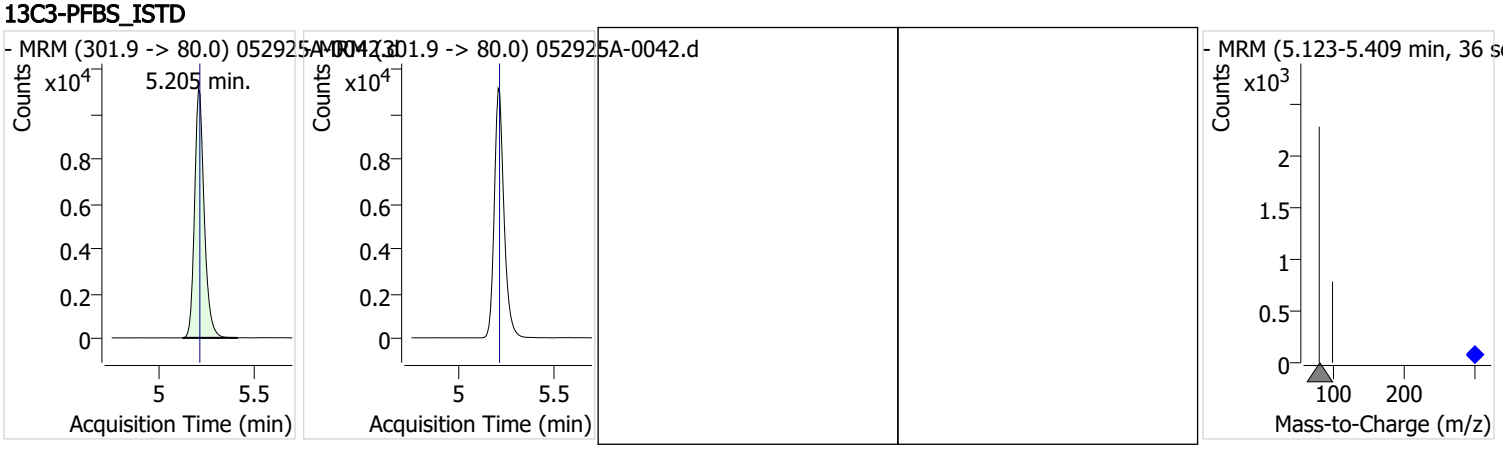
13C2-PFTeDA



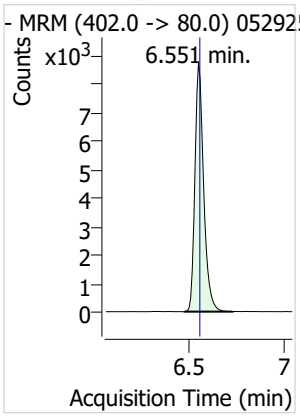
13C2-PFTeDA_ISTD

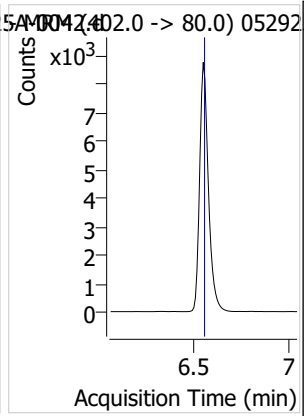


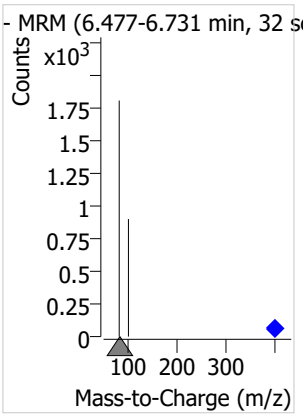
13C3-PFBS_ISTD



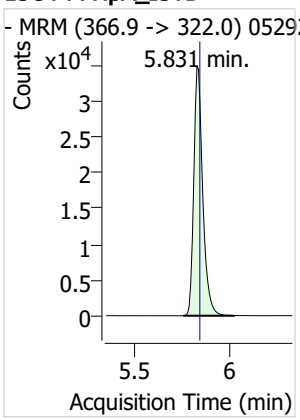
13C3-PFHxS_ISTD

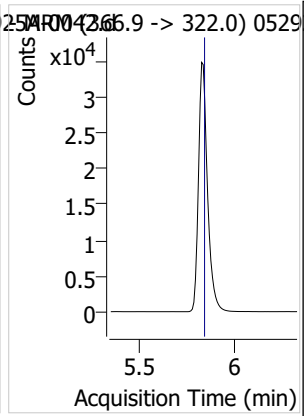


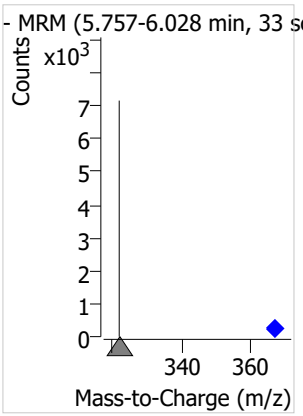




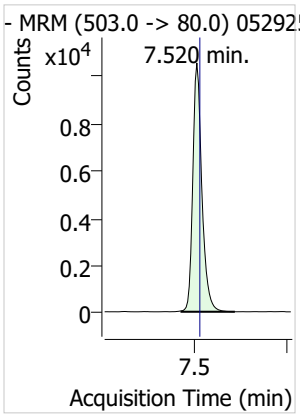
13C4-PFHpA_ISTD

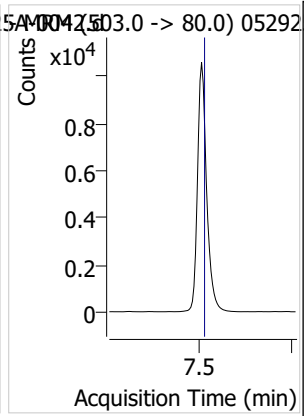


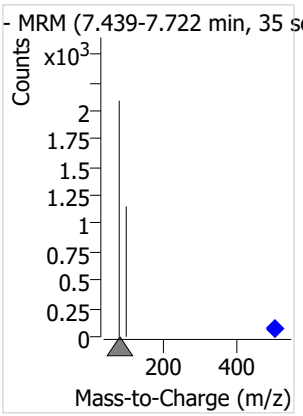




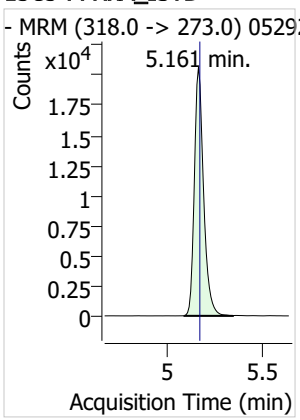
13C4-PFOS

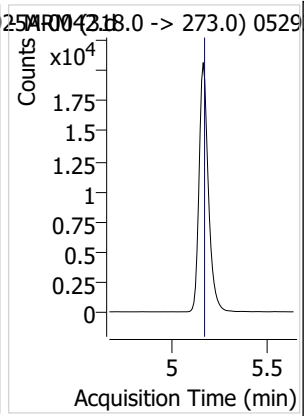


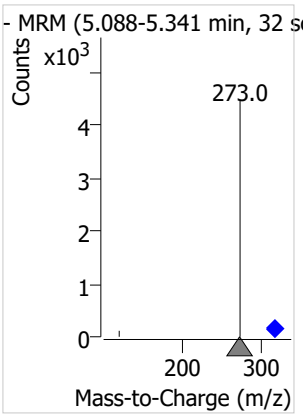




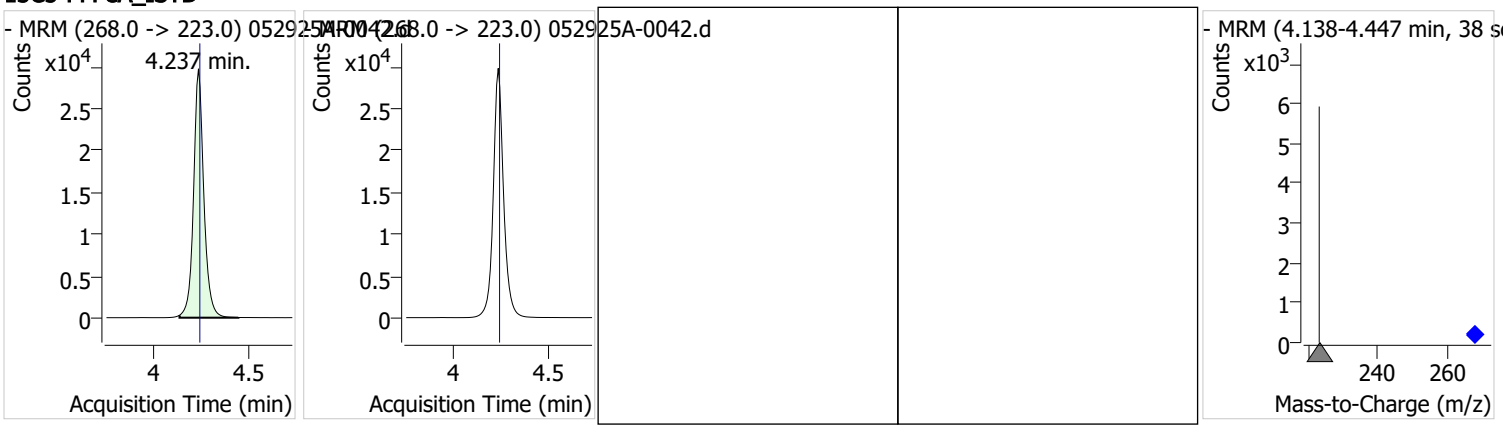
13C5-PFHxA_ISTD







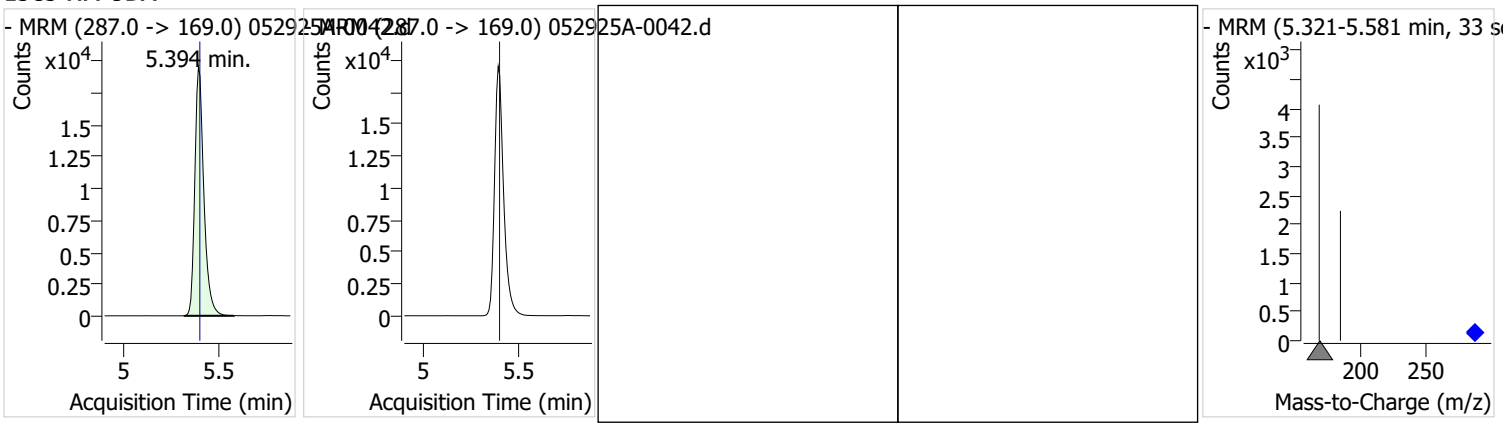
13C5-PFPeA_ISTD



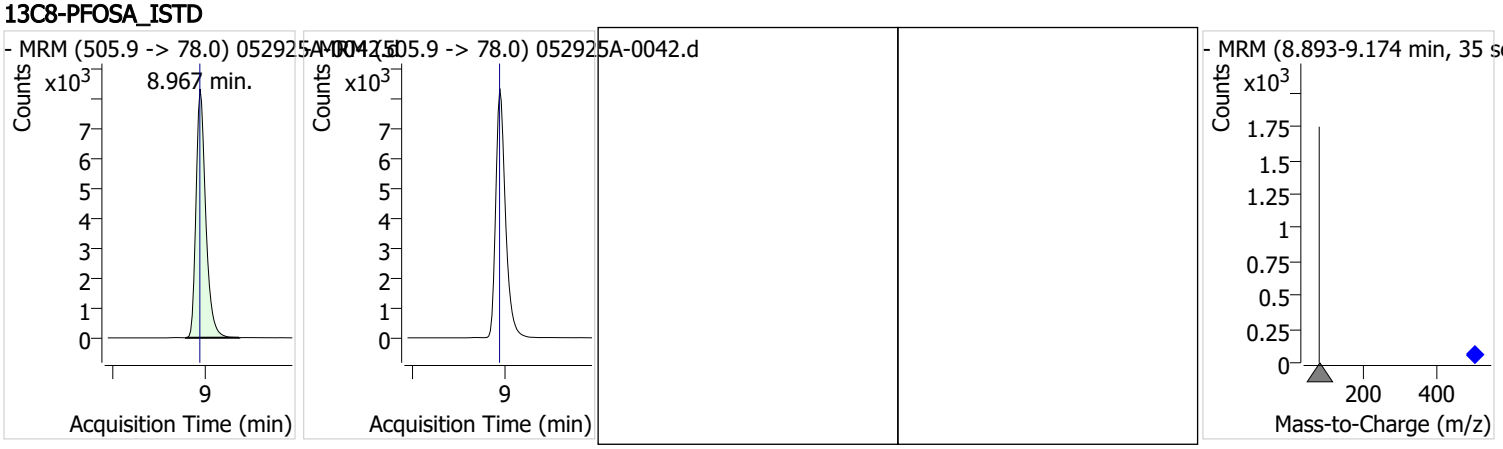
13C6-PFDA_ISTD



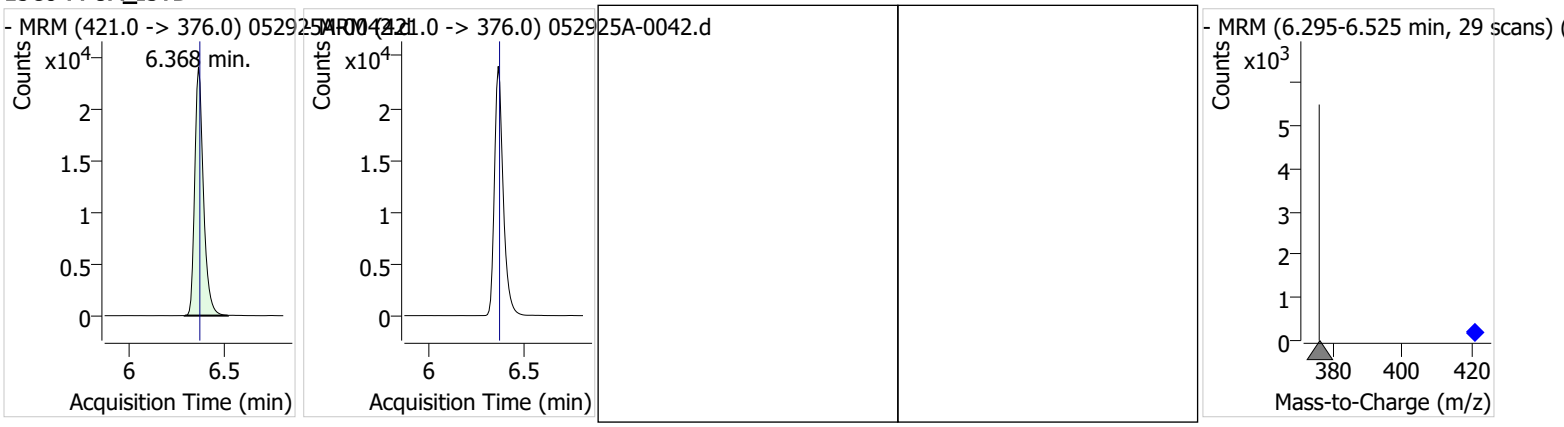
13C3-HFPODA



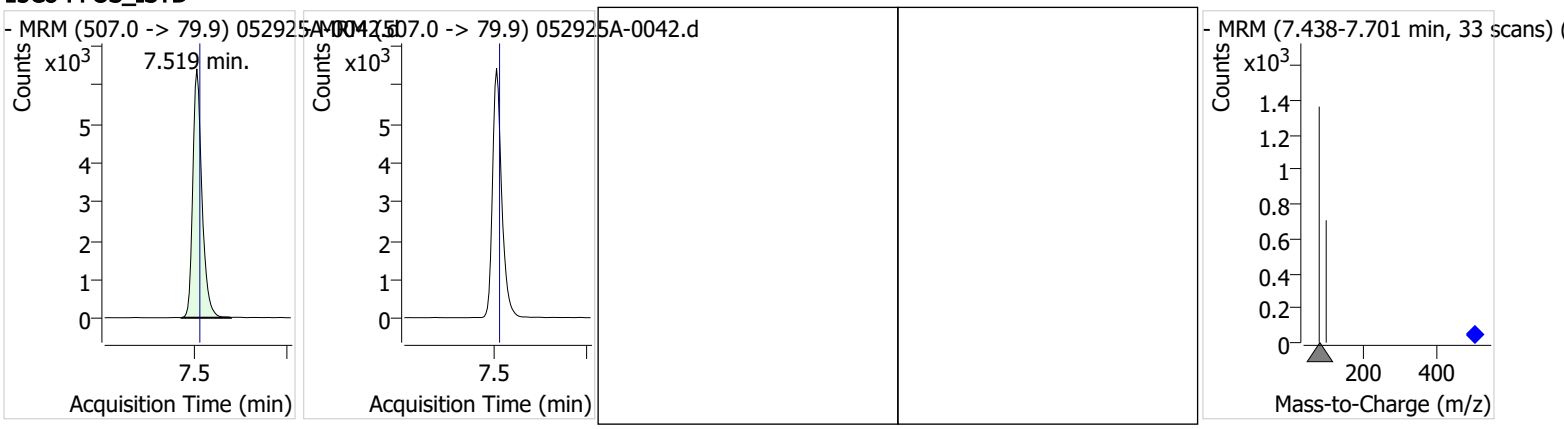
13C8-PFOSA_ISTD



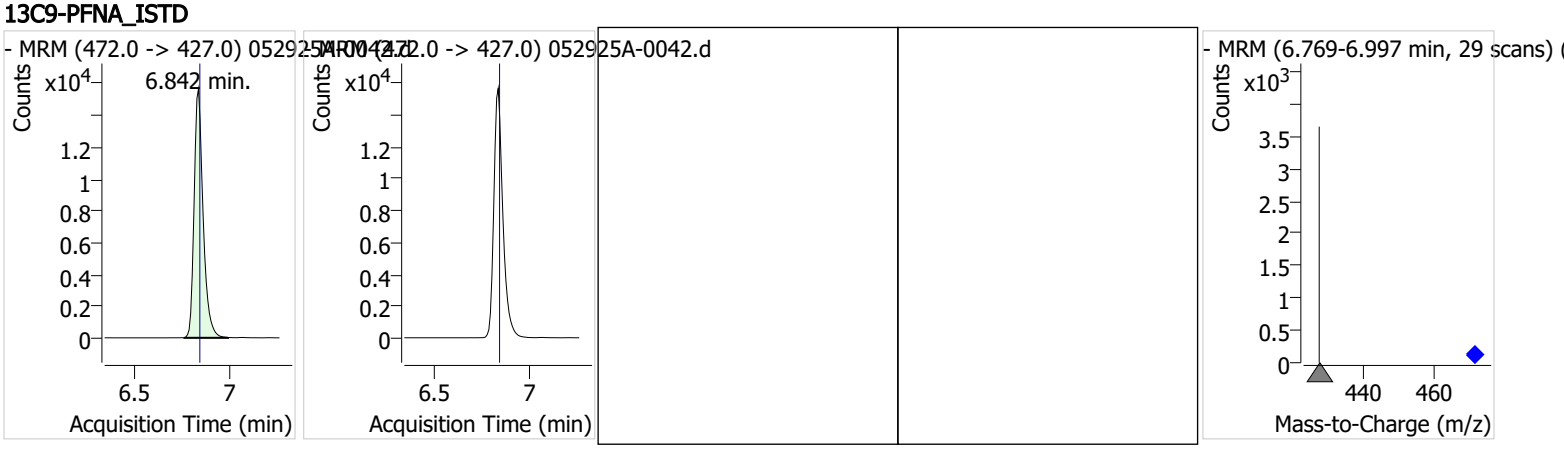
13C8-PFOA_ISTD



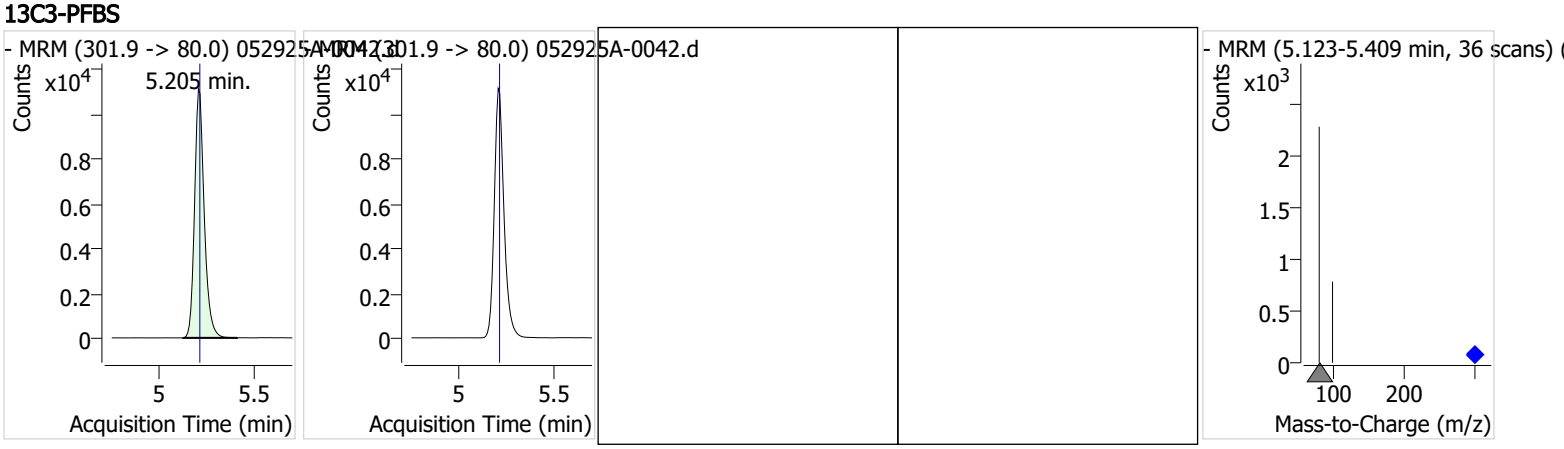
13C8-PFOS_ISTD



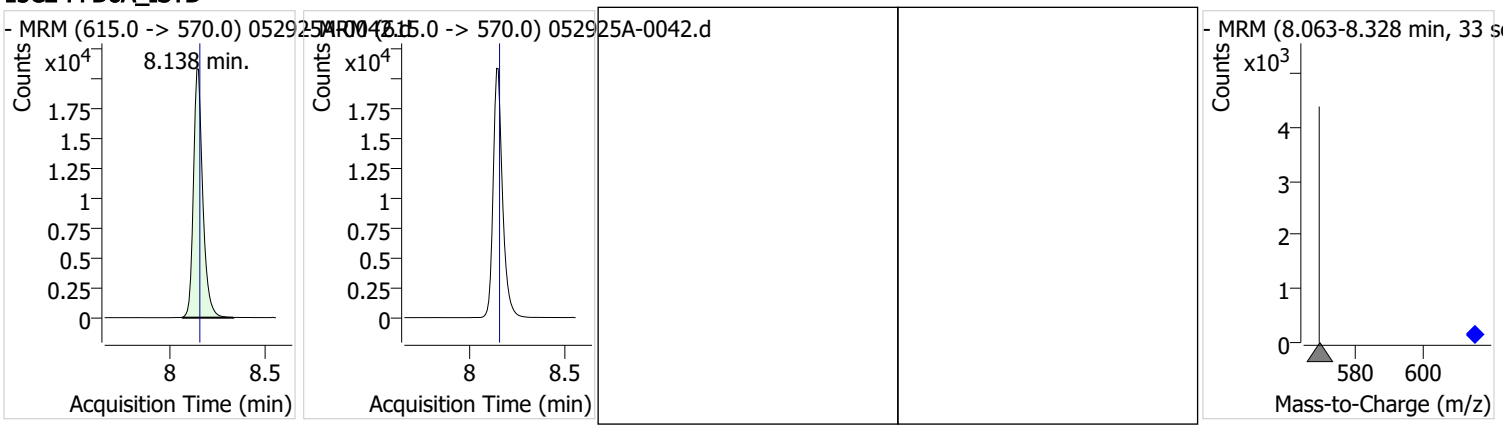
13C9-PFNA_ISTD



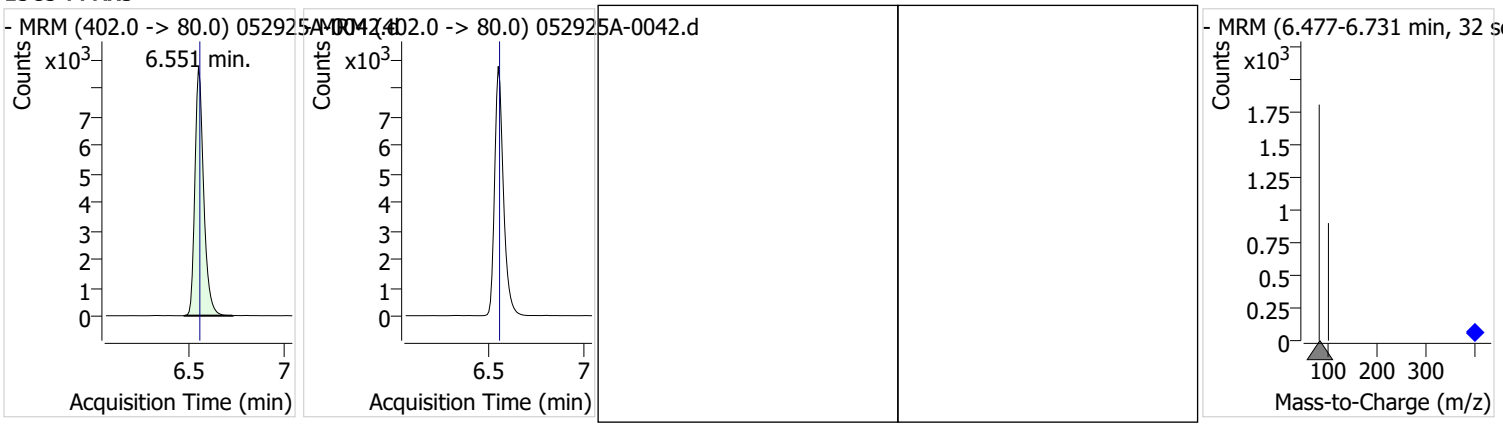
13C3-PFBS



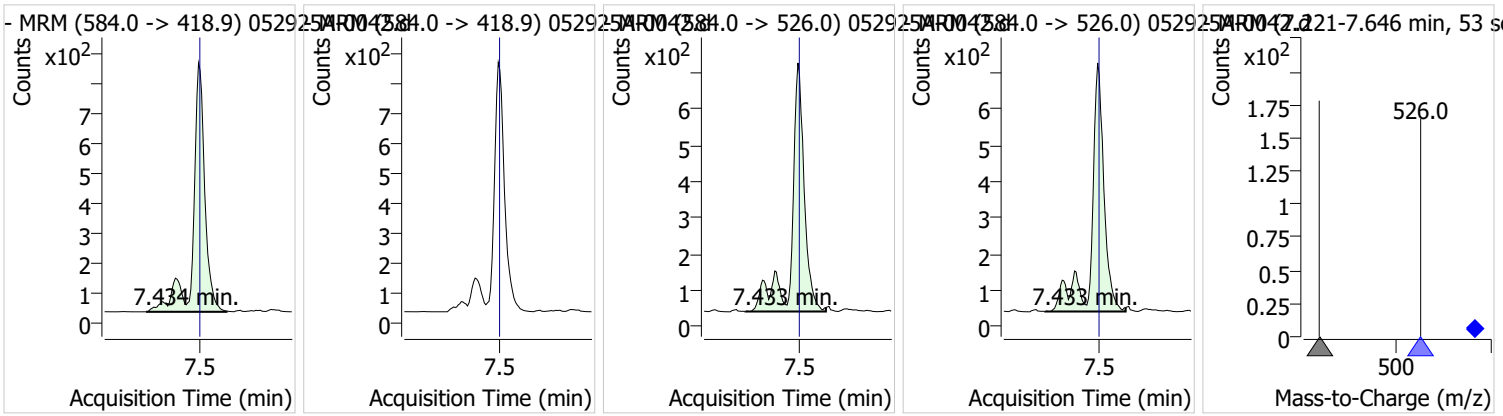
13C2-PFDoA_ISTD



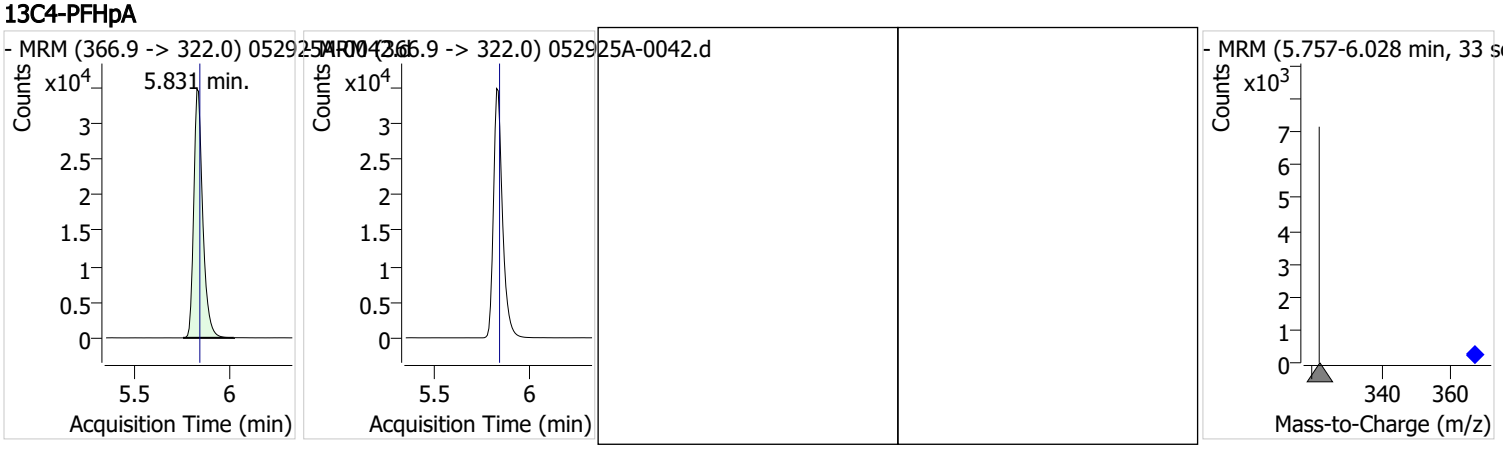
13C3-PFHxS



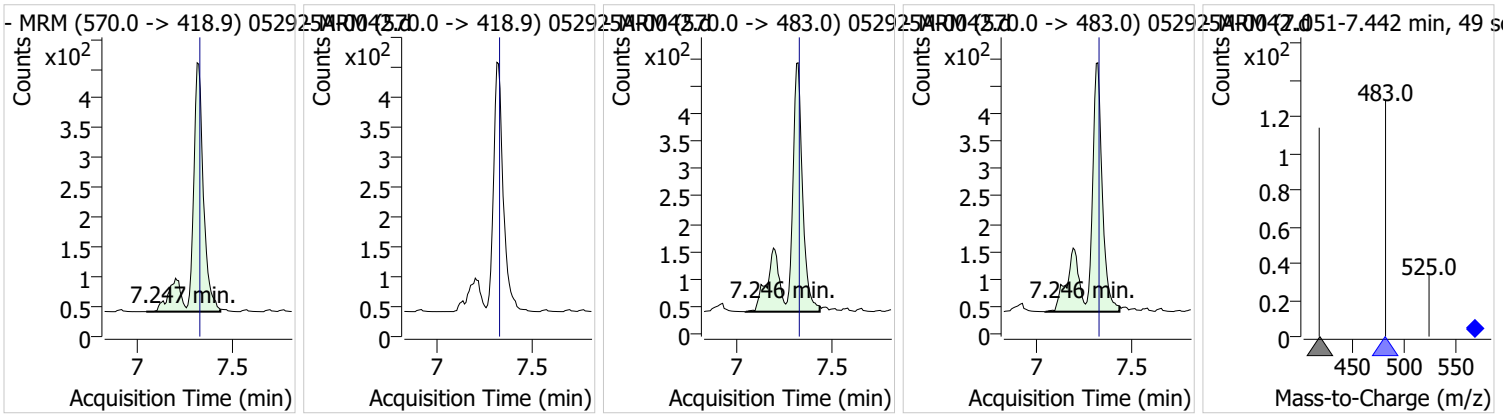
NEtFOSAA



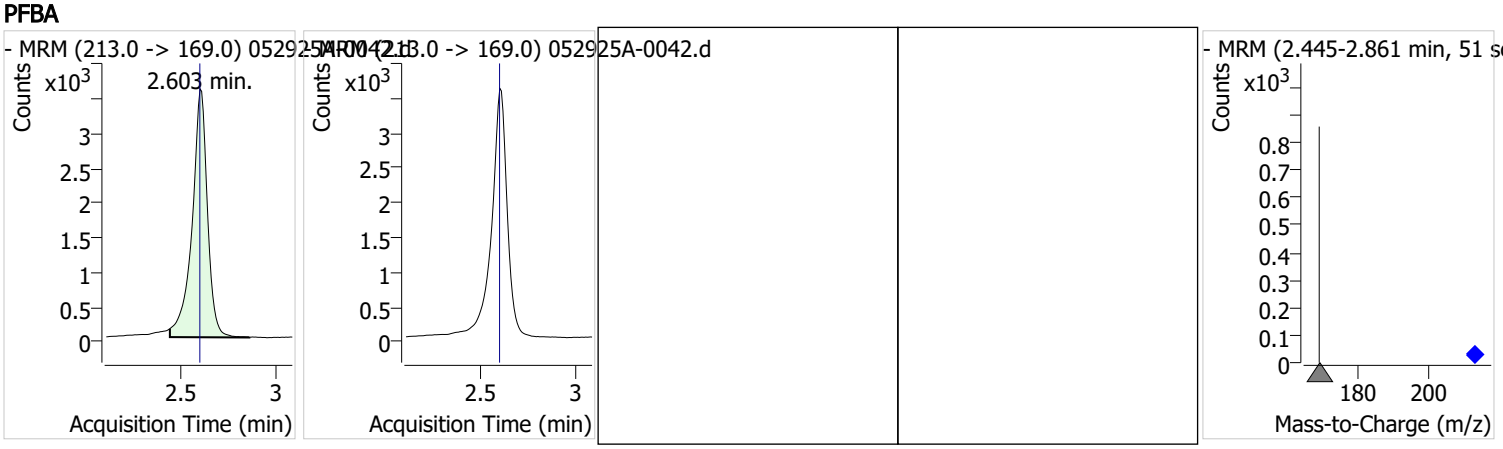
13C4-PFHpA



NMeFOSAA



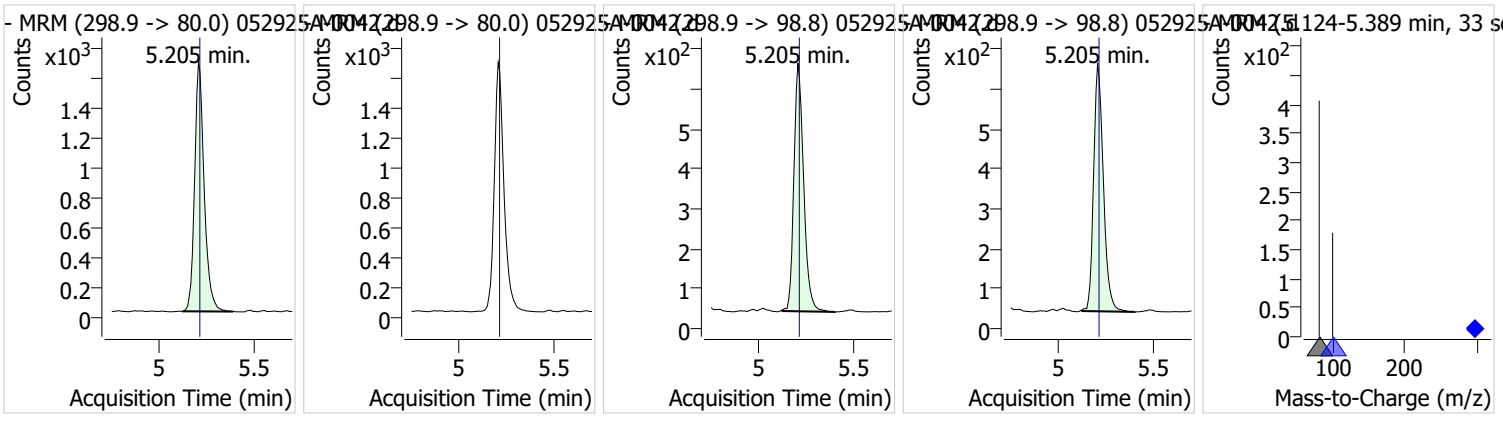
PFBA



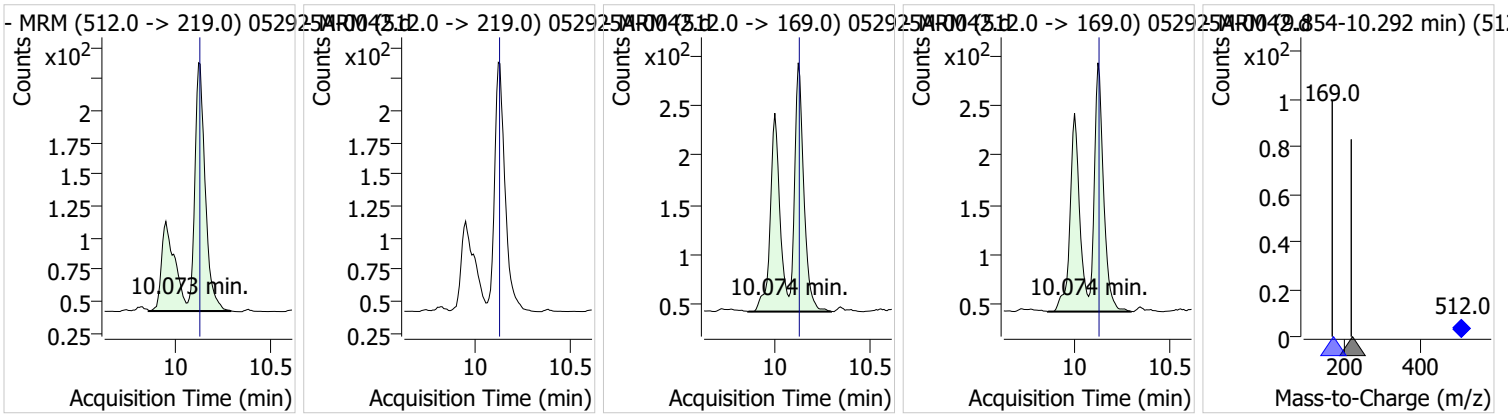
13C5-PFHxA



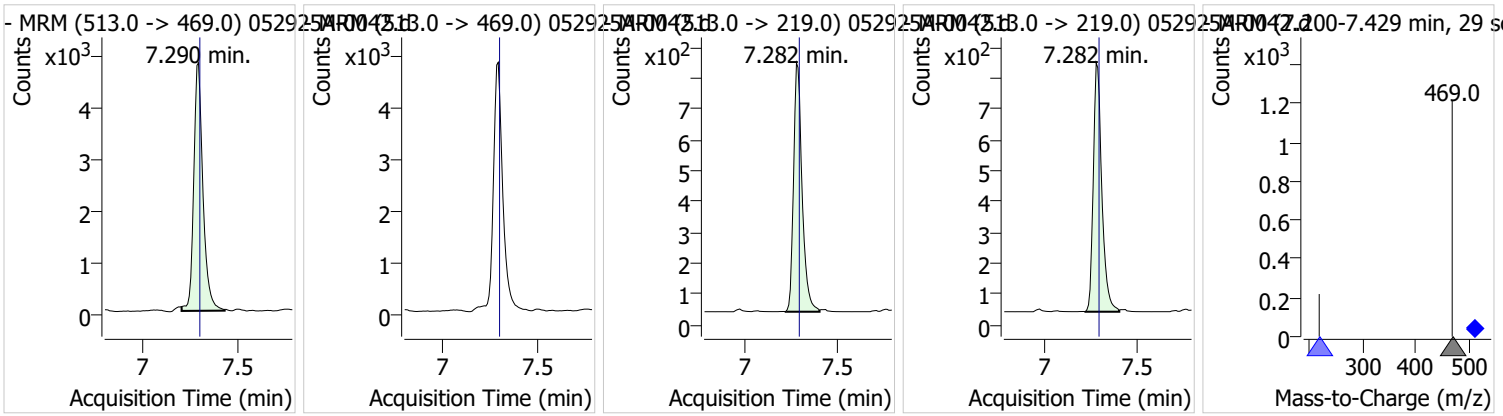
PFBS



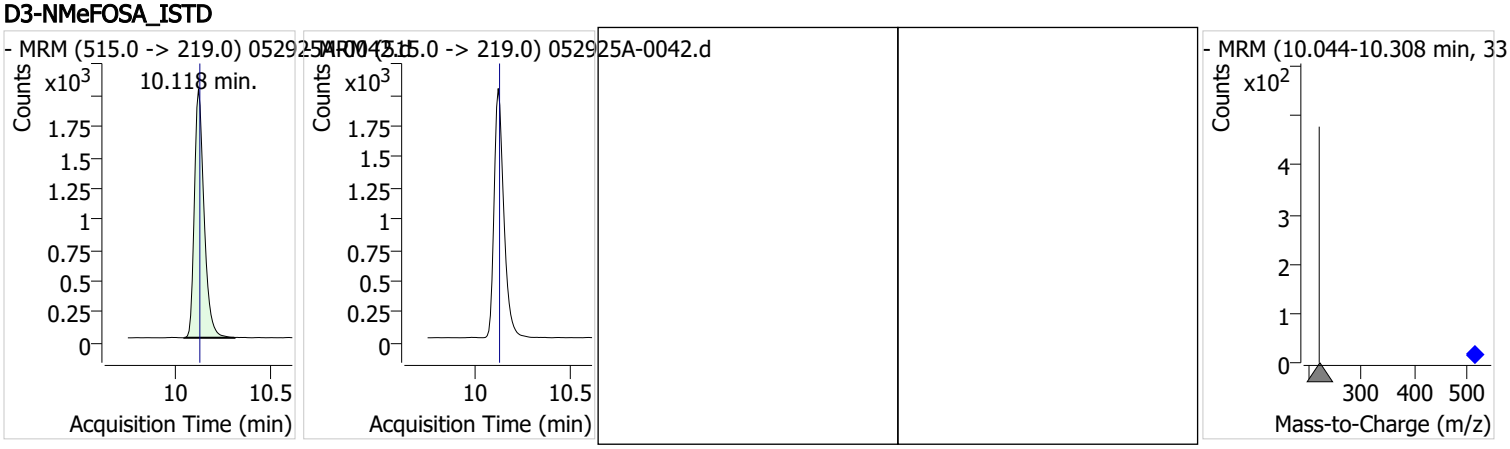
NMeFOSA



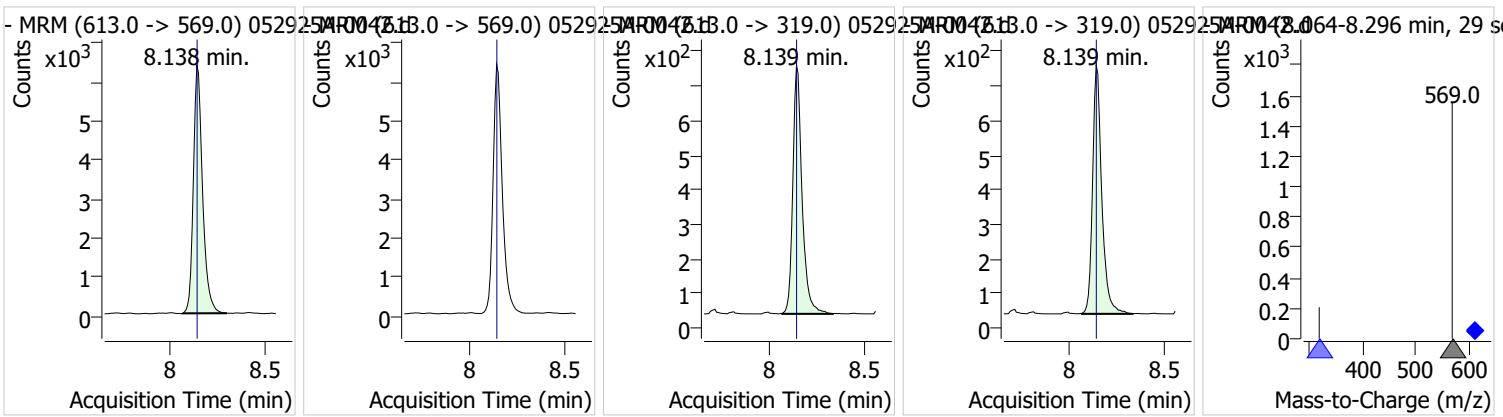
PFDA



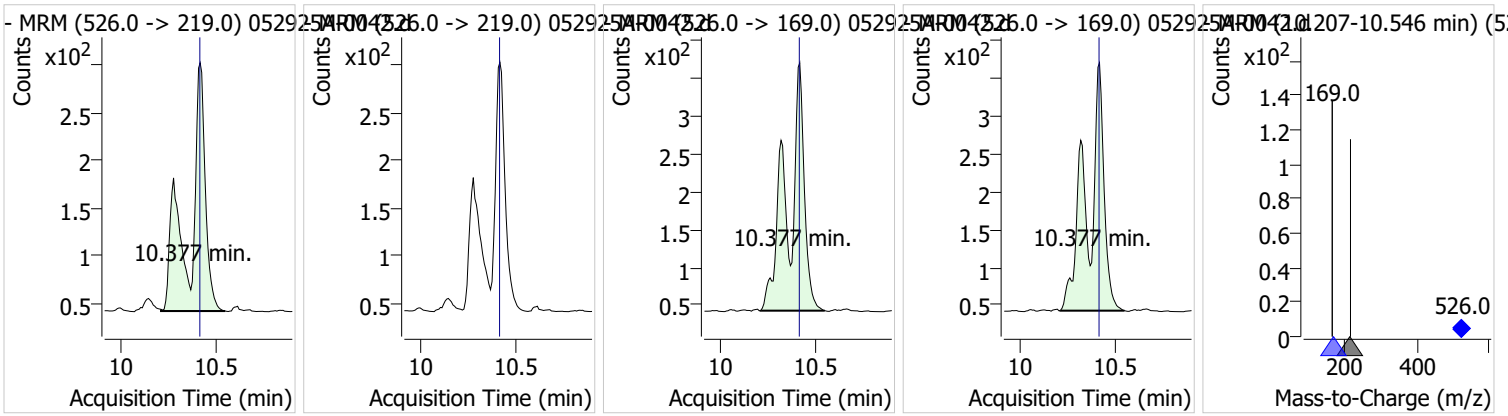
D3-NMeFOSA_ISTD



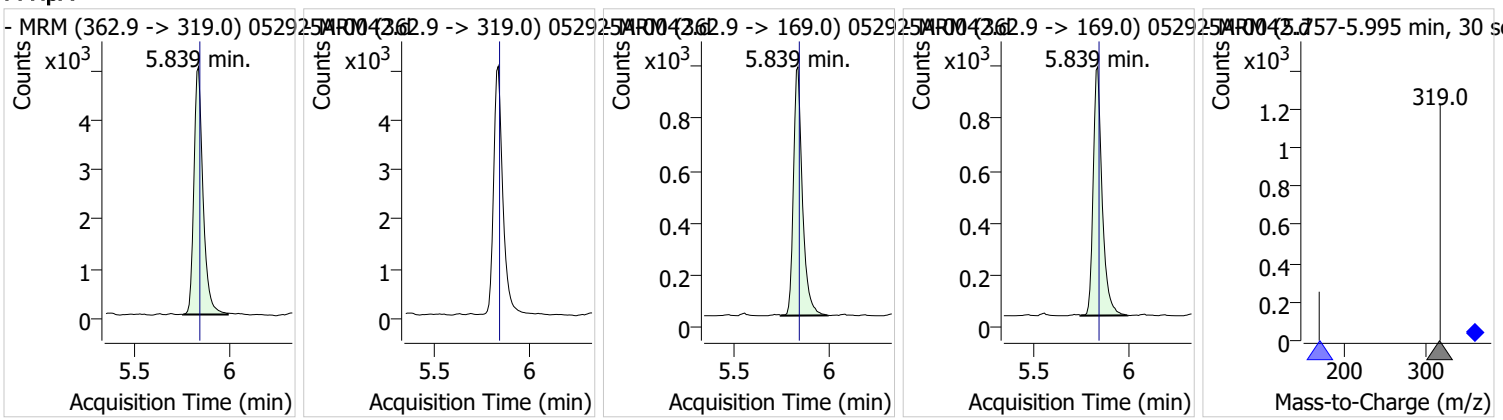
PFDoA



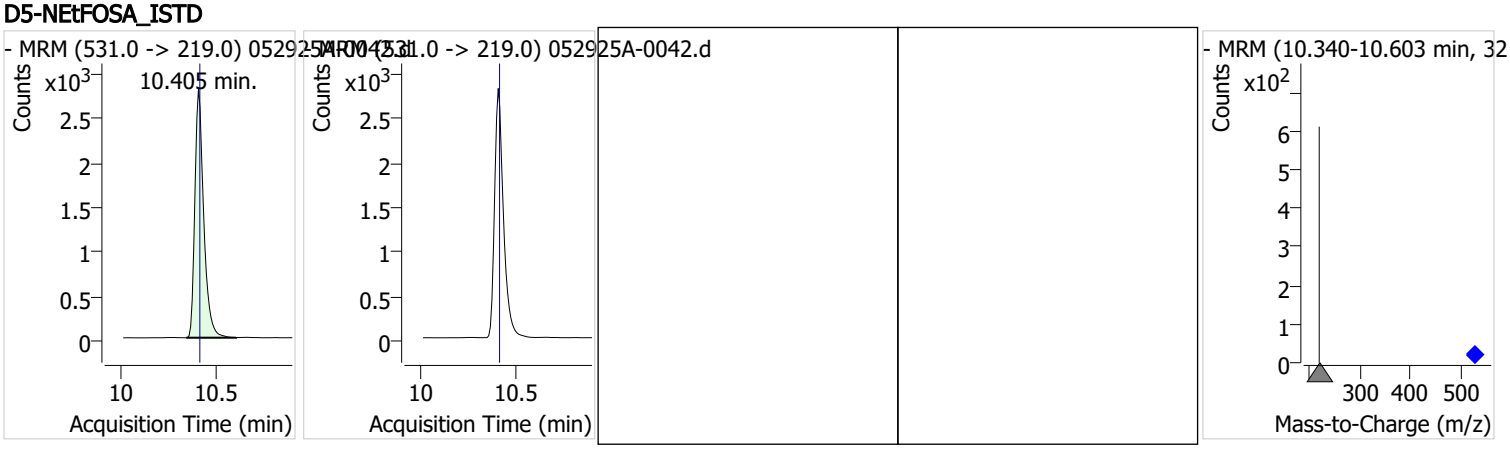
NEtFOSA



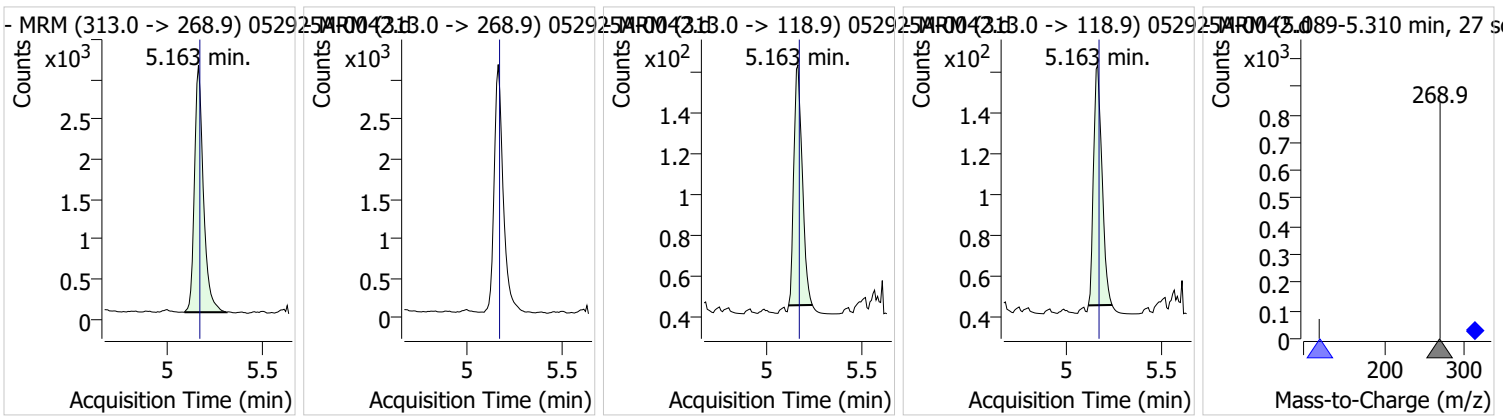
PFHpA



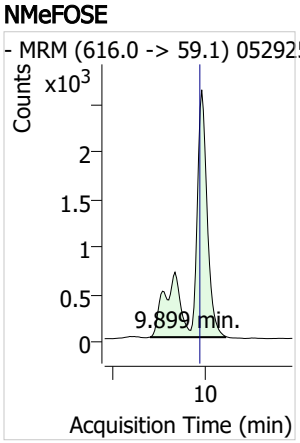
D5-NEtFOSA_ISTD

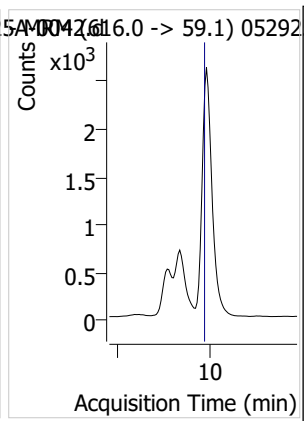


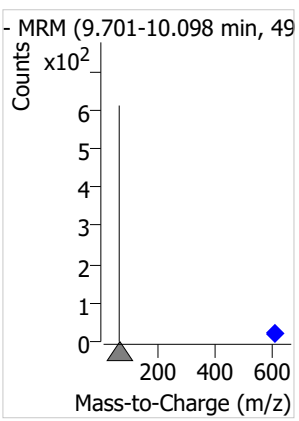
PFHxA



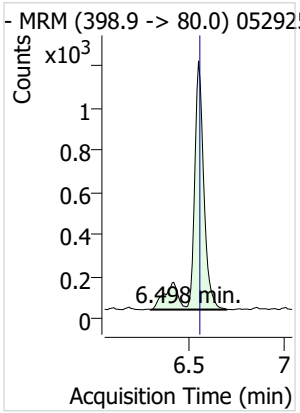
NMeFOSE

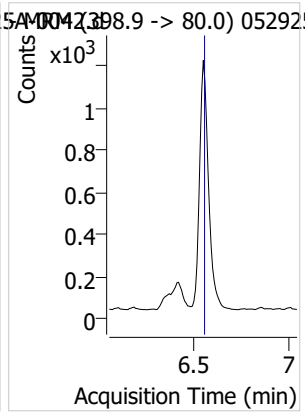


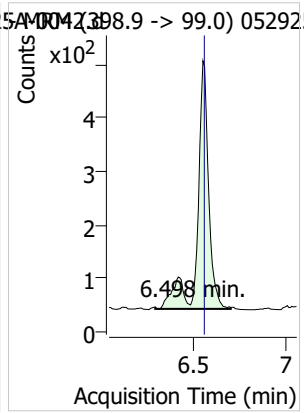


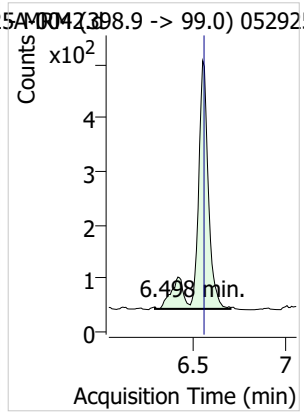


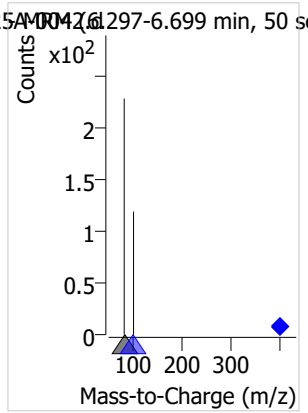
PFHxS



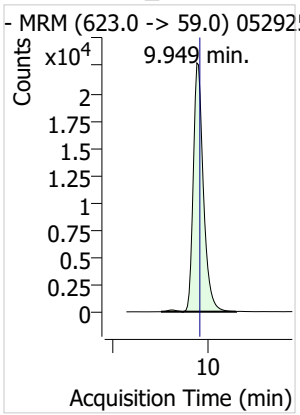


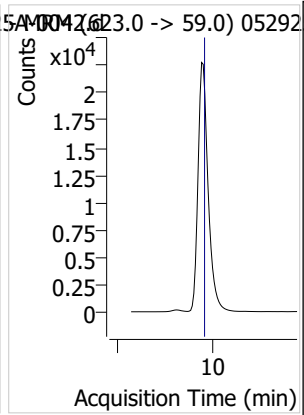


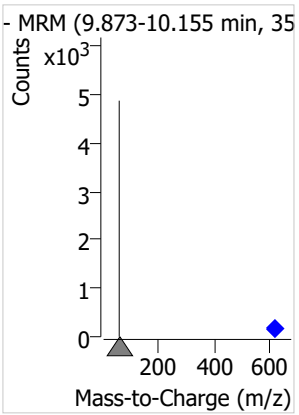




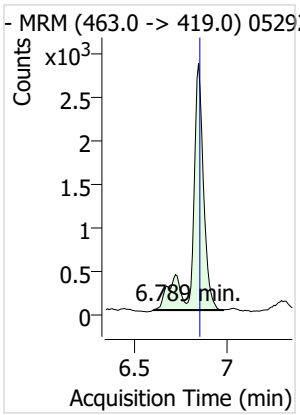
D7-NMeFOSE_ISTD

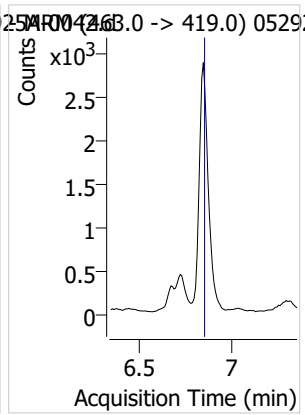


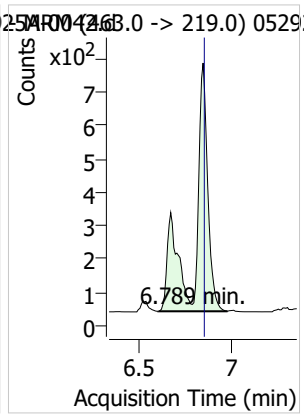


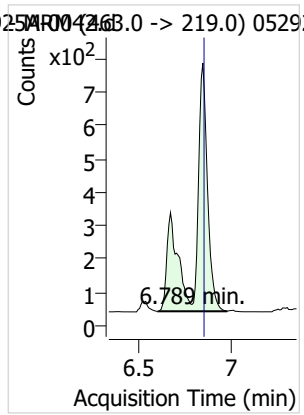


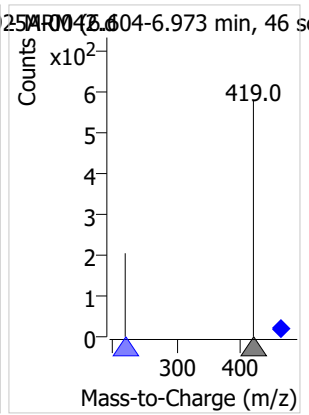
PFNA



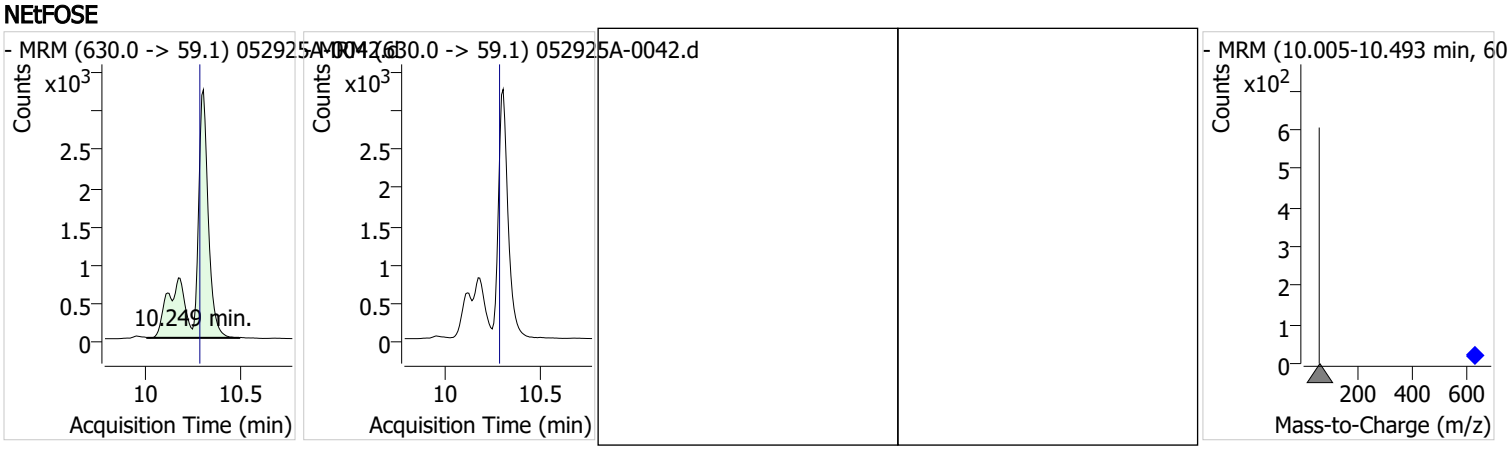




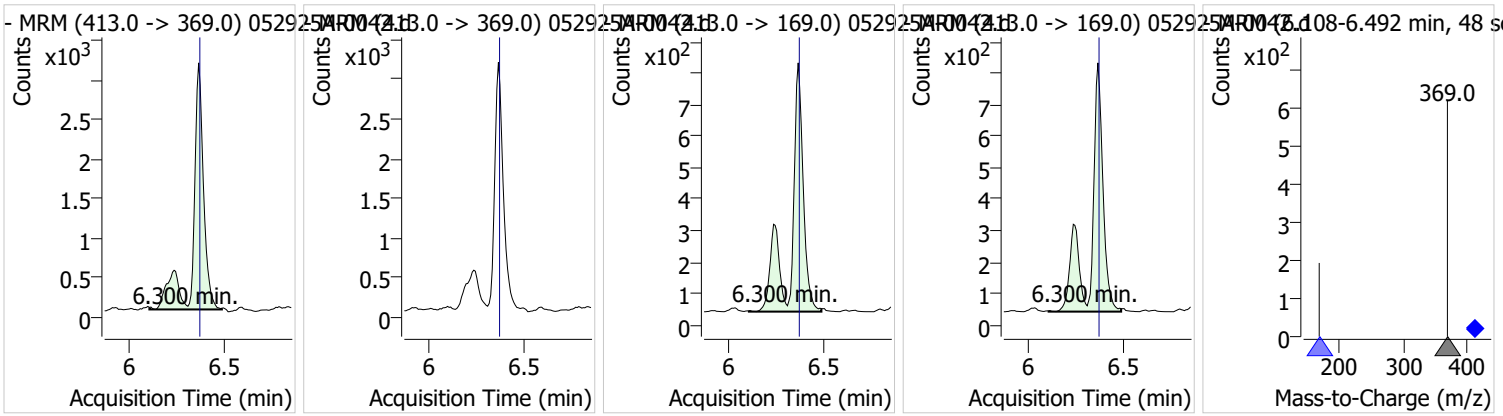




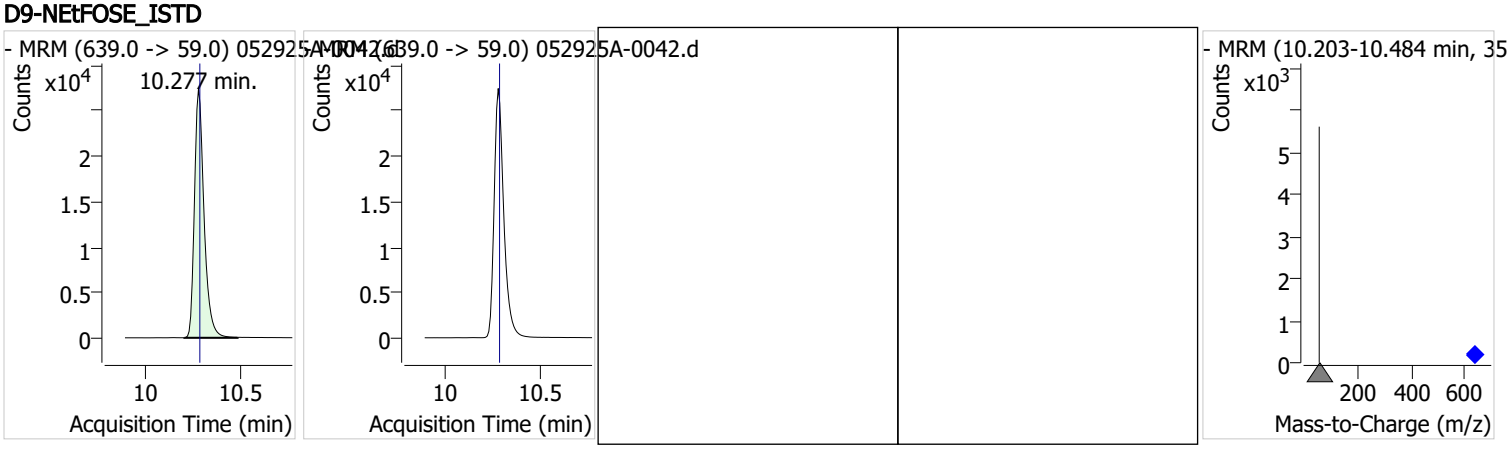
NEtFOSE



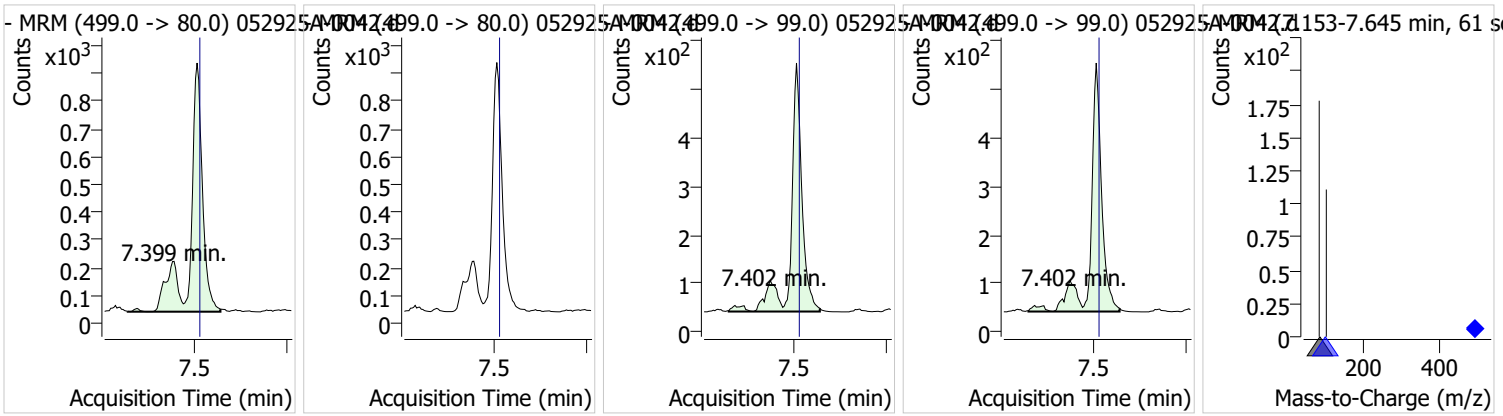
PFOA



D9-NEtFOSE_ISTD



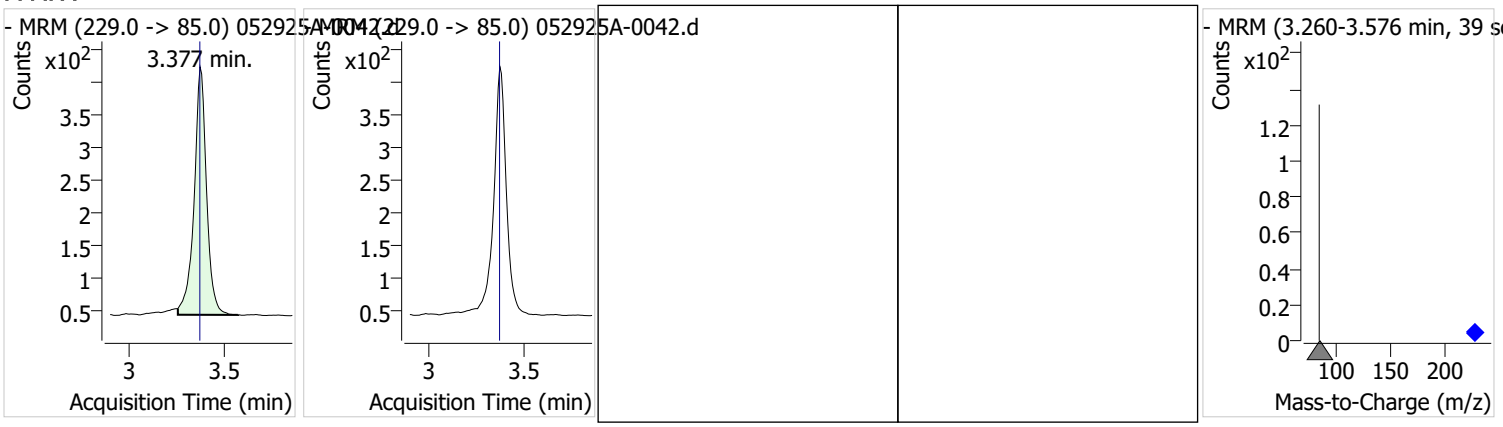
PFOS



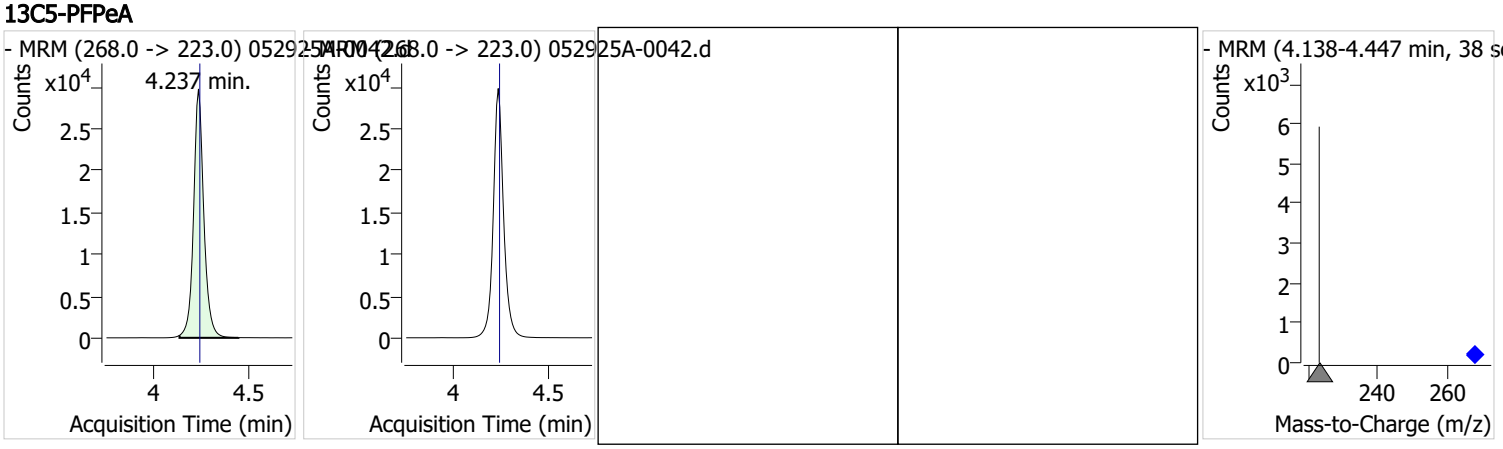
PFPeA



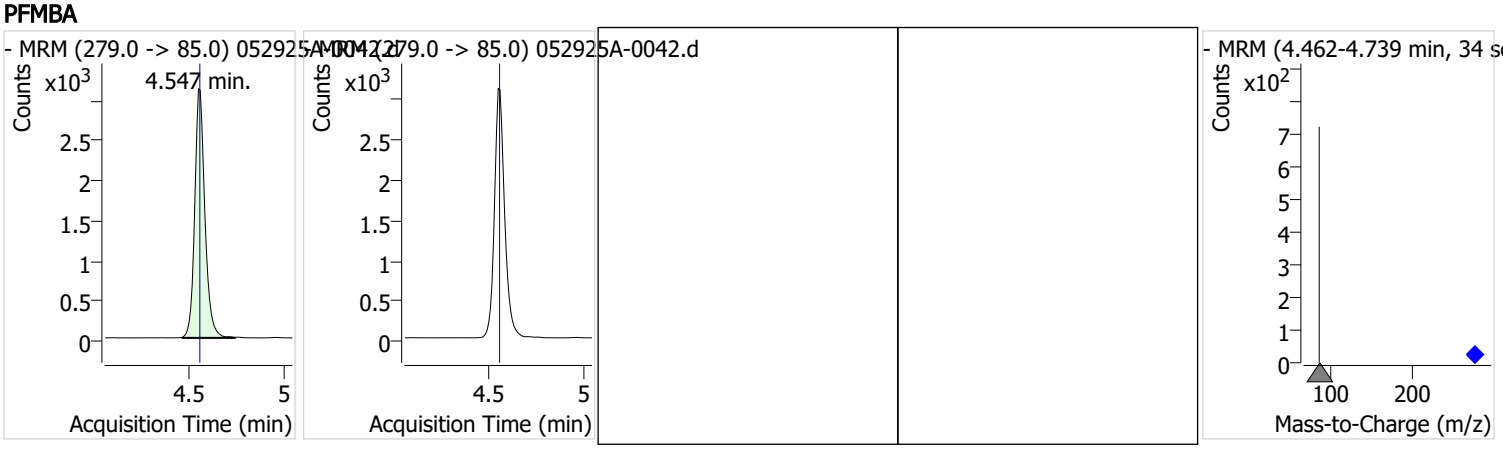
PFMPA



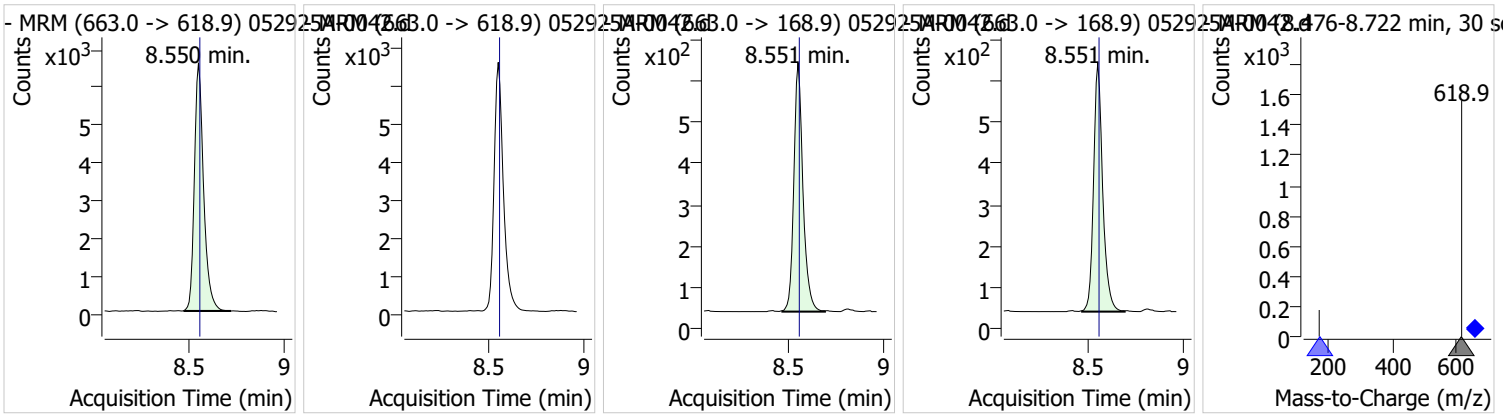
13C5-PFPeA



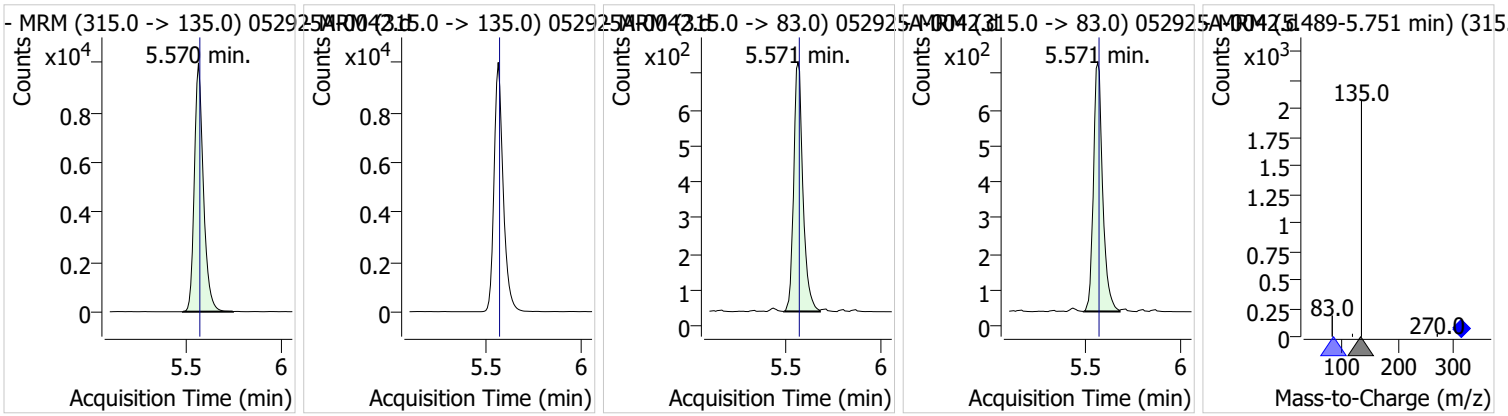
PFMBA



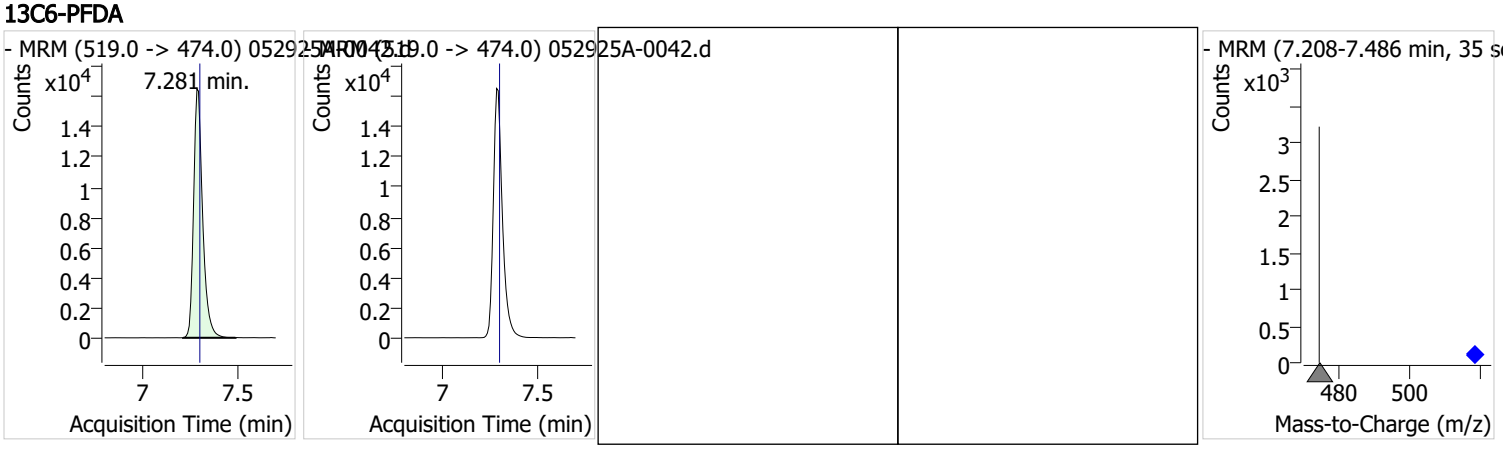
PFTrDA



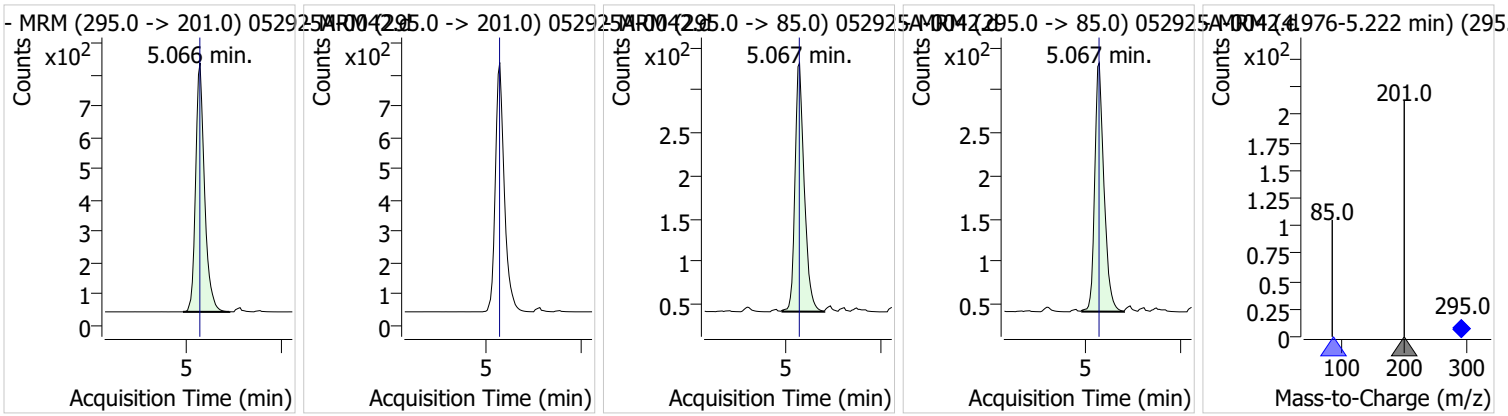
PFEESA



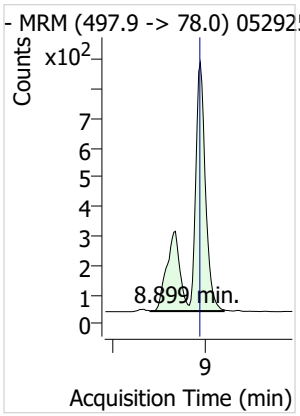
13C6-PFDA

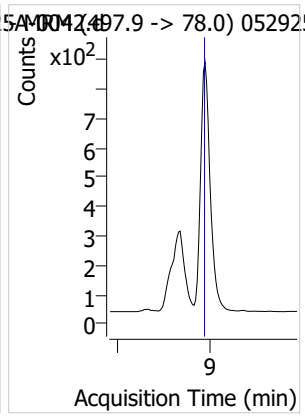


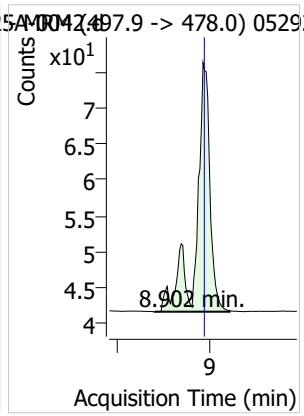
NFDHA

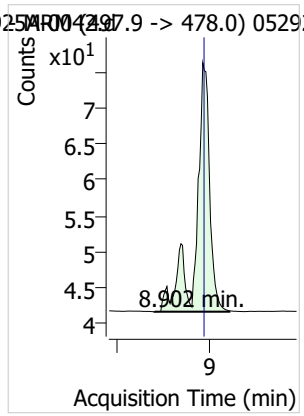


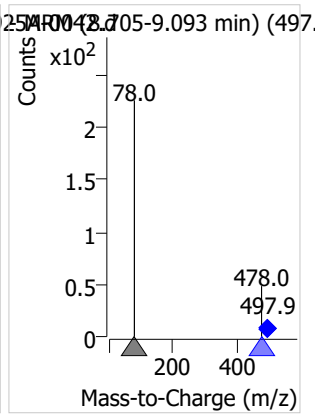
PFOSA



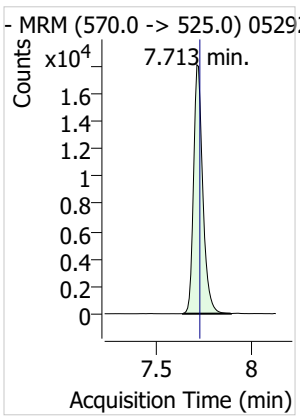


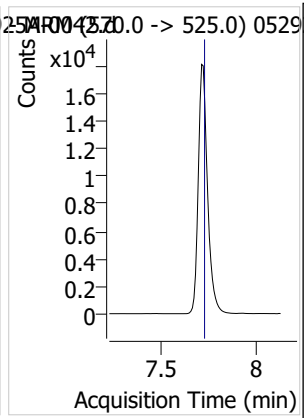


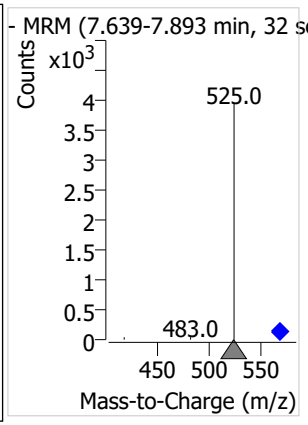




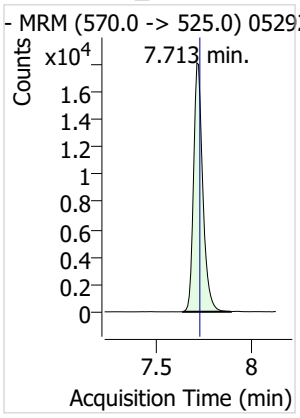
13C7-PFUnA

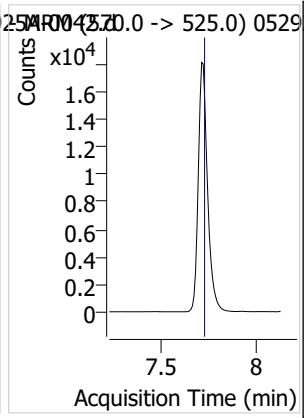


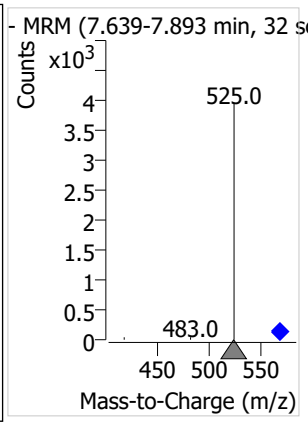




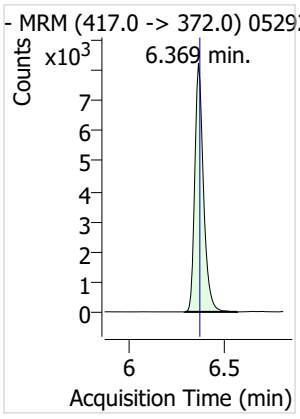
13C7-PFUnA_ISTD

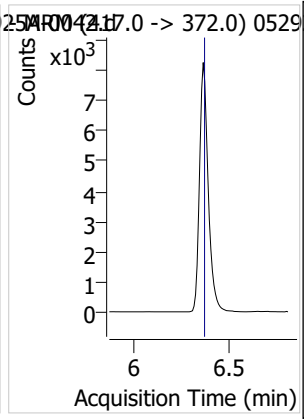


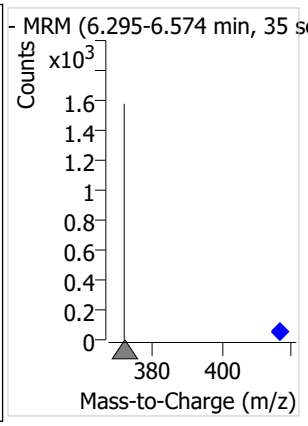




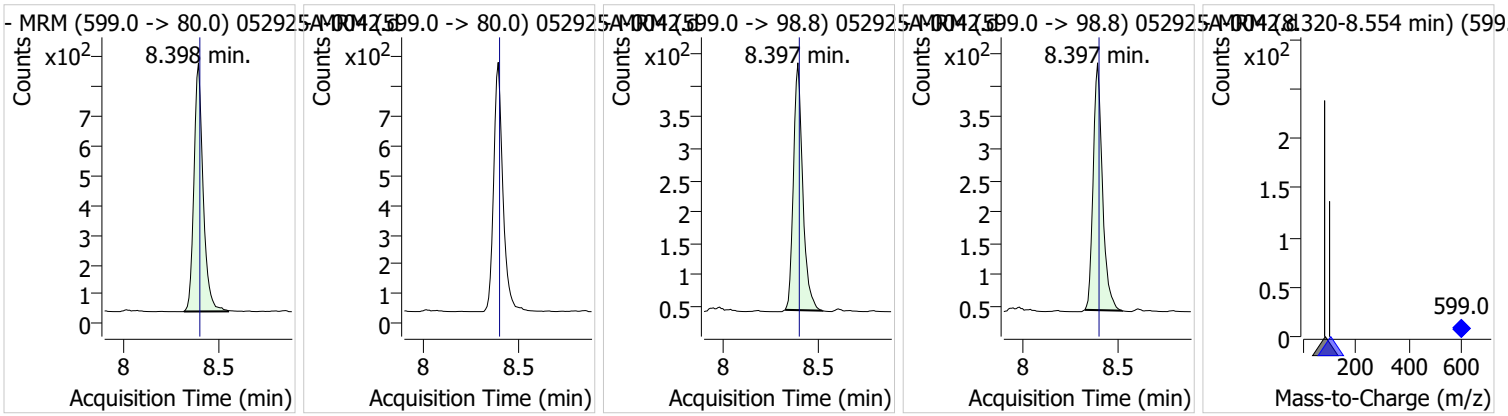
13C4-PFOA



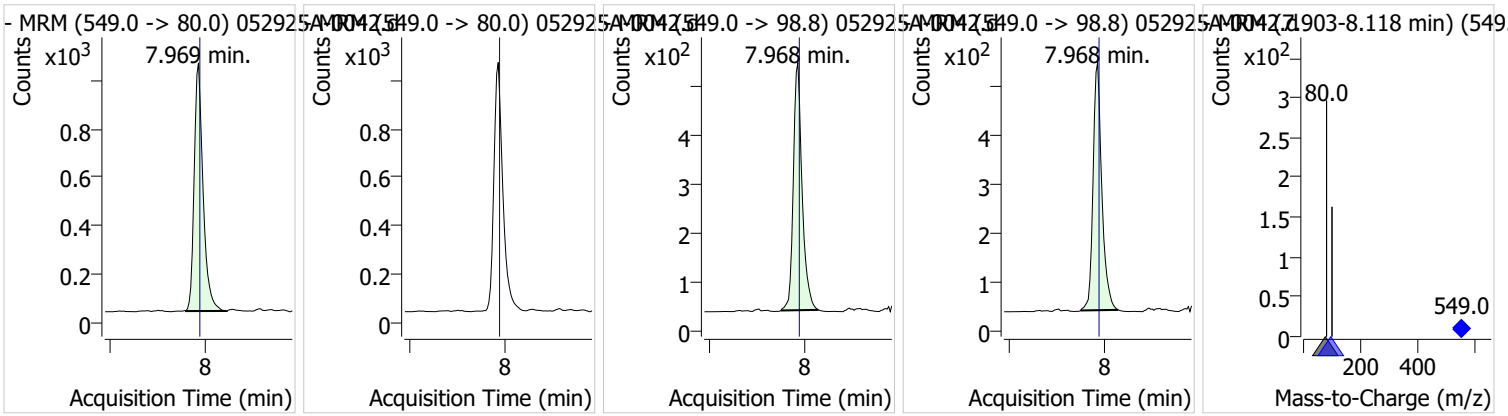




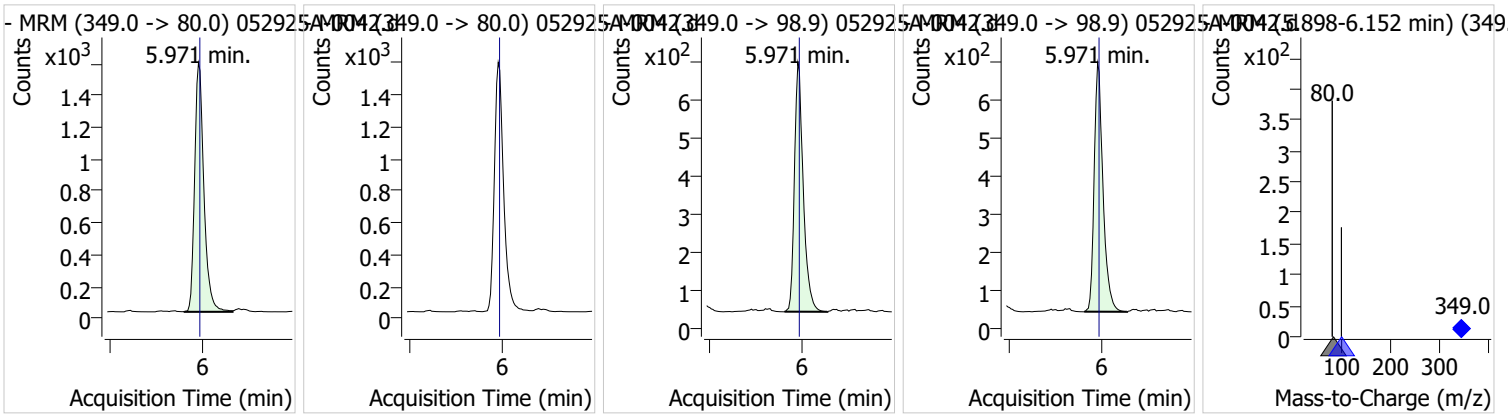
PFDS



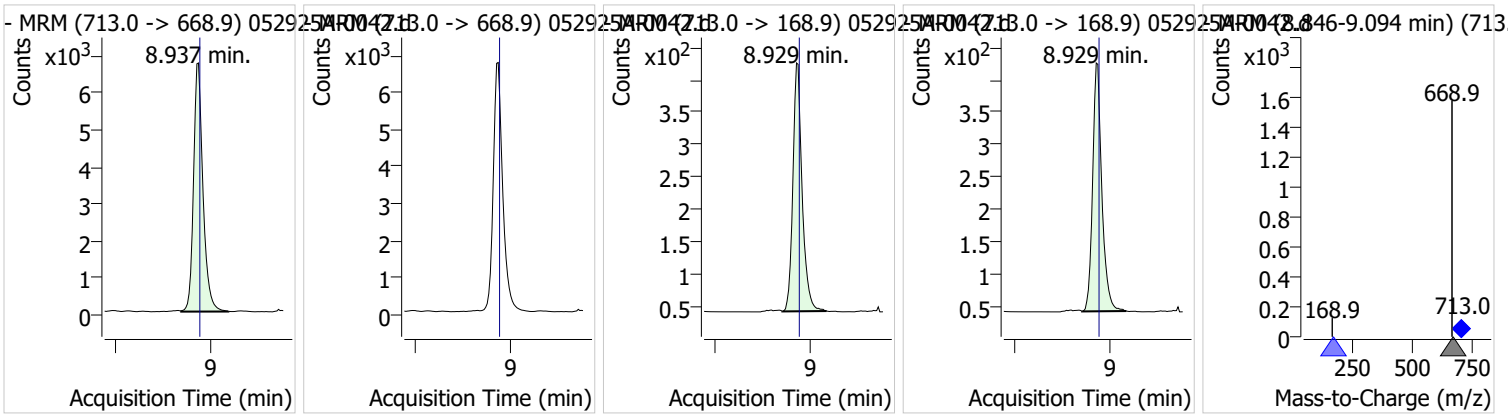
PFNS



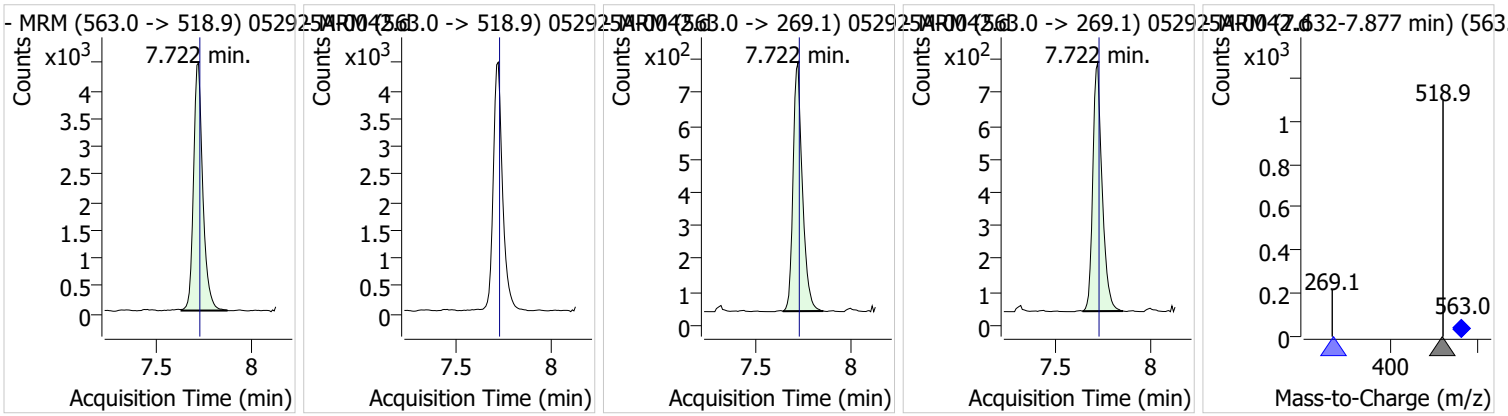
PFPeS



PFTeDA



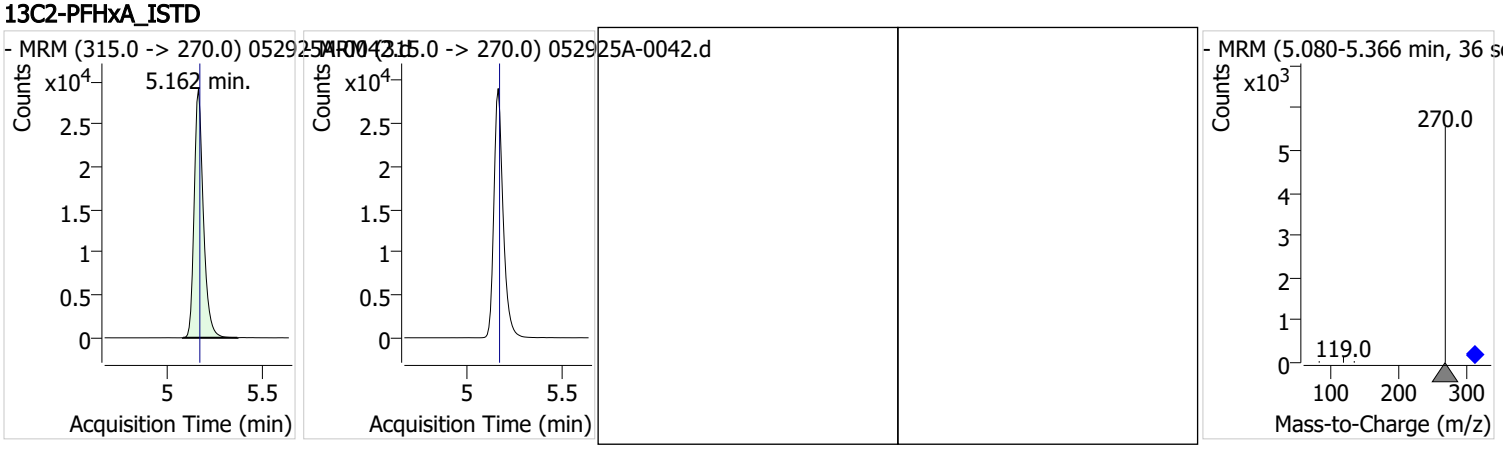
PFUnA



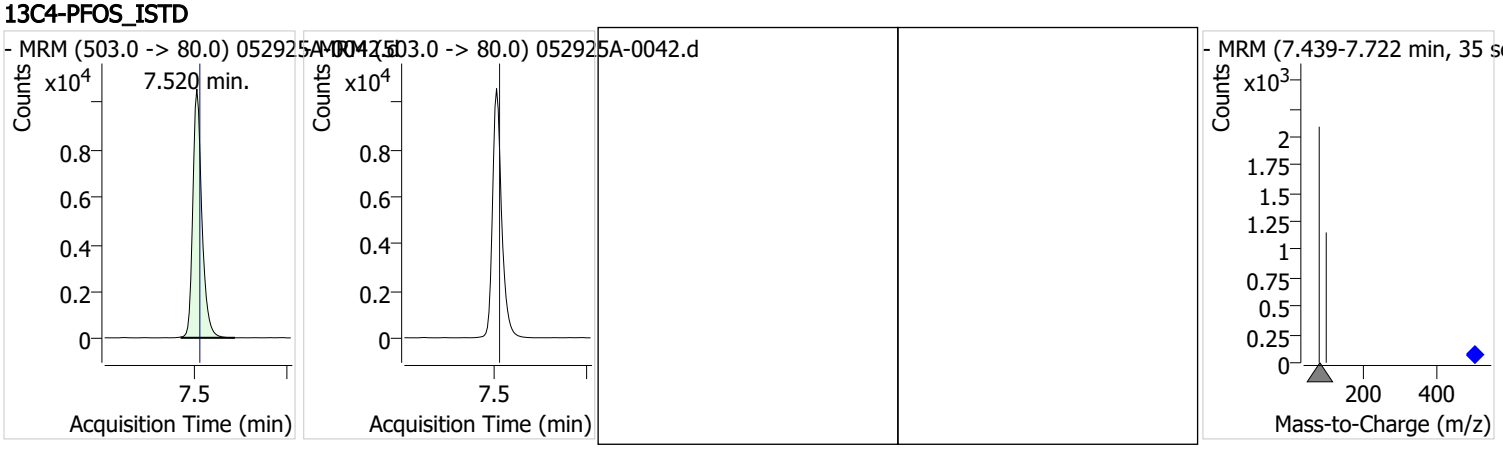
13C2-PFDA_ISTD



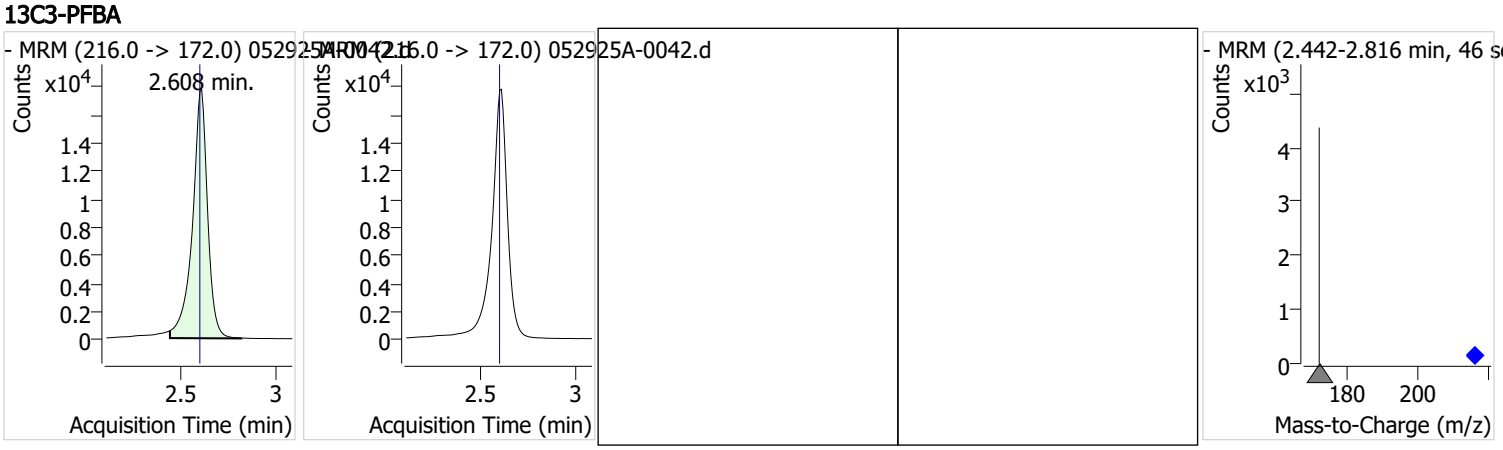
13C2-PFHxA_ISTD



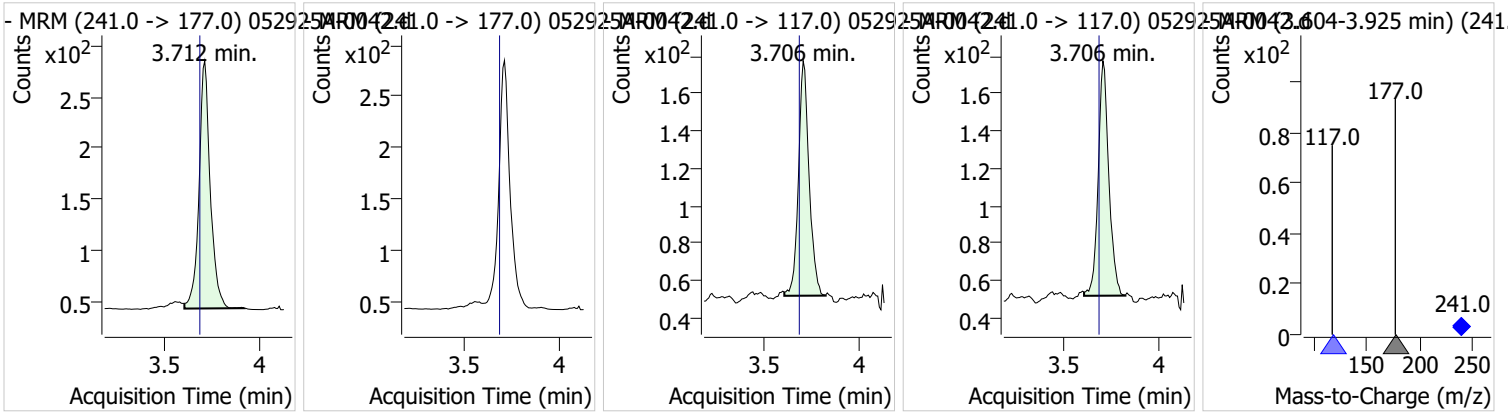
13C4-PFOS_ISTD



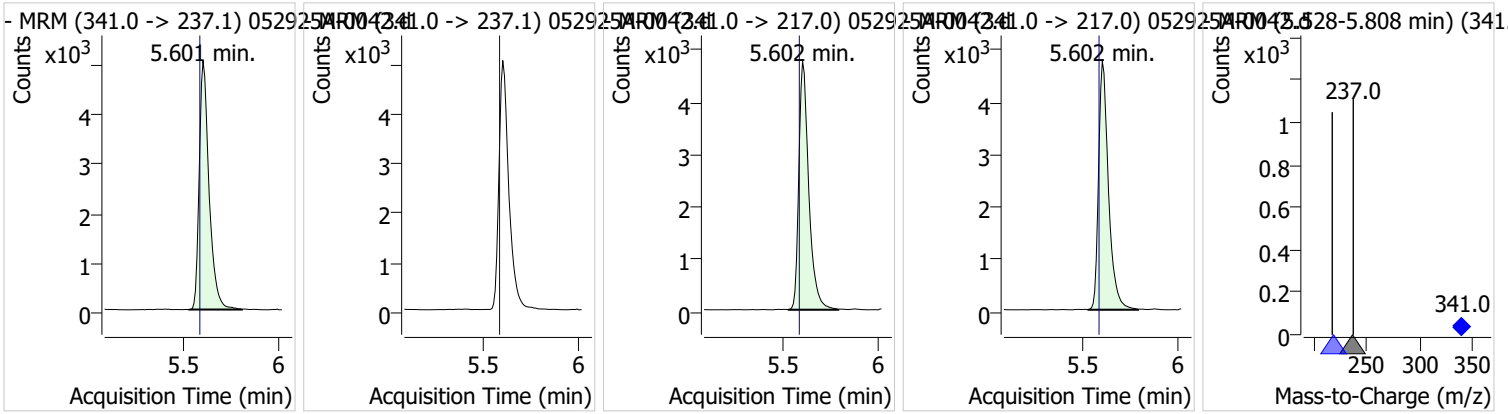
13C3-PFBA



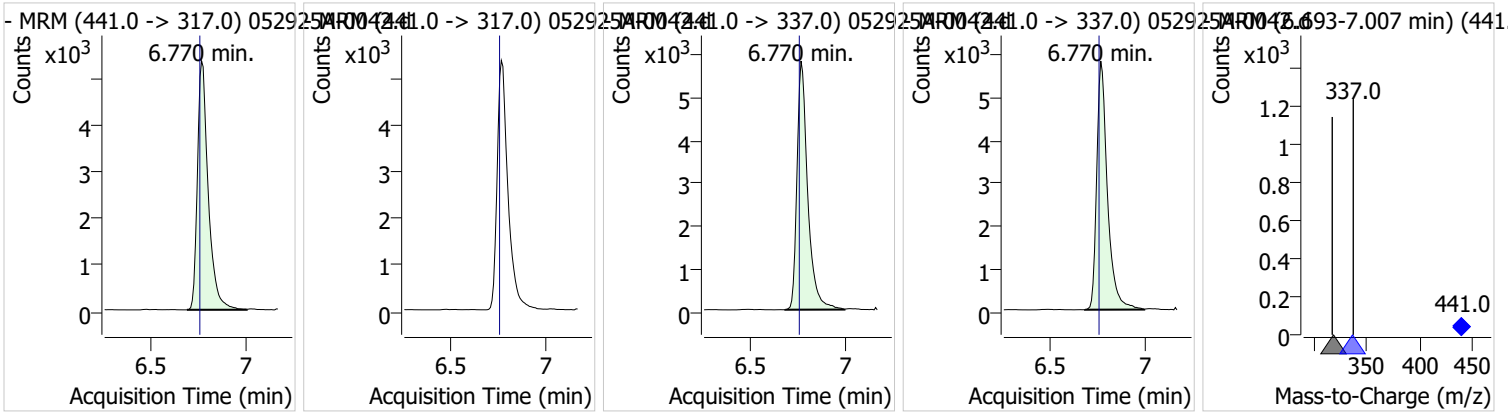
3:3FTCA



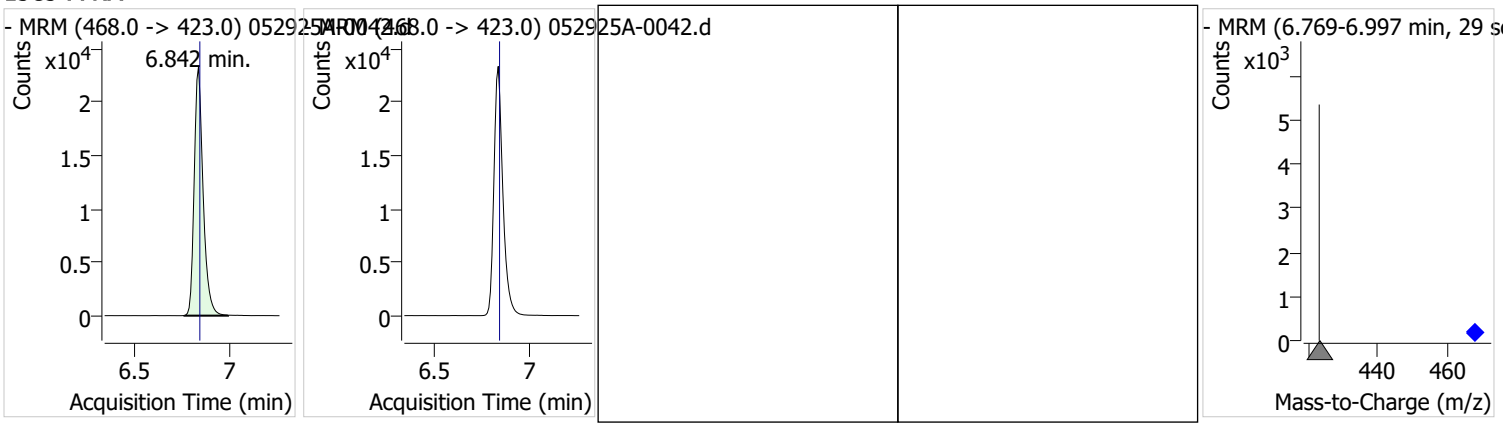
5:3FTCA



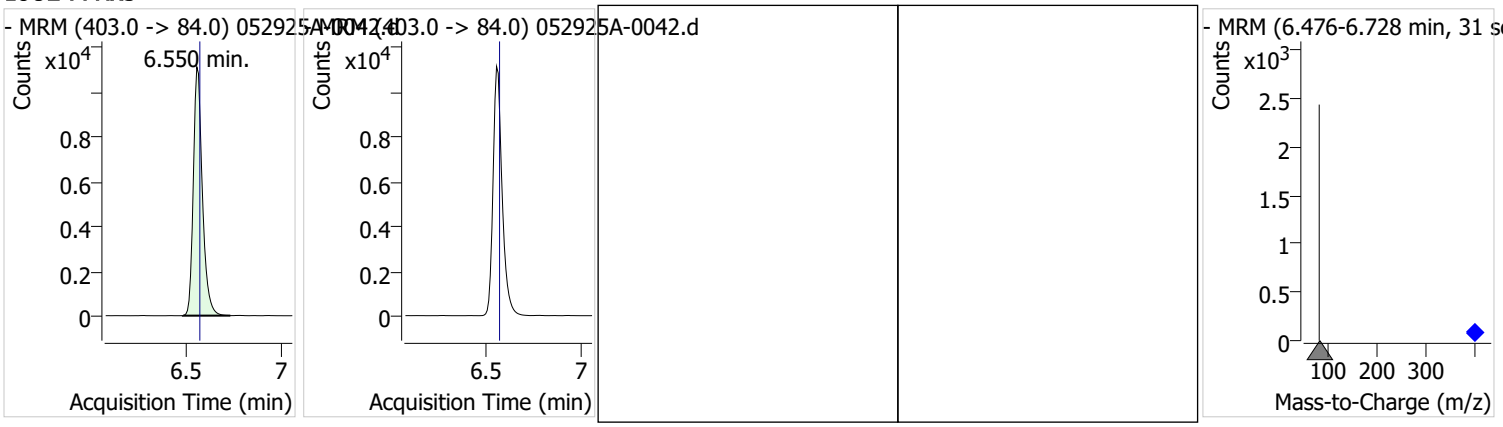
7:3FTCA



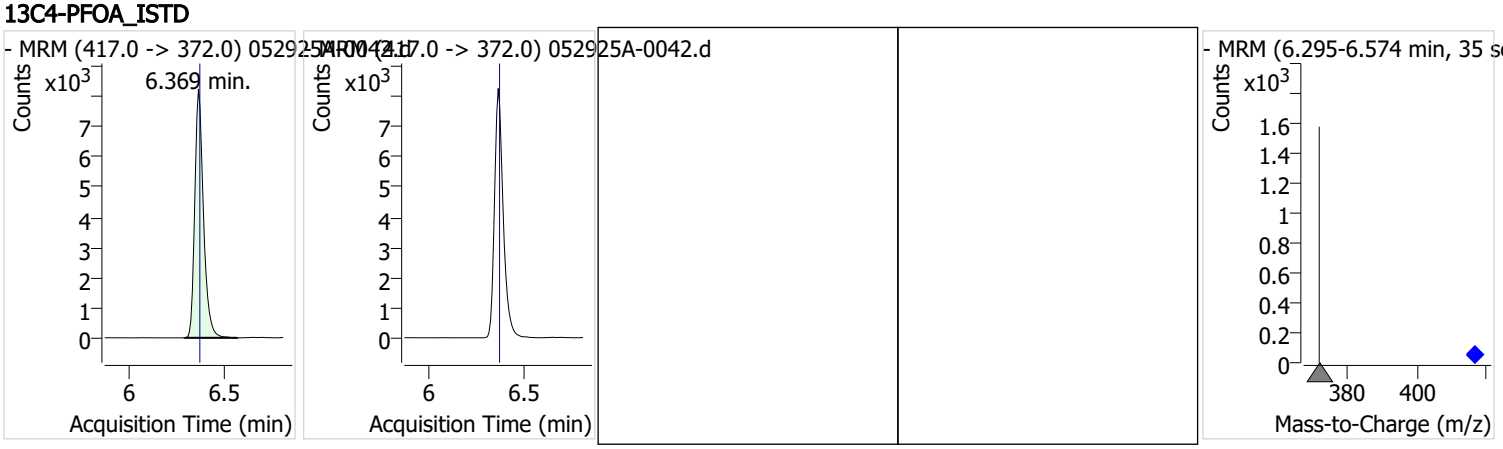
13C5-PFNA



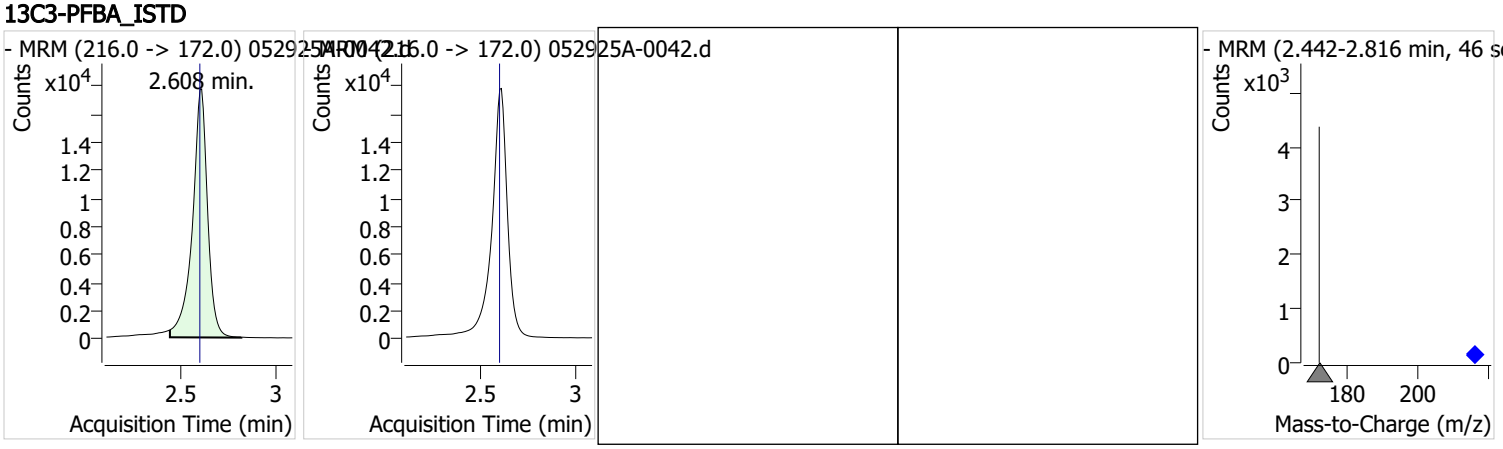
18O2-PFHxS



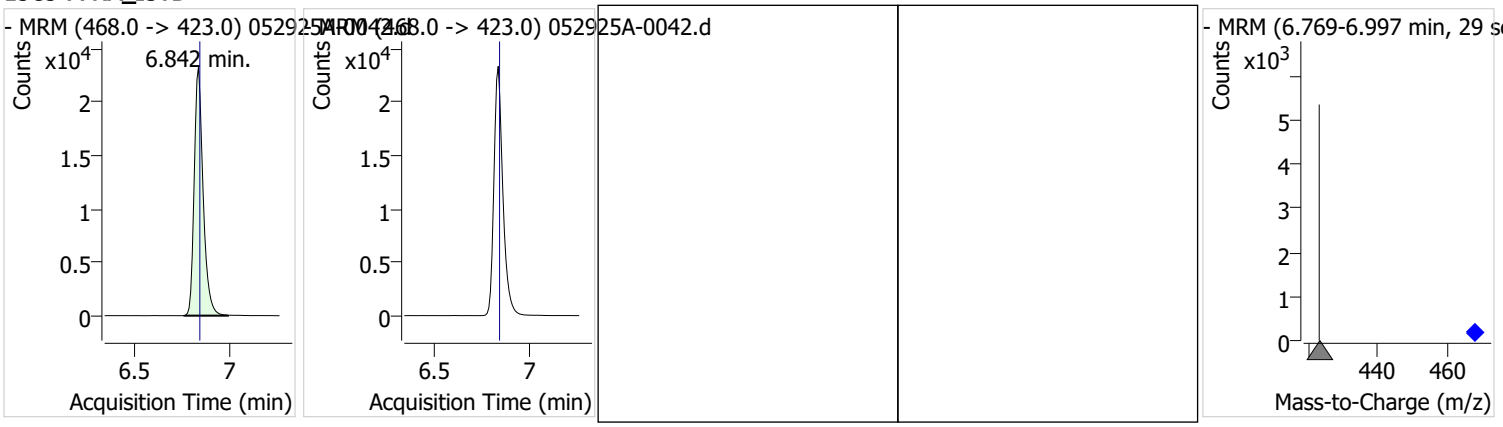
13C4-PFOA_ISTD



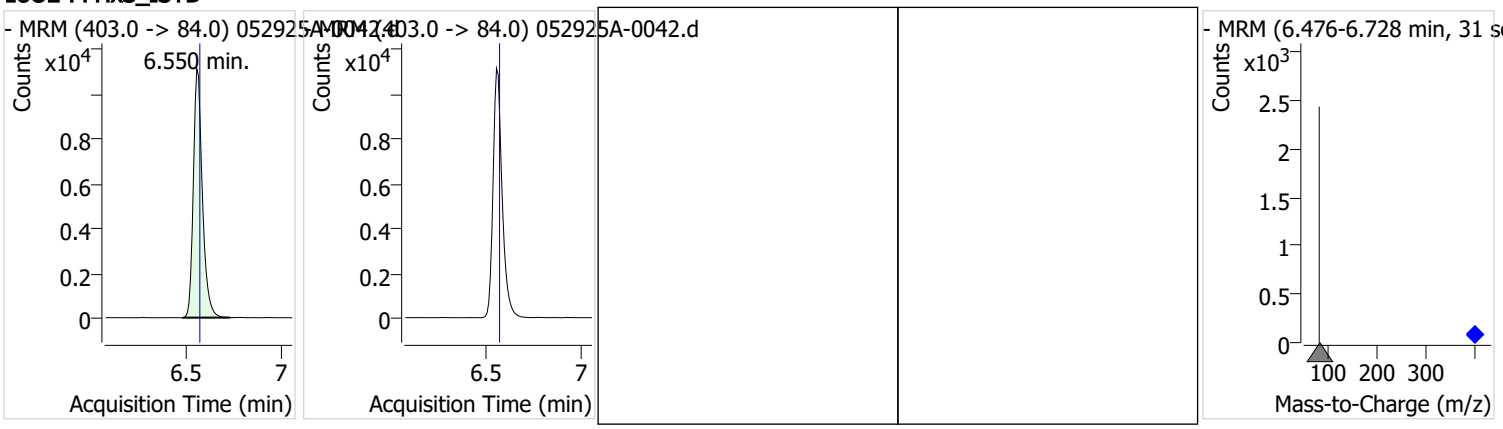
13C3-PFBA_ISTD



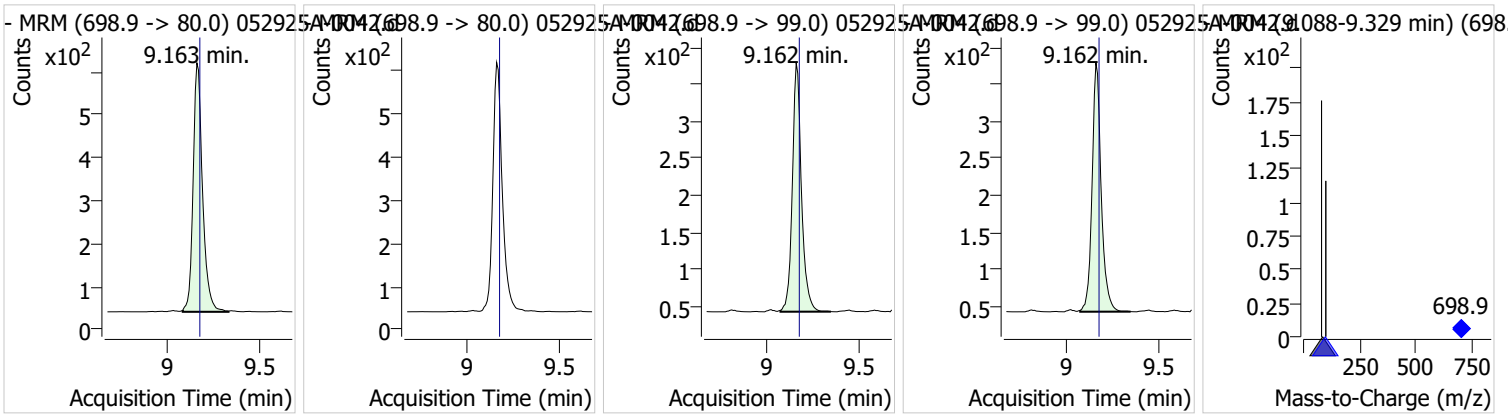
13C5-PFNA_ISTD



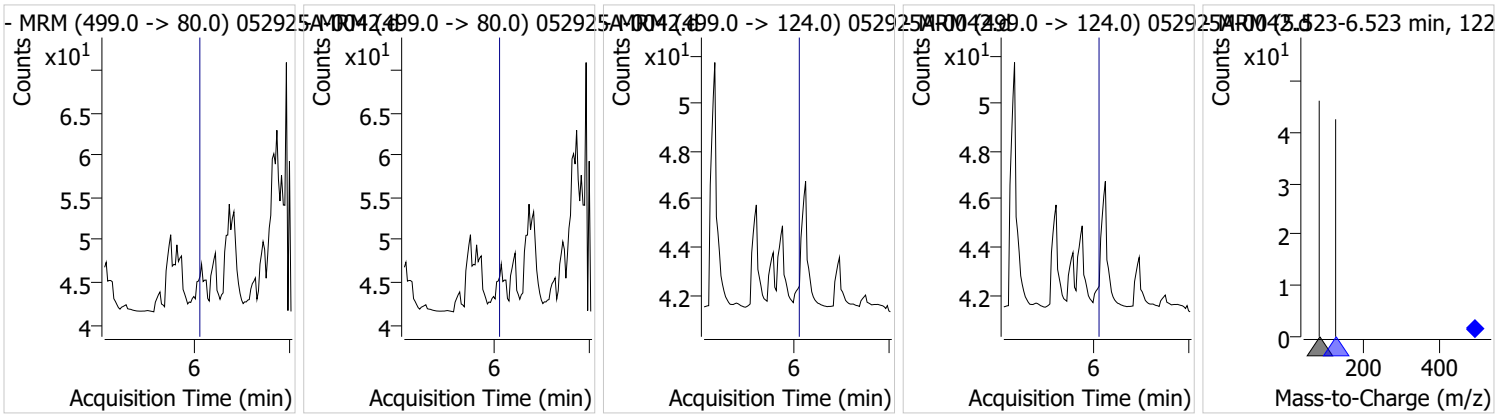
18O2-PFHxS_ISTD



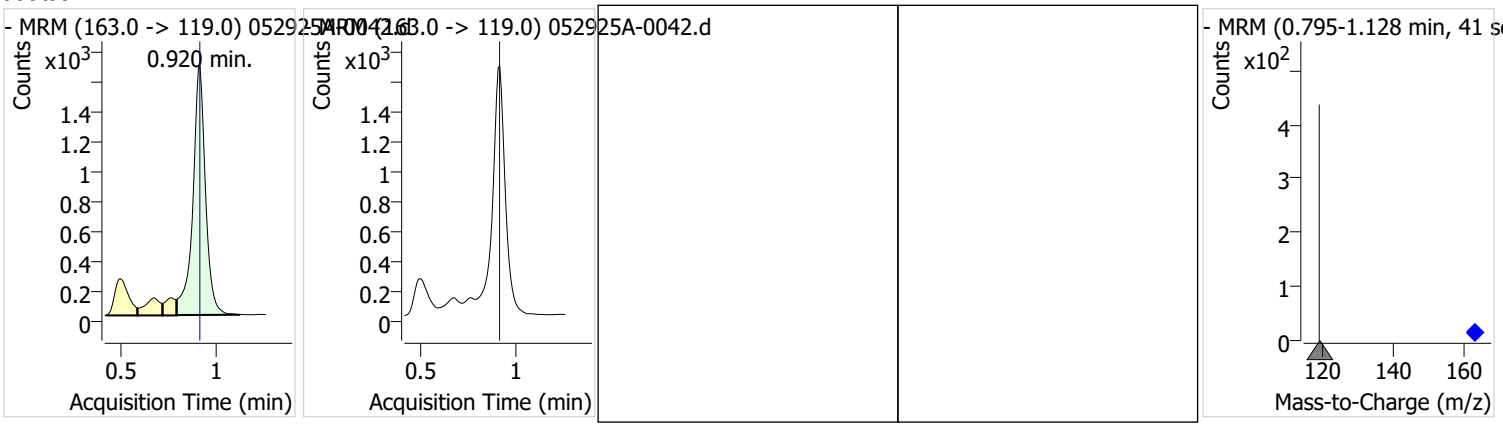
PFDoS



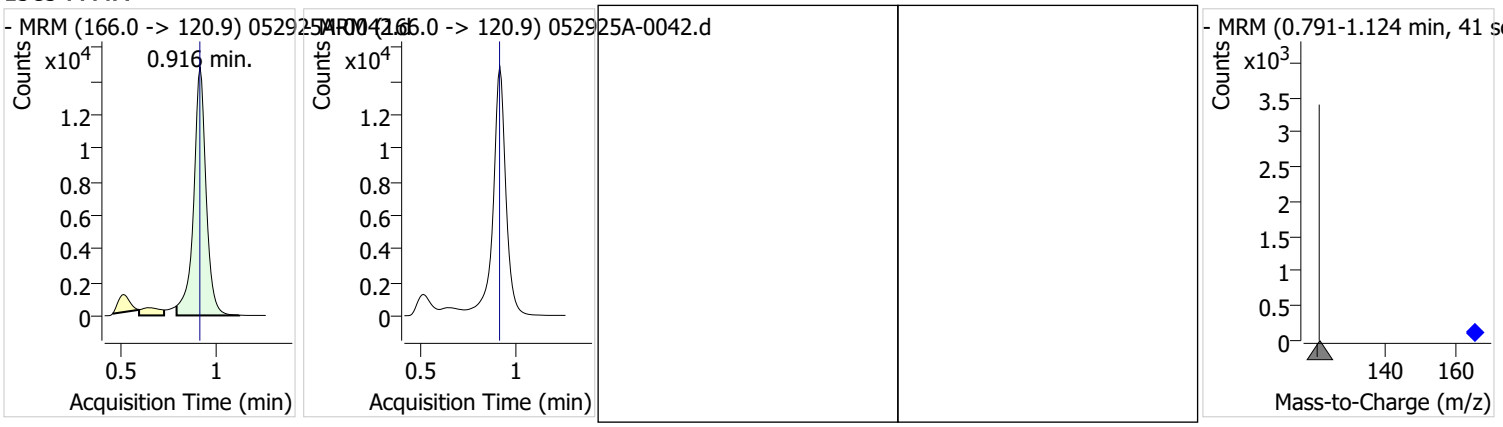
TDCA



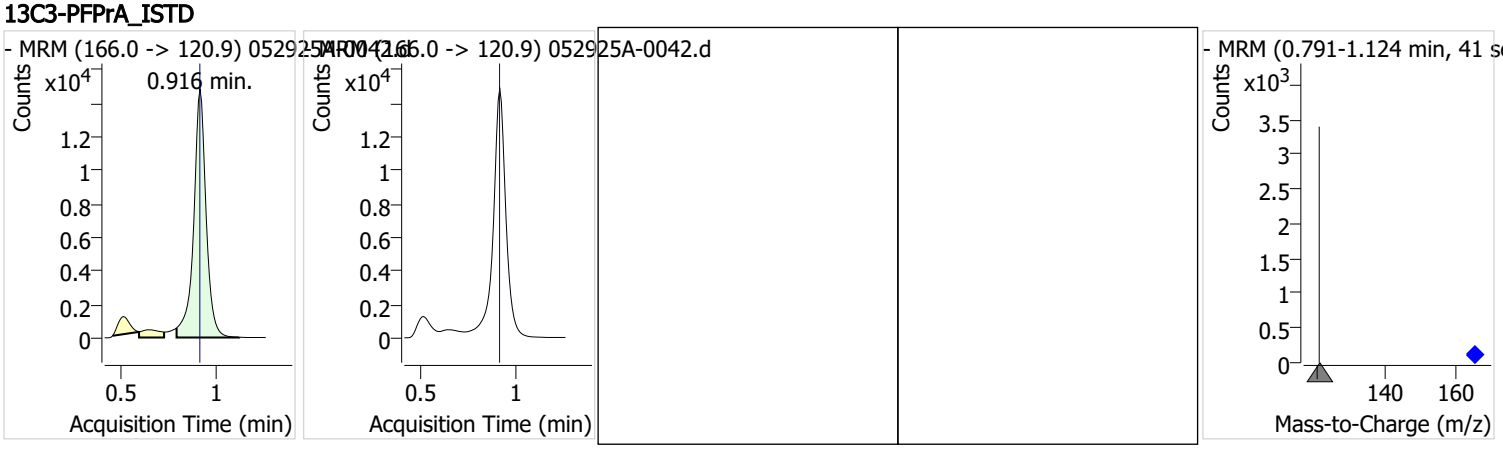
PFPrA



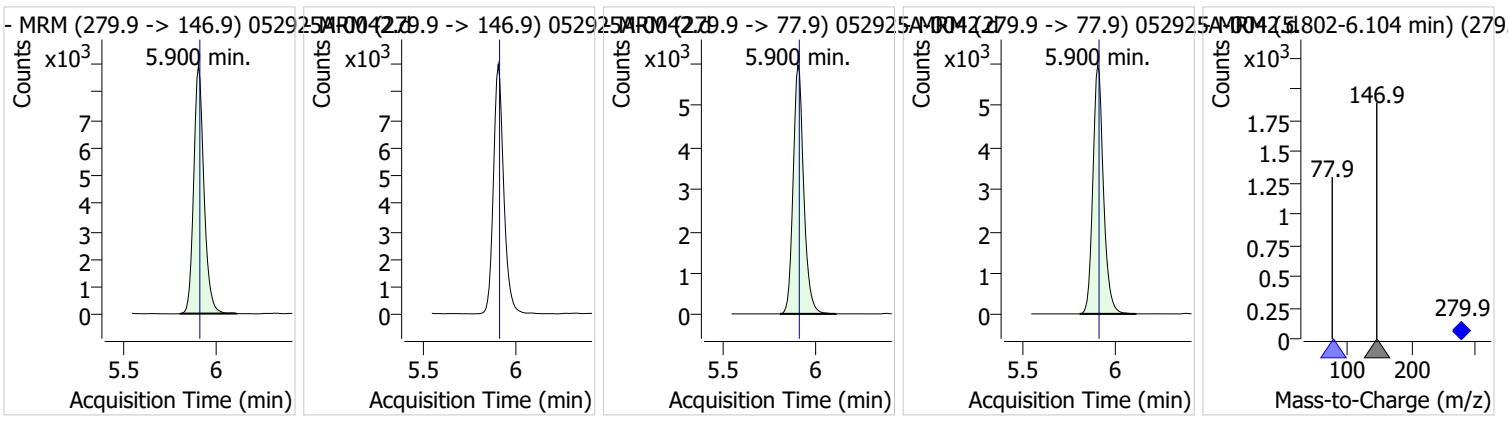
13C3-PFPrA



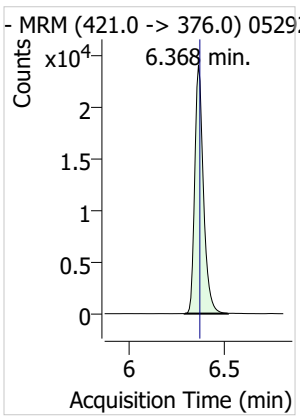
13C3-PFPrA_ISTD

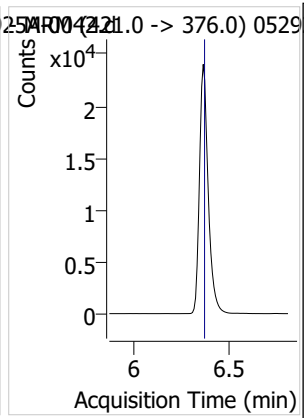


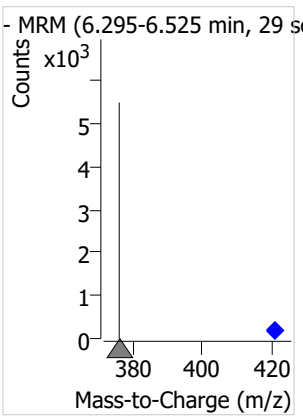
TFSI



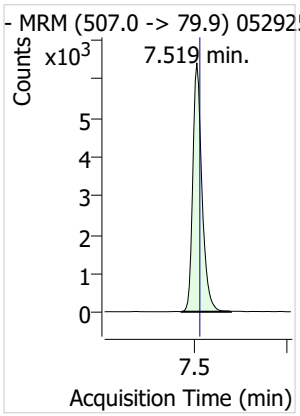
13C8-PFOA

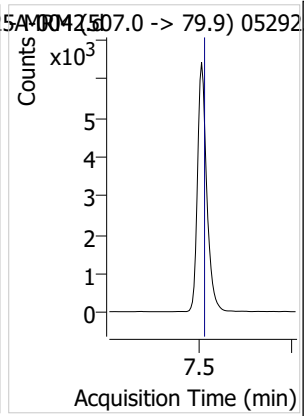


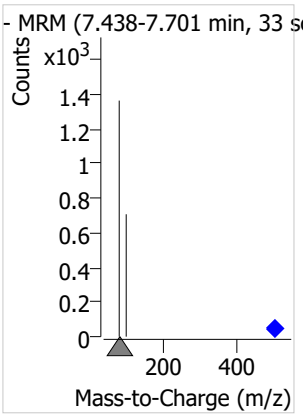




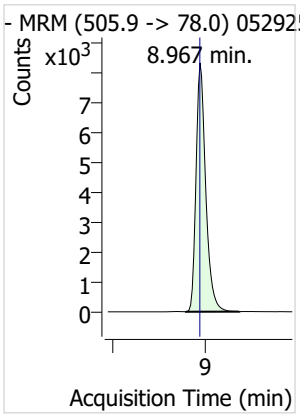
13C8-PFOS

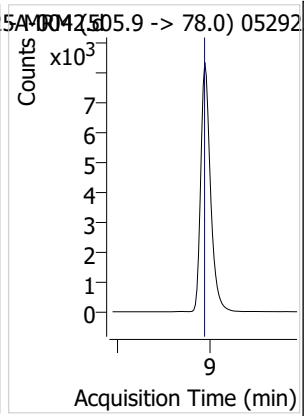


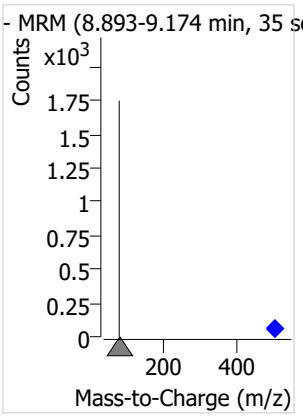




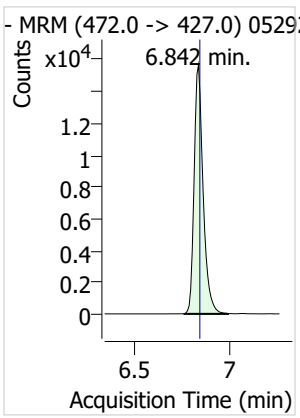
13C8-PFOSA

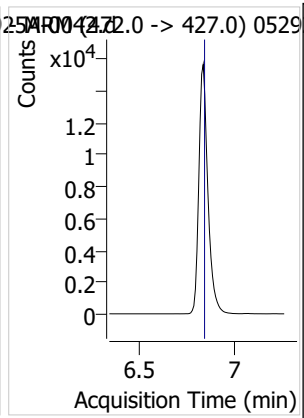


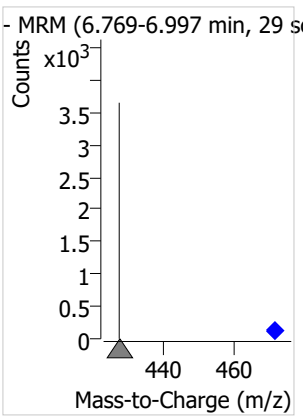




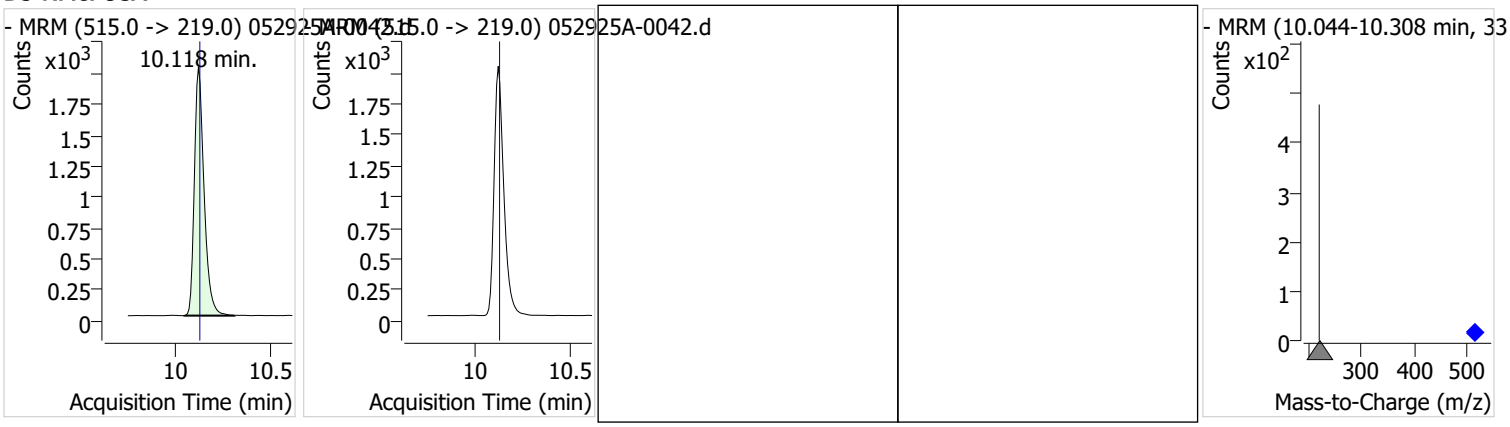
13C9-PFNA



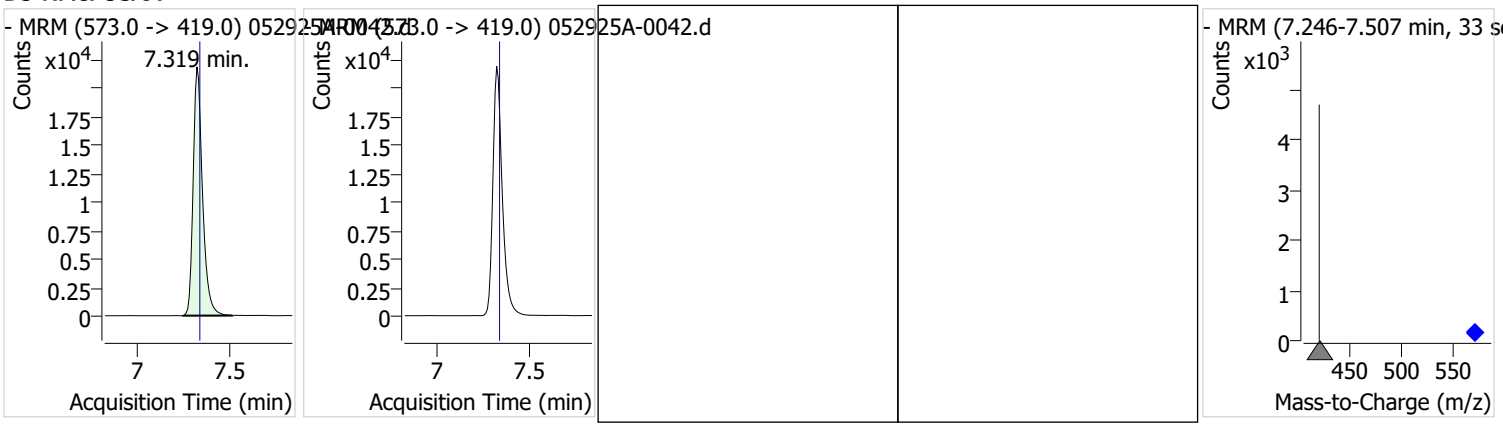




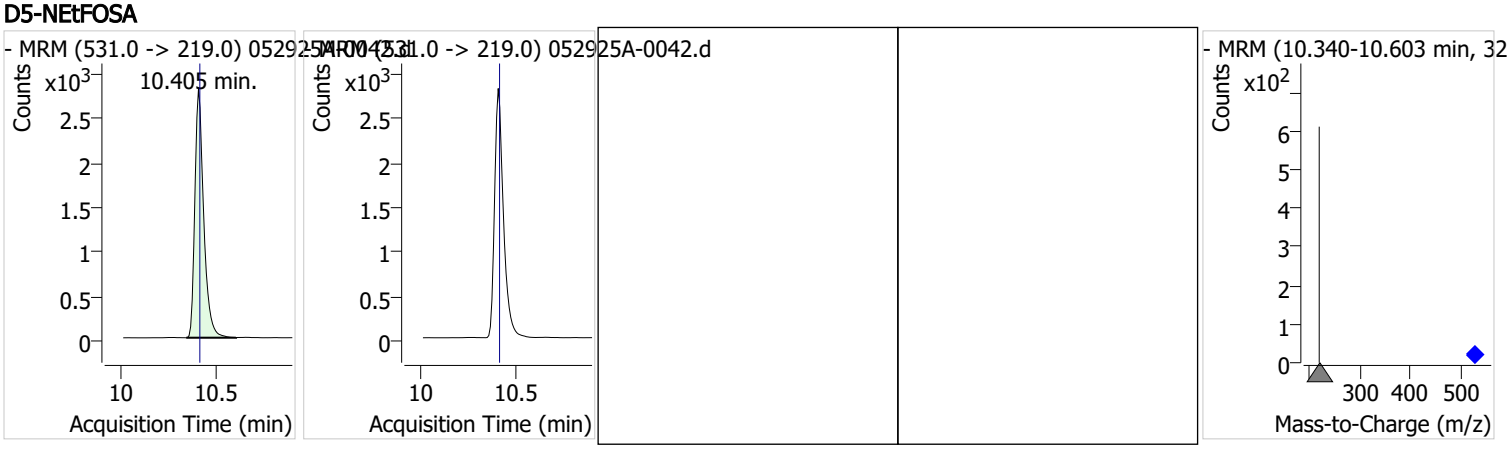
D3-NMeFOSA



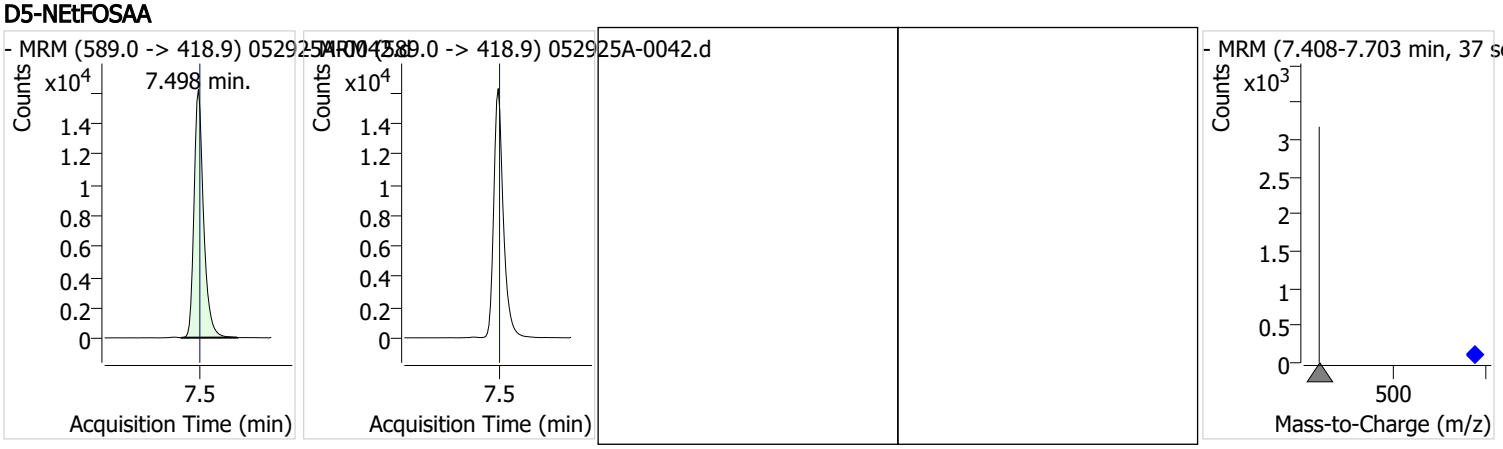
D3-NMeFOSAA



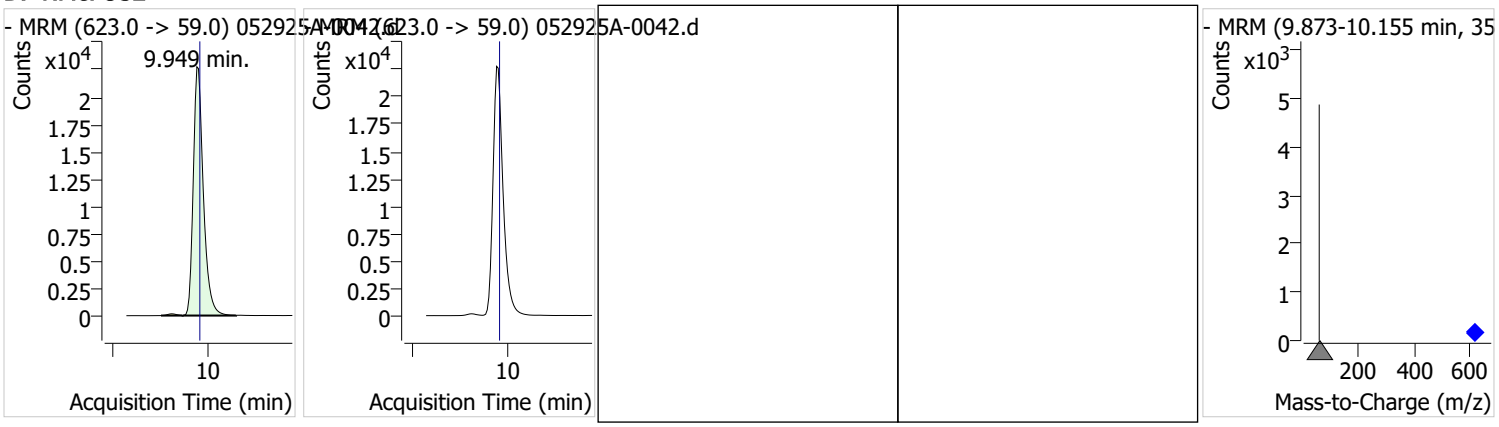
D5-NEtFOSA



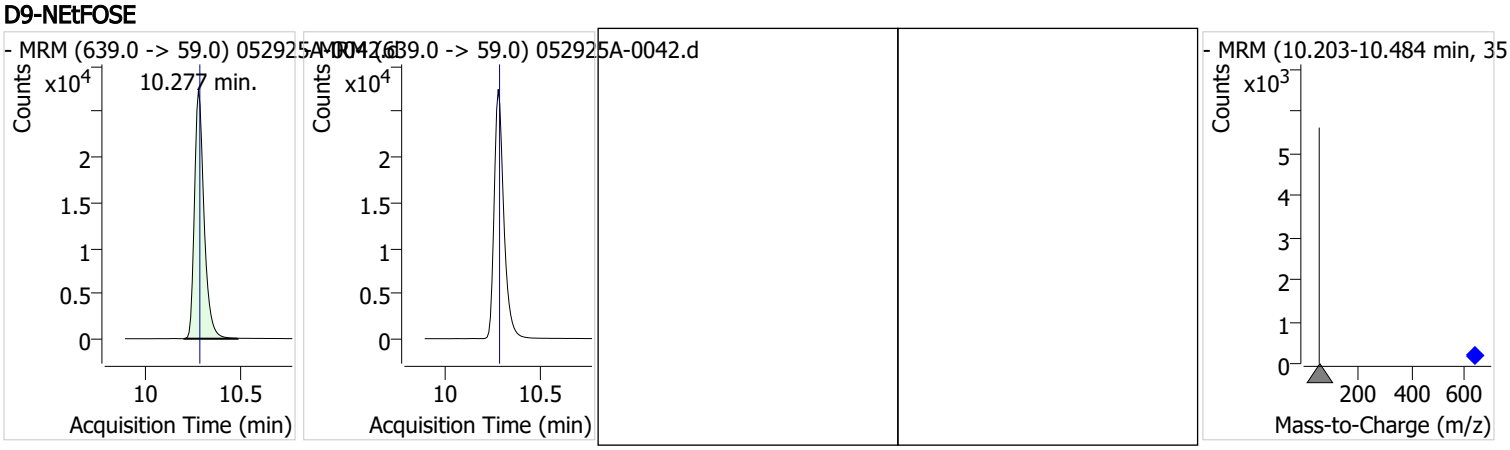
D5-NEtFOSAA



D7-NMeFOSE

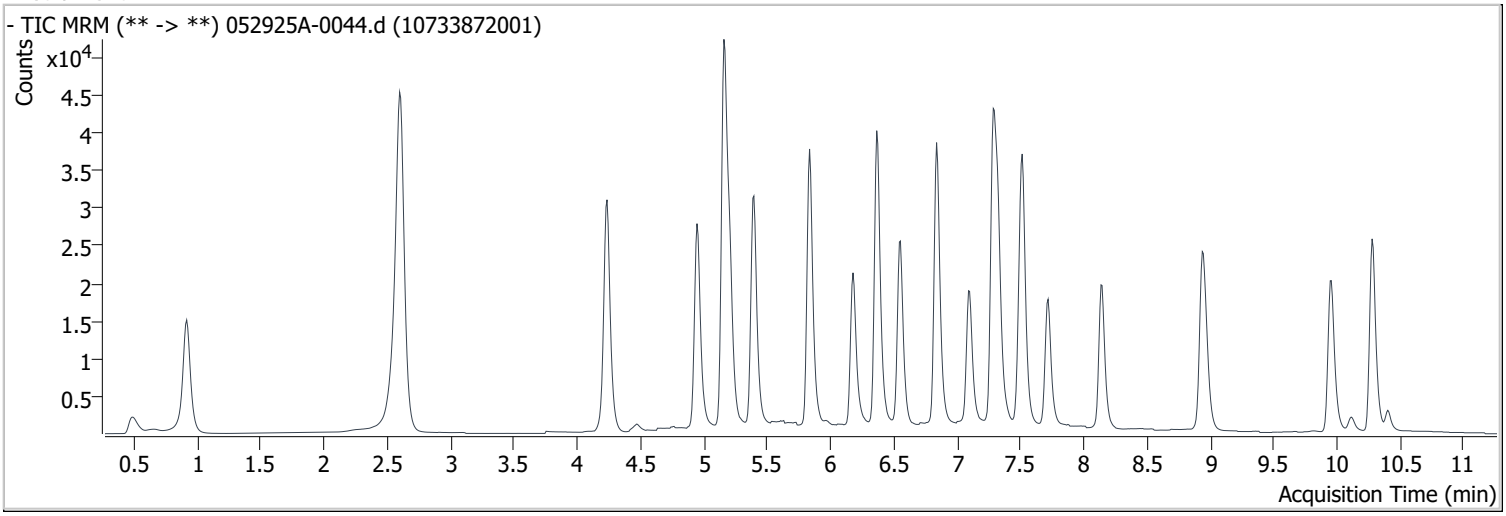


D9-NEtFOSE



Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 8:17 PM	**Data File**	052925A-0044.d
Sample Type	Sample	**Sample Name**	10733872001
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.402	66233	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	27252	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	18902	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	112143	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.092	17655	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.597	154533	7583.20		13C3-PFBA_ISTD	2.600	88084	7.2082	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.520	21828	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.520	21828	-	ng/ml			
633.0 -> 453.0				*								
PFHpS	7.064	0	0.00		13C8-PFOS_ISTD	7.520	21828	-	ng/ml	✔	INT	MJL 5/30/25
449.0 -> 98.8	7.064	0		*								
13C2-4:2FTS	4.946	27252	3982.33		18O2-PFHxS_ISTD	6.559	34898	4.5350	ng/ml			
13C2-6:2FTS	6.180	18902	1625.59		18O2-PFHxS_ISTD	6.559	34898	4.1748	ng/ml			
13C2-8:2FTS	7.092	17655	5160.05		18O2-PFHxS_ISTD	6.559	34898	3.8849	ng/ml			
13C2-PFDoA	8.138	64995	3571.05		13C2-PFDA_ISTD	7.290	71735	0.7252	ng/ml			
13C2-PFDA	7.290	71735	244174.70					1.4755	ng/ml			
13C2-PFHxA	5.162	88982	4868.92					2.8869	ng/ml			
13C2-PFTeDA	8.936	68720	2721.68		13C2-PFDA_ISTD	7.290	71735	0.6824	ng/ml			
13C4-PFOS	7.520	33652	43022.24					3.0529	ng/ml			
13C3-HFPODA	5.402	66233	19447.06		13C2-PFHxA_ISTD	5.162	88982	6.9667	ng/ml			
13C3-PFBS	5.213	38394	190744.92		18O2-PFHxS_ISTD	6.559	34898	1.6114	ng/ml			
13C3-PFHxS	6.551	27354	3930.27		18O2-PFHxS_ISTD	6.559	34898	1.6955	ng/ml			

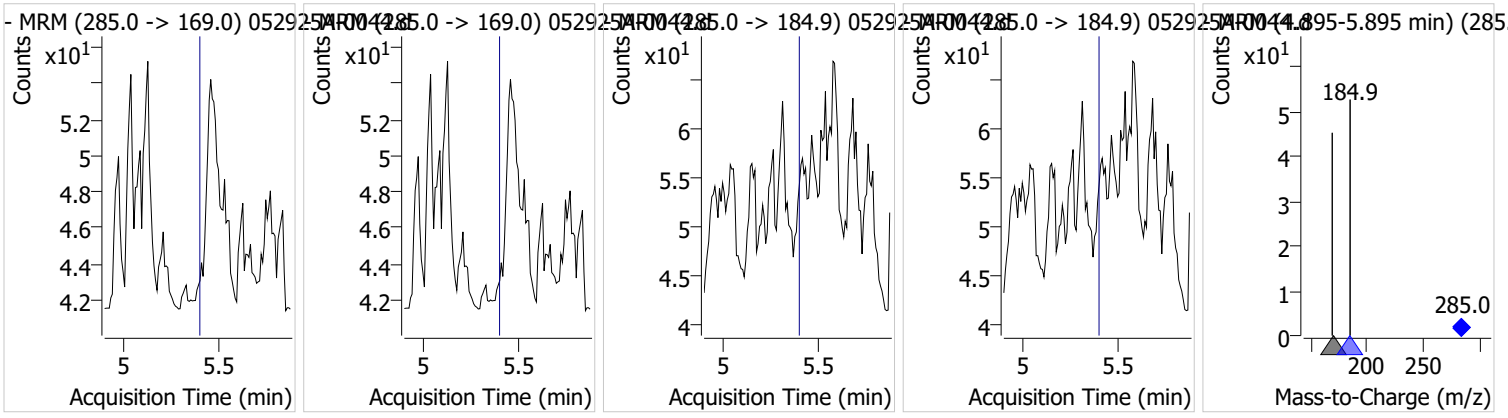
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	49811	-	ng/ml			
584.0 -> 526.0				*								
13C4-PFHpA	5.839	112143	6489.96		13C2-PFHxA_ISTD	5.162	88982	1.7747	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.319	68401	-	ng/ml			
570.0 -> 483.0				*								
PFBA	2.603	2883	81.22		13C4-PFBA_ISTD	2.597	154533	0.1872	ng/ml			
13C5-PFHxA	5.161	67340	82010.96		13C2-PFHxA_ISTD	5.162	88982	1.7048	ng/ml			
PFBS	5.205	4268	1059.48		13C3-PFBS_ISTD	5.213	38394	0.2108	ng/ml			
298.9 -> 98.8	5.213	1472	97.59	34.5								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	6486	-	ng/ml			
512.0 -> 169.0				*								
PFDA	7.208	0	0.00		13C6-PFDA_ISTD	7.289	54643	-	ng/ml	✔	INT	MJL 5/30/25
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.138	64995	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	7971	-	ng/ml			
526.0 -> 169.0				*								
PFHpA	5.839	5031	114.06		13C4-PFHpA_ISTD	5.839	112143	0.1000	ng/ml			
362.9 -> 169.0	5.839	782	646.01	15.6								
PFHxA	5.163	6468	236.36		13C5-PFHxA_ISTD	5.161	67340	0.2059	ng/ml			
313.0 -> 118.9	5.171	195	102.51	3.0								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	74000	-	ng/ml			
PFHxS	6.498	4908	670.28		13C3-PFHxS_ISTD	6.551	27354	0.3551	ng/ml			
398.9 -> 99.0	6.498	2461	228.81	50.1								
PFNA					13C9-PFNA_ISTD	6.842	49399	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	88927	-	ng/ml			
PFOA	6.300	24152	629.57		13C8-PFOA_ISTD	6.368	73904	0.6919	ng/ml			
413.0 -> 169.0	6.300	6811	1076.37	28.2								
PFOS	7.399	4073	131.94		13C8-PFOS_ISTD	7.520	21828	0.3157	ng/ml			
499.0 -> 99.0	7.402	1291	67.23	31.7								
PFPeA	4.239	4245	49.58		13C5-PFPeA_ISTD	4.237	110612	0.1705	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.597	154533	-	ng/ml			
13C5-PFPeA	4.237	110612	8503.44		13C2-PFHxA_ISTD	5.162	88982	3.5100	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	110612	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.138	64995	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	67340	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	54643	91623.04		13C2-PFDA_ISTD	7.290	71735	0.8090	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	67340	-	ng/ml			
295.0 -> 85.0				*								
PFOSA	8.899	421	5310.62		13C8-PFOSA_ISTD	8.967	29343	0.0326	ng/ml			
497.9 -> 478.0	8.902	47	400.26	***11.2**								
13C7-PFUnA	7.721	56277	69676.59		13C2-PFDA_ISTD	7.290	71735	0.7460	ng/ml			
13C4-PFOA	6.369	24475	135947.17					2.9601	ng/ml			
PFDS					13C8-PFOS_ISTD	7.520	21828	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.520	21828	-	ng/ml			
549.0 -> 98.8				*								

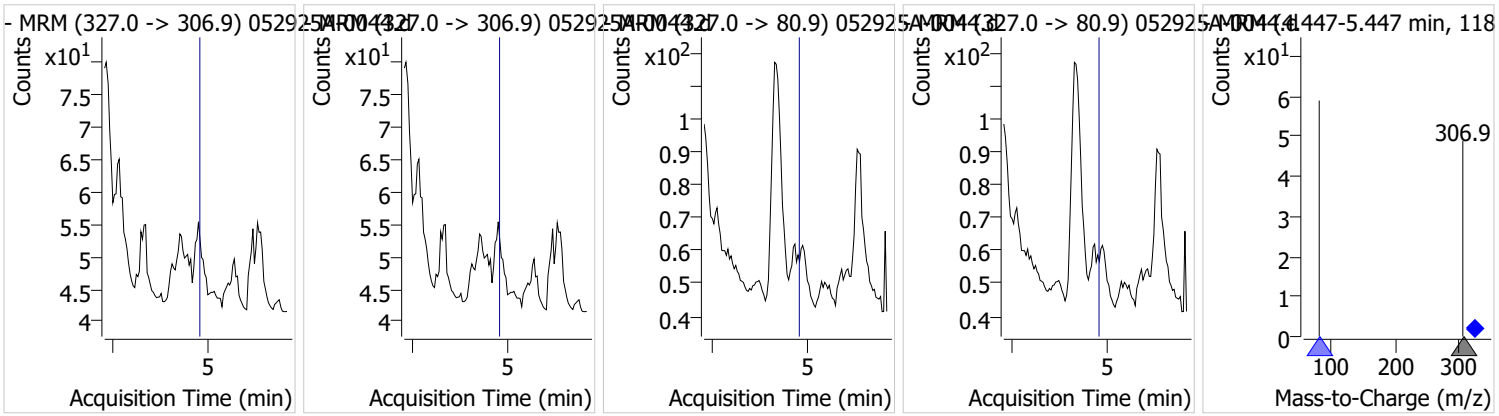
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFPeS	5.971	1072	113.79		13C3-PFHxS_ISTD	6.551	27354	0.0625	ng/ml			
349.0 -> 98.9	5.979	575	27.04	53.7								
PFTeDA					13C2-PFTeDA_ISTD	8.936	68720	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	56277	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.600	88084	1686.47					5.8002	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	110612	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	67340	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	49399	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	71578	21686.08					1.5135	ng/ml			
18O2-PFHxS	6.559	34898	10510.28					3.0722	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.520	21828	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.520	21828	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	891	77.36		13C3-PFPrA_ISTD	0.916	67464	0.1503	ng/ml			
13C3-PFPrA	0.916	67464	16689.65		13C3-PFBA_ISTD	2.600	88084	7.0799	ng/ml			
TFSI	5.908	390	27.59		13C3-HFPODA_ISTD	5.402	66233	0.0434	ng/ml			
279.9 -> 77.9	5.908	340	903.36	*87.2								
13C8-PFOA	6.368	73904	5499.33		13C4-PFOA_ISTD	6.369	24475	1.6117	ng/ml			
13C8-PFOS	7.520	21828	6495.78		13C4-PFOS_ISTD	7.520	33652	1.6585	ng/ml			
13C8-PFOSA	8.967	29343	8308.65		13C4-PFOS_ISTD	7.520	33652	1.5505	ng/ml			
13C9-PFNA	6.842	49399	15179.13		13C5-PFNA_ISTD	6.842	71578	0.7811	ng/ml			
D3-NMeFOSA	10.118	6486	1795.14		13C4-PFOS_ISTD	7.520	33652	1.0757	ng/ml			
D3-NMeFOSAA	7.319	68401	19708.42		13C4-PFOS_ISTD	7.520	33652	3.2679	ng/ml			
D5-NEtFOSA	10.405	7971	2925.73		13C4-PFOS_ISTD	7.520	33652	1.0998	ng/ml			
D5-NEtFOSAA	7.498	49811	14248.59		13C4-PFOS_ISTD	7.520	33652	3.1335	ng/ml			
D7-NMeFOSE	9.957	74000	10475.05		13C4-PFOS_ISTD	7.520	33652	12.7840	ng/ml			
D9-NEtFOSE	10.277	88927	3319.77		13C4-PFOS_ISTD	7.520	33652	13.8351	ng/ml			

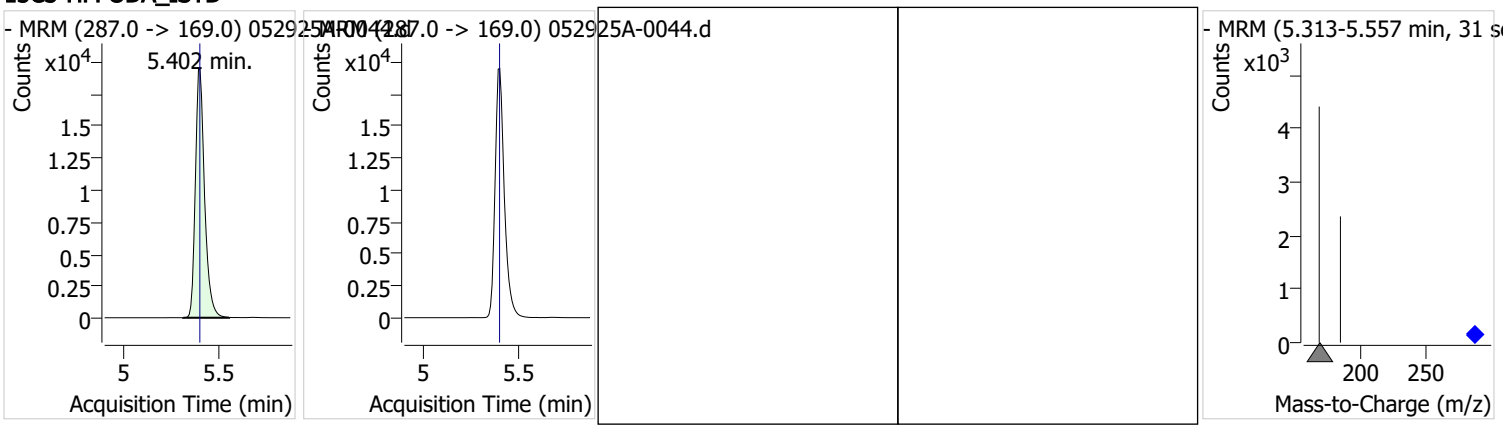
HFPO-DA



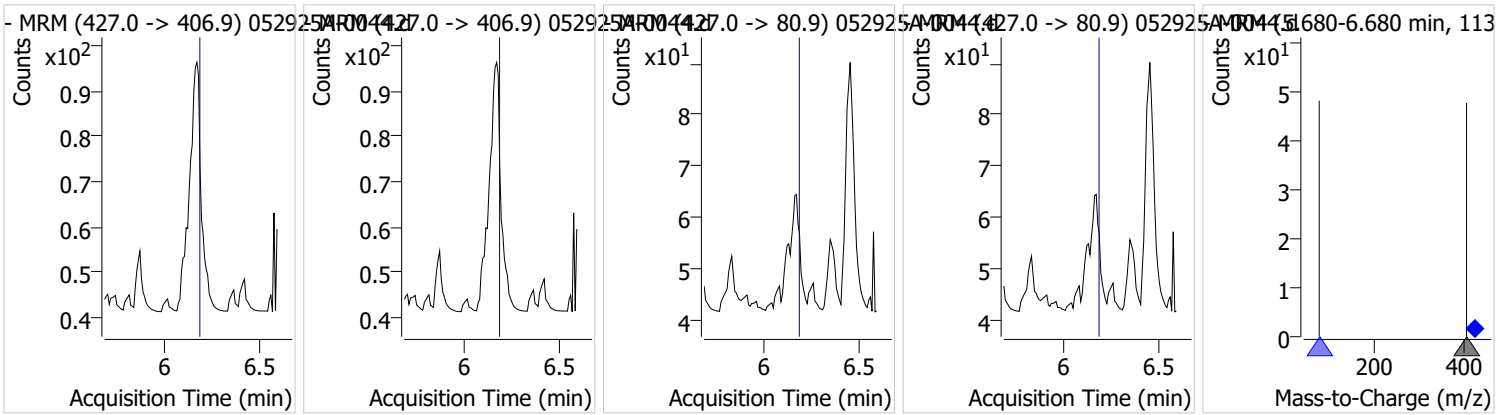
4:2FTS



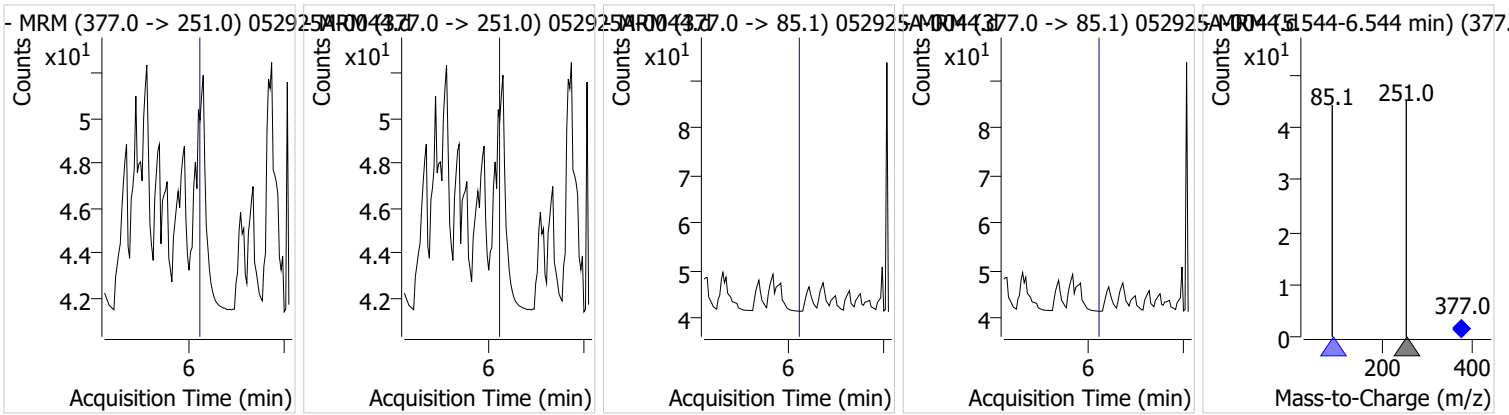
13C3-HFPODA_ISTD



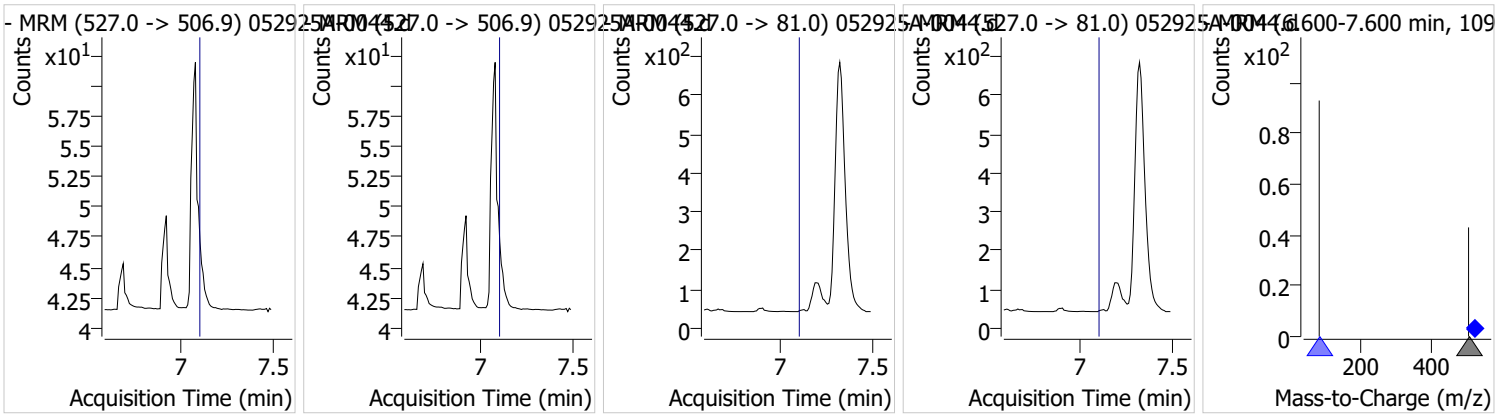
6:2FTS



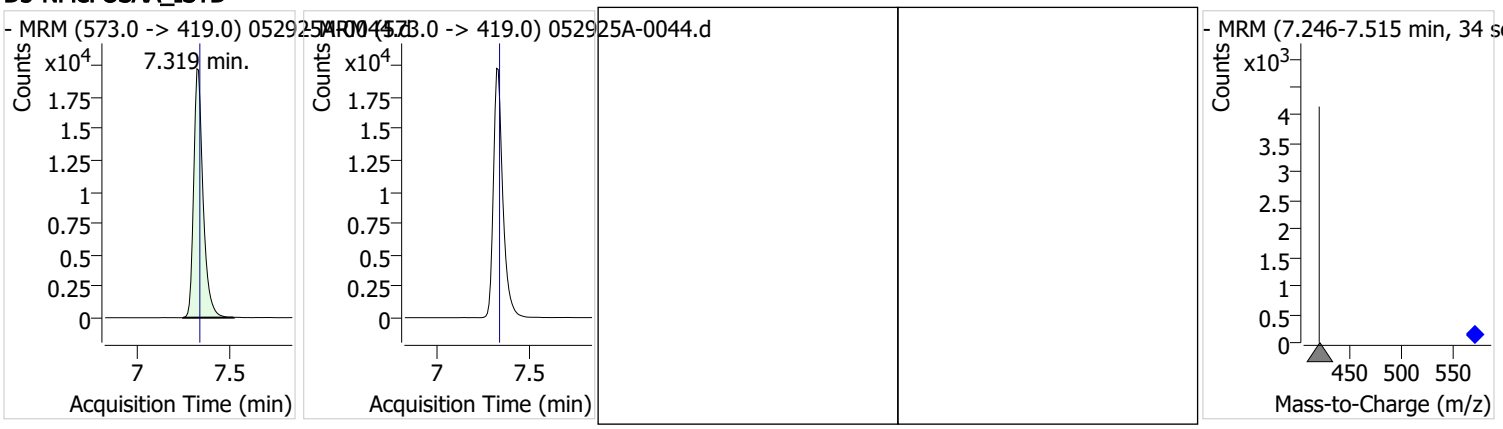
ADONA



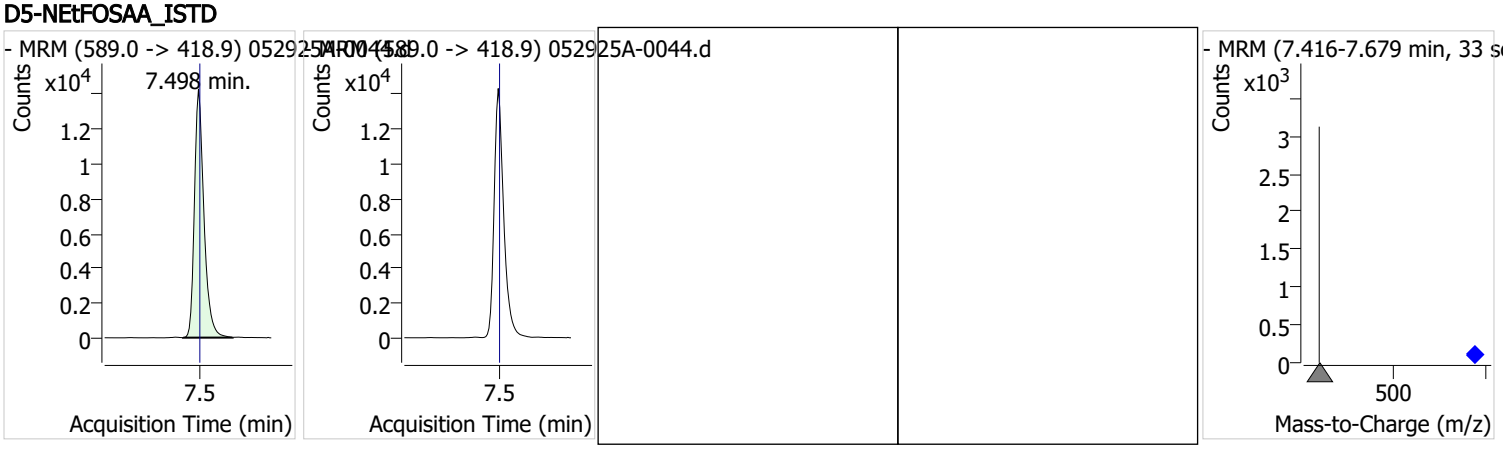
8:2FTS



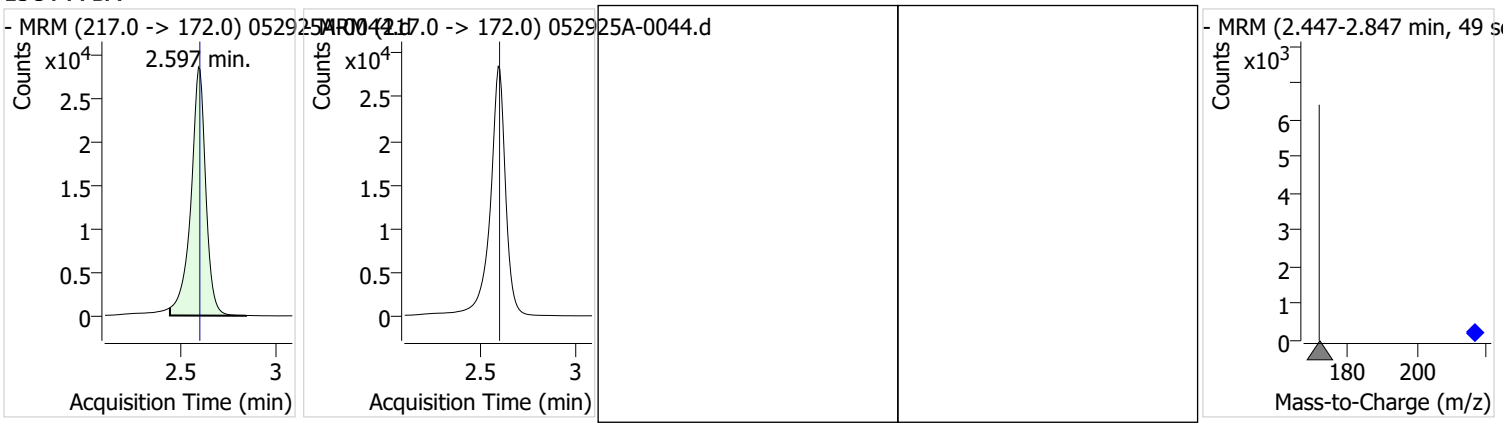
D3-NMeFOSAA_ISTD



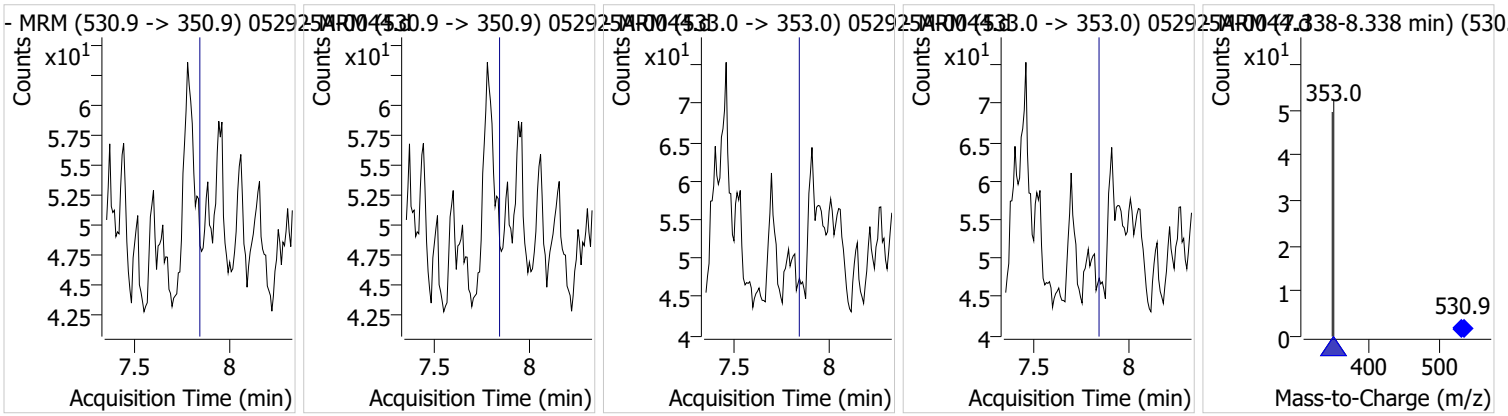
D5-NEtFOSAA_ISTD



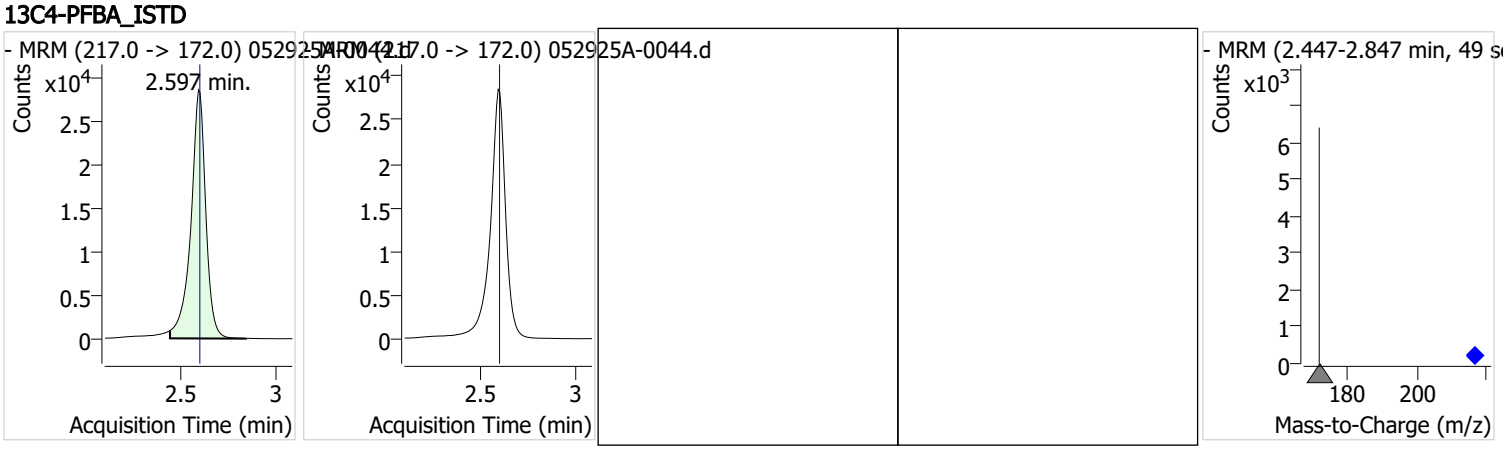
13C4-PFBA



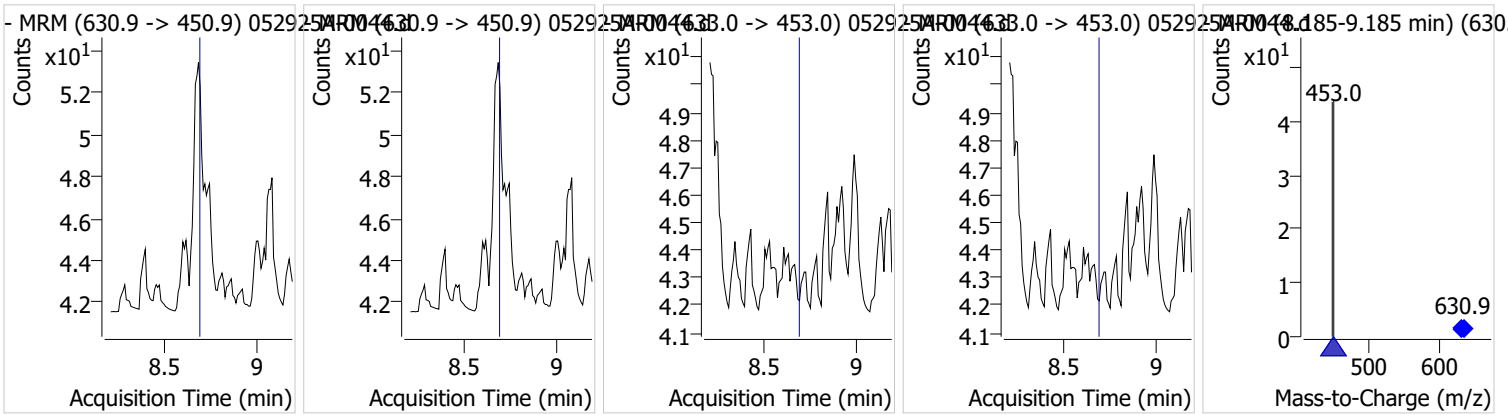
9Cl-PF3ONS



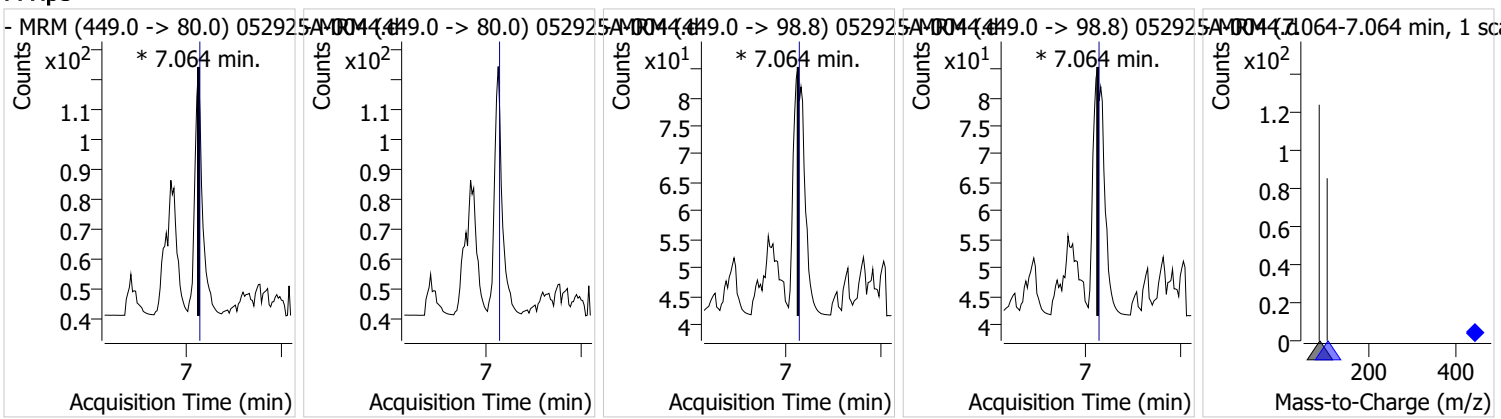
13C4-PFBA_ISTD



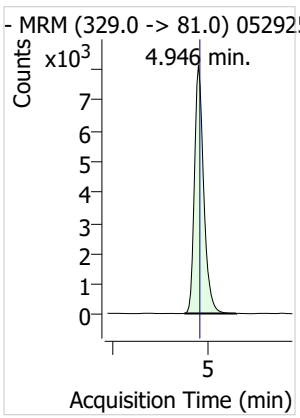
11Cl-PF3OUdS

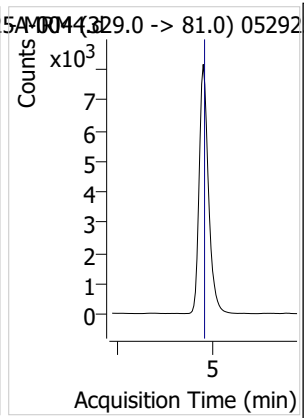


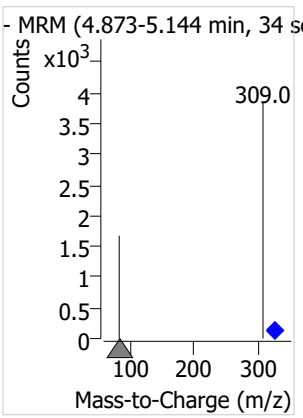
PFHpS



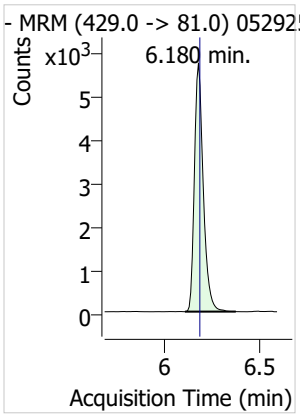
13C2-4:2FTS

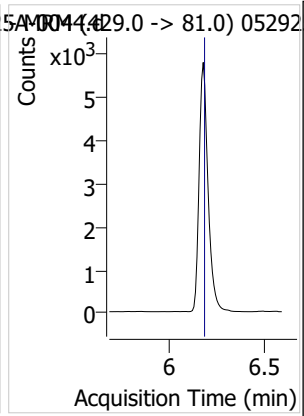


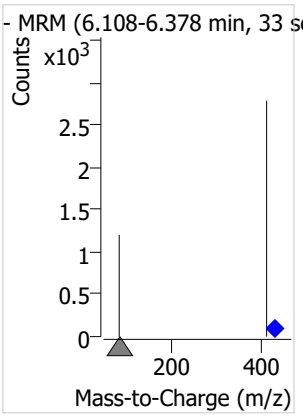




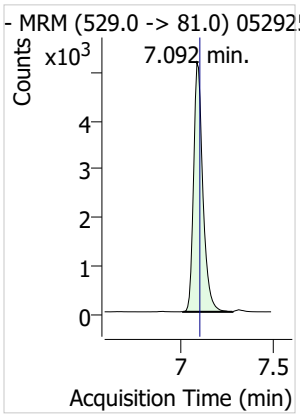
13C2-6:2FTS

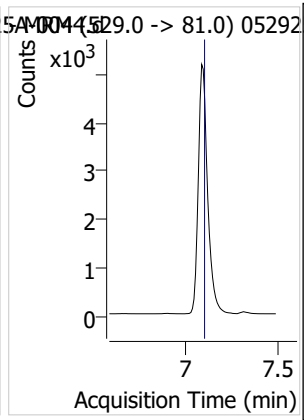


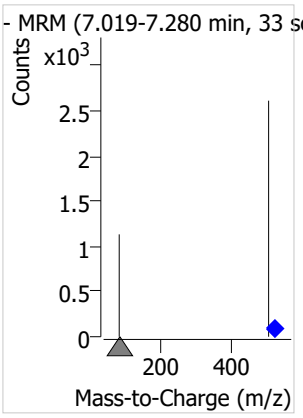




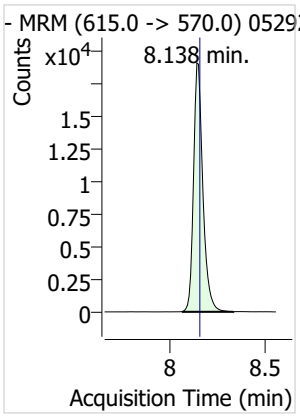
13C2-8:2FTS

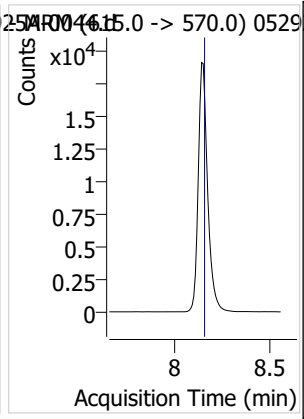


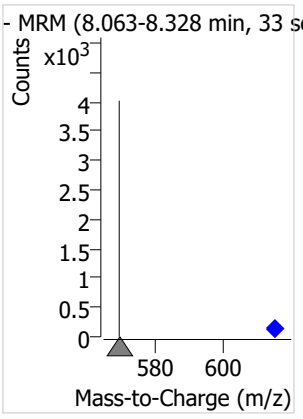




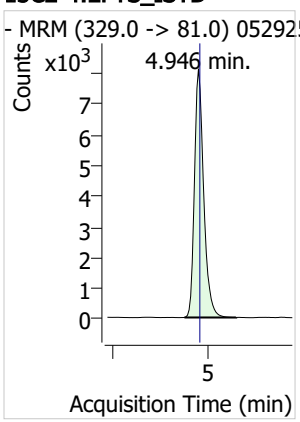
13C2-PFDoA

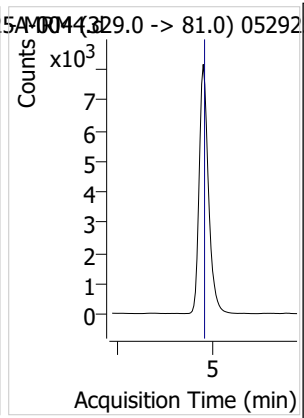


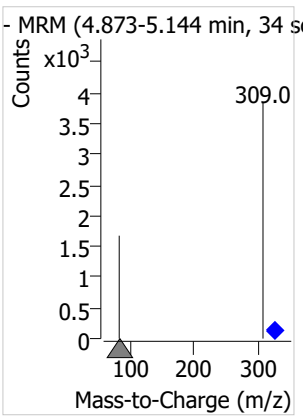




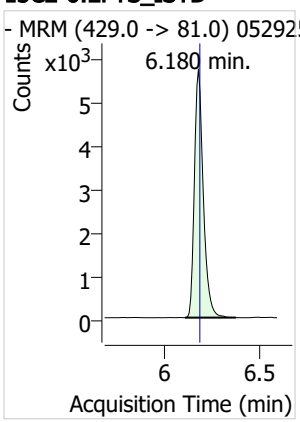
13C2-4:2FTS_ISTD

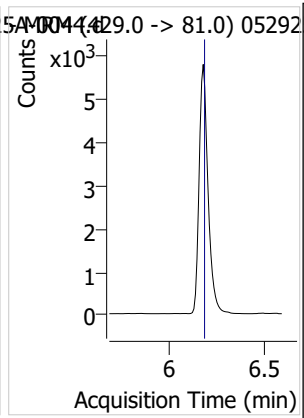


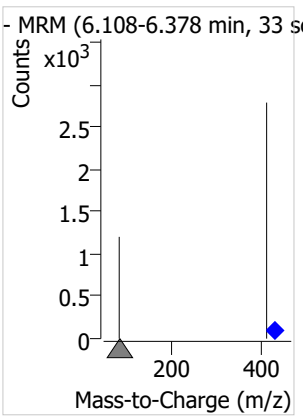




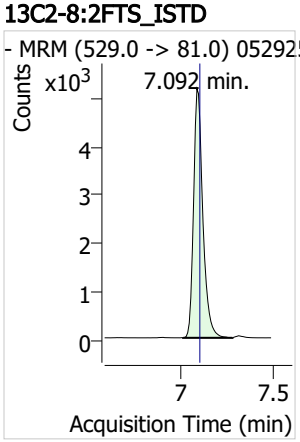
13C2-6:2FTS_ISTD

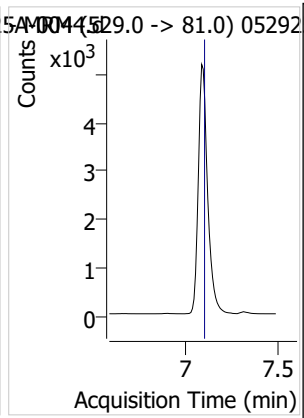


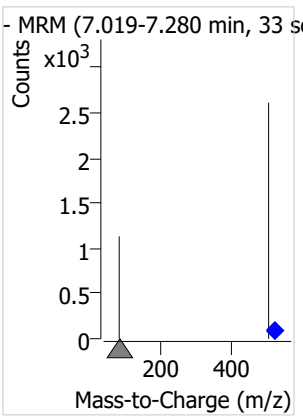




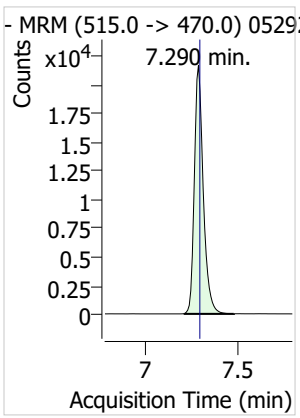
13C2-8:2FTS_ISTD

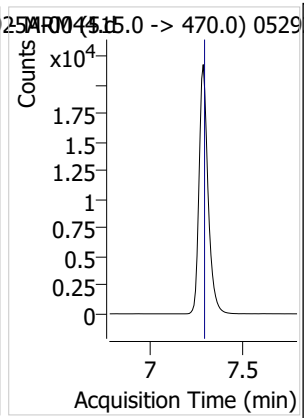


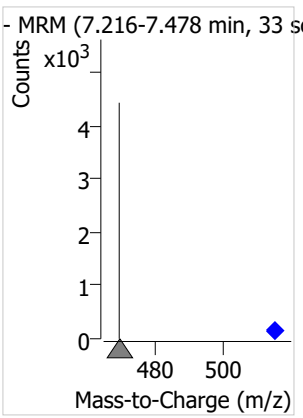




13C2-PFDA



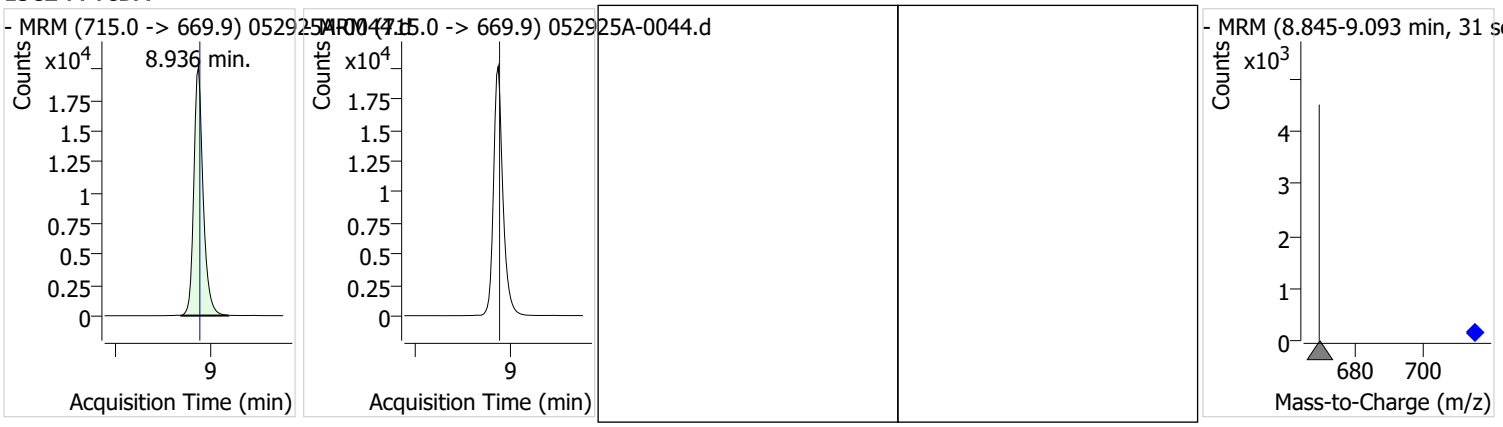




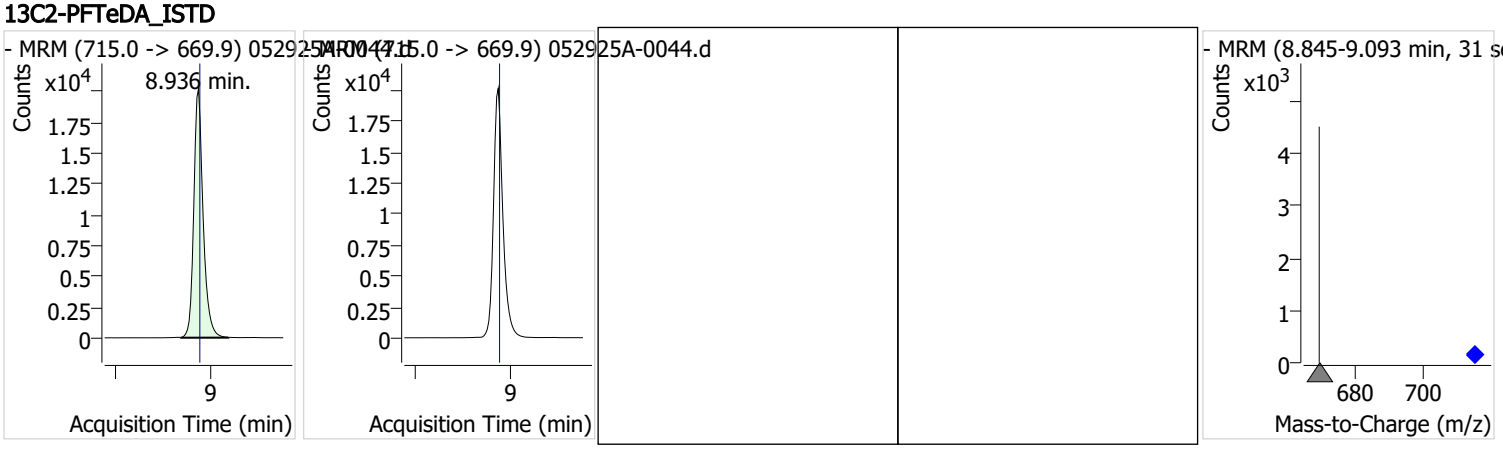
13C2-PFHxA



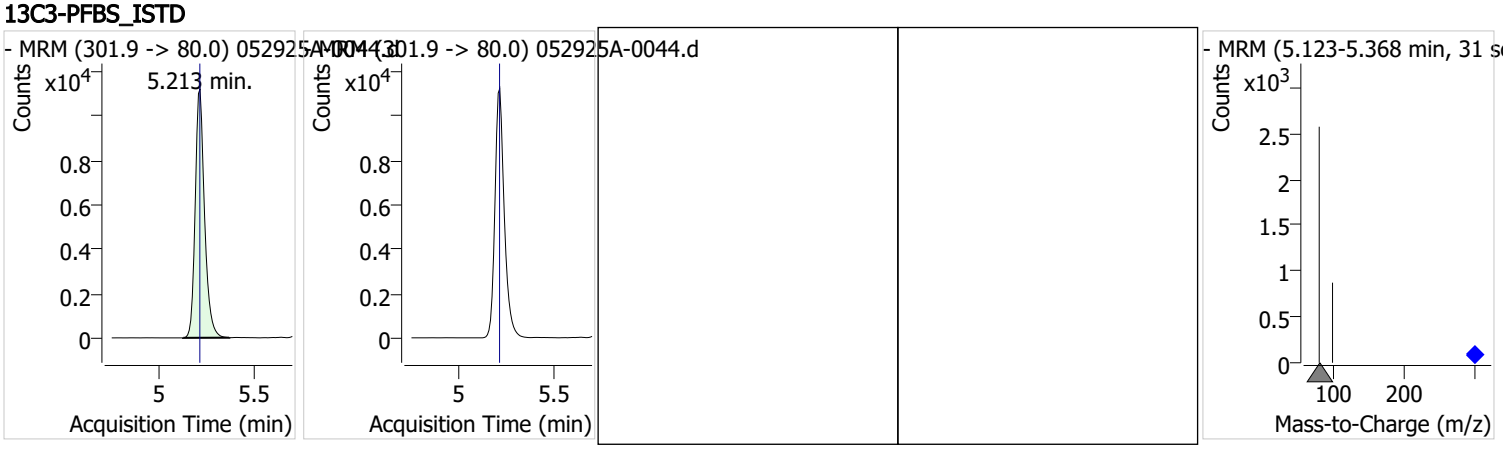
13C2-PFTeDA



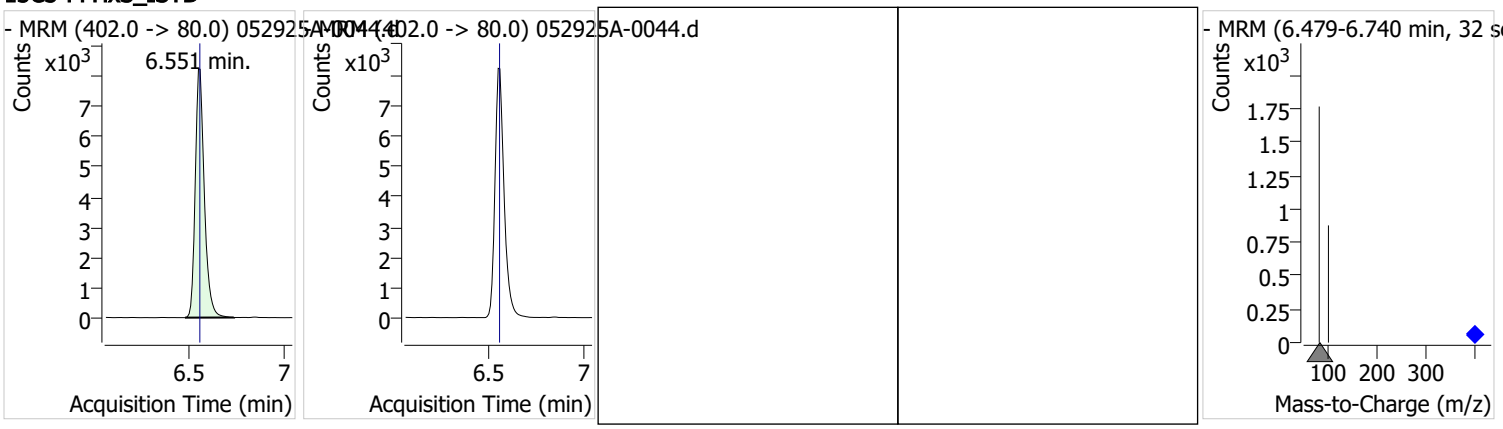
13C2-PFTeDA_ISTD



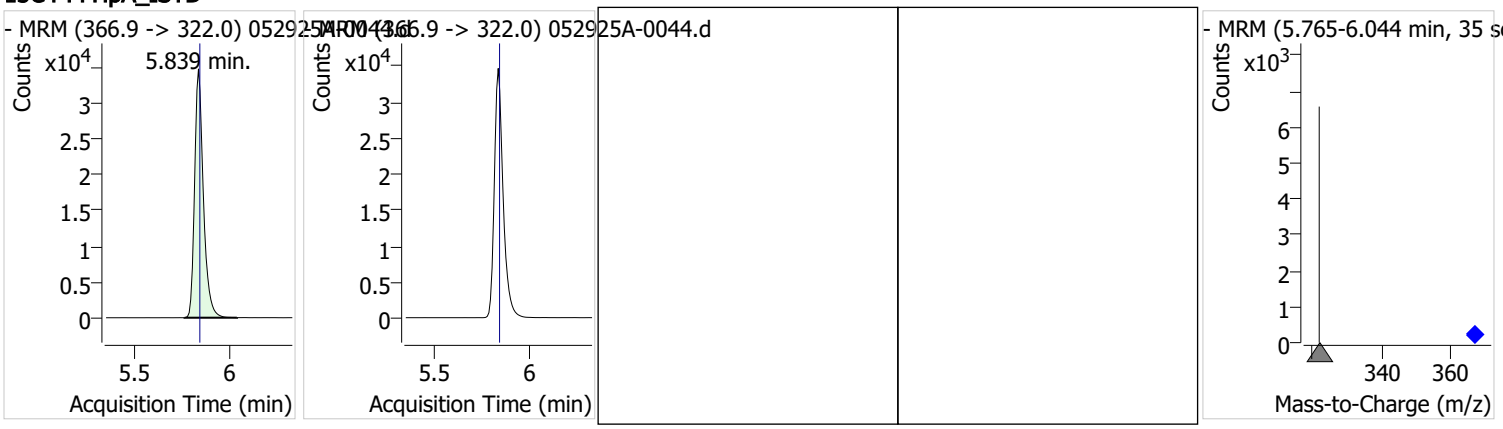
13C3-PFBS_ISTD



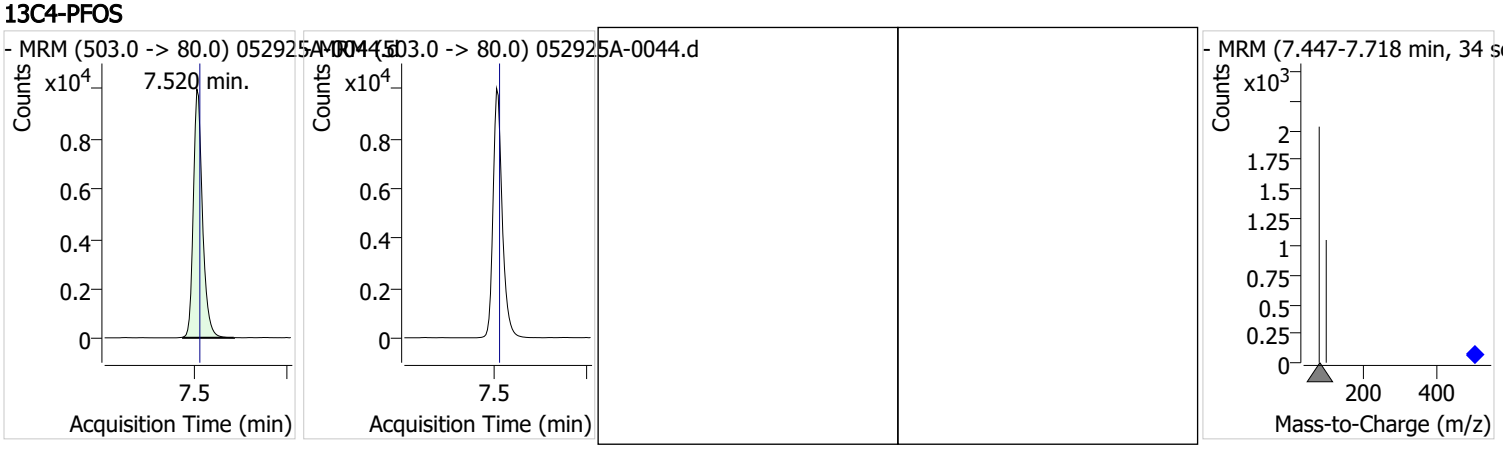
13C3-PFHxS_ISTD



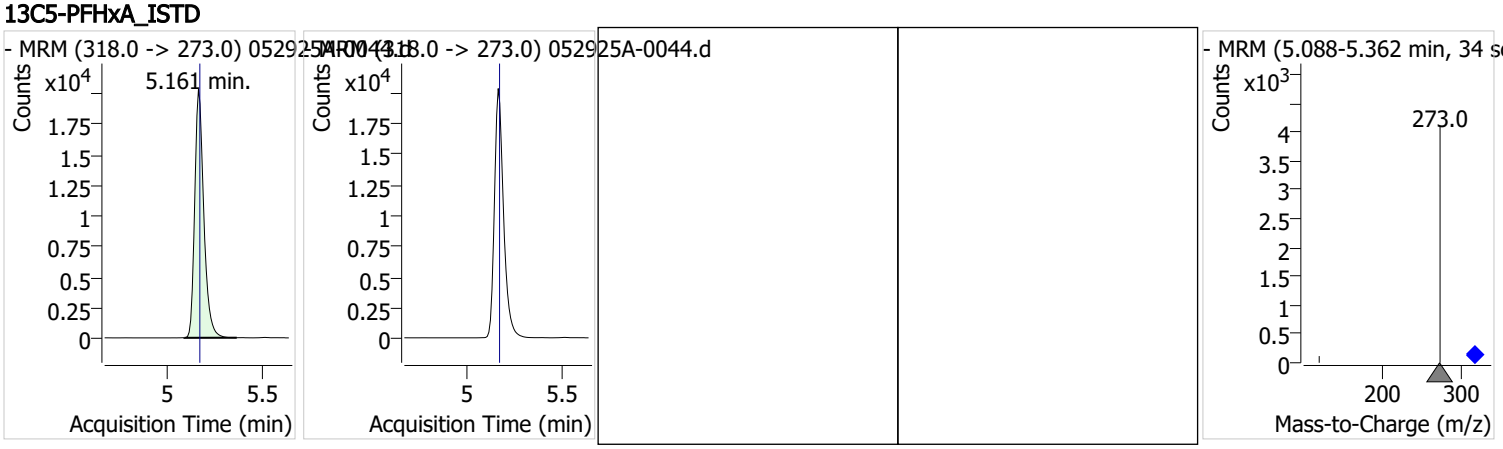
13C4-PFHpA_ISTD



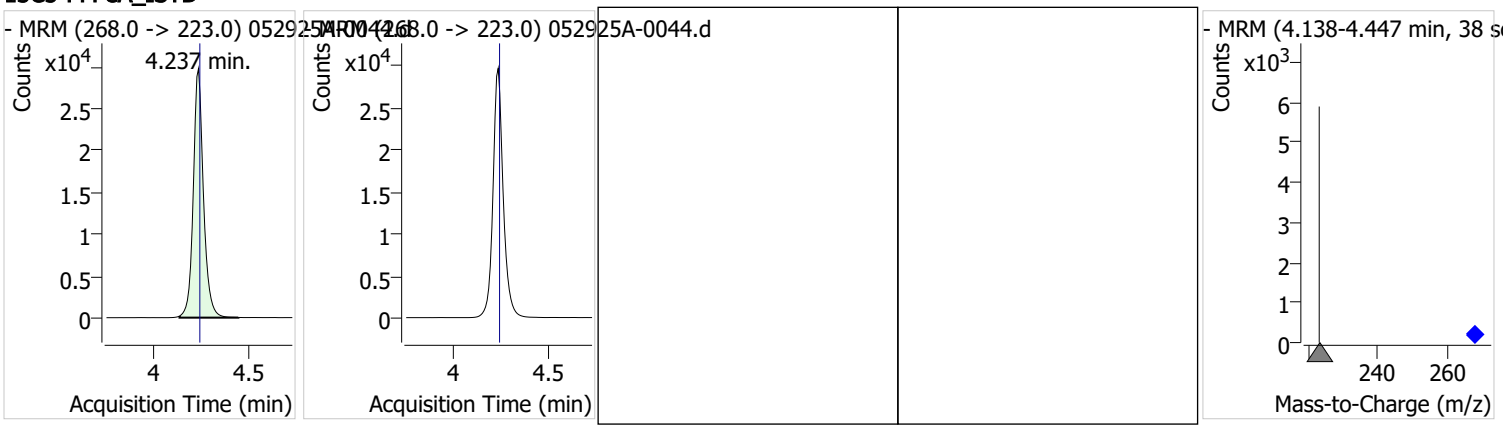
13C4-PFOS



13C5-PFHxA_ISTD



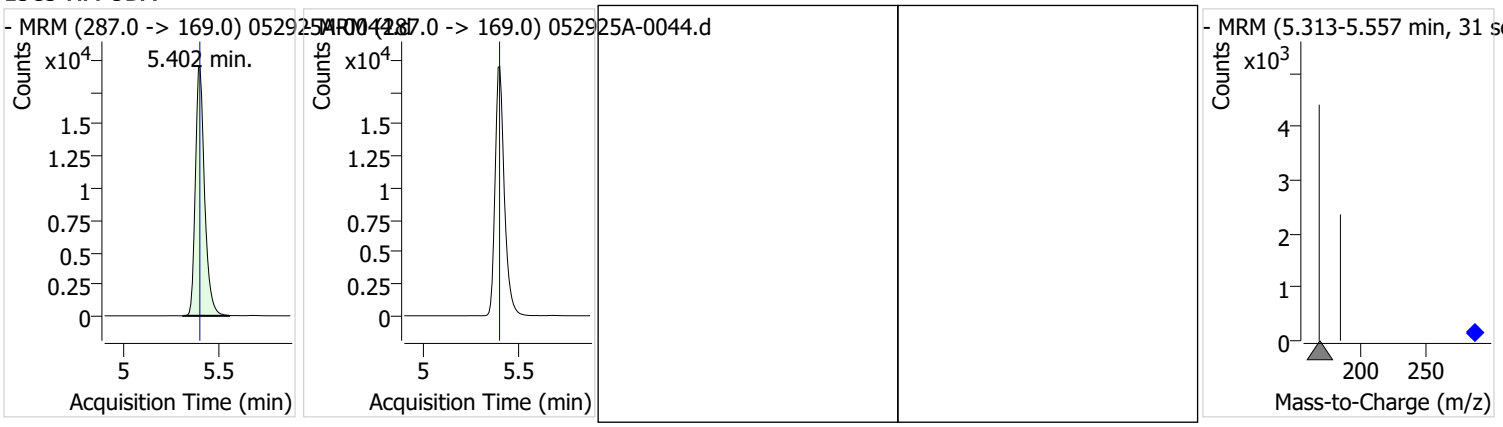
13C5-PFPeA_ISTD



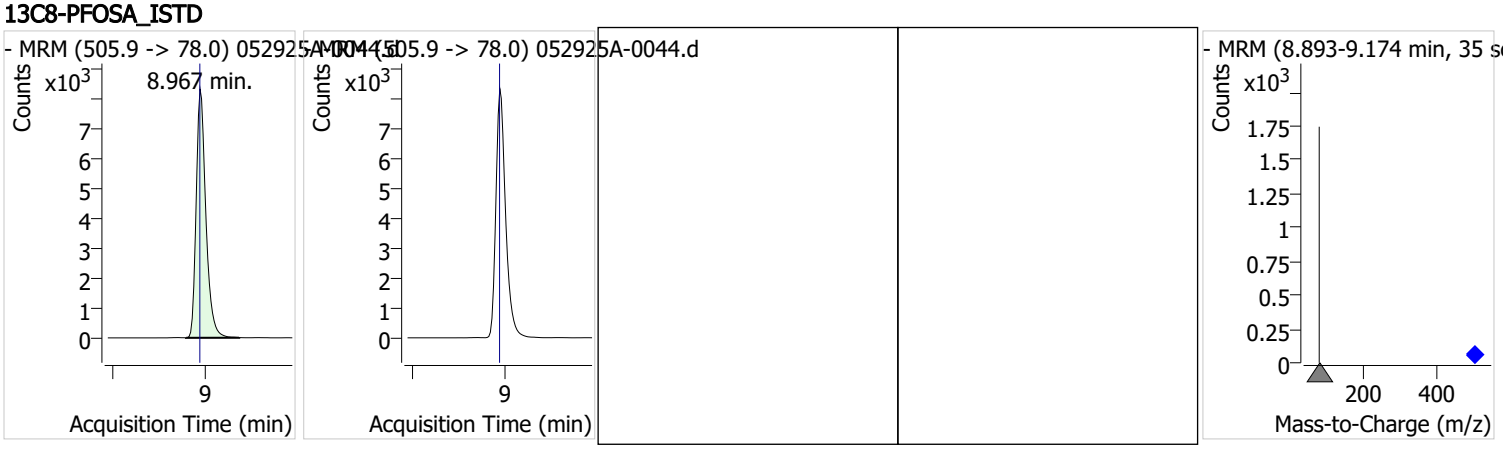
13C6-PFDA_ISTD



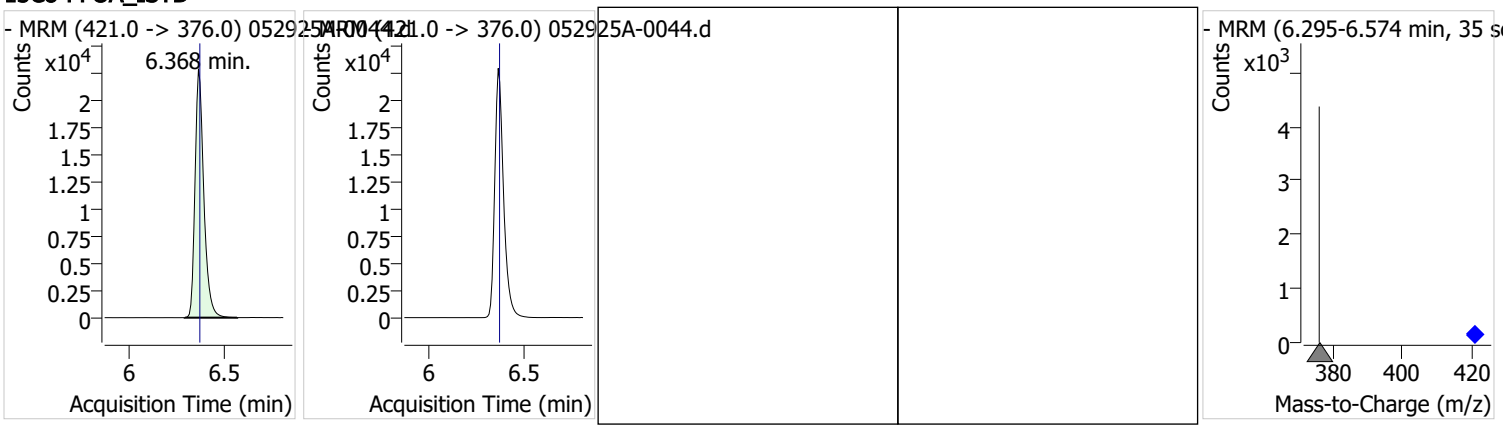
13C3-HFPODA



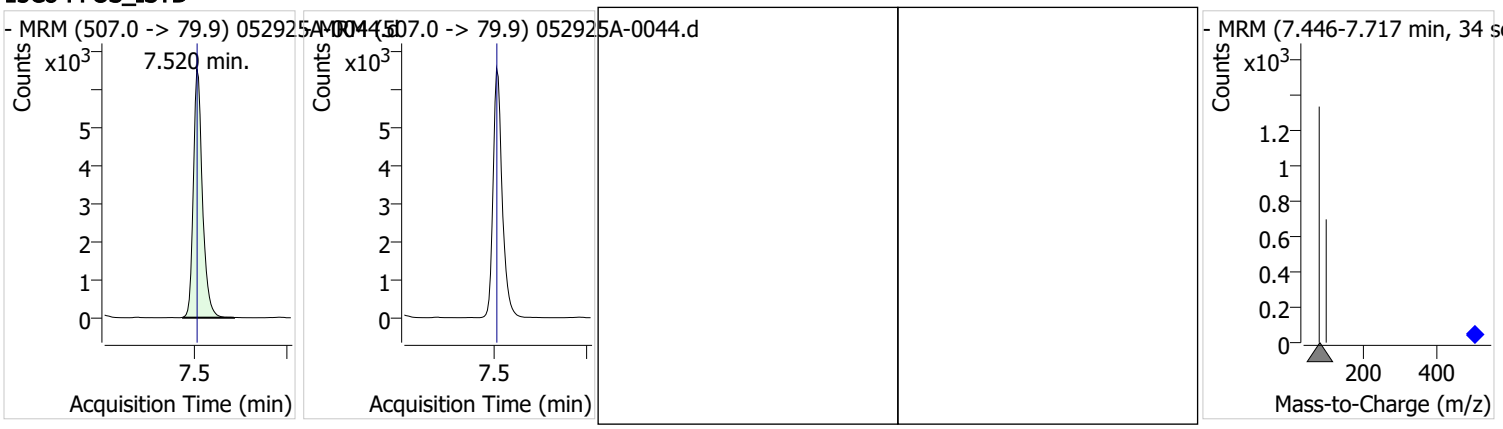
13C8-PFOSA_ISTD



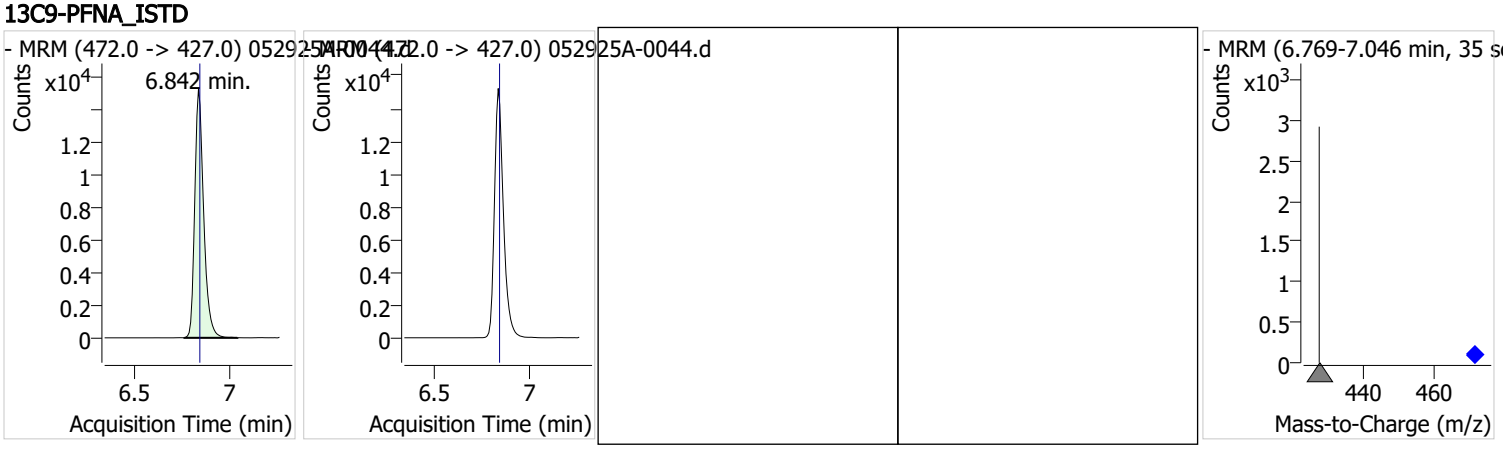
13C8-PFOA_ISTD



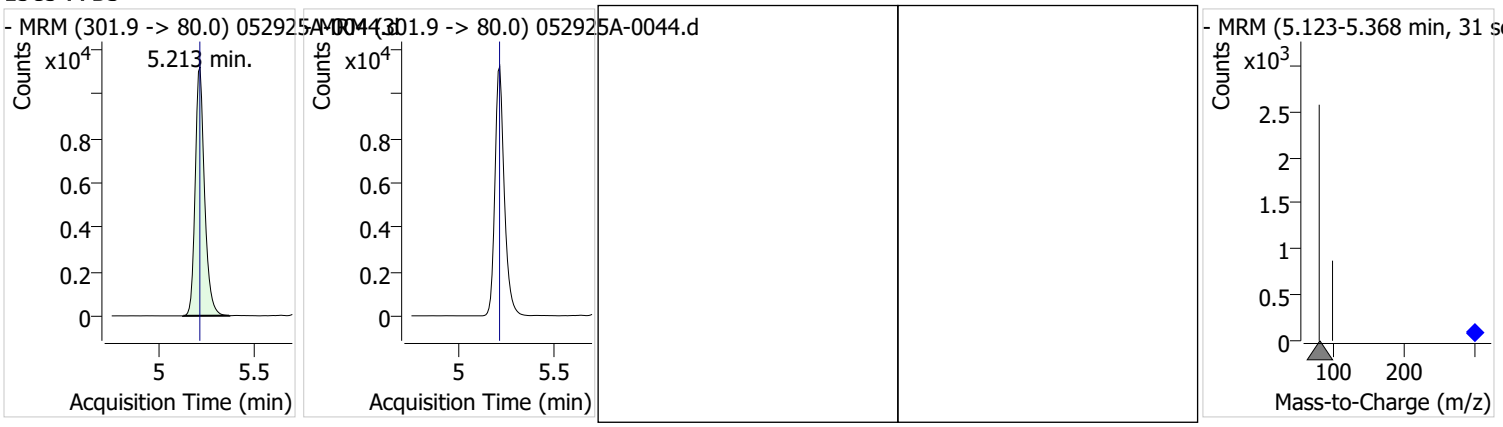
13C8-PFOS_ISTD



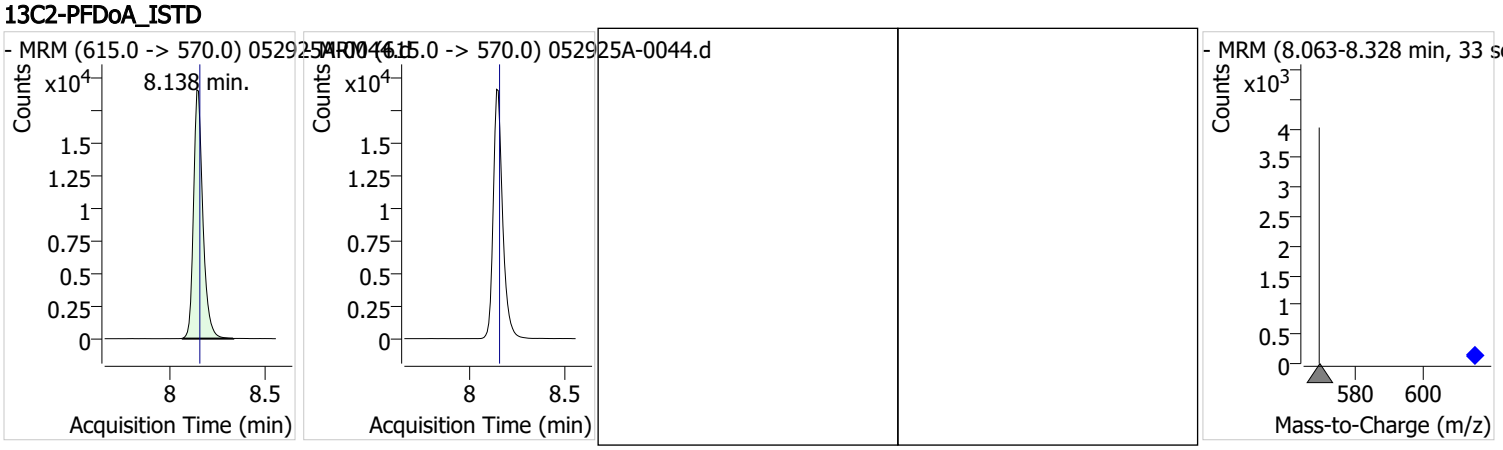
13C9-PFNA_ISTD



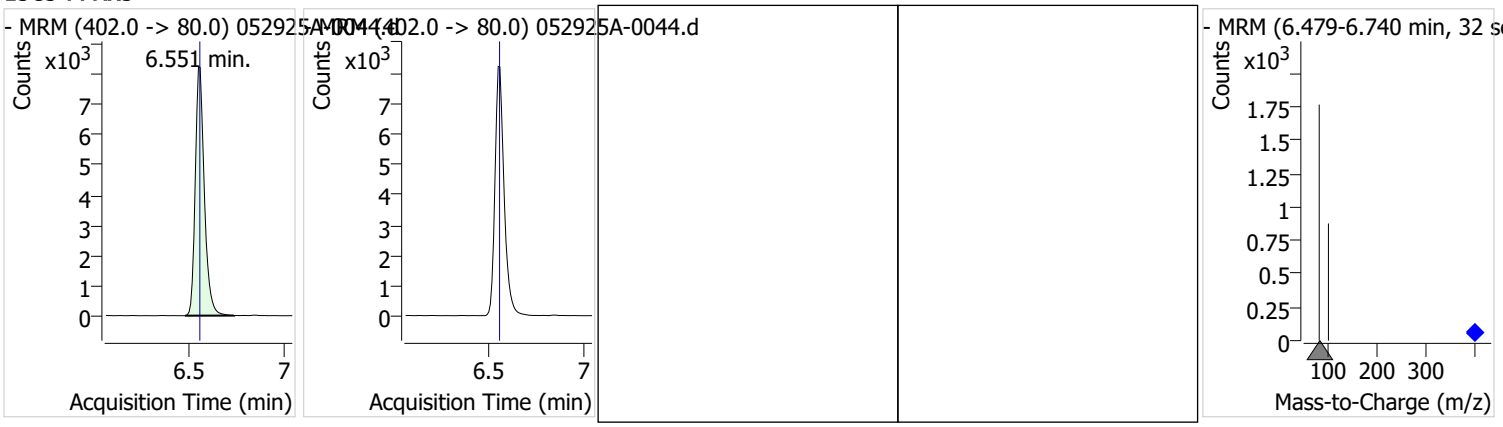
13C3-PFBS



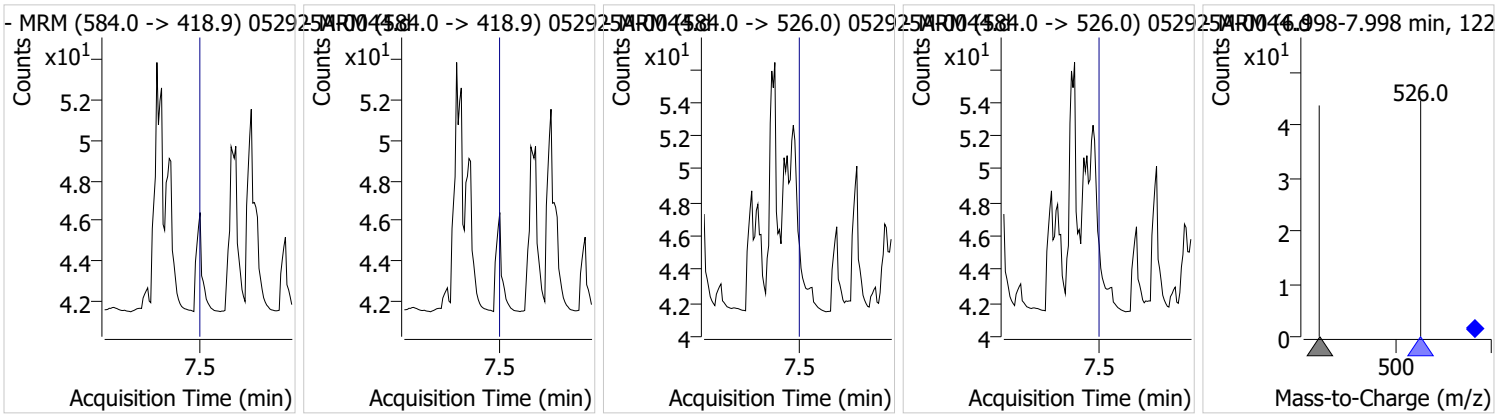
13C2-PFDoA_ISTD



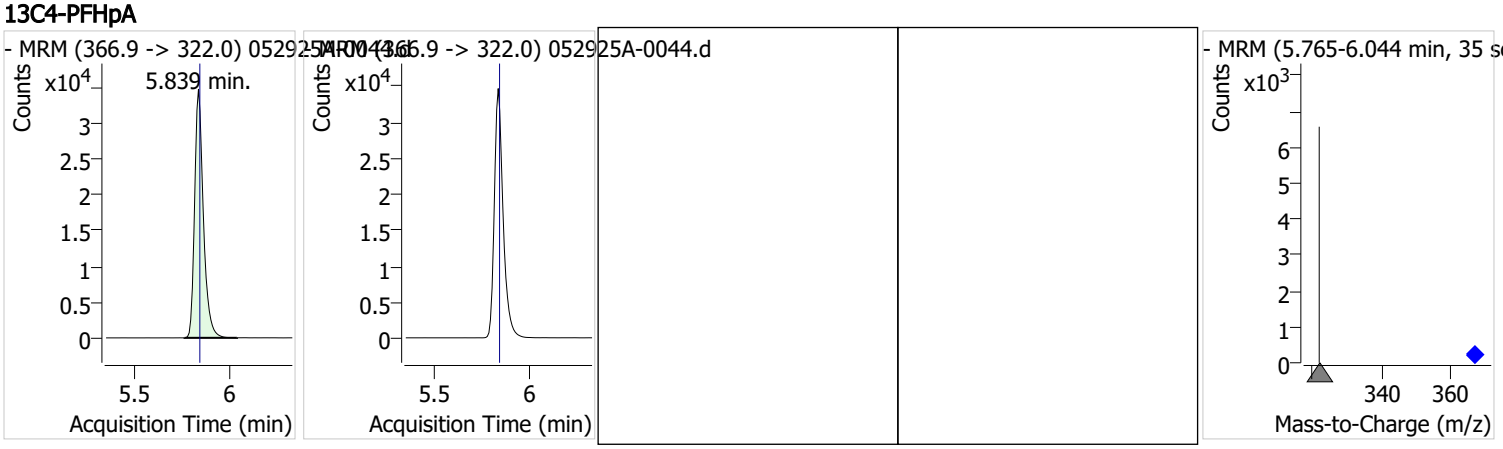
13C3-PFHxS



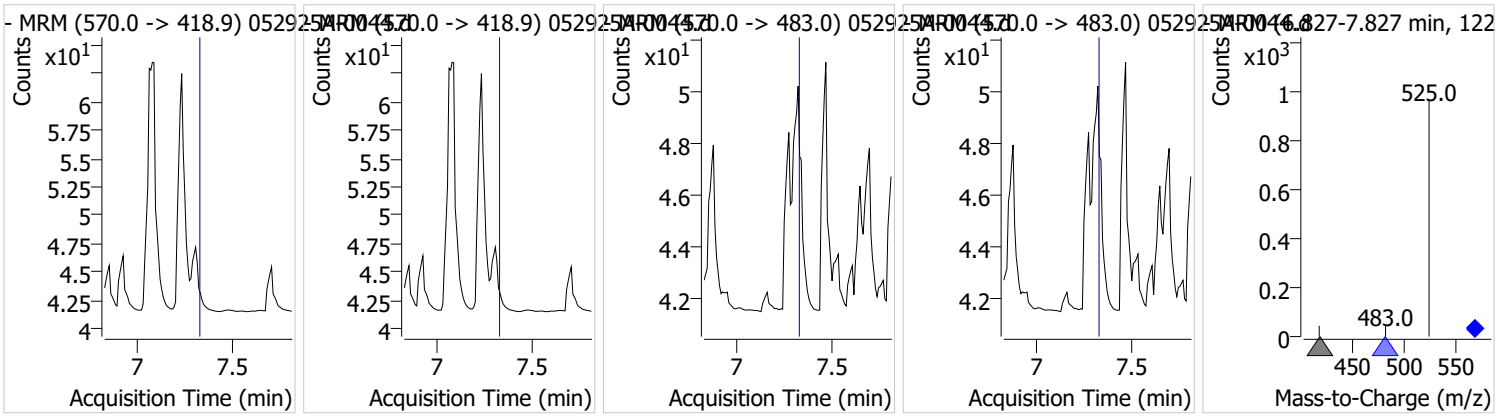
NEtFOSAA



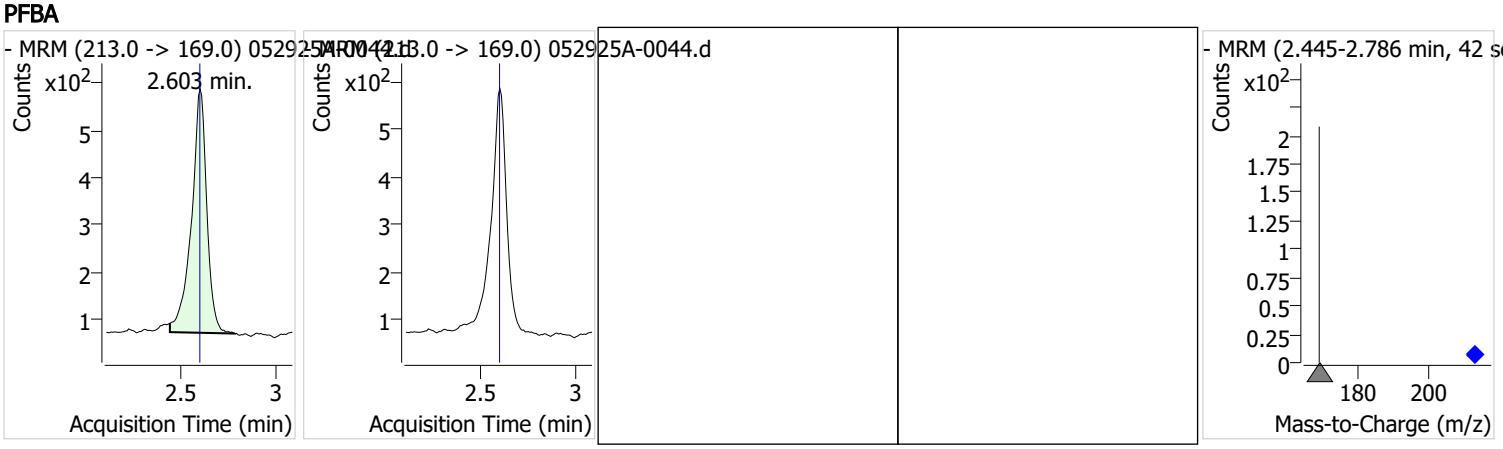
13C4-PFHpA



NMeFOSAA



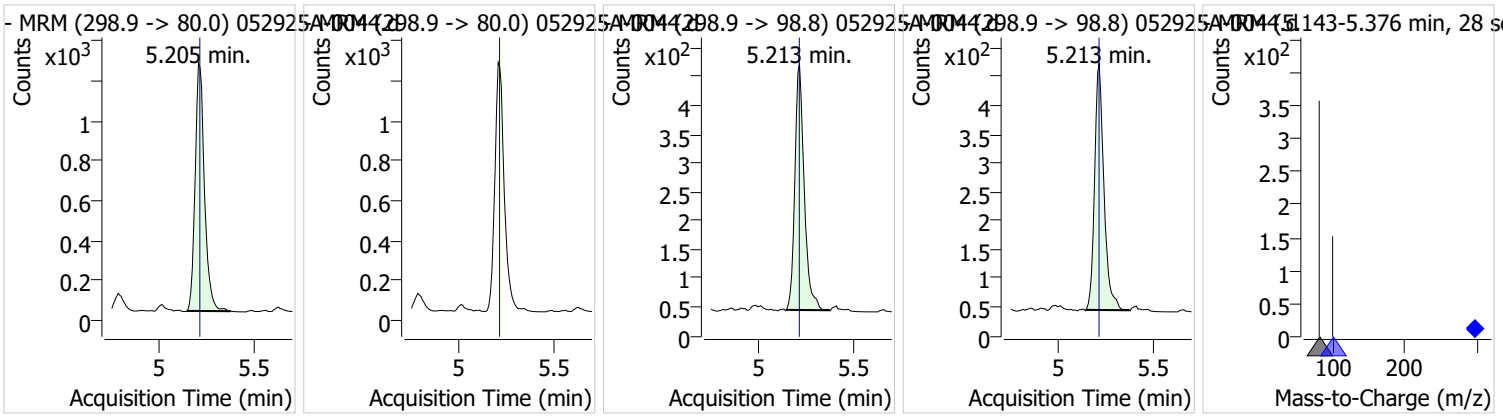
PFBA



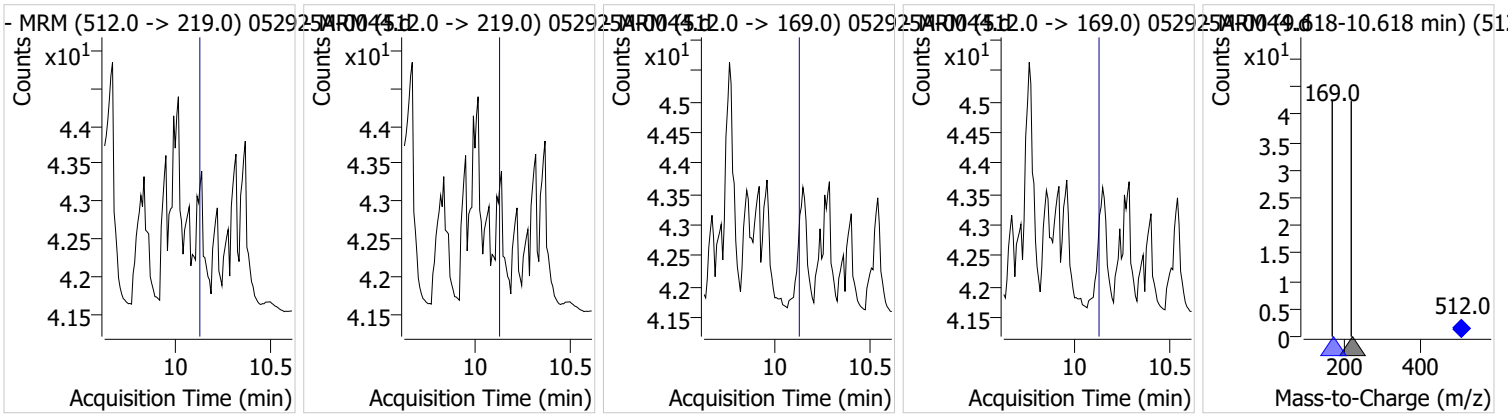
13C5-PFHxA



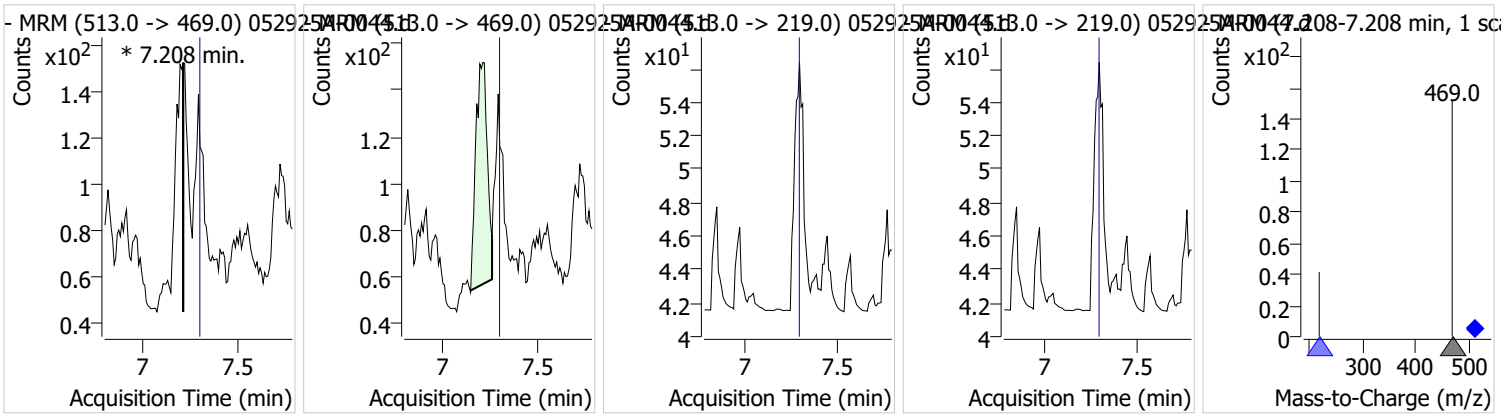
PFBS



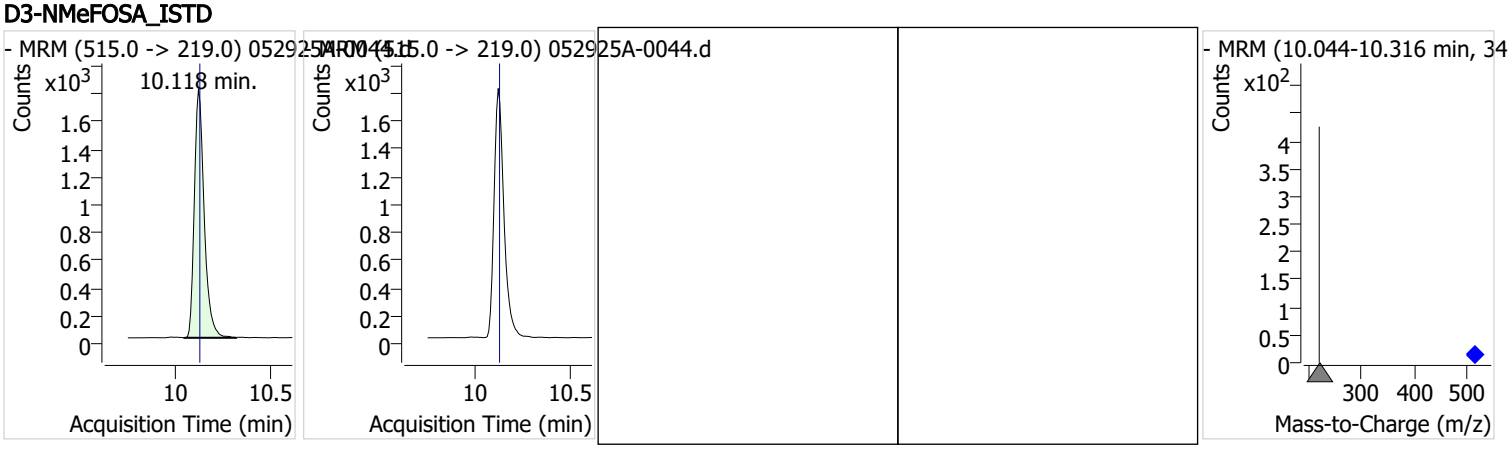
NMeFOSA



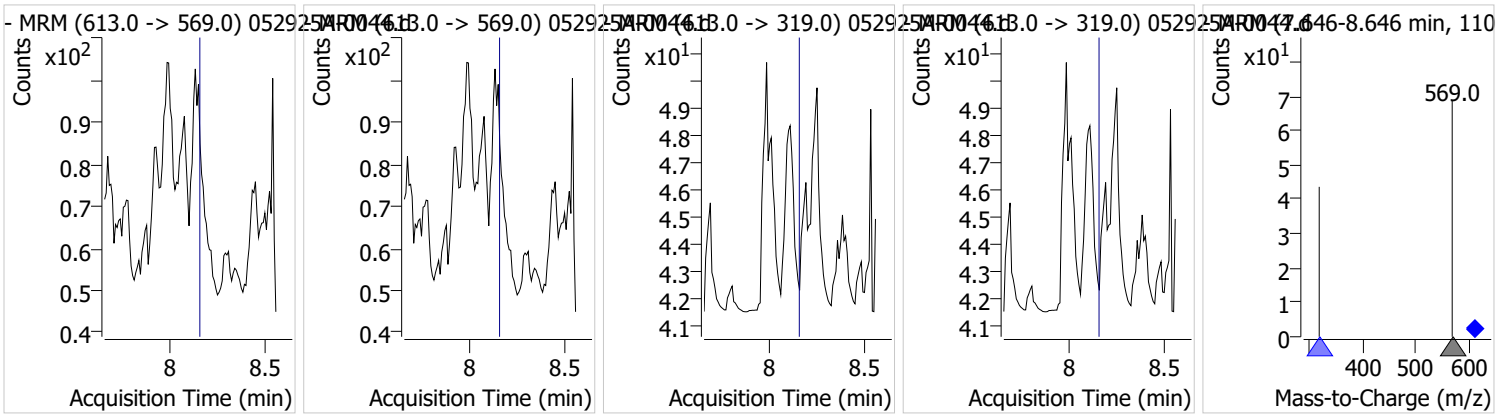
PFDA



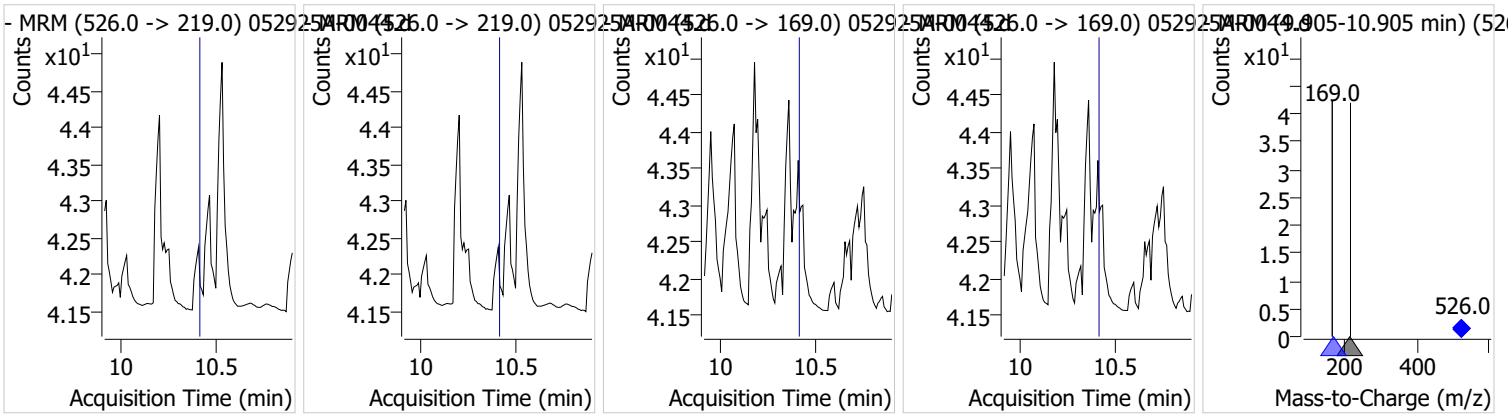
D3-NMeFOSA_ISTD



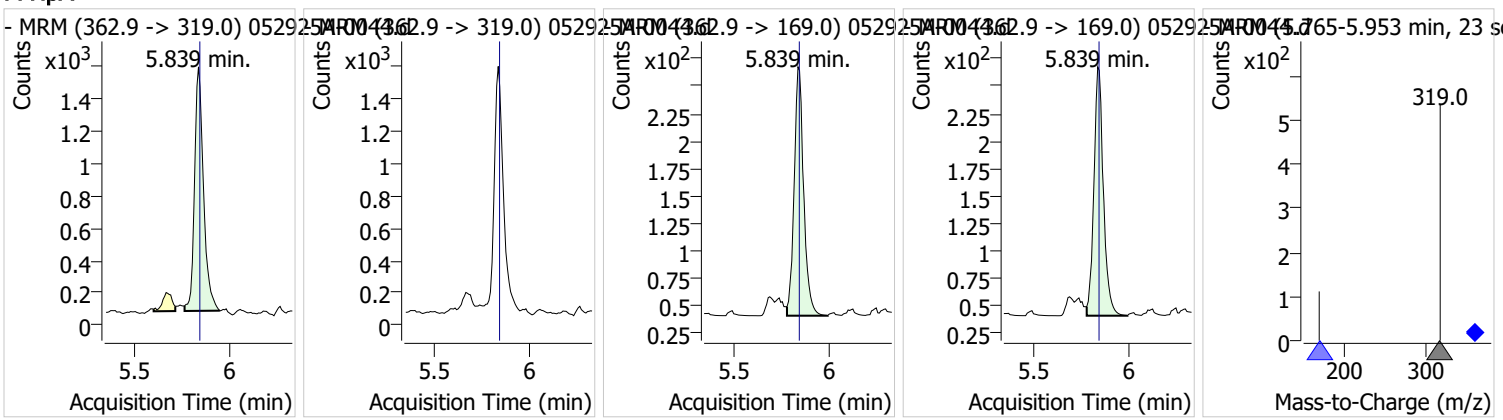
PFDoA



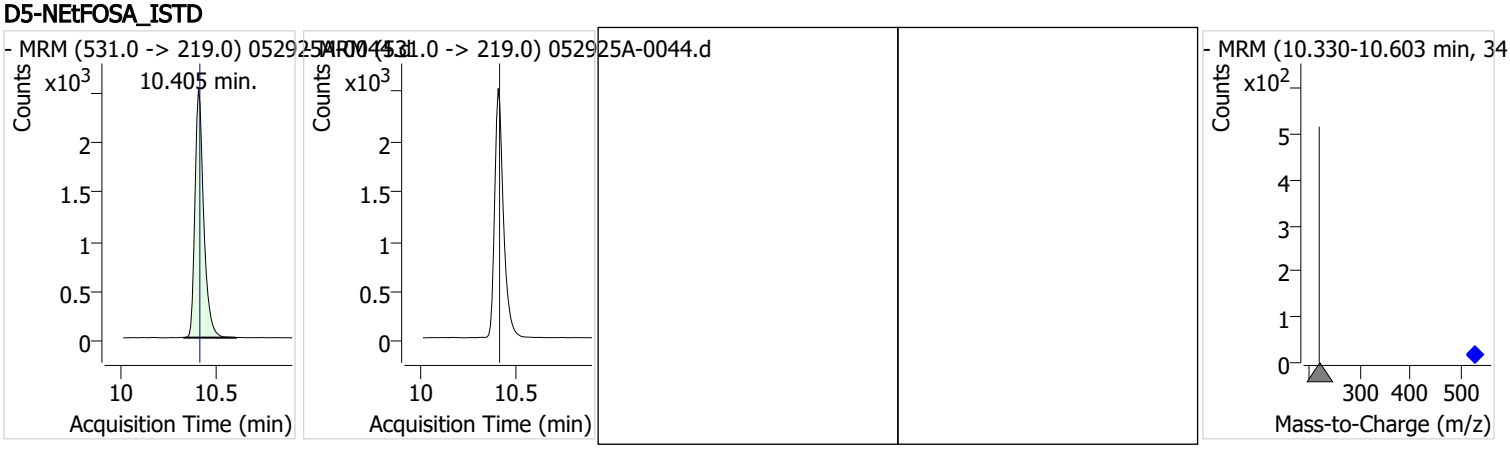
NEtFOSA



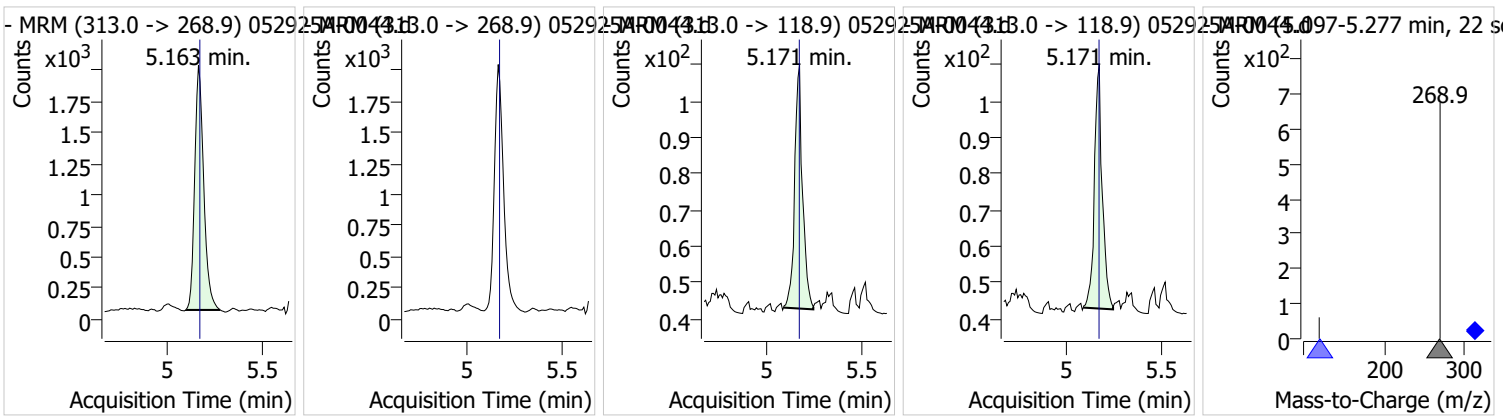
PFHpA



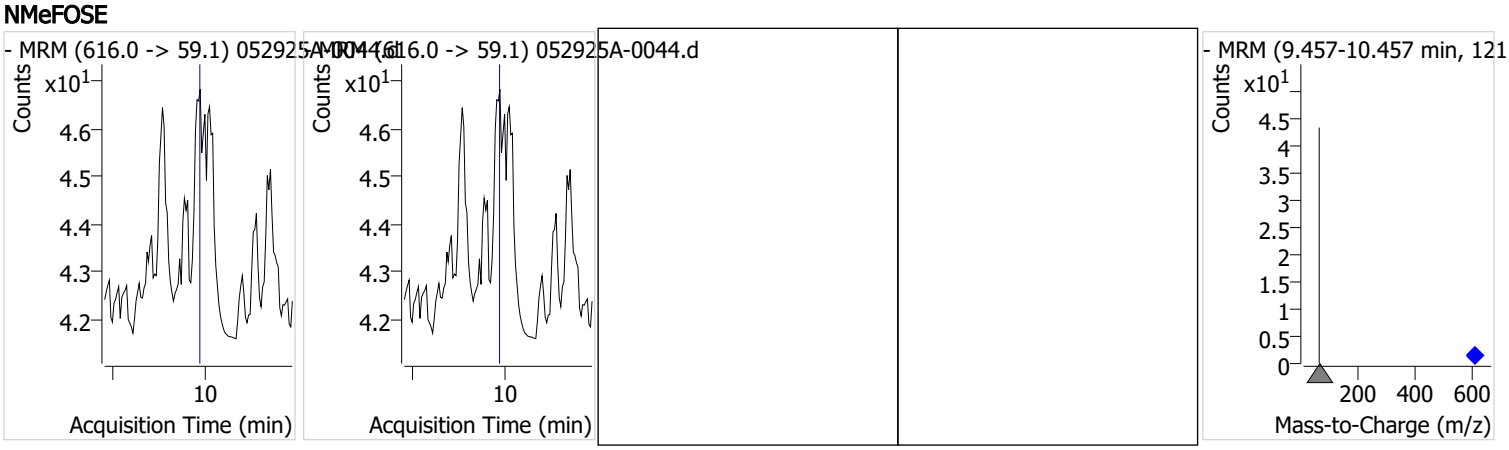
D5-NEtFOSA_ISTD



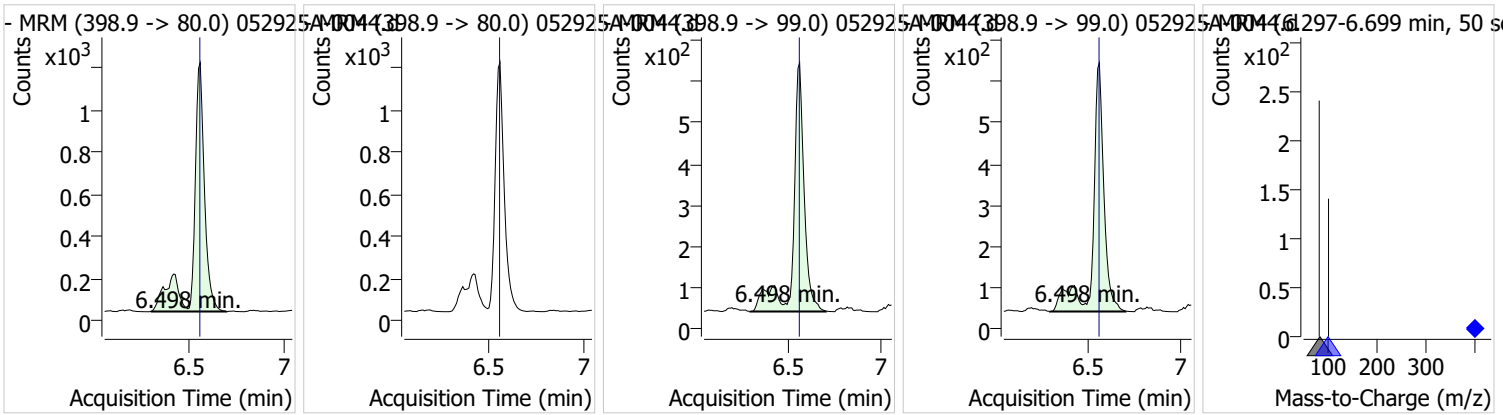
PFHxA



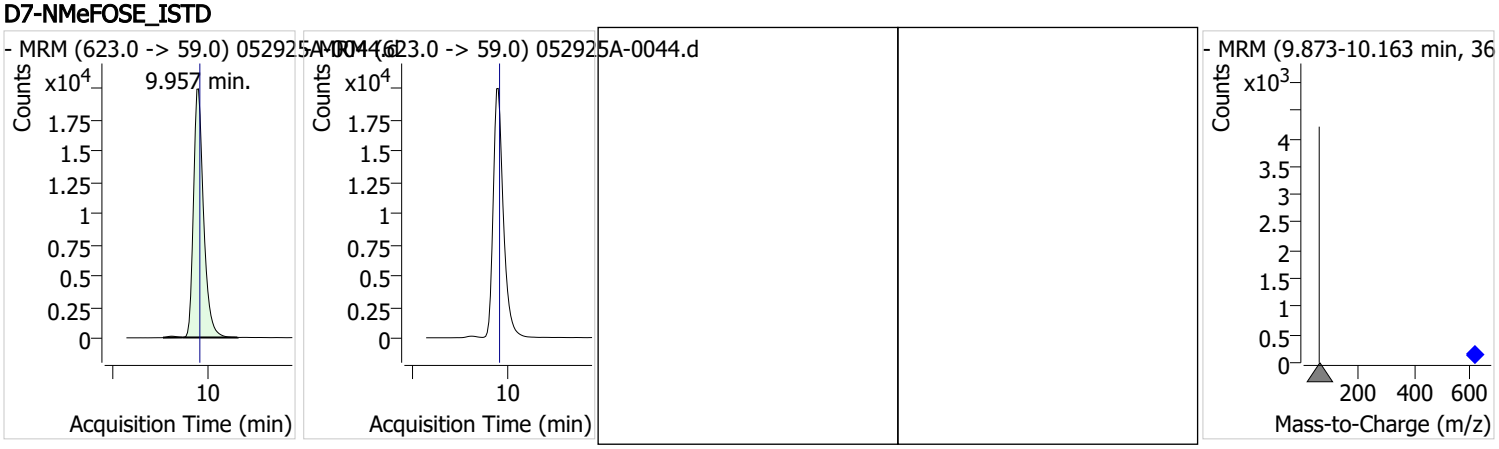
NMeFOSE



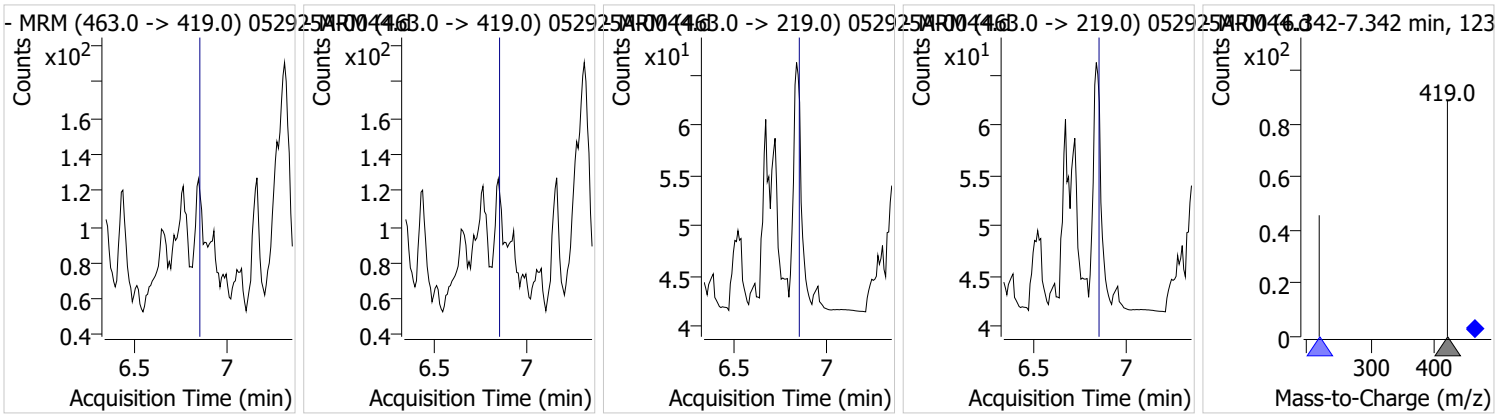
PFHxS



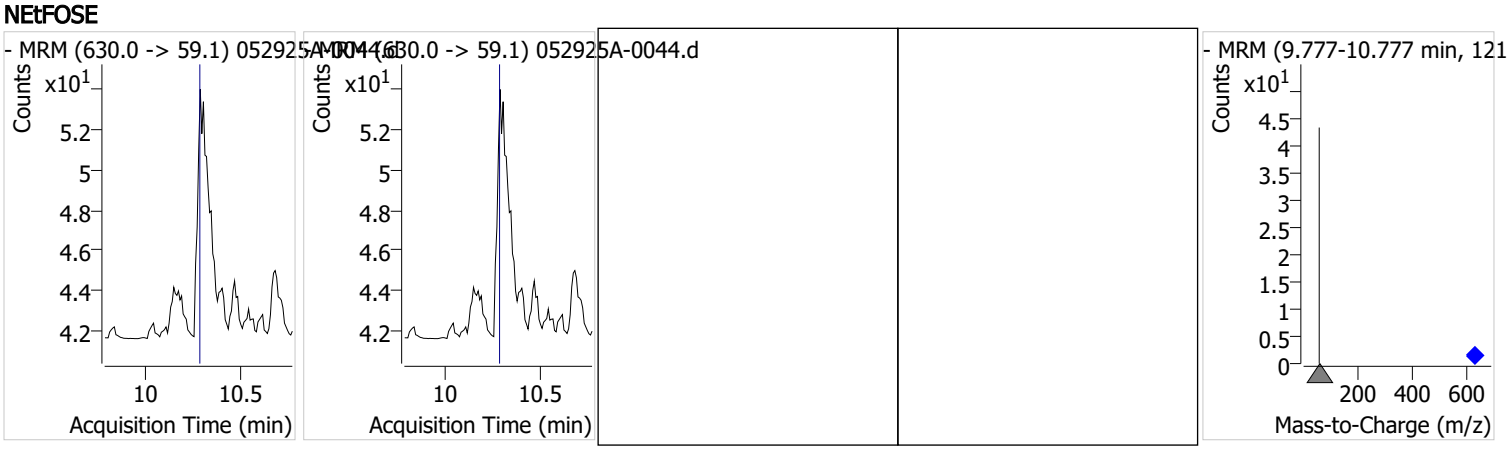
D7-NMeFOSE_ISTD



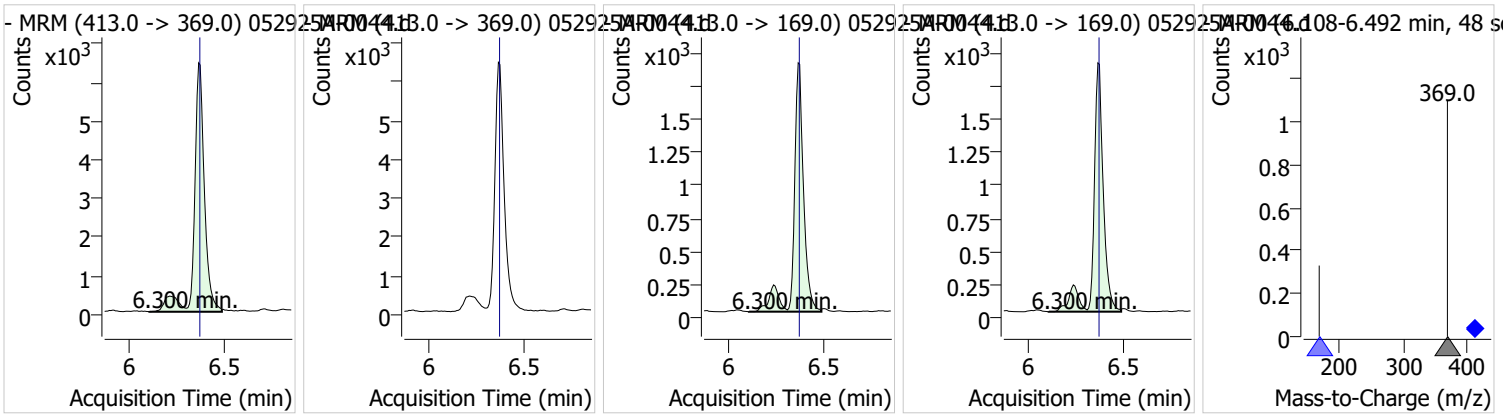
PFNA



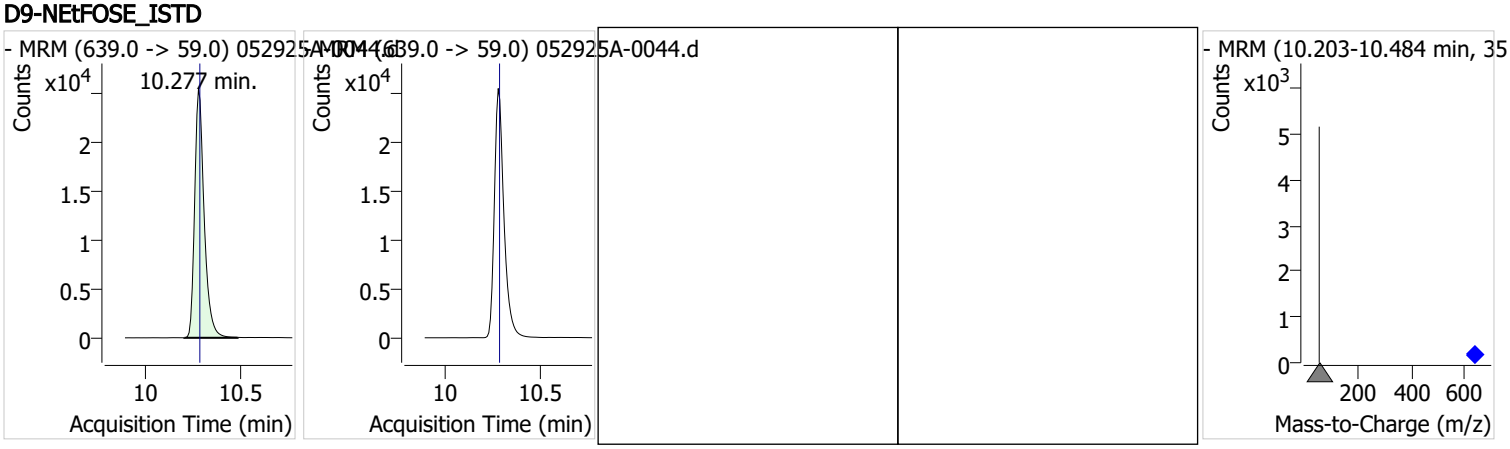
NEtFOSE



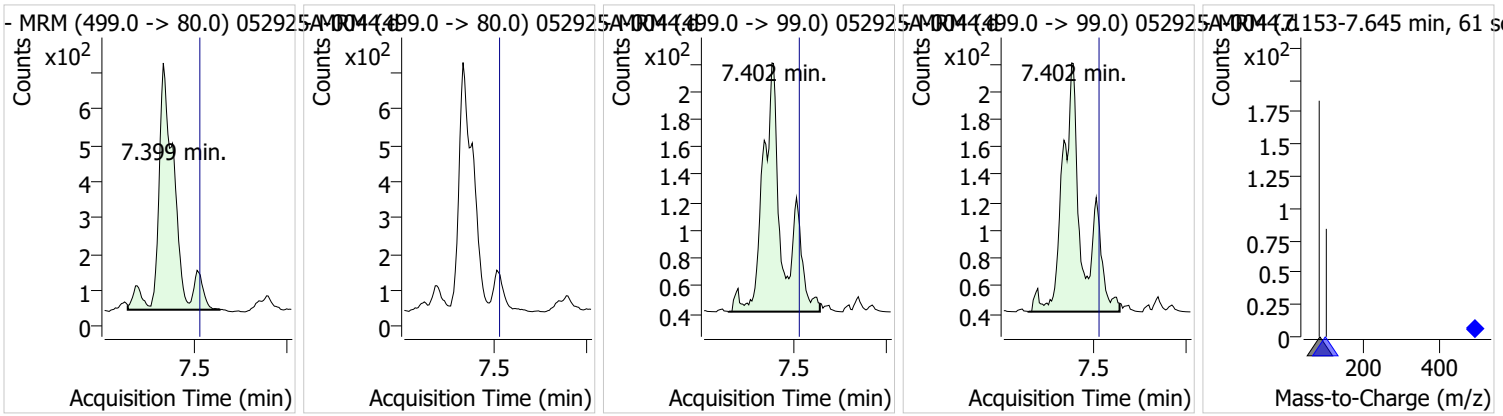
PFOA



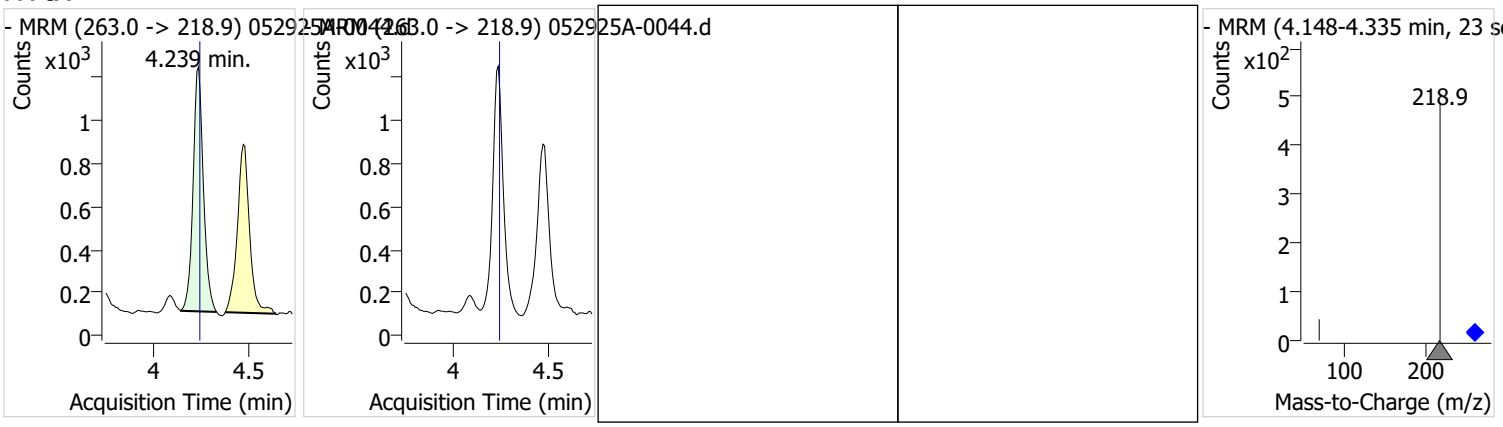
D9-NEtFOSE_ISTD



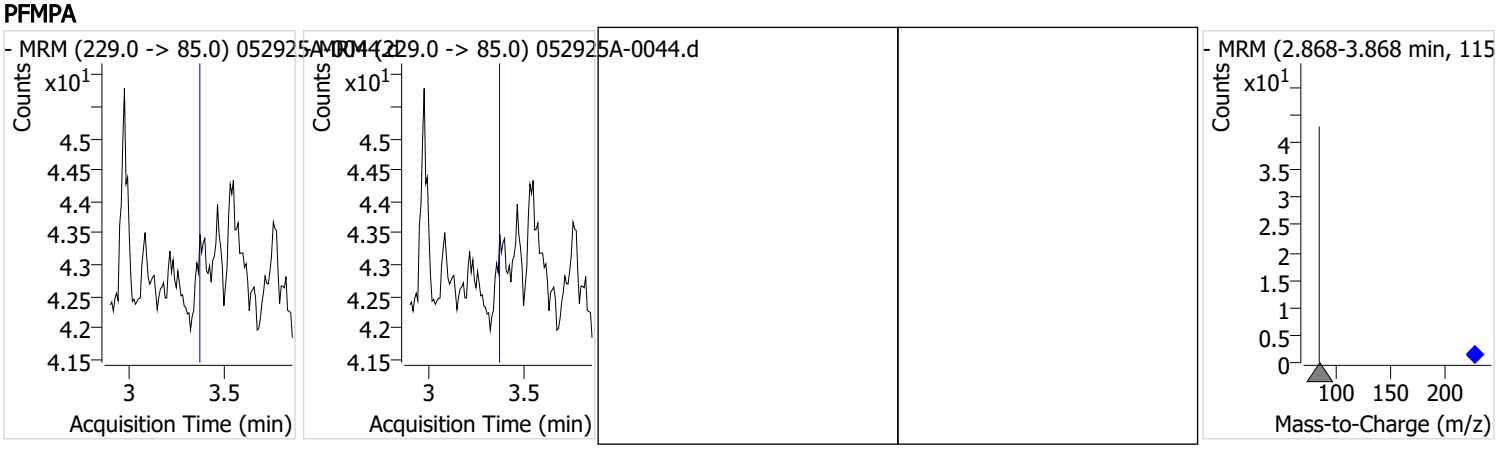
PFOS



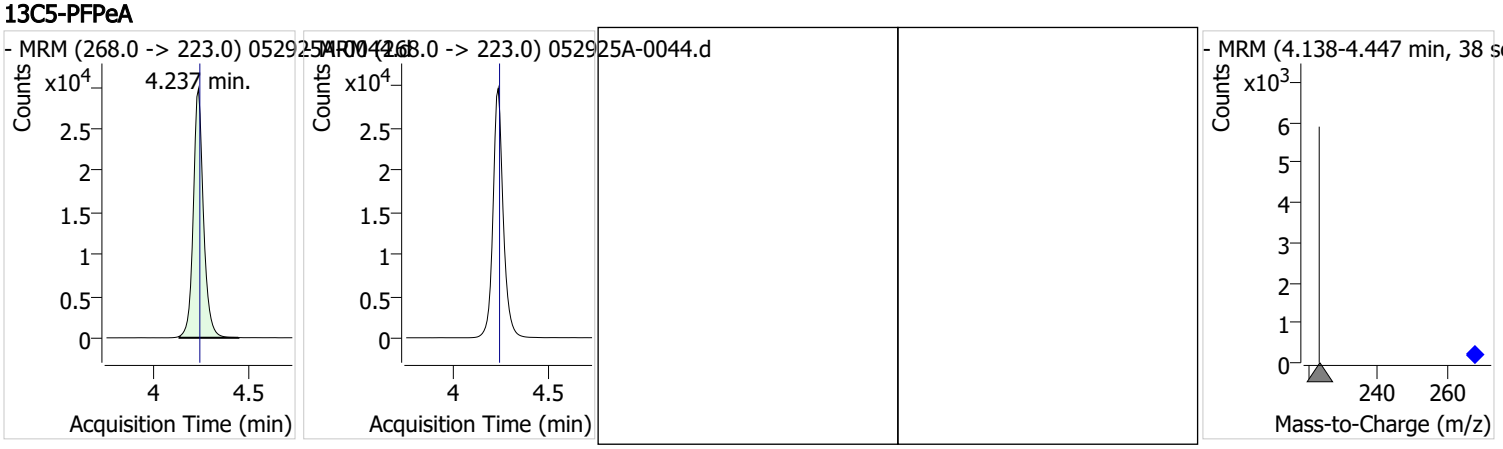
PFPeA



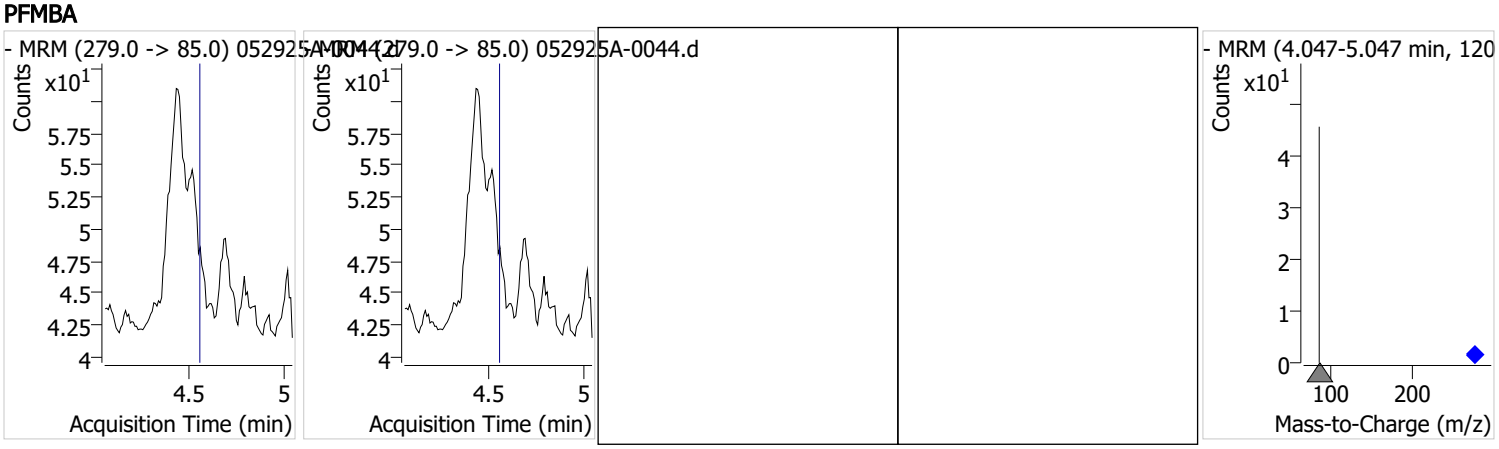
PFMPA



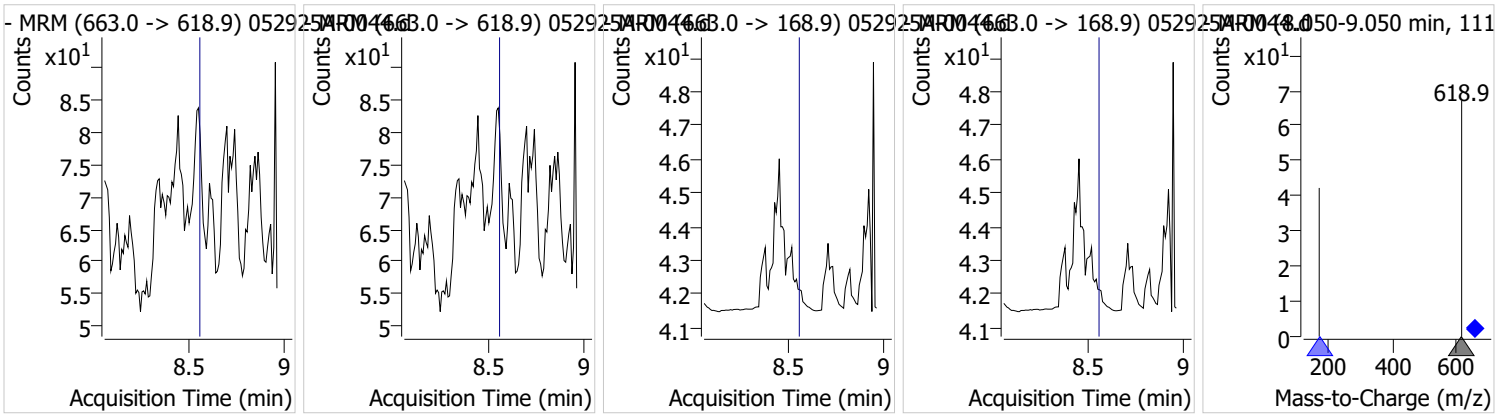
13C5-PFPeA



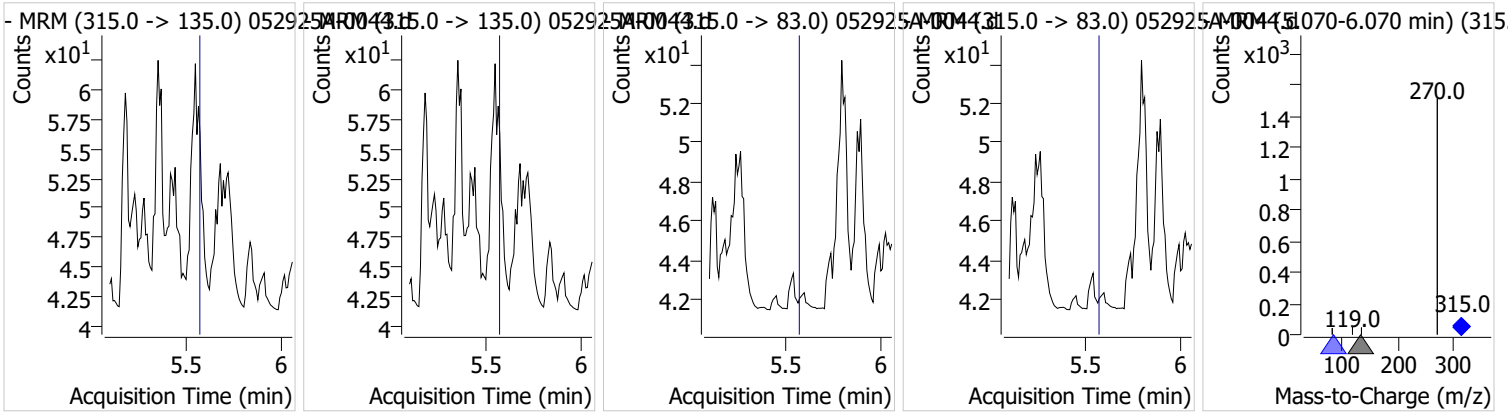
PFMBA



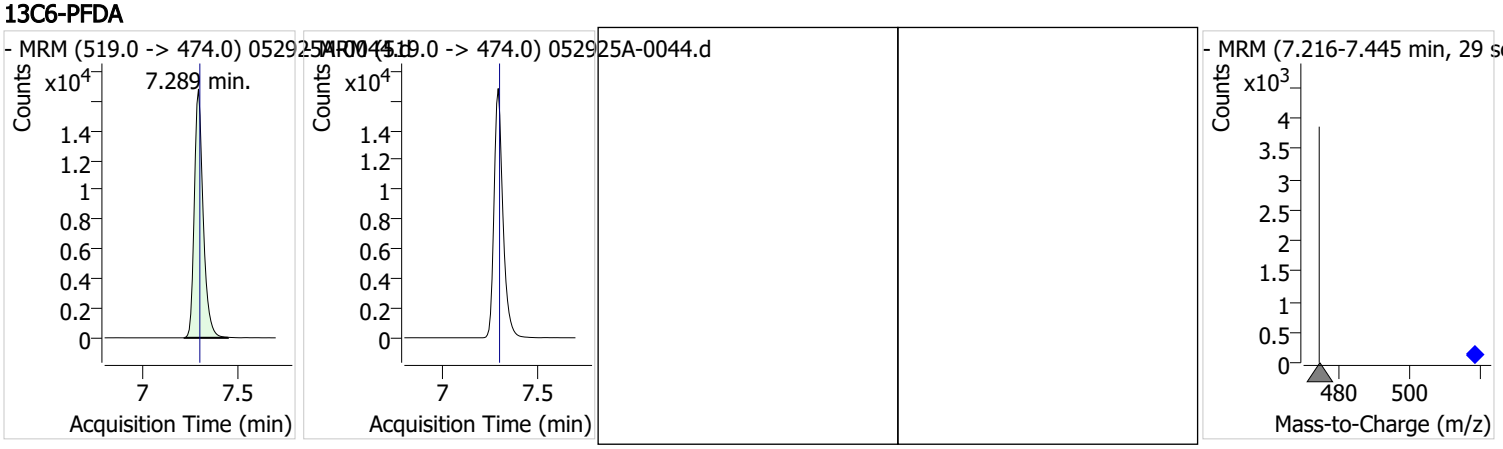
PFTrDA



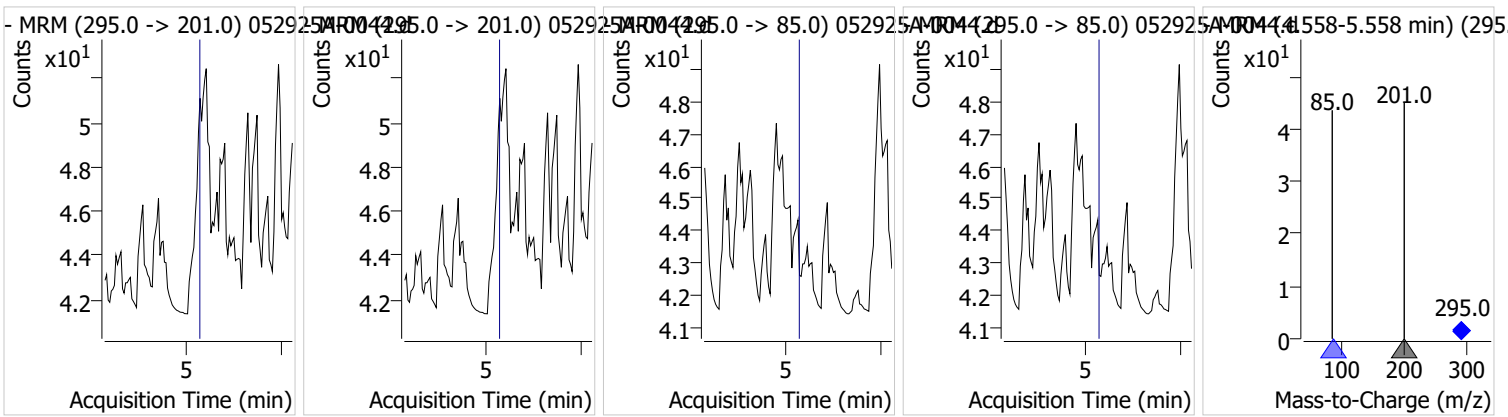
PFEESA



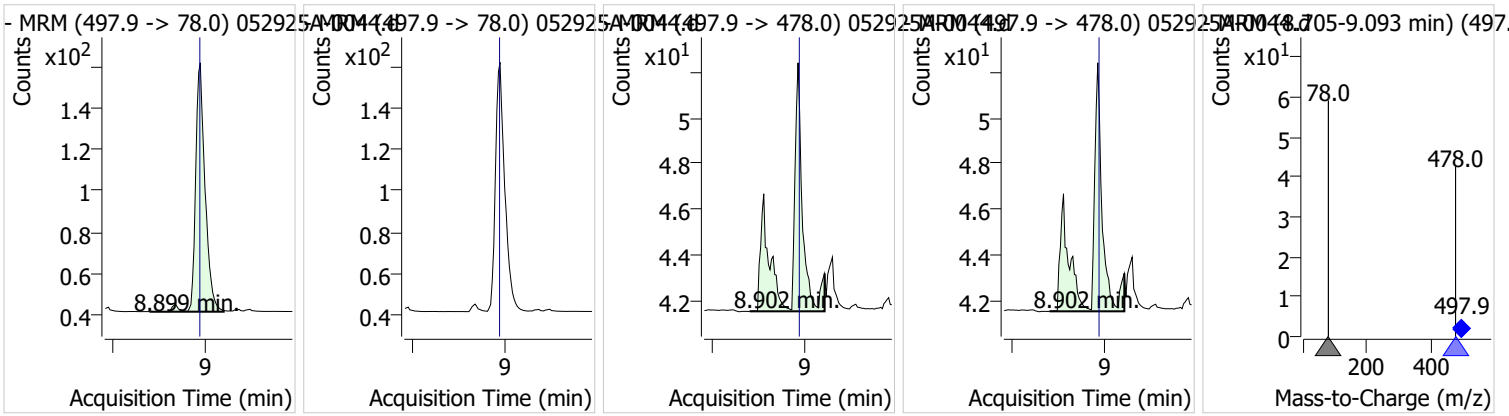
13C6-PFDA



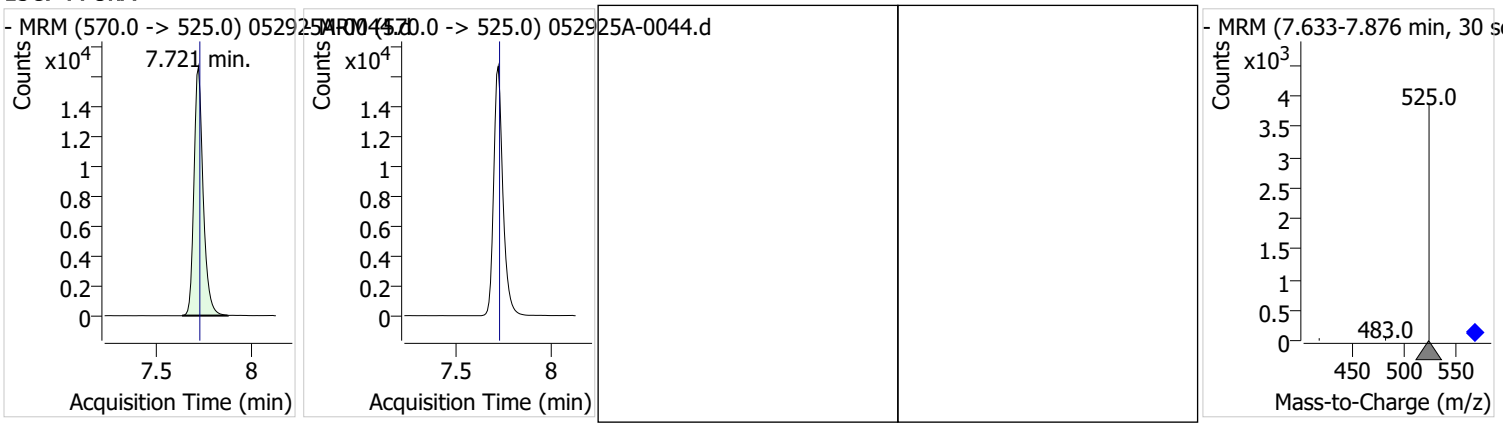
NFDHA



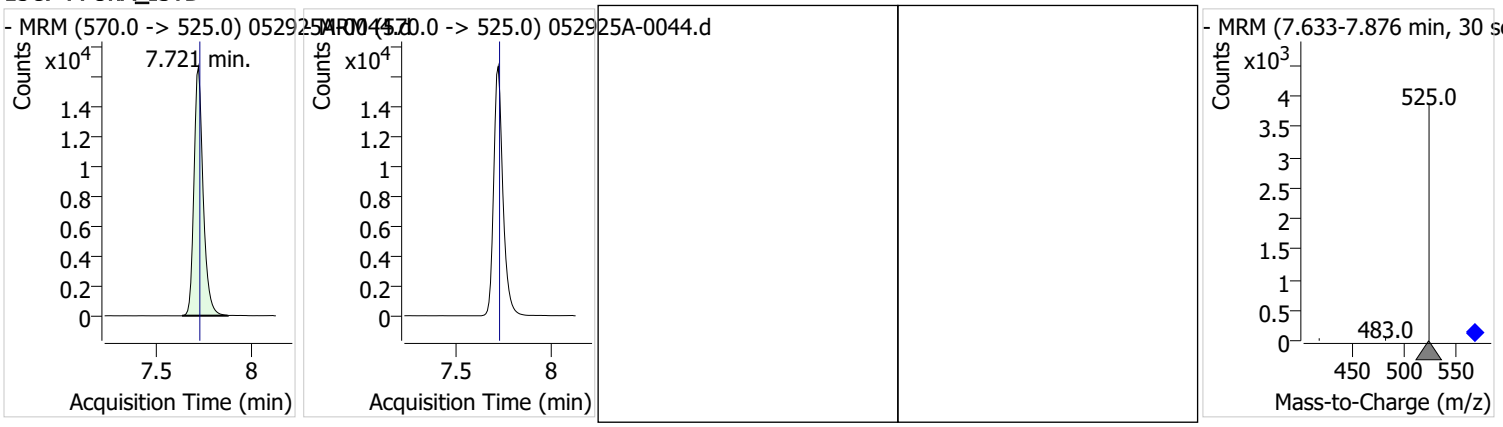
PFOSA



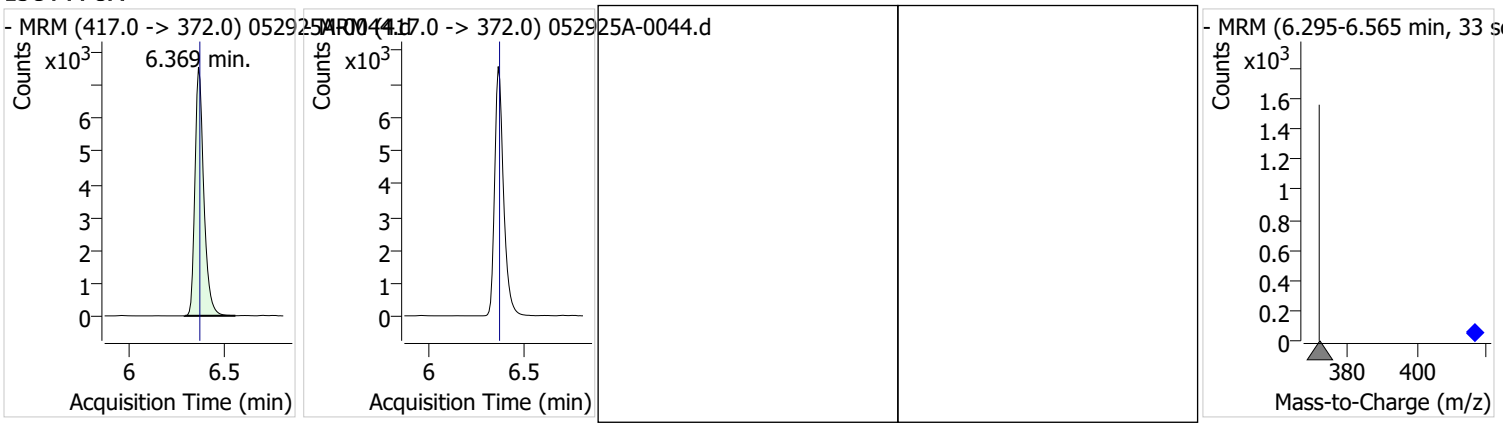
13C7-PFUnA



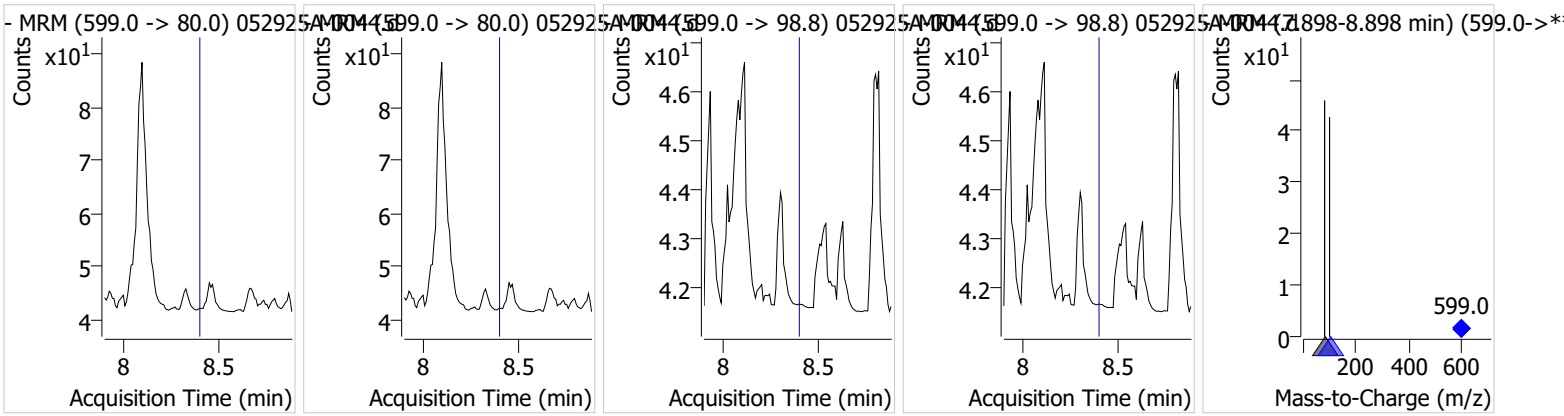
13C7-PFUnA_ISTD



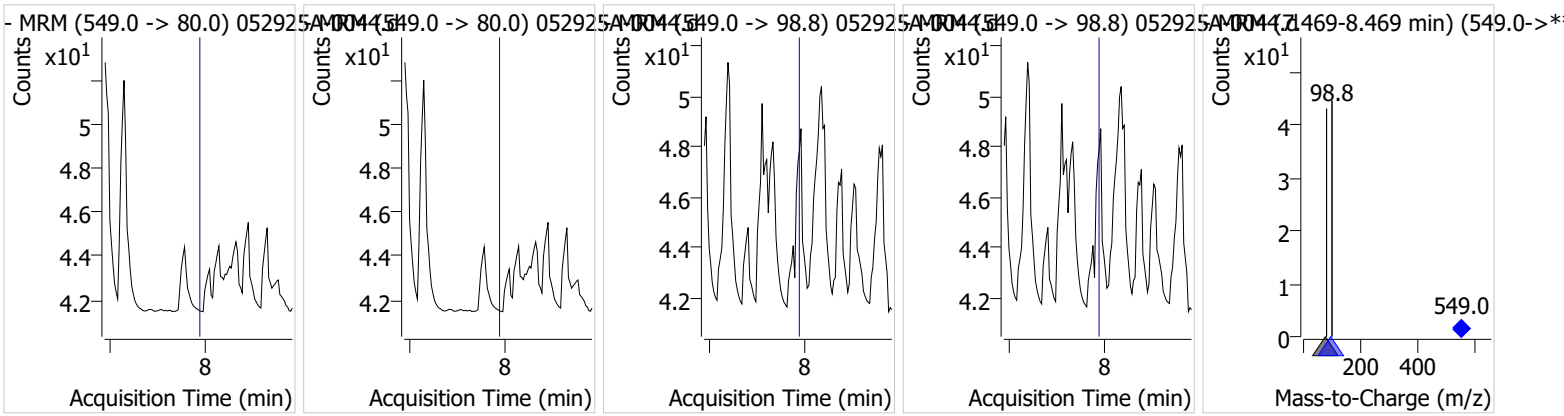
13C4-PFOA



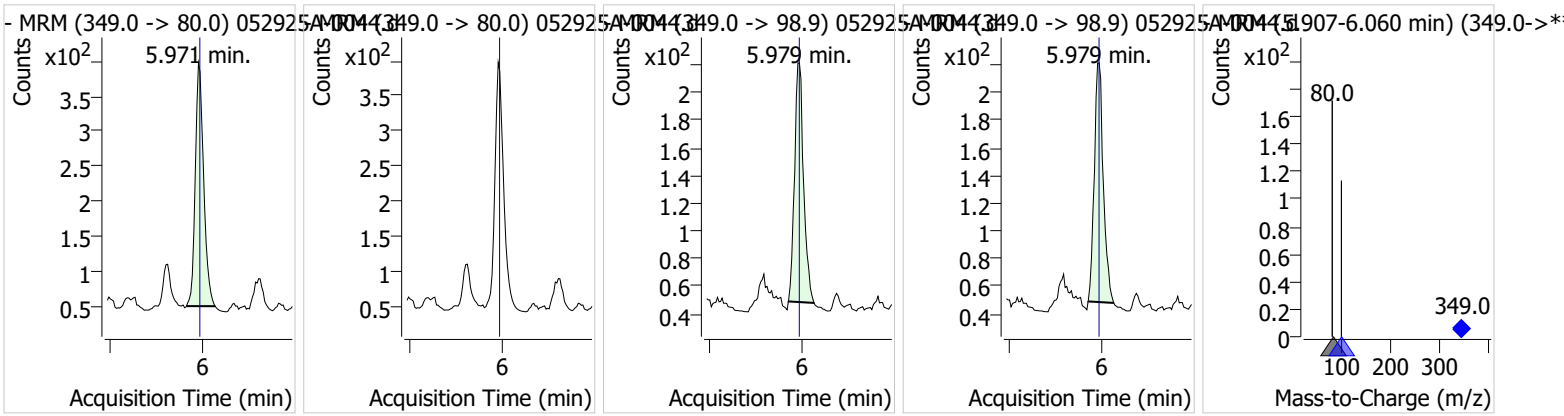
PFDS



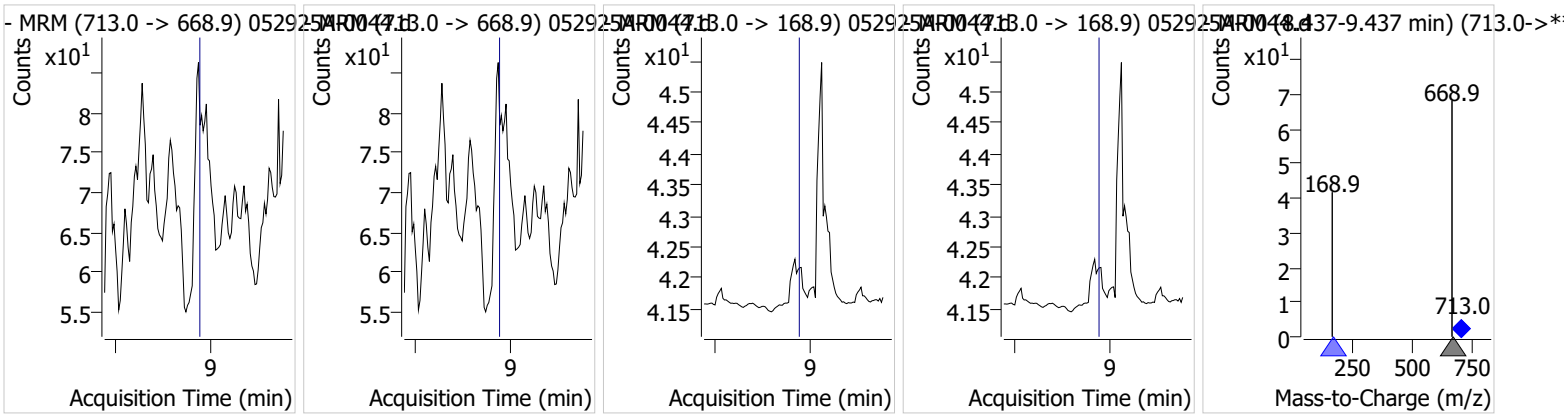
PFNS



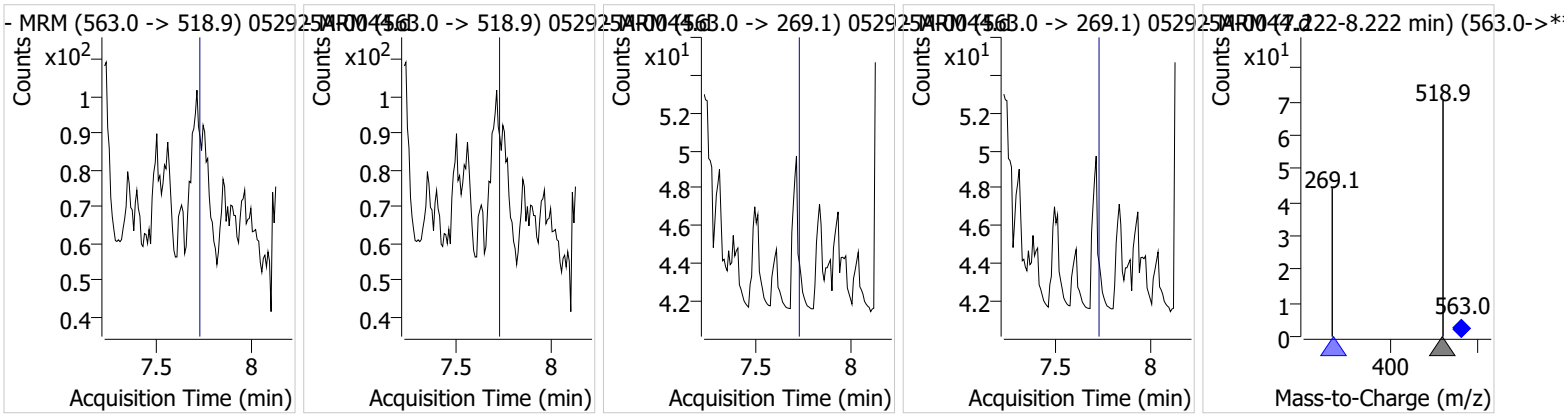
PFPeS



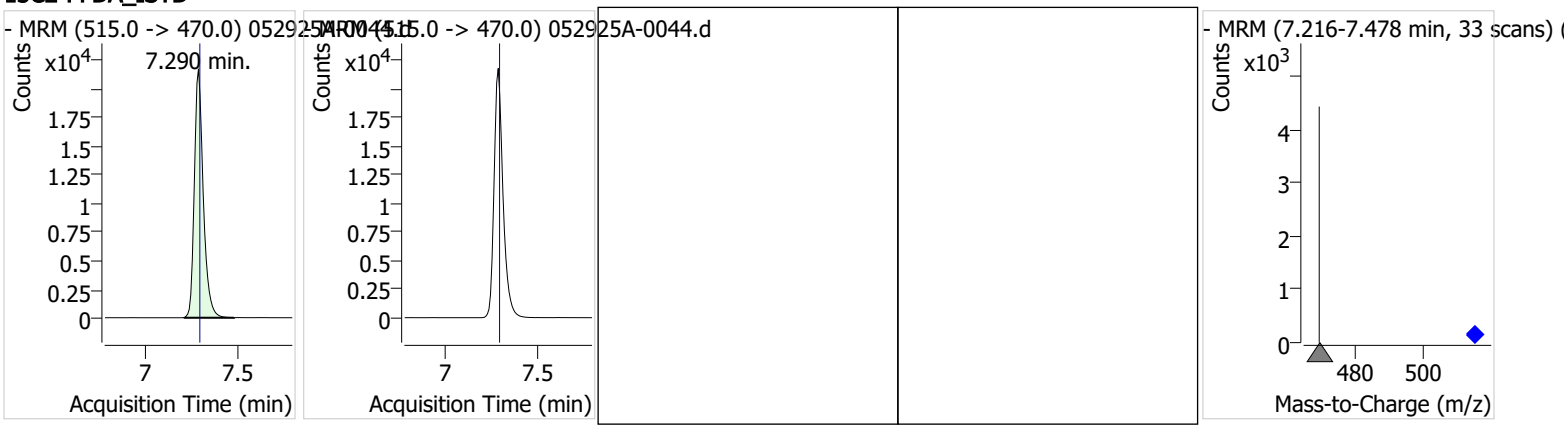
PFTeDA



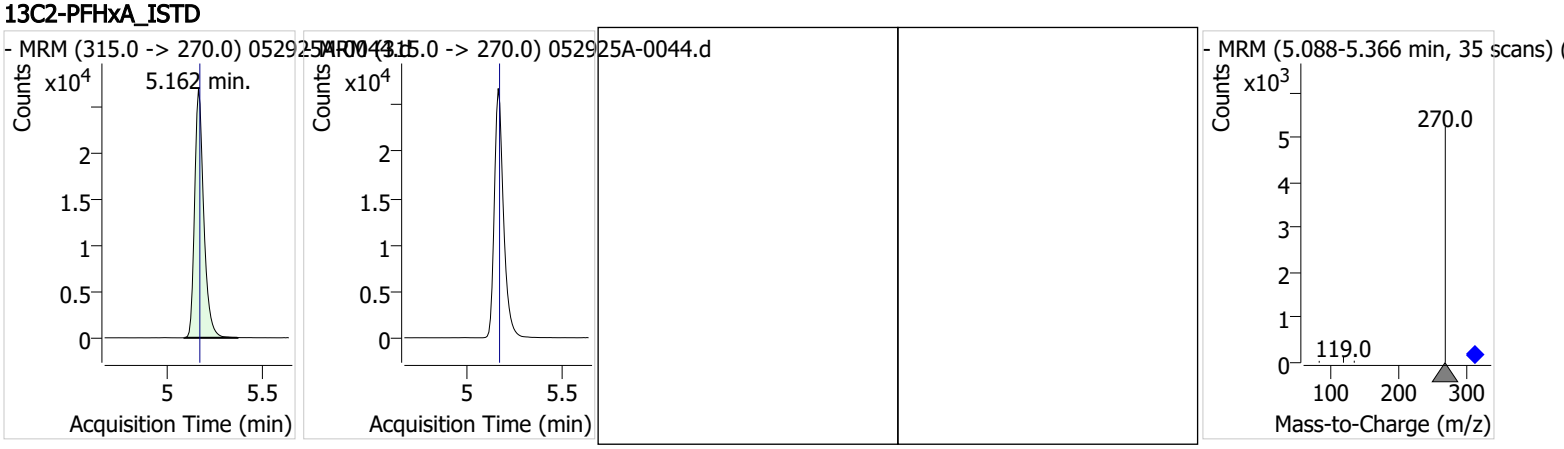
PFUnA



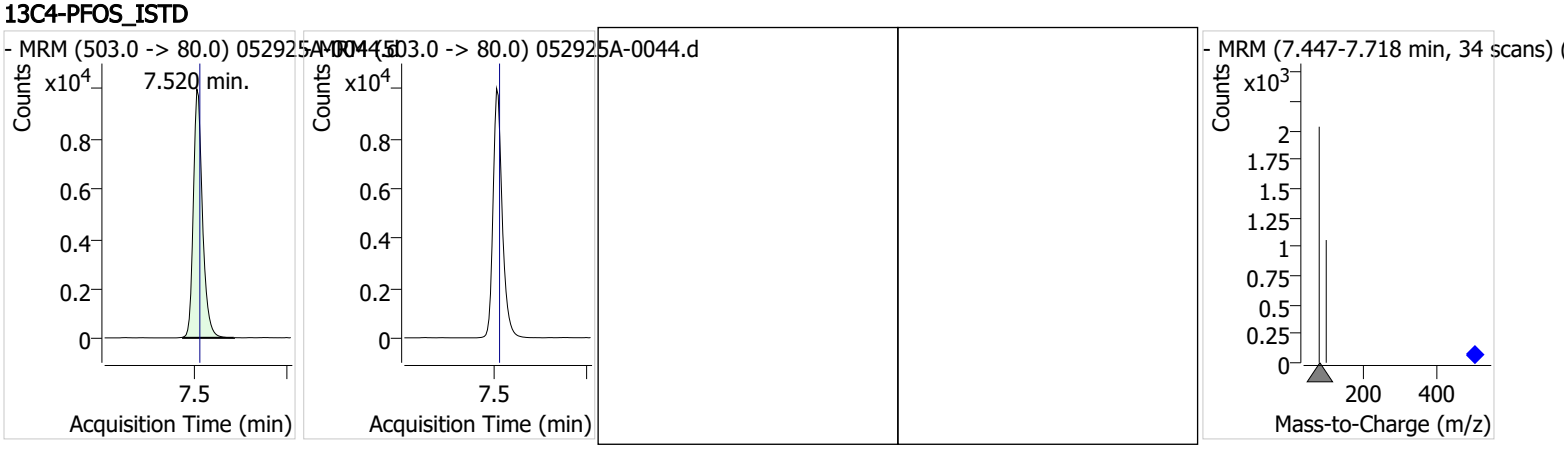
13C2-PFDA_ISTD



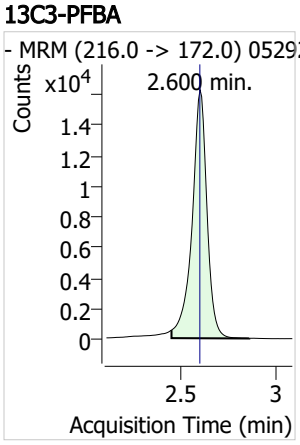
13C2-PFHxA_ISTD

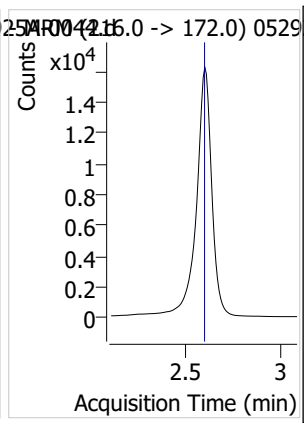


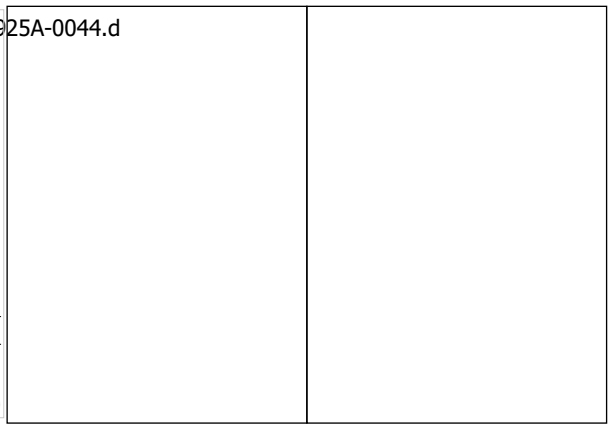
13C4-PFOS_ISTD

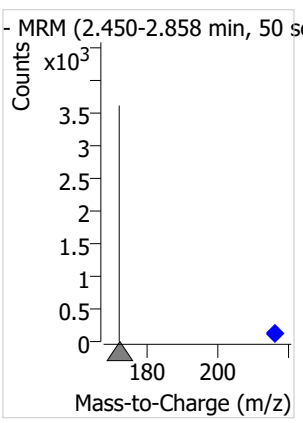


13C3-PFBA

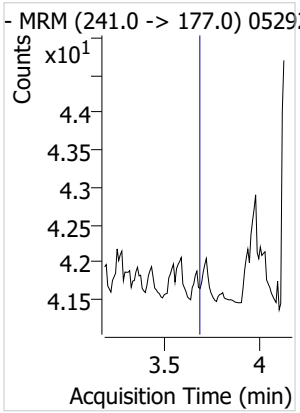


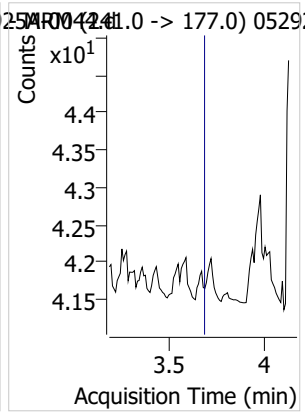


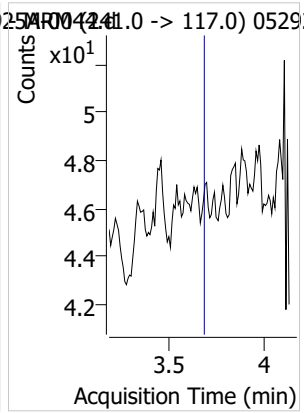


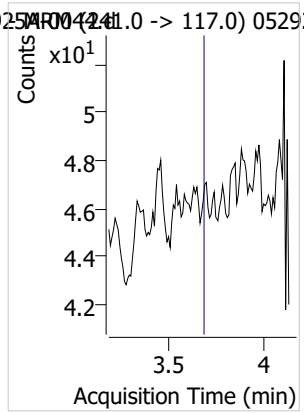


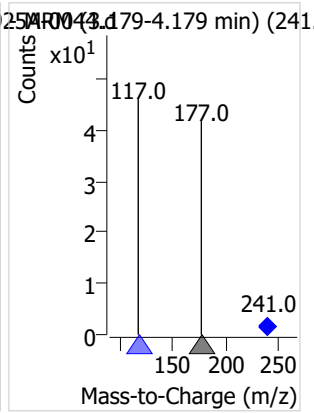
3:3FTCA



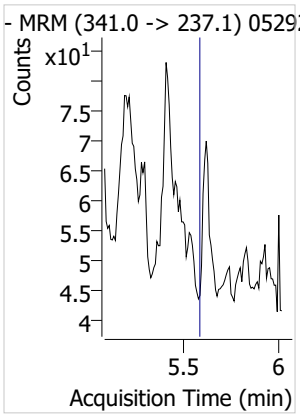


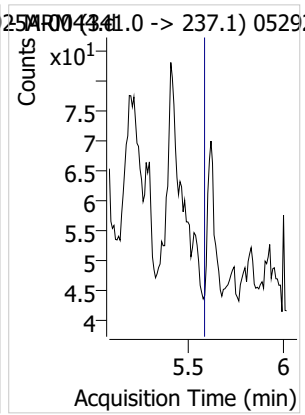


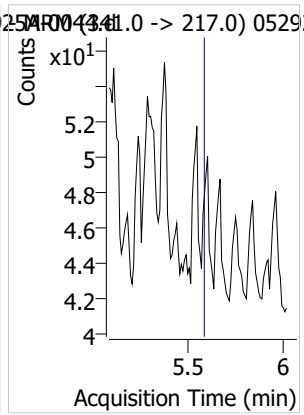


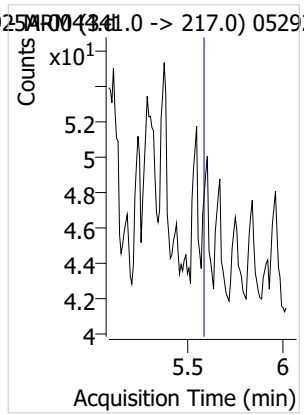


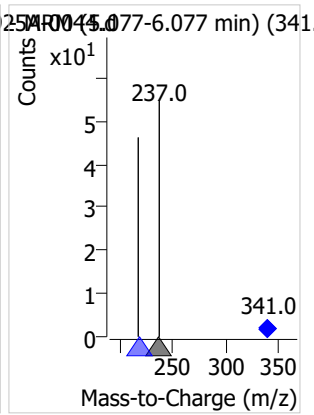
5:3FTCA



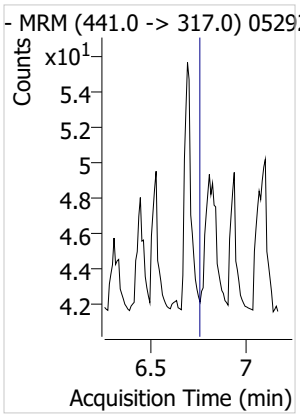


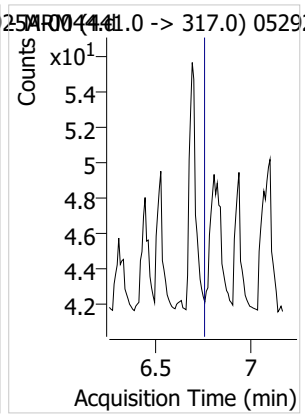


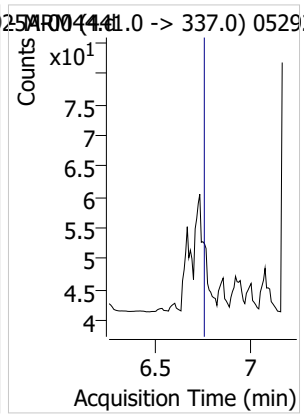


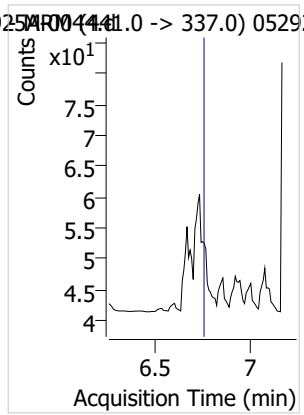


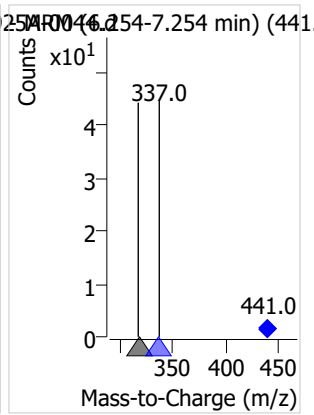
7:3FTCA



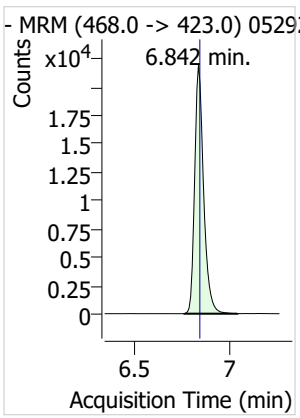


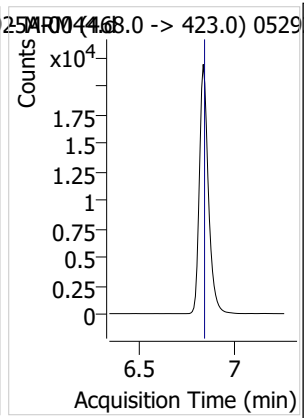


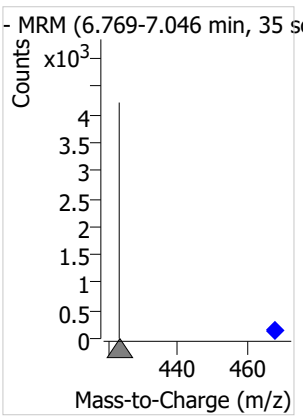




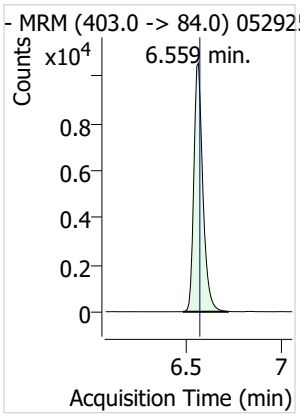
13C5-PFNA

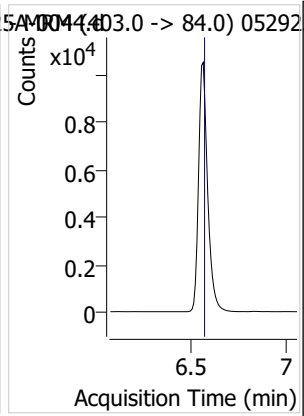


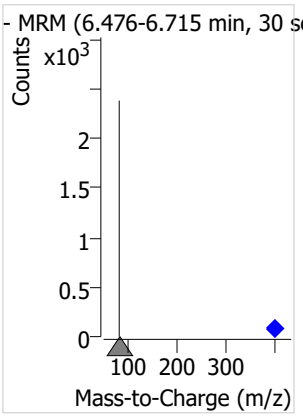




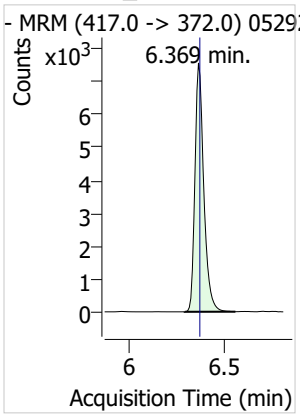
13O2-PFHxS

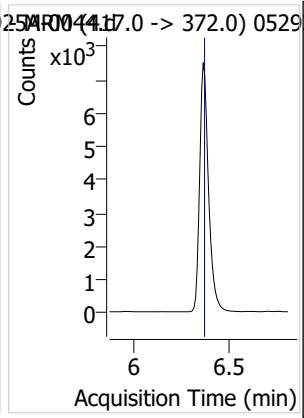


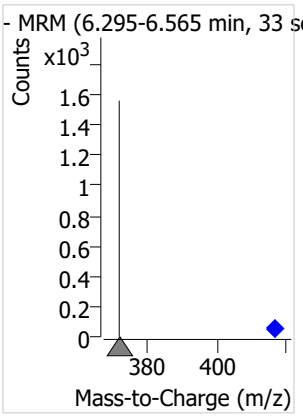




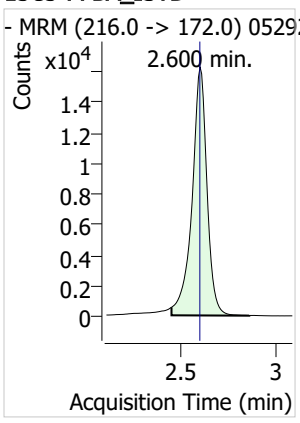
13C4-PFOA_ISTD

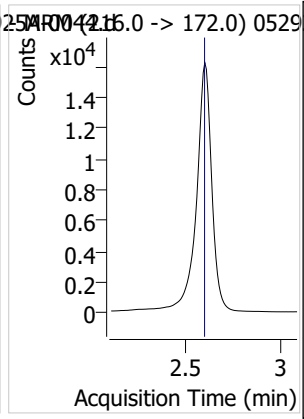


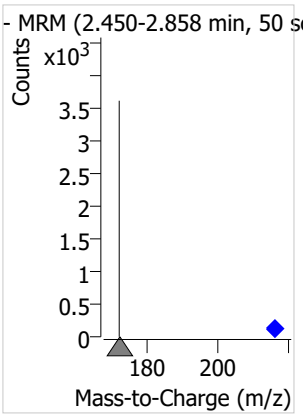




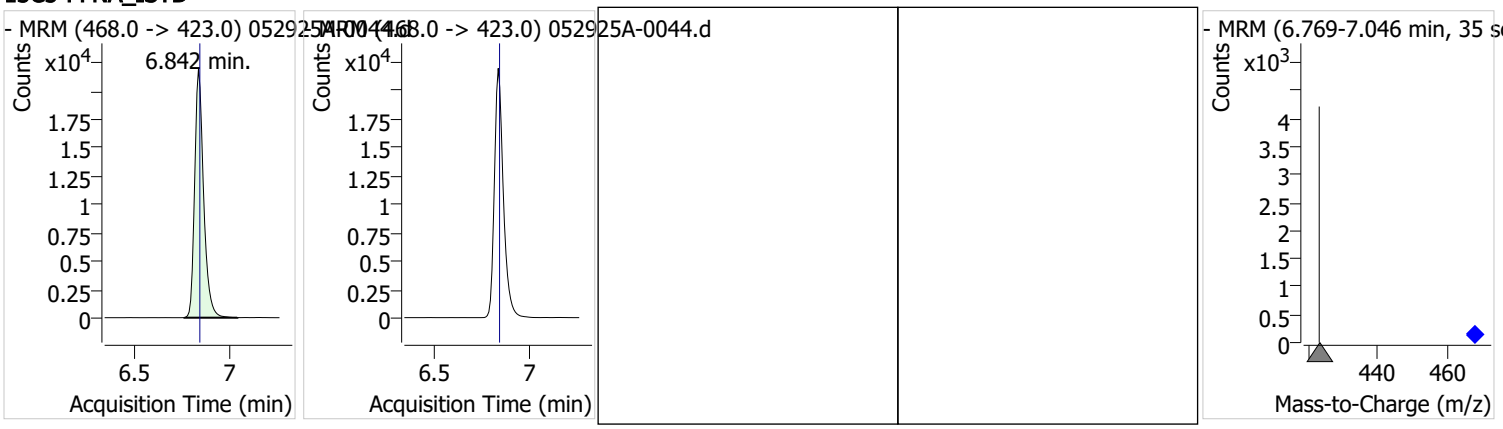
13C3-PFBA_ISTD



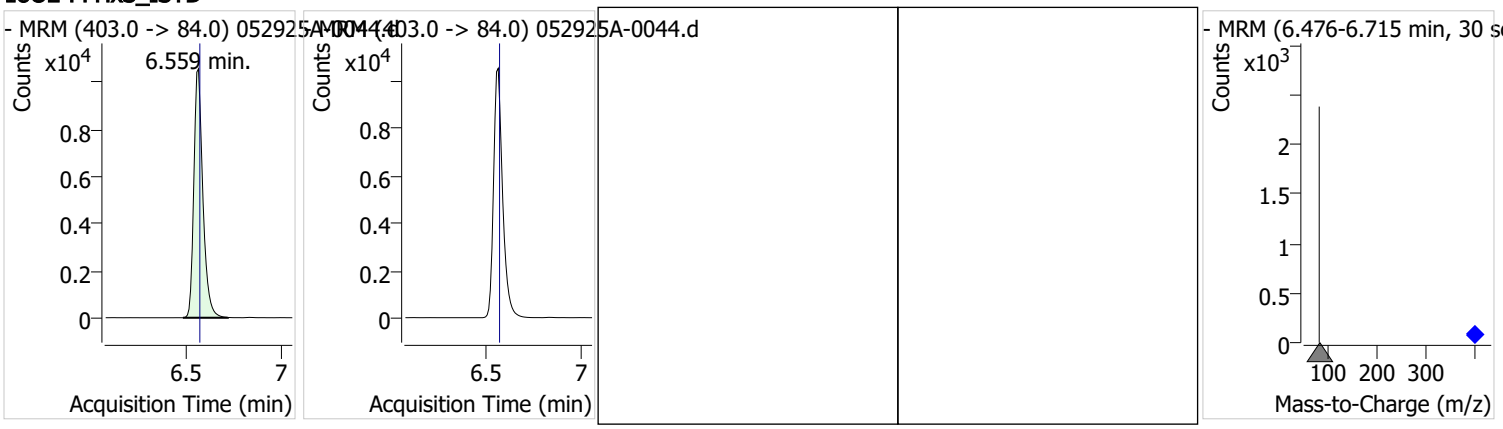




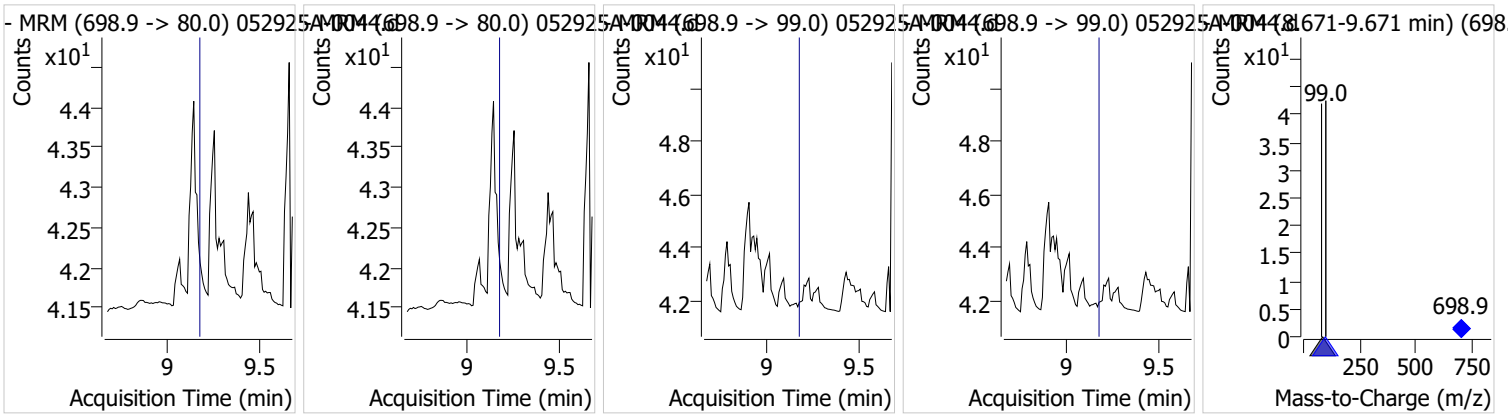
13C5-PFNA_ISTD



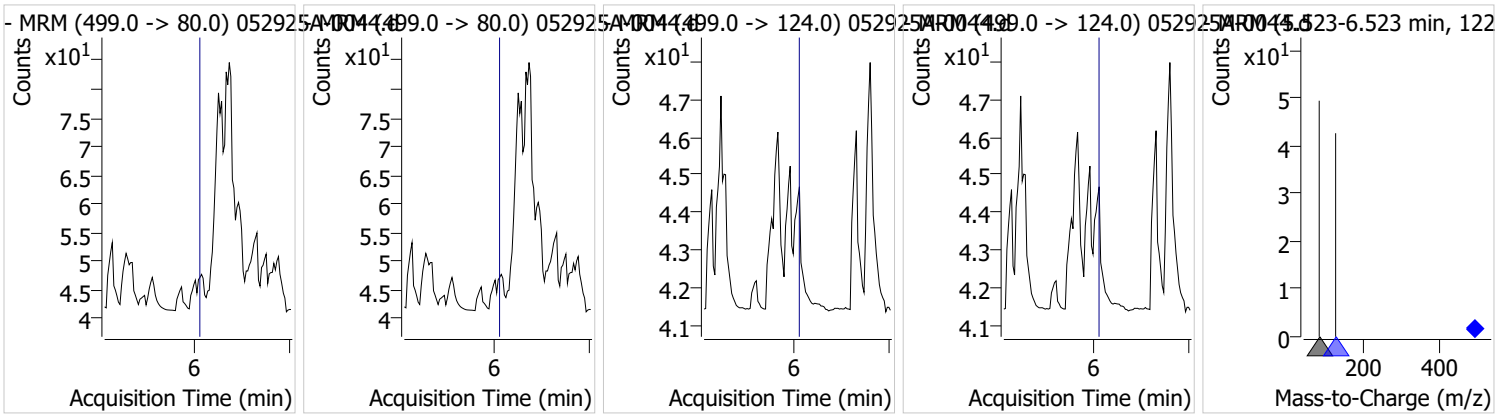
18O2-PFHxS_ISTD



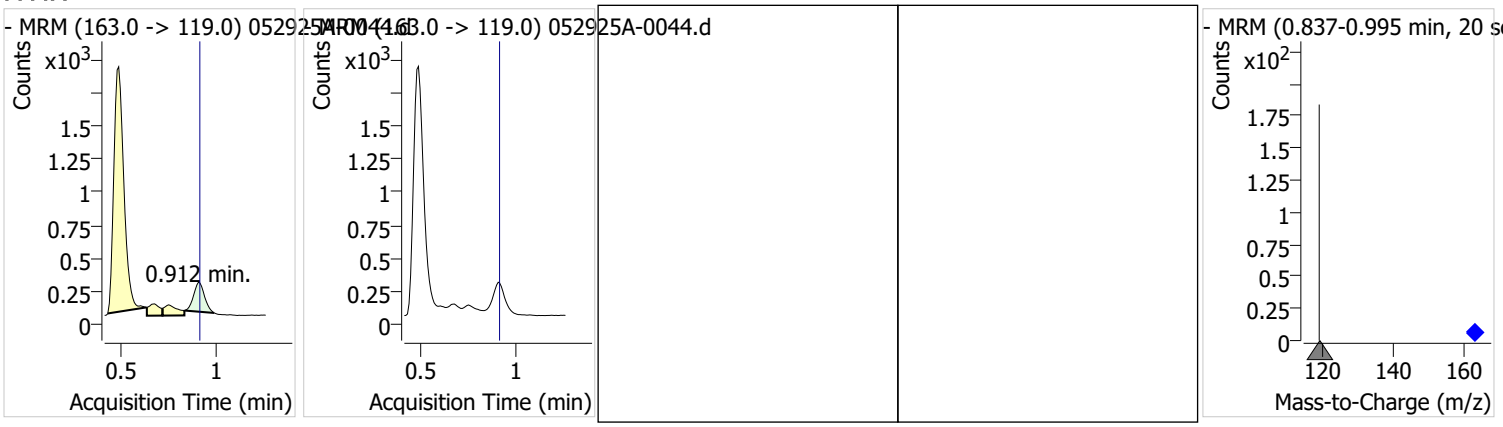
PFDoS



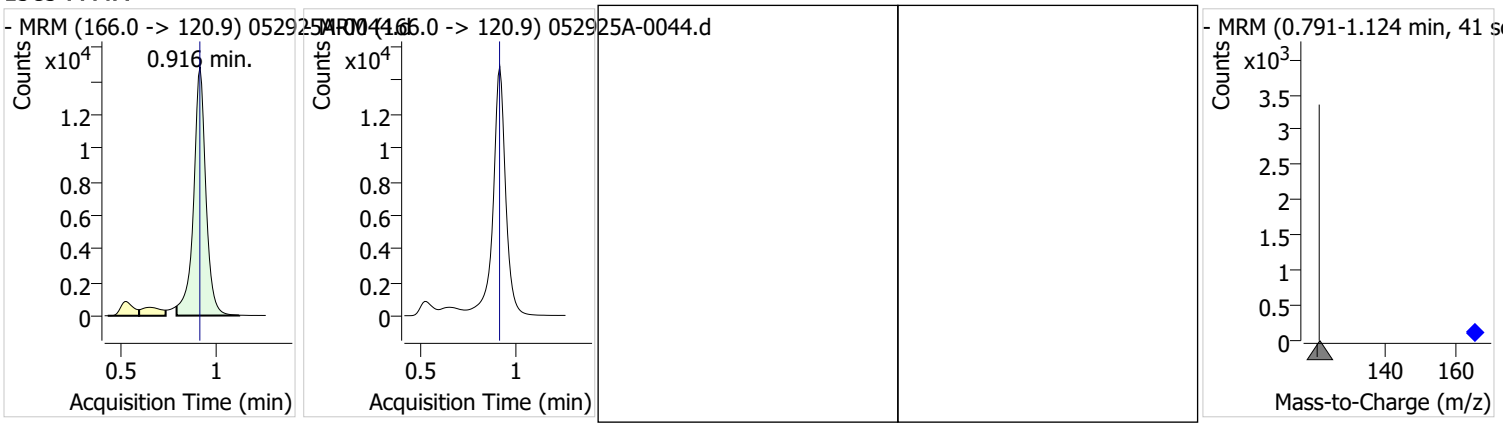
TDCA



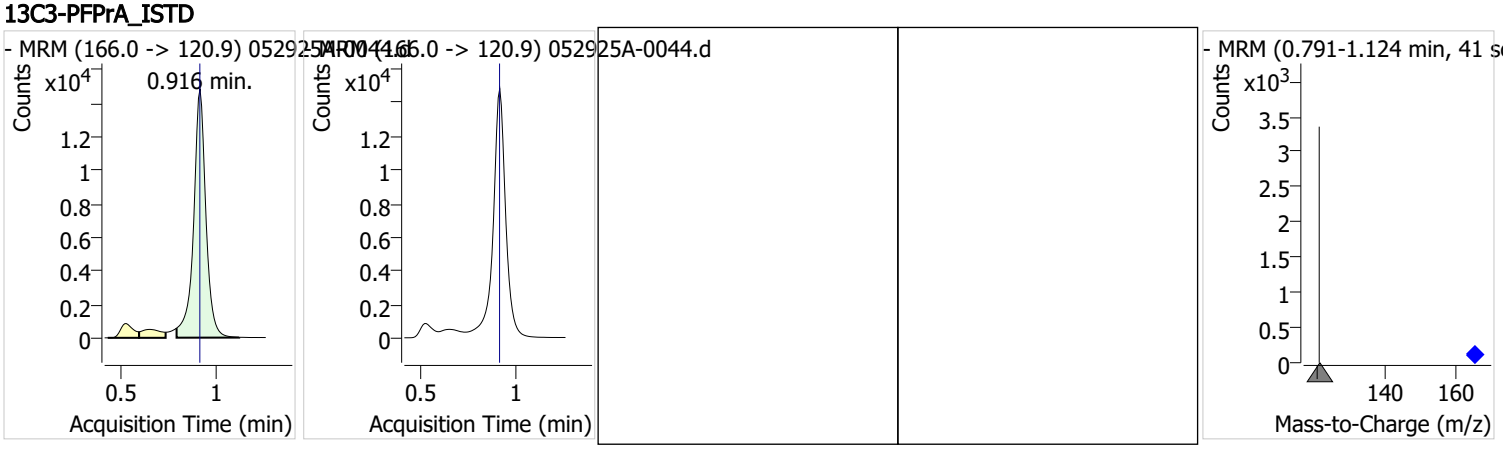
PFPrA



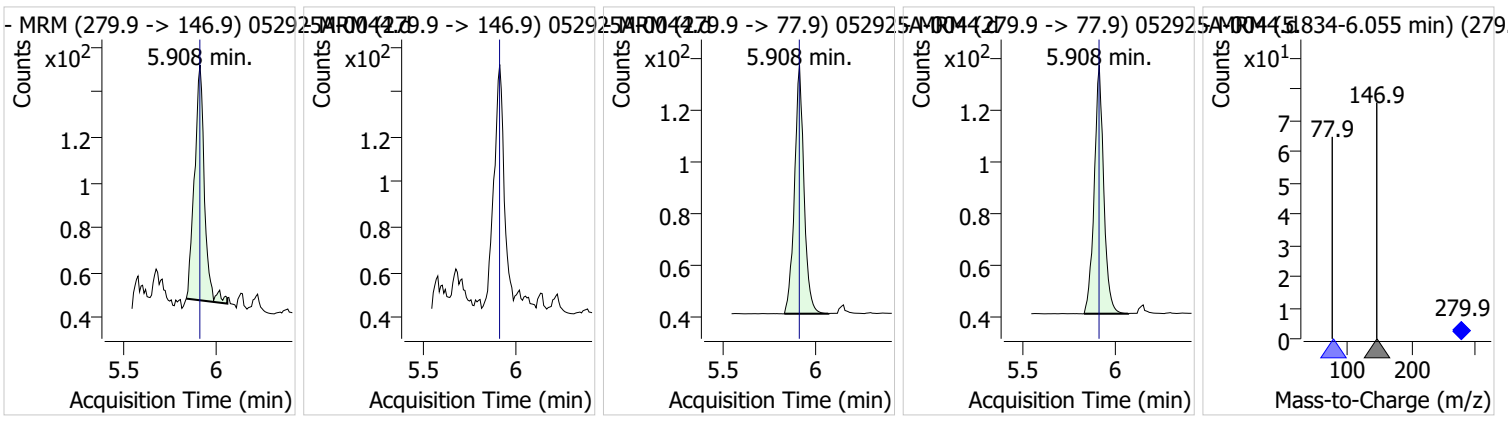
13C3-PFPrA



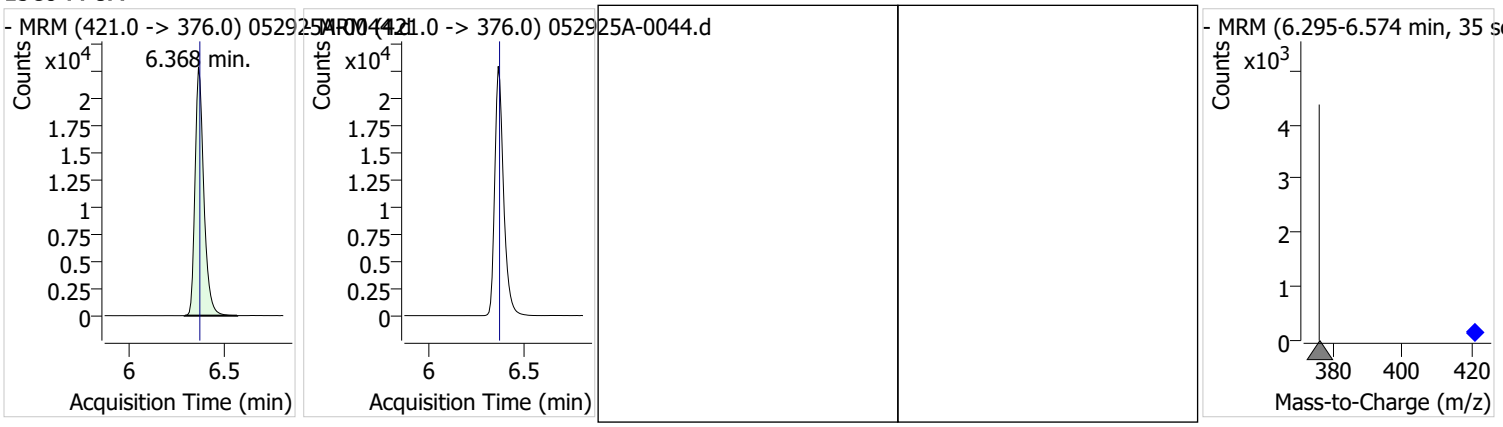
13C3-PFPrA_ISTD



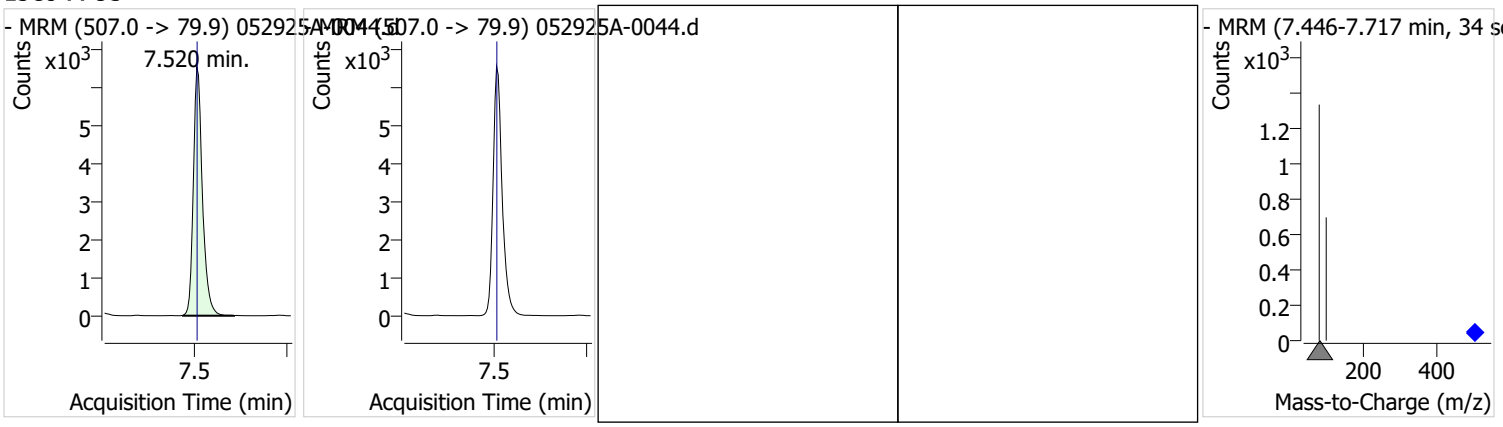
TFSI



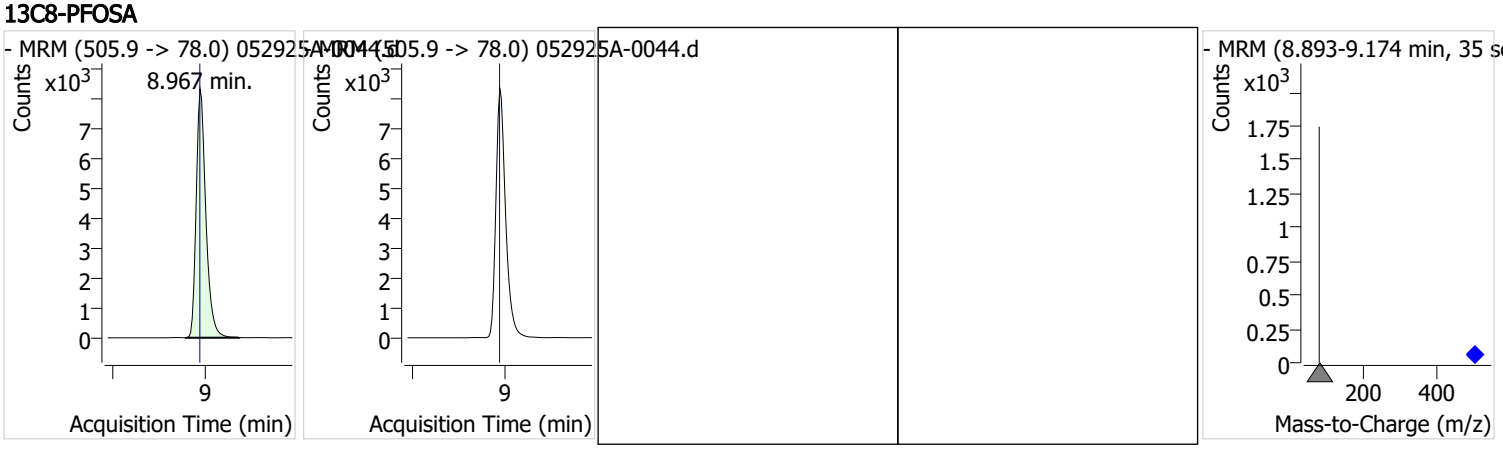
13C8-PFOA



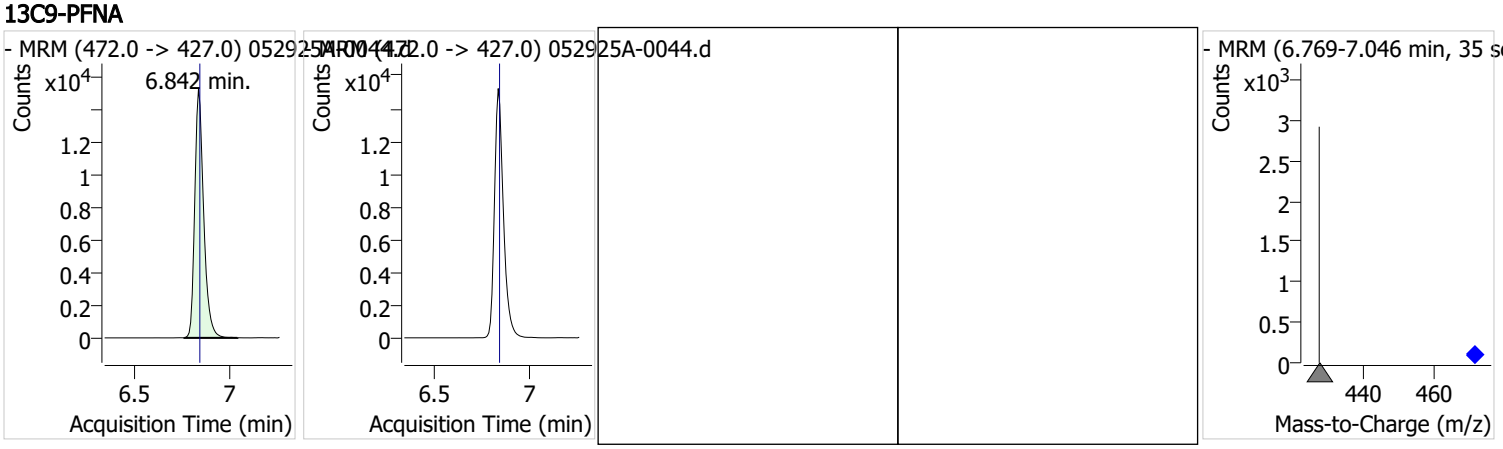
13C8-PFOS



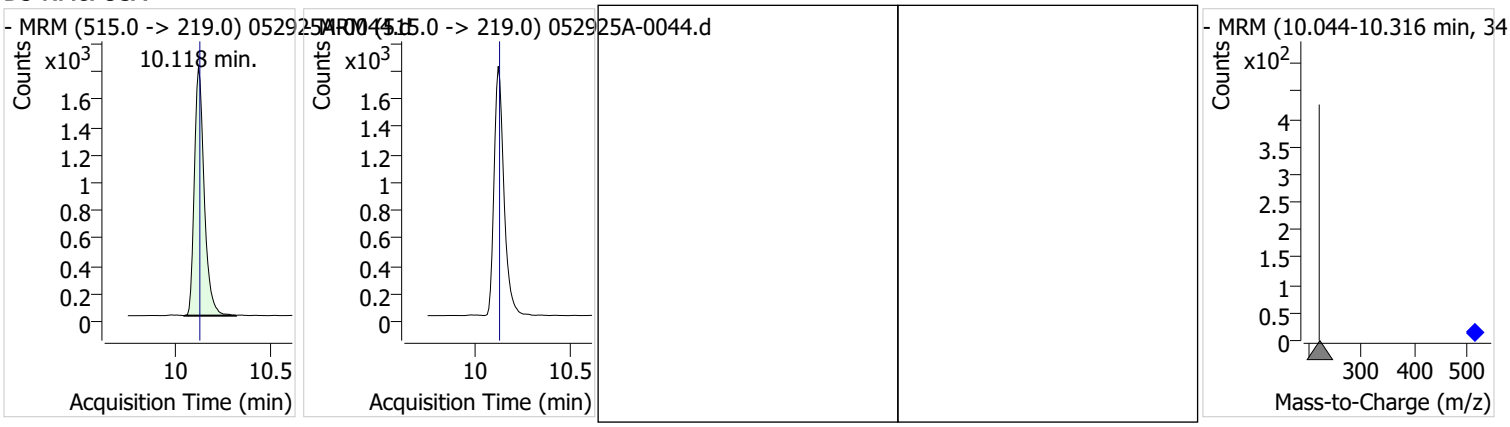
13C8-PFOSA



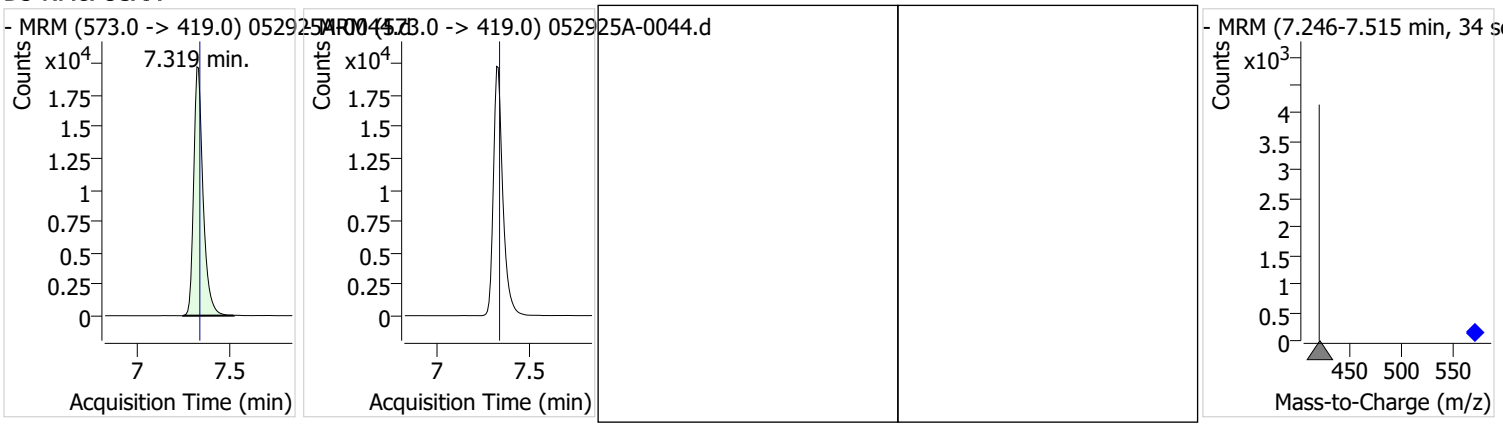
13C9-PFNA



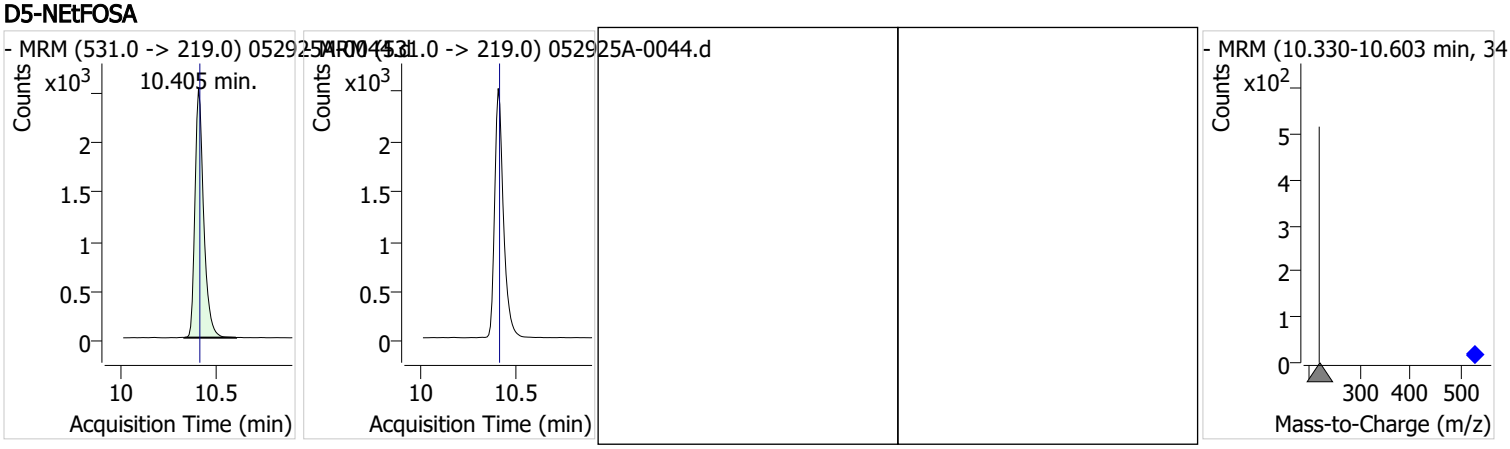
D3-NMeFOSA



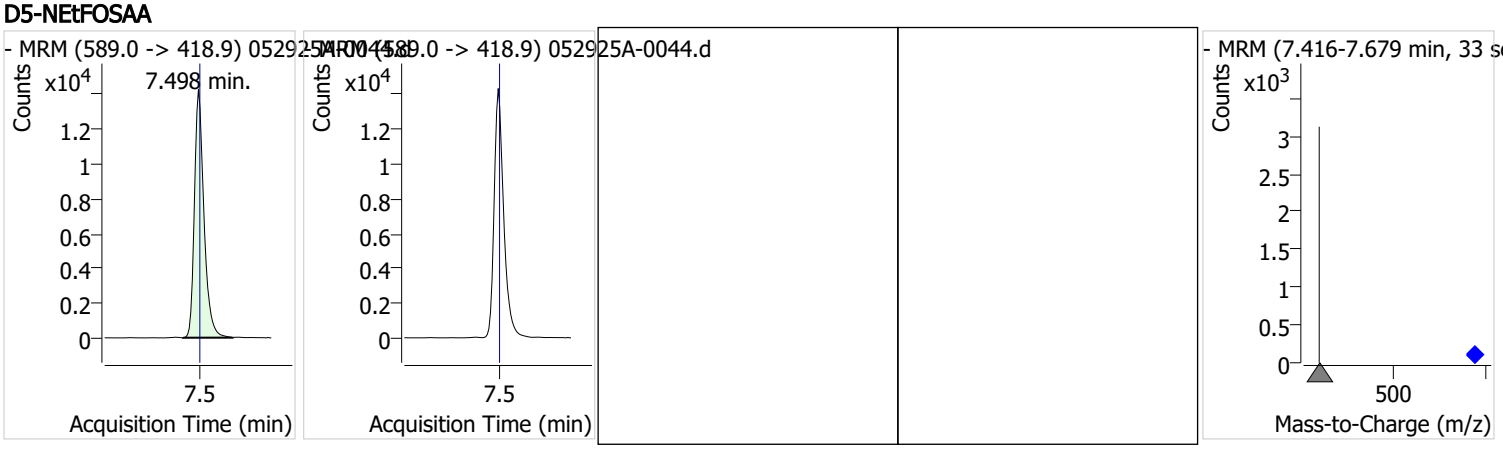
D3-NMeFOSAA



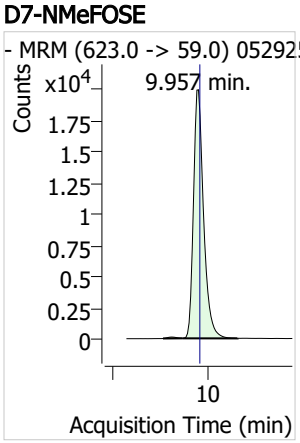
D5-NEtFOSA

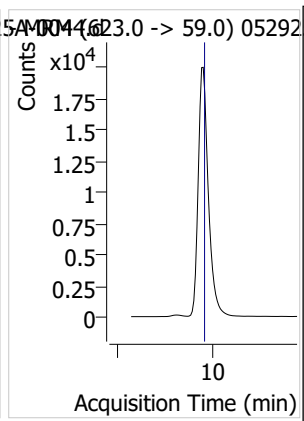


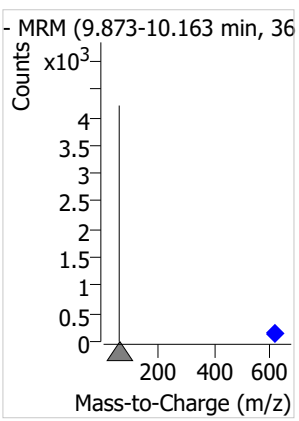
D5-NEtFOSAA



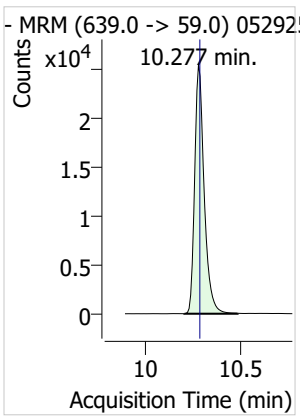
D7-NMeFOSE

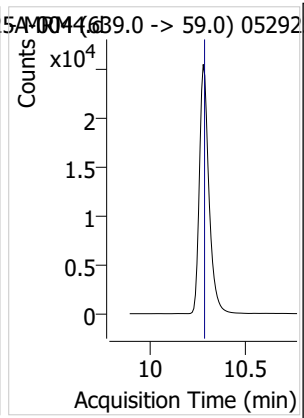


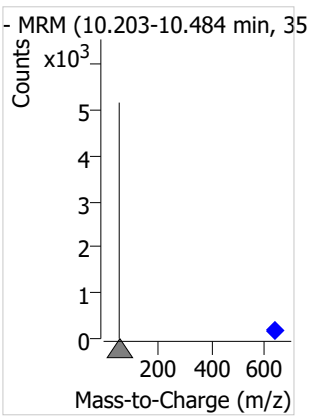




D9-NEtFOSE

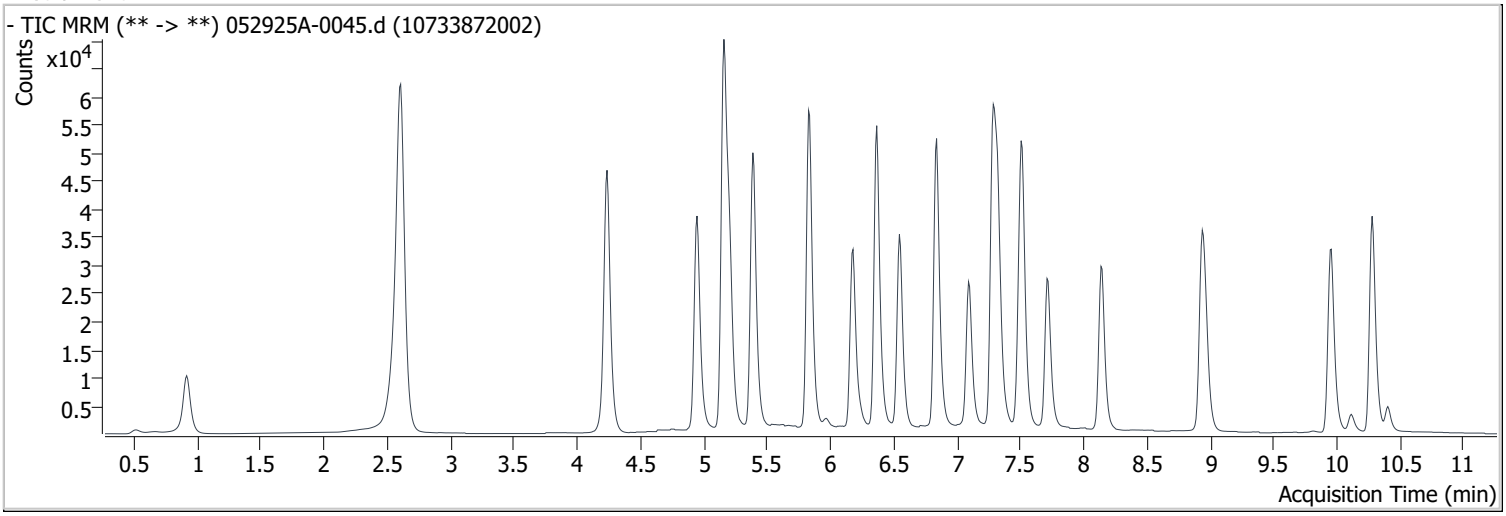






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 8:31 PM	**Data File**	052925A-0045.d
Sample Type	Sample	**Sample Name**	10733872002
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	105505	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	38921	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	29984	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.831	181099	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.092	25419	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	236635	7057.22		13C3-PFBA_ISTD	2.600	101956	9.5360	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.519	33622	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.519	33622	-	ng/ml			
633.0 -> 453.0				*								
PFHpS	7.055	515	38.95		13C8-PFOS_ISTD	7.519	33622	0.0276	ng/ml			
449.0 -> 98.8	7.055	165	52.65	31.9								
13C2-4:2FTS	4.946	38921	9558.12		18O2-PFHxS_ISTD	6.550	37318	6.0570	ng/ml			
13C2-6:2FTS	6.180	29984	6866.07		18O2-PFHxS_ISTD	6.550	37318	6.1932	ng/ml			
13C2-8:2FTS	7.092	25419	152789.52		18O2-PFHxS_ISTD	6.550	37318	5.2307	ng/ml			
13C2-PFDoA	8.138	99158	29104.02		13C2-PFDA_ISTD	7.281	83794	0.9471	ng/ml			
13C2-PFDA	7.281	83794	27103.79					1.7235	ng/ml			
13C2-PFHxA	5.162	102722	30695.65					3.3327	ng/ml			
13C2-PFTeDA	8.928	102565	7821.05		13C2-PFDA_ISTD	7.281	83794	0.8719	ng/ml			
13C4-PFOS	7.520	37918	1759.99					3.4399	ng/ml			
13C3-HFPODA	5.394	105505	31778.20		13C2-PFHxA_ISTD	5.162	102722	9.6130	ng/ml			
13C3-PFBS	5.205	61699	55879.84		18O2-PFHxS_ISTD	6.550	37318	2.4216	ng/ml			
13C3-PFHxS	6.551	42462	16276.39		18O2-PFHxS_ISTD	6.550	37318	2.4613	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	81460	-	ng/ml			
584.0 -> 526.0				*								

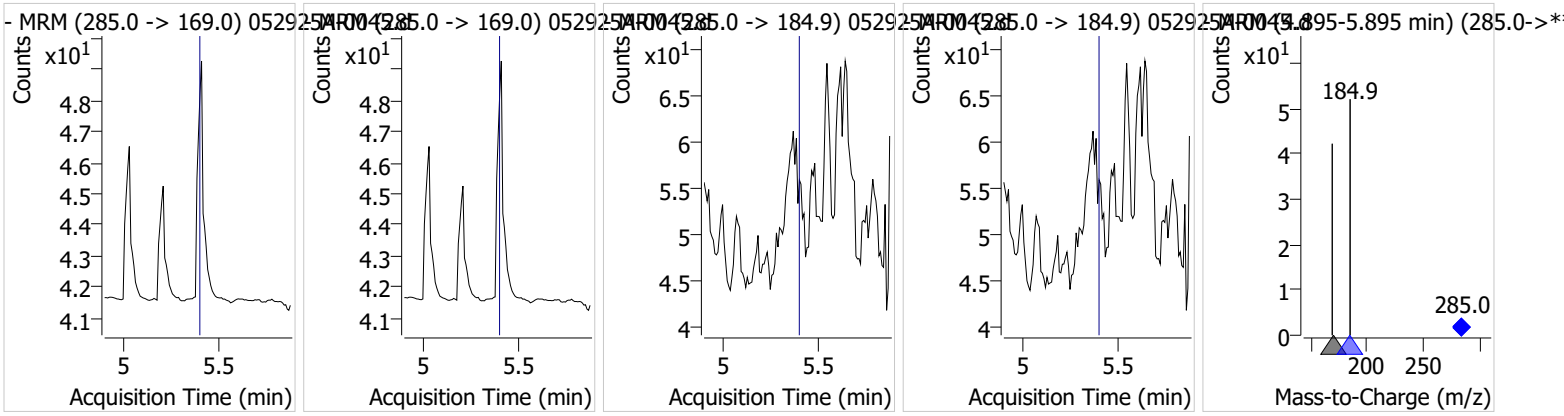
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	181099	20995.61		13C2-PFHxA_ISTD	5.162	102722	2.4826	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.319	109706	-	ng/ml			
570.0 -> 483.0				*								
PFBA	2.603	2046	83.42		13C4-PFBA_ISTD	2.606	236635	0.0868	ng/ml			
13C5-PFHxA	5.161	111495	137294.63		13C2-PFHxA_ISTD	5.162	102722	2.4450	ng/ml			
PFBS	5.205	5484	215.64		13C3-PFBS_ISTD	5.205	61699	0.1685	ng/ml			
298.9 -> 98.8	5.213	1887	535.27	34.4								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	10519	-	ng/ml			
512.0 -> 169.0				*								
PFDA	7.200	0	0.00		13C6-PFDA_ISTD	7.289	86523	-	ng/ml	✔	INT	MJL 5/30/25
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.138	99158	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	13188	-	ng/ml			
526.0 -> 169.0				*								
PFHpA	5.839	3710	126.90		13C4-PFHpA_ISTD	5.831	181099	0.0457	ng/ml			
362.9 -> 169.0	5.831	512	1092.45	13.8								
PFHxA	5.163	2683	35.03		13C5-PFHxA_ISTD	5.161	111495	0.0516	ng/ml			
313.0 -> 118.9	5.171	104	93.32	3.9								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	119625	-	ng/ml			
PFHxS	6.498	9940	1591.29		13C3-PFHxS_ISTD	6.551	42462	0.4633	ng/ml			
398.9 -> 99.0	6.498	3937	637.50	39.6								
PFNA					13C9-PFNA_ISTD	6.842	84918	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	133931	-	ng/ml			
PFOA	6.300	17634	384.55		13C8-PFOA_ISTD	6.368	124921	0.2988	ng/ml			
413.0 -> 169.0	6.300	5855	937.97	33.2								
PFOS	7.399	6197	447.84		13C8-PFOS_ISTD	7.519	33622	0.3118	ng/ml			
499.0 -> 99.0	7.402	1404	119.18	**22.7								
PFPeA	4.239	946	68.91		13C5-PFPeA_ISTD	4.237	173140	0.0243	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	236635	-	ng/ml			
13C5-PFPeA	4.237	173140	34524.26		13C2-PFHxA_ISTD	5.162	102722	4.7592	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	173140	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.138	99158	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	111495	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	86523	1695.22		13C2-PFDA_ISTD	7.281	83794	1.0966	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	111495	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.967	48343	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.713	88791	6569.53		13C2-PFDA_ISTD	7.281	83794	1.0076	ng/ml			
13C4-PFOA	6.369	27608	8510.71					3.3390	ng/ml			
PFDS					13C8-PFOS_ISTD	7.519	33622	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.519	33622	-	ng/ml			
549.0 -> 98.8				*								
PFPeS	5.971	3200	214.27		13C3-PFHxS_ISTD	6.551	42462	0.1202	ng/ml			
349.0 -> 98.9	5.971	1617	273.55	50.5								

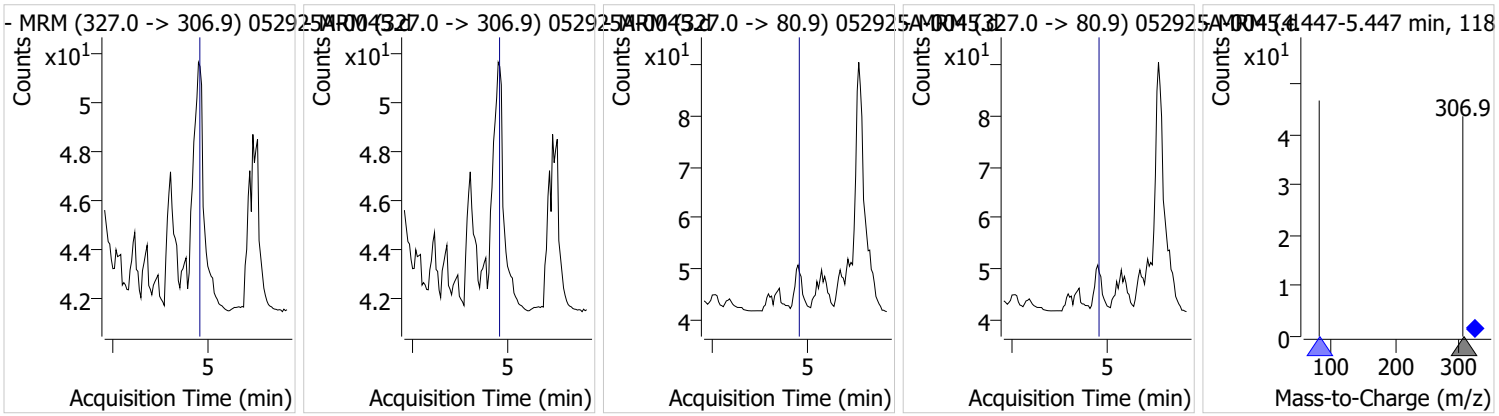
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA					13C2-PFTeDA_ISTD	8.928	102565	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.713	88791	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.600	101956	12025.21					6.7136	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	173140	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	111495	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	84918	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	81213	172950.16					1.7173	ng/ml			
18O2-PFHxS	6.550	37318	21676.67					3.2852	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.519	33622	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.519	33622	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.912	222	22.97		13C3-PFPrA_ISTD	0.916	44753	0.0563	ng/ml	✔	WP	MJL 5/30/25
13C3-PFPrA	0.916	44753	8619.36		13C3-PFBA_ISTD	2.600	101956	4.0575	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	105505	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	124921	39333.86		13C4-PFOA_ISTD	6.369	27608	2.4150	ng/ml			
13C8-PFOS	7.519	33622	5499.30		13C4-PFOS_ISTD	7.520	37918	2.2672	ng/ml			
13C8-PFOSA	8.967	48343	13735.17		13C4-PFOS_ISTD	7.520	37918	2.2671	ng/ml			
13C9-PFNA	6.842	84918	26070.63		13C5-PFNA_ISTD	6.842	81213	1.1834	ng/ml			
D3-NMeFOSA	10.118	10519	1153.81		13C4-PFOS_ISTD	7.520	37918	1.5483	ng/ml			
D3-NMeFOSAA	7.319	109706	2299.19		13C4-PFOS_ISTD	7.520	37918	4.6516	ng/ml			
D5-NEtFOSA	10.405	13188	4085.73		13C4-PFOS_ISTD	7.520	37918	1.6148	ng/ml			
D5-NEtFOSAA	7.498	81460	23234.55		13C4-PFOS_ISTD	7.520	37918	4.5479	ng/ml			
D7-NMeFOSE	9.957	119625	10545.80		13C4-PFOS_ISTD	7.520	37918	18.3409	ng/ml			
D9-NEtFOSE	10.277	133931	4475.38		13C4-PFOS_ISTD	7.520	37918	18.4923	ng/ml			

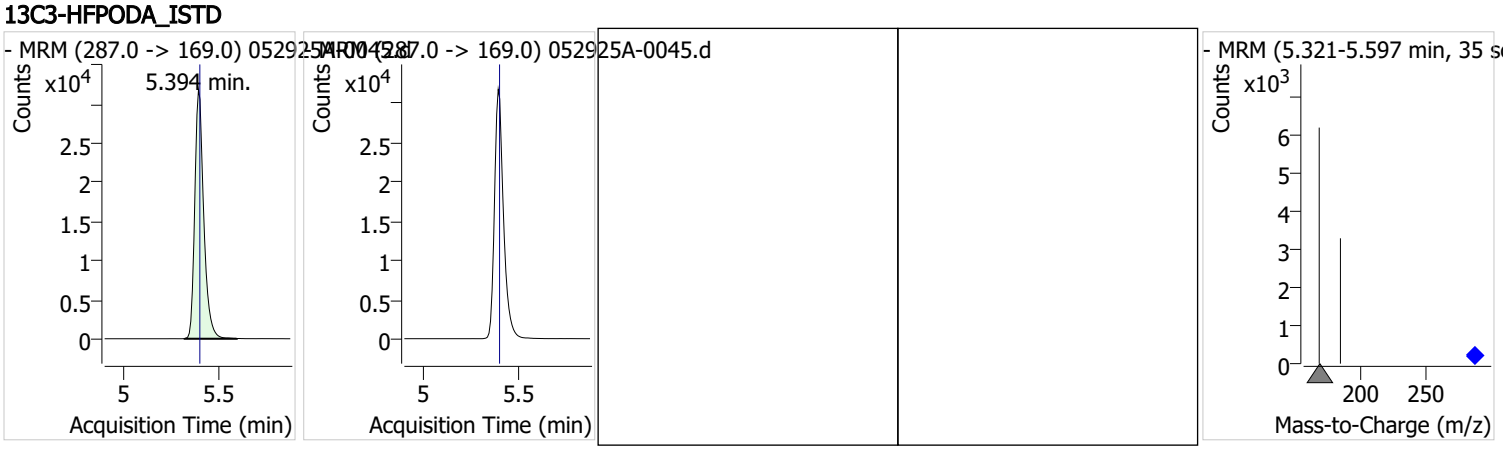
HFPO-DA



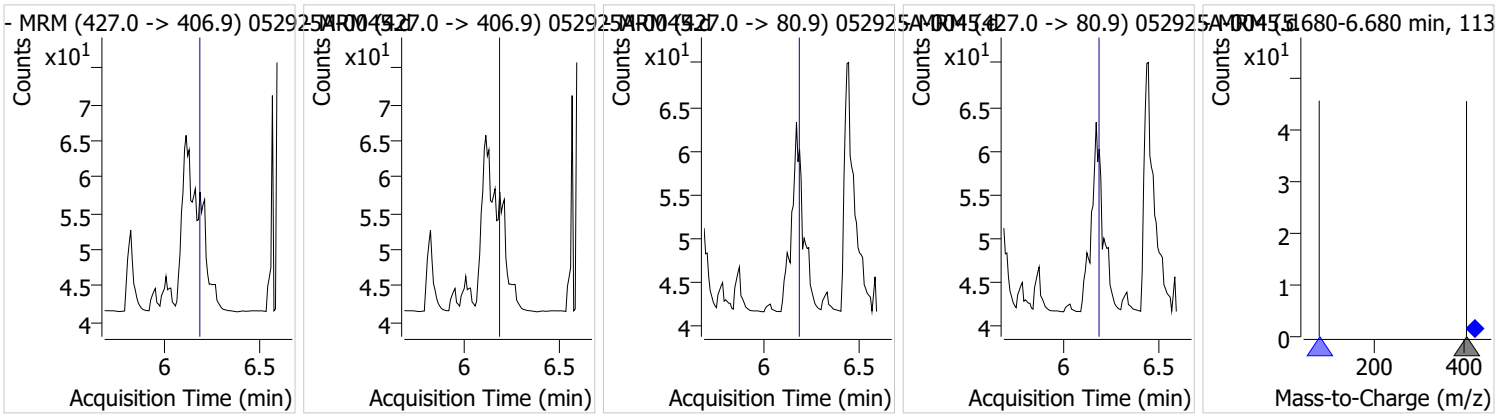
4:2FTS



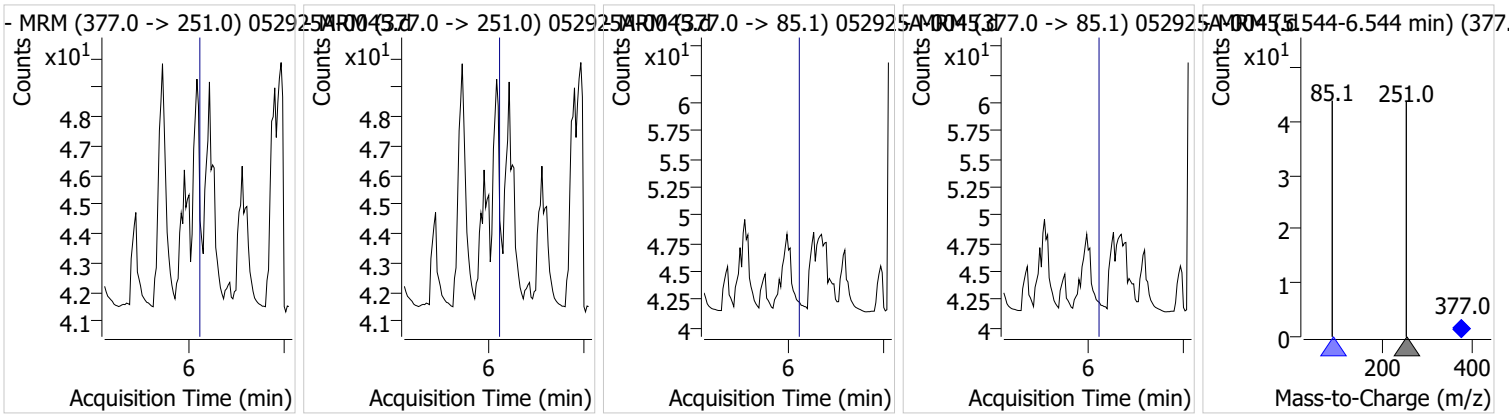
13C3-HFPODA_ISTD



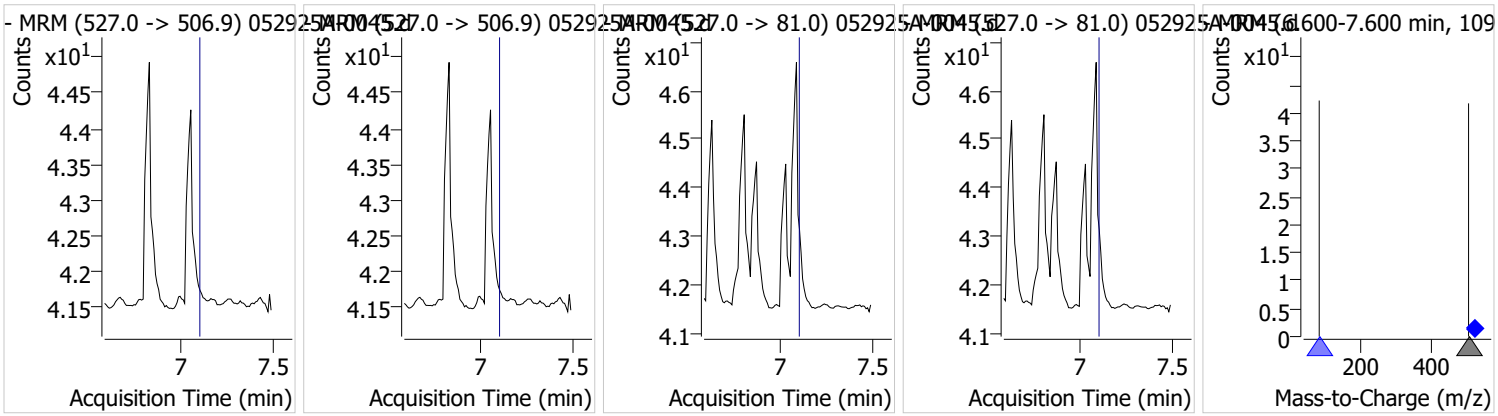
6:2FTS



ADONA



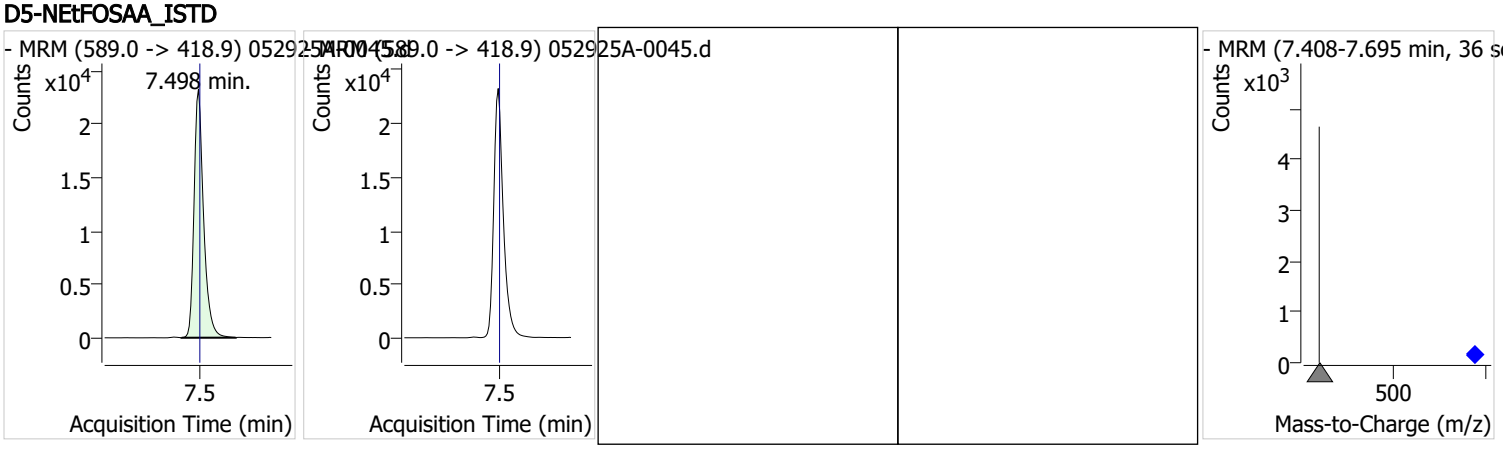
8:2FTS



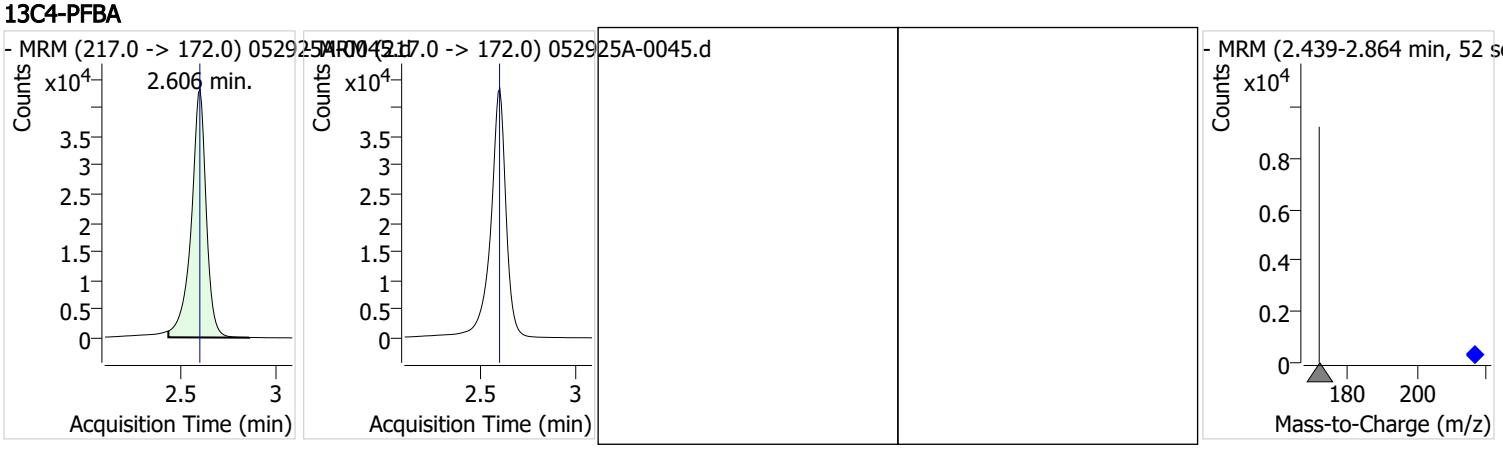
D3-NMeFOSAA_ISTD



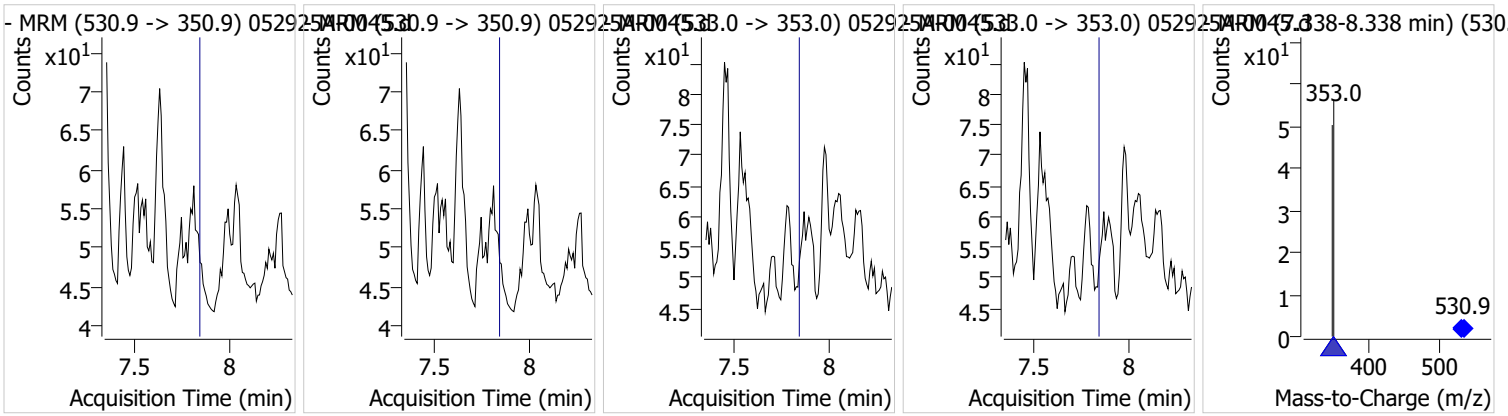
D5-NEtFOSAA_ISTD



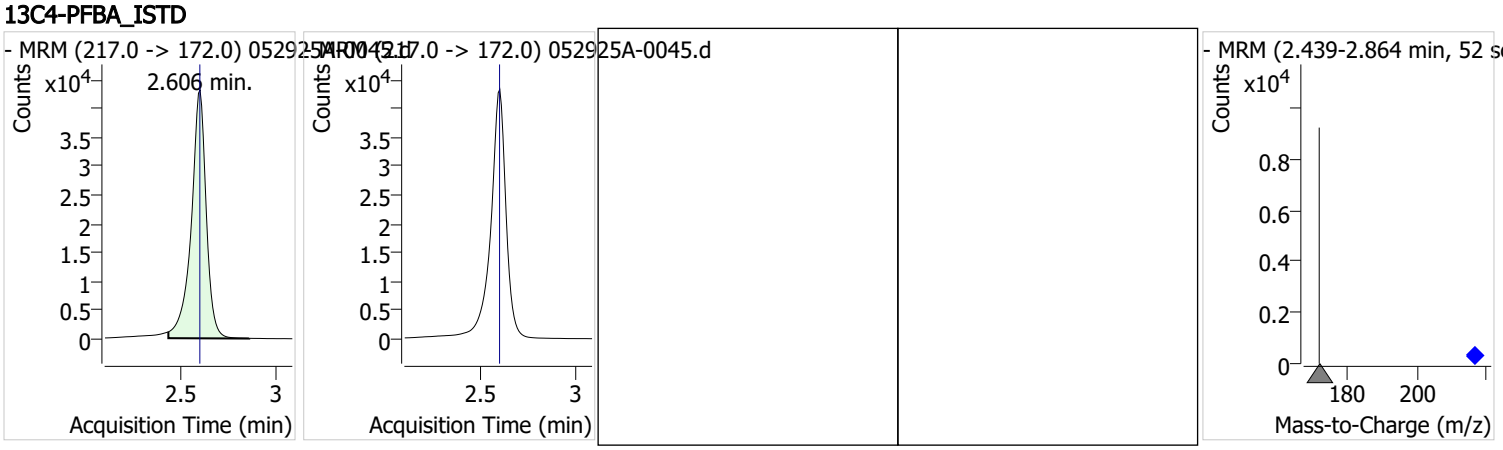
13C4-PFBA



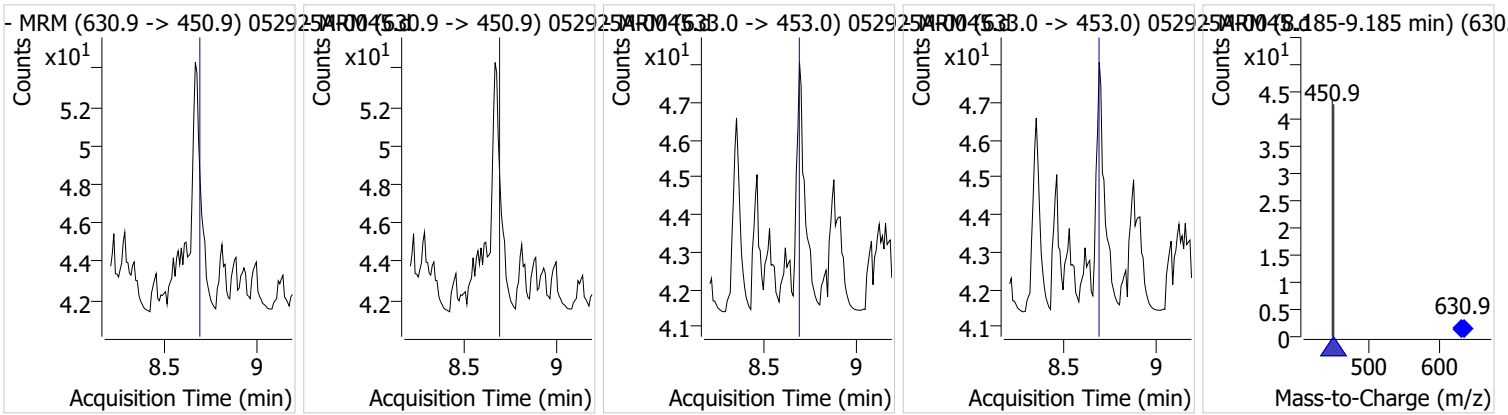
9Cl-PF3ONS



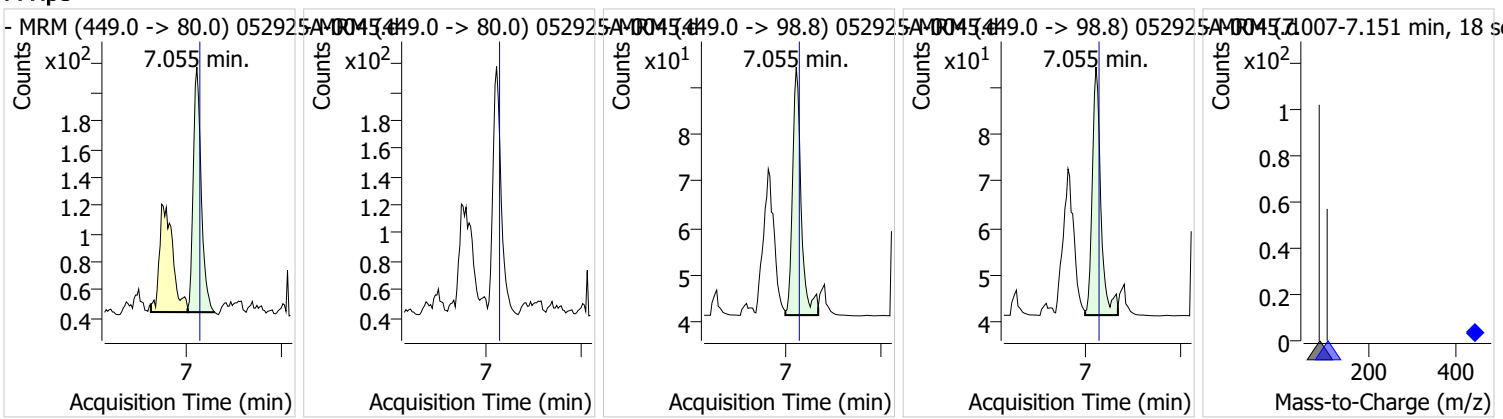
13C4-PFBA_ISTD



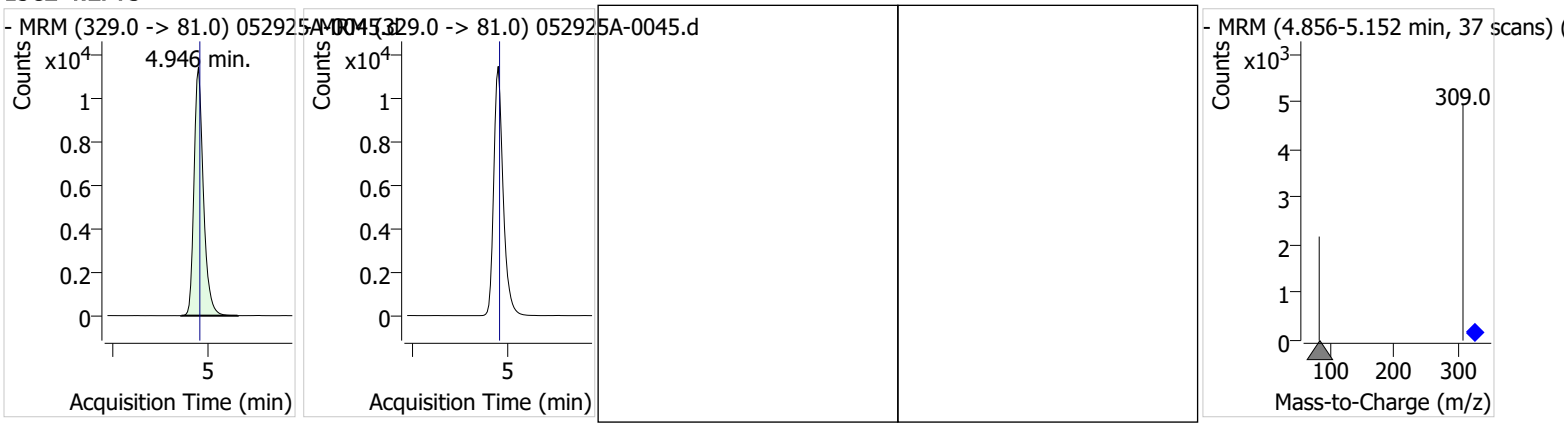
11Cl-PF3OUdS



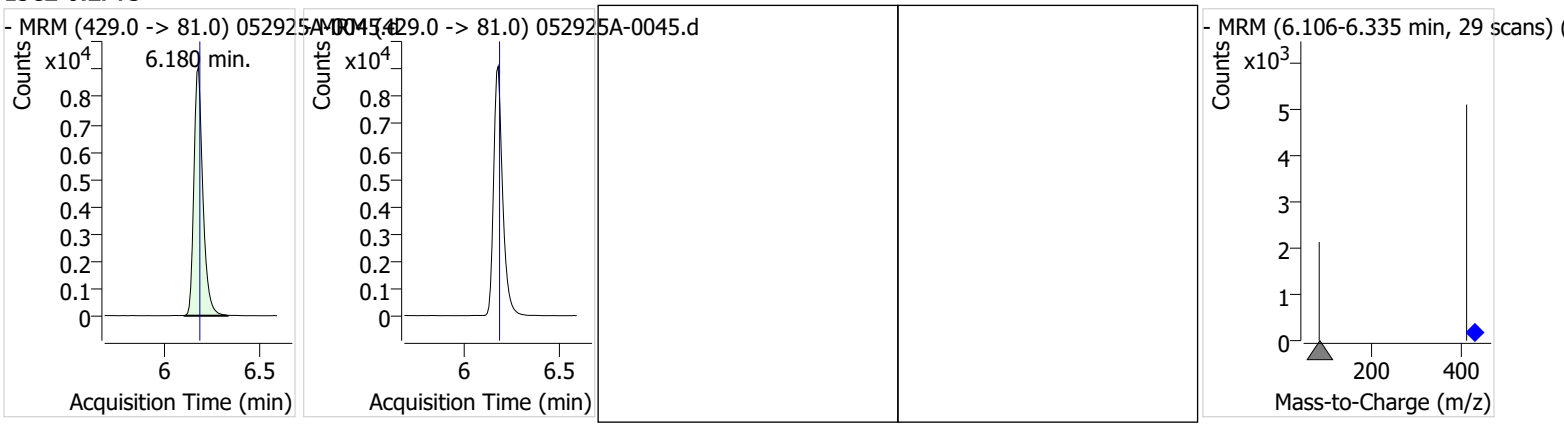
PFHpS



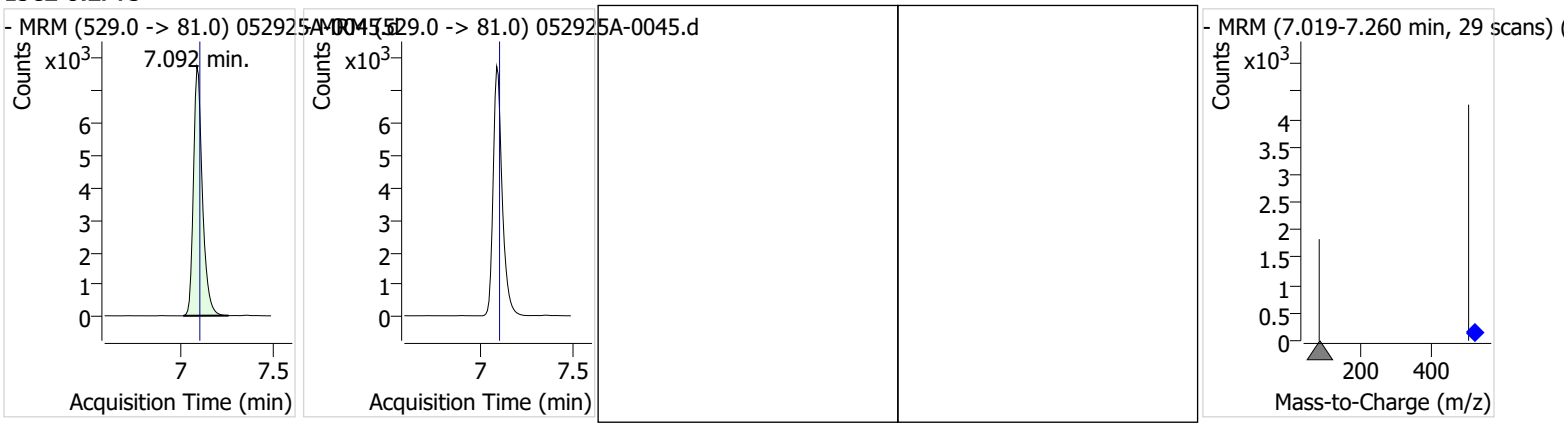
13C2-4:2FTS



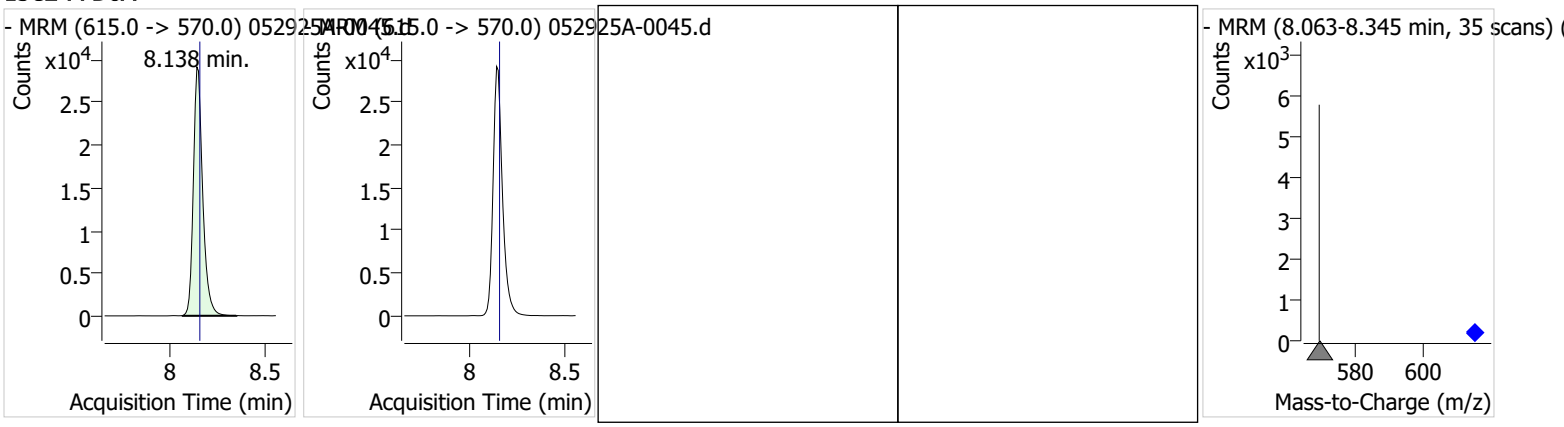
13C2-6:2FTS



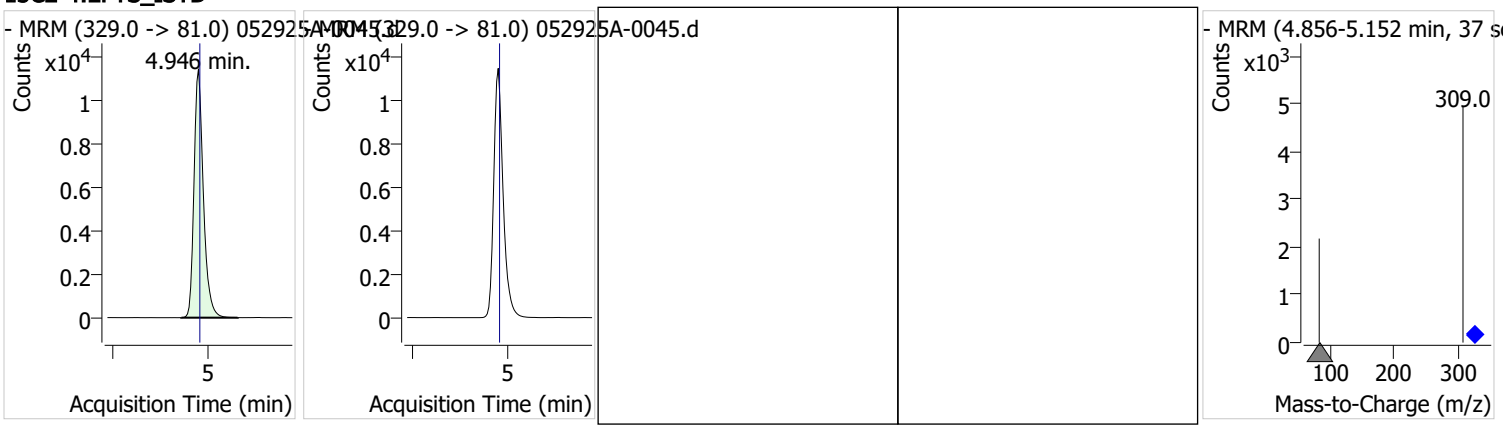
13C2-8:2FTS



13C2-PFDoA



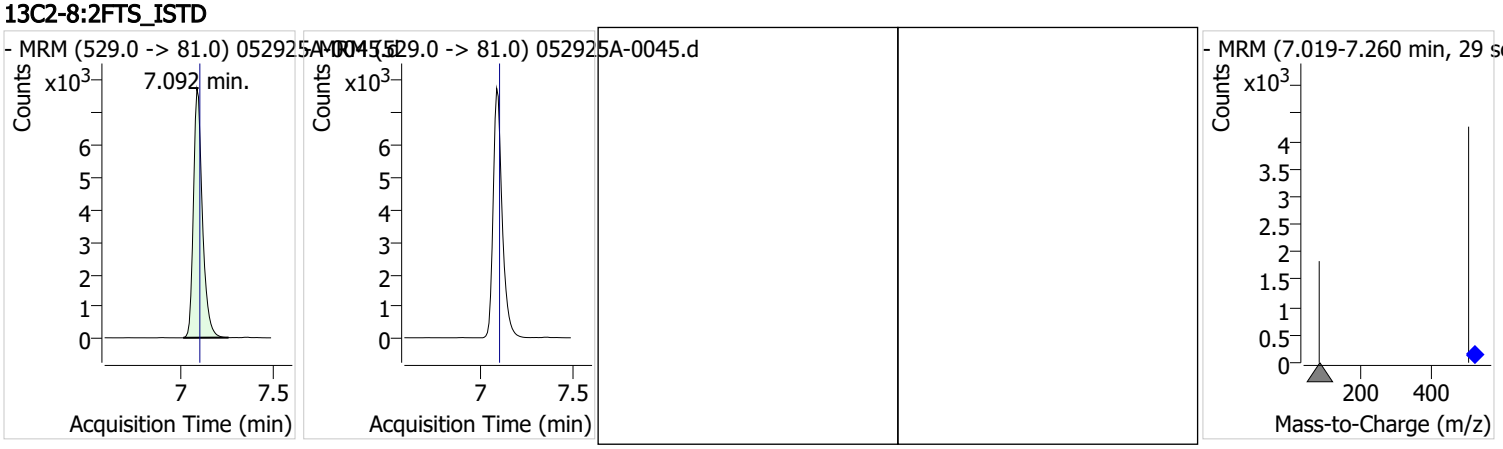
13C2-4:2FTS_ISTD



13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



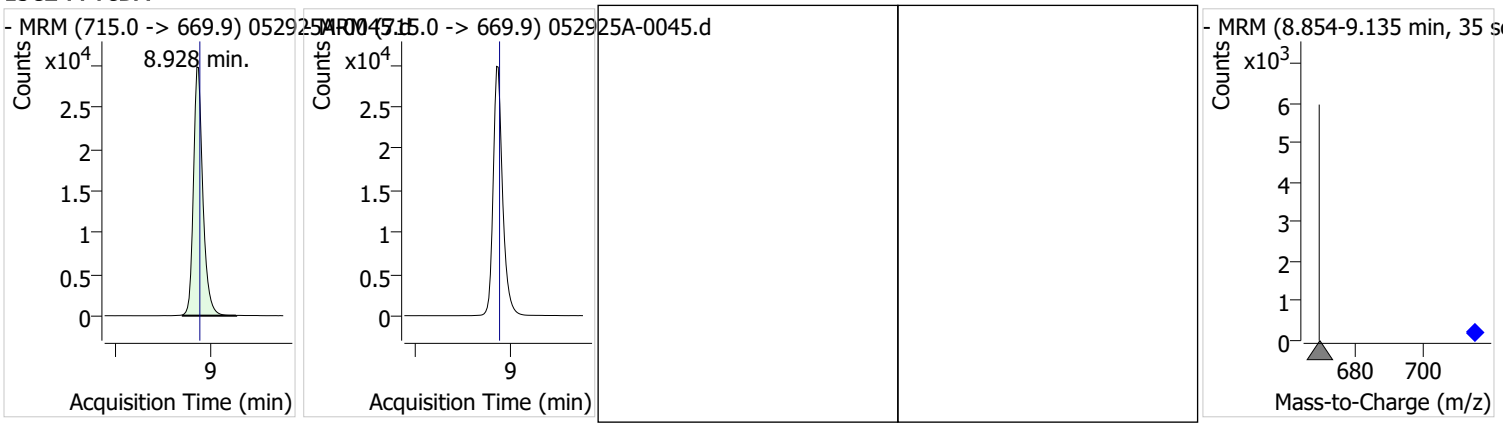
13C2-PFDA



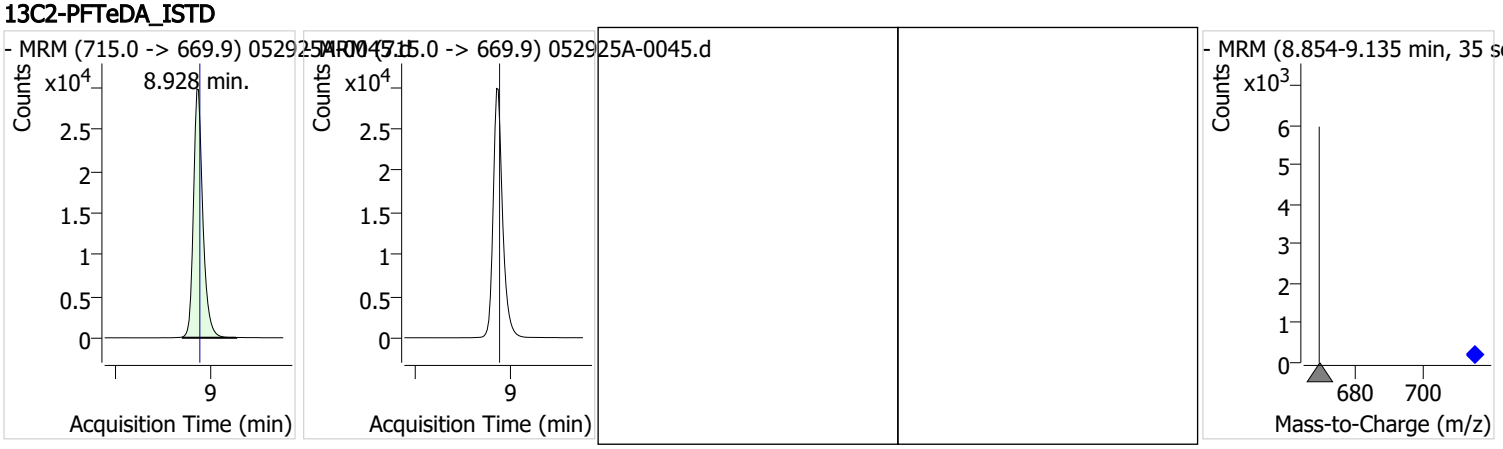
13C2-PFHxA



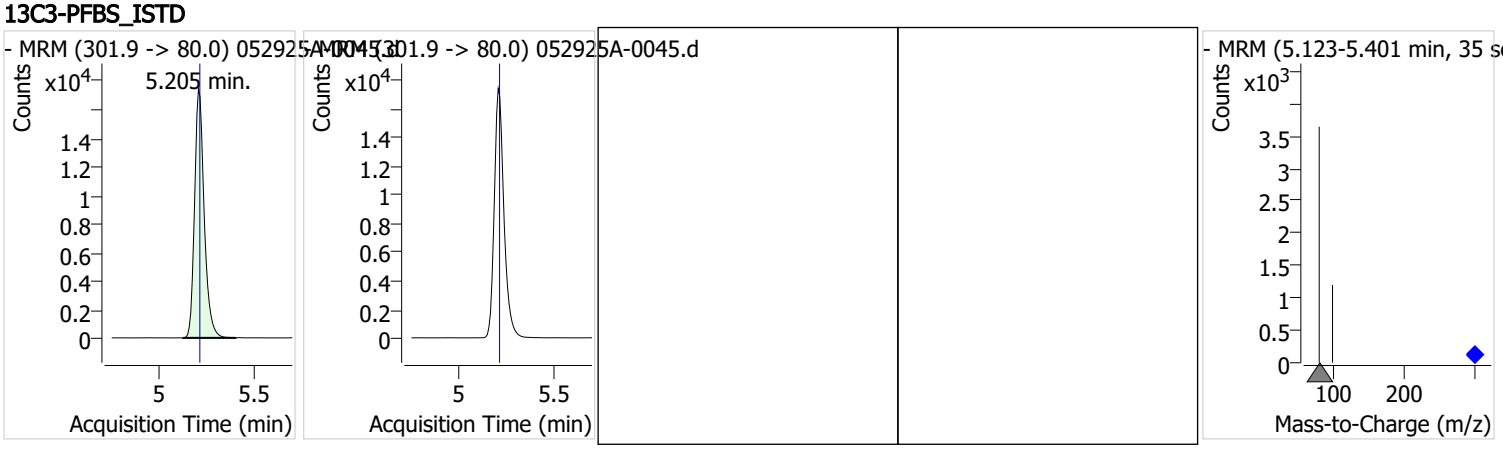
13C2-PFTeDA



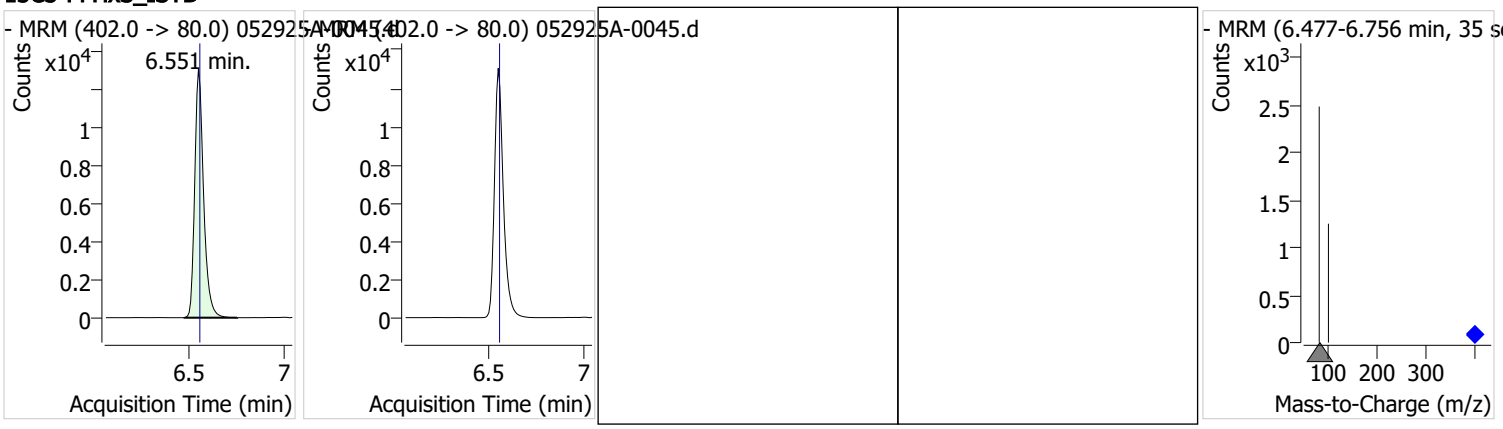
13C2-PFTeDA_ISTD



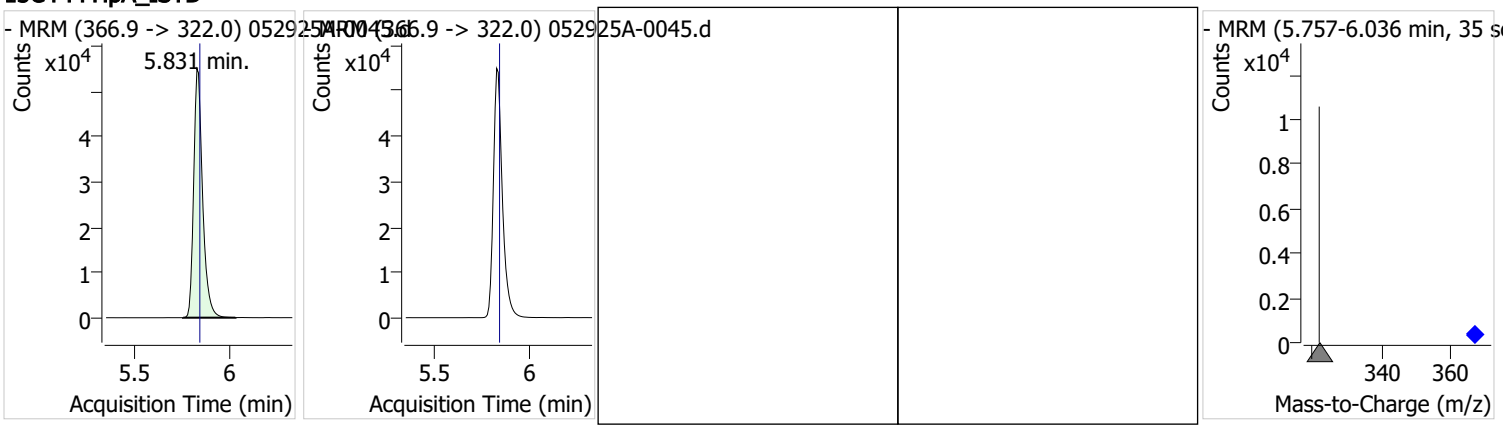
13C3-PFBS_ISTD



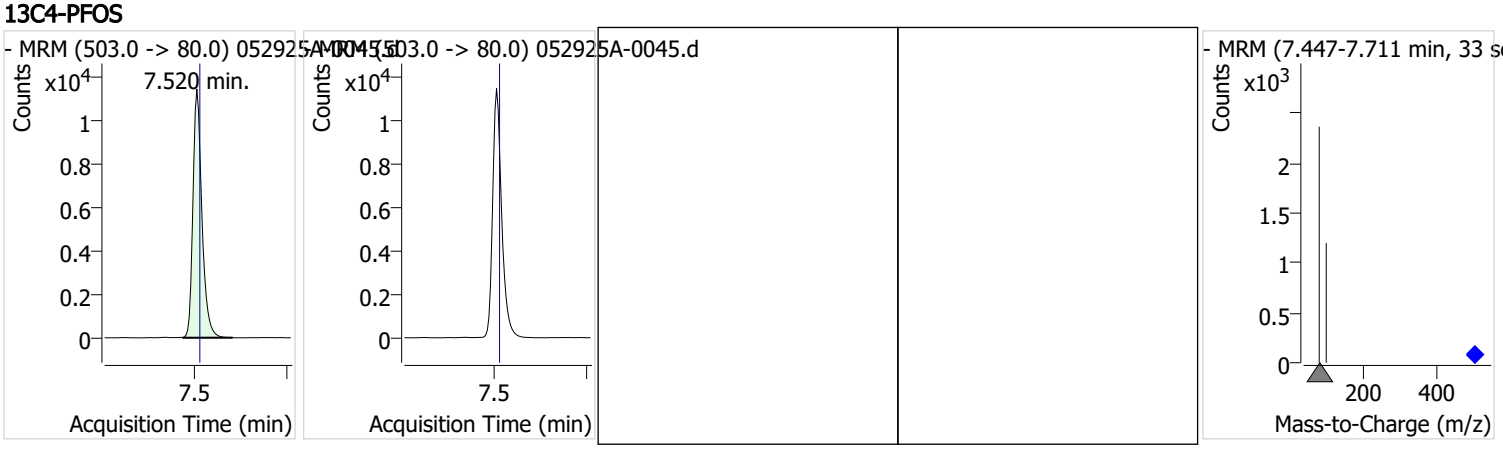
13C3-PFHxS_ISTD



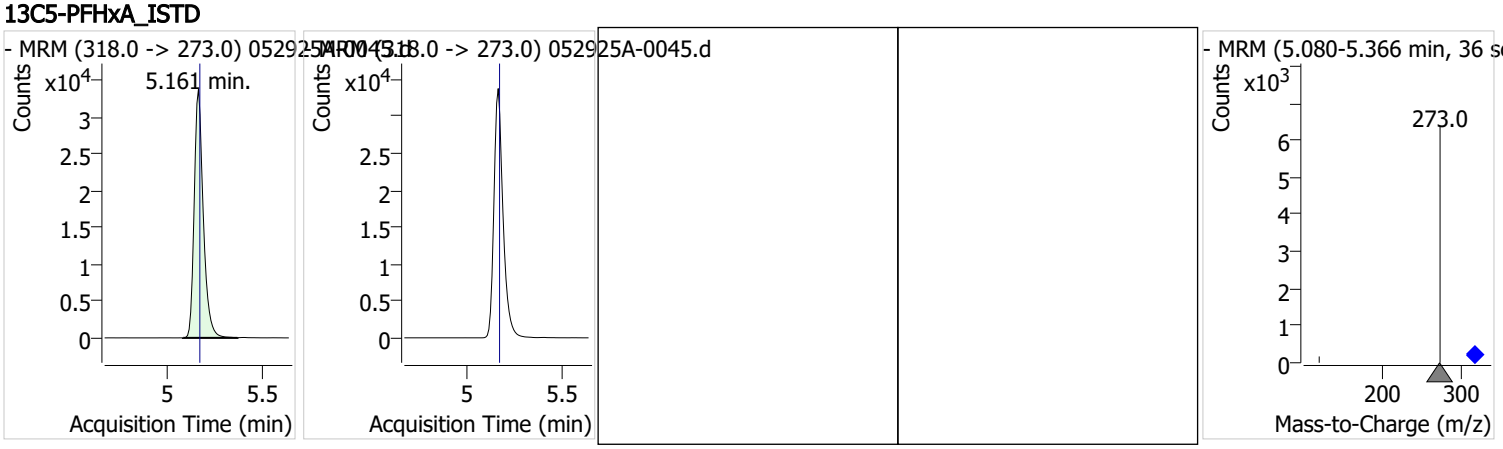
13C4-PFHpA_ISTD



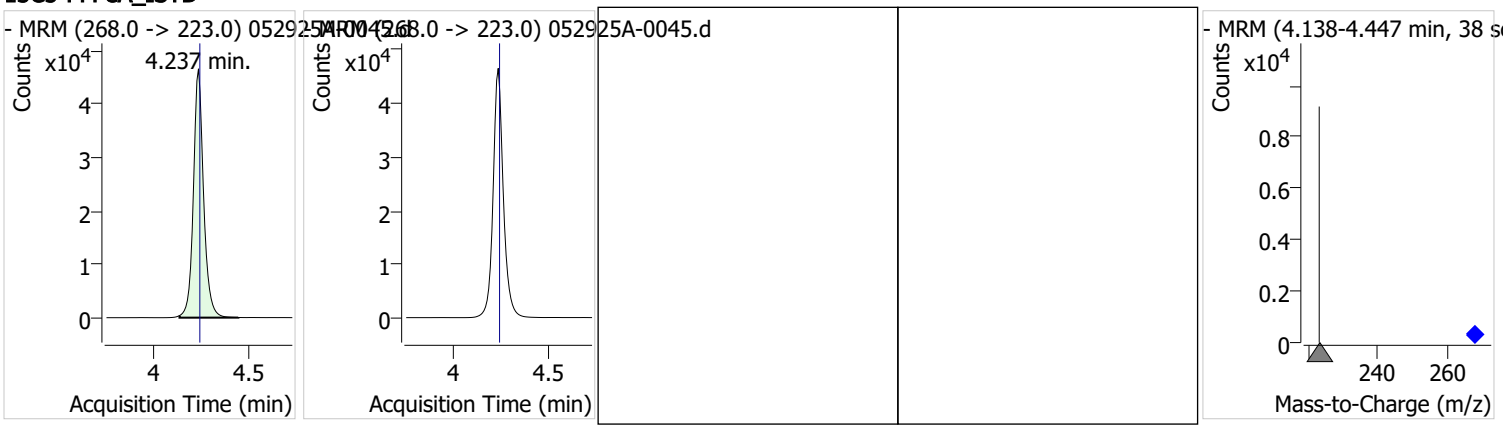
13C4-PFOS



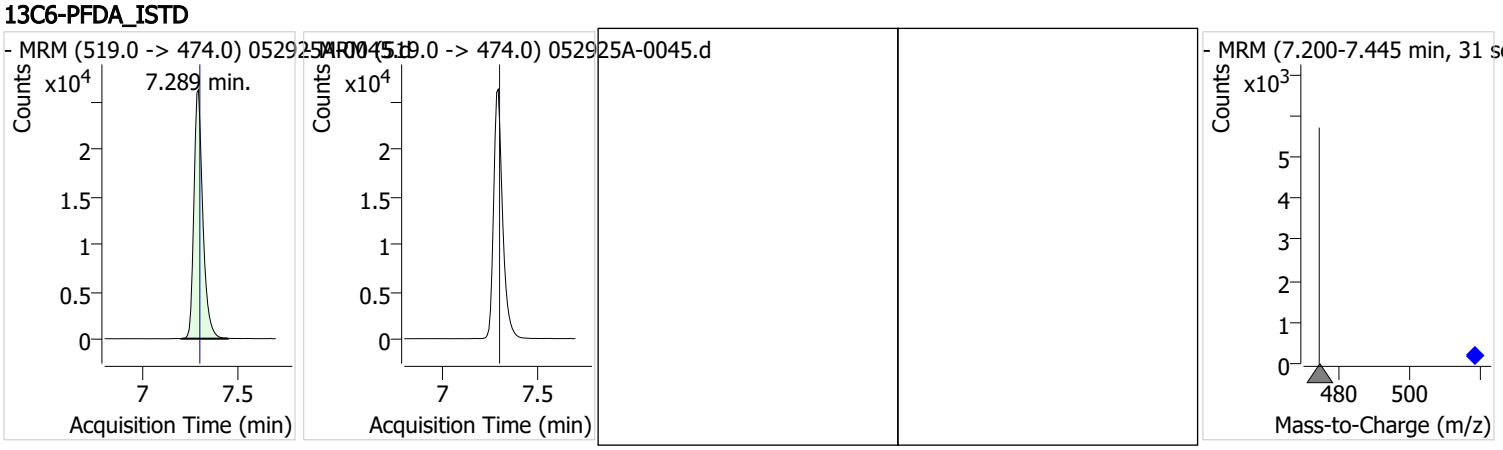
13C5-PFHxA_ISTD



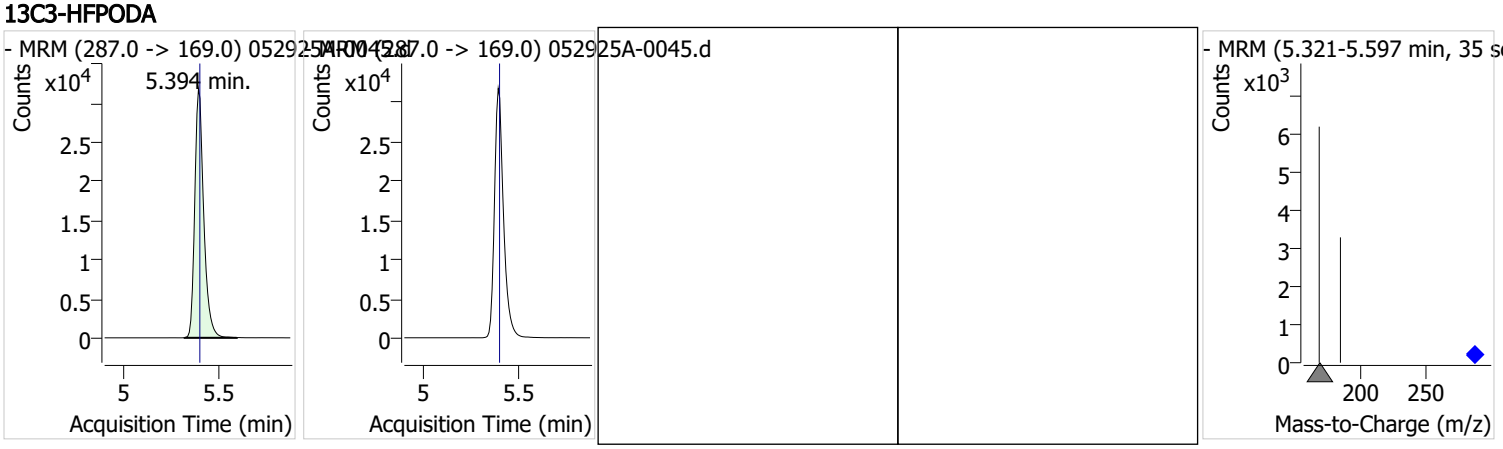
13C5-PFPeA_ISTD



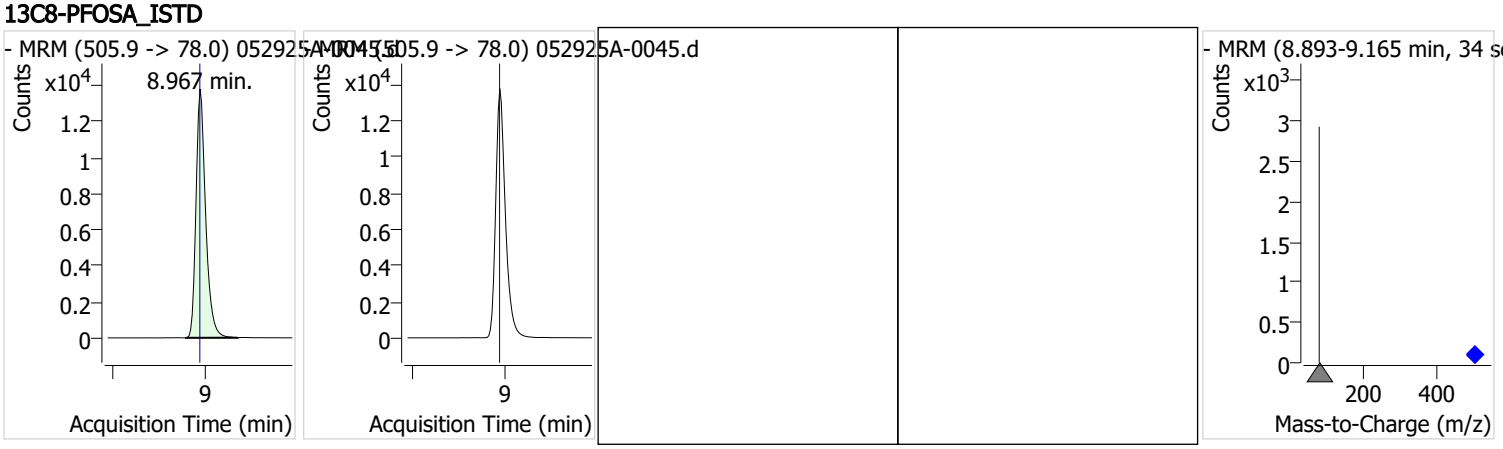
13C6-PFDA_ISTD



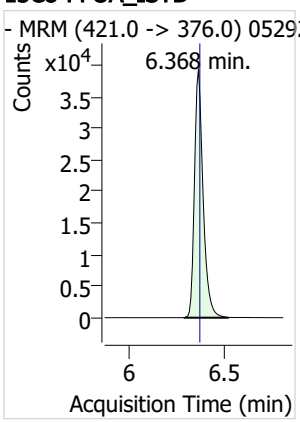
13C3-HFPODA

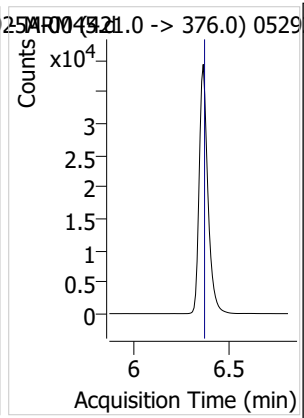


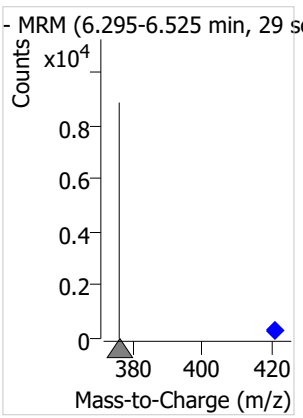
13C8-PFOSA_ISTD



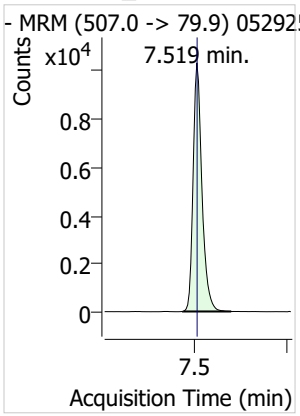
13C8-PFOA_ISTD

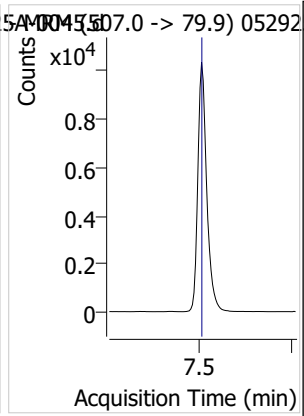


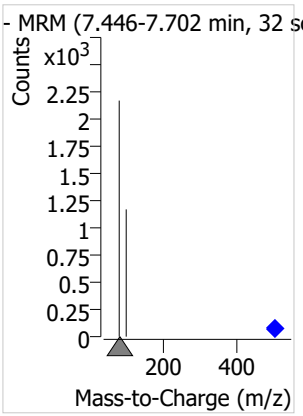




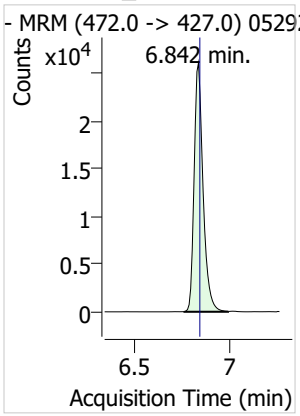
13C8-PFOS_ISTD

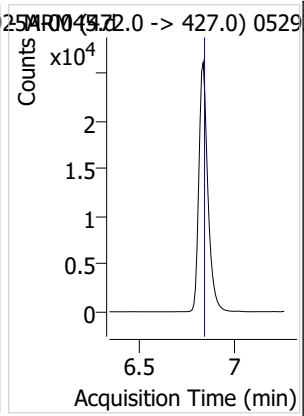


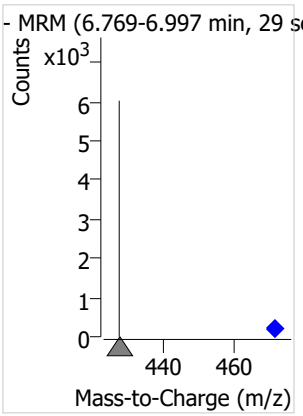




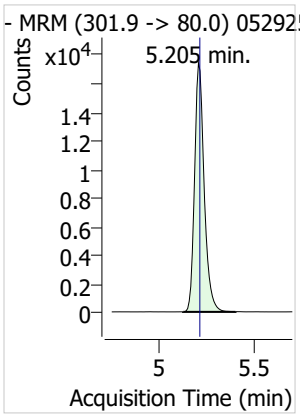
13C9-PFNA_ISTD

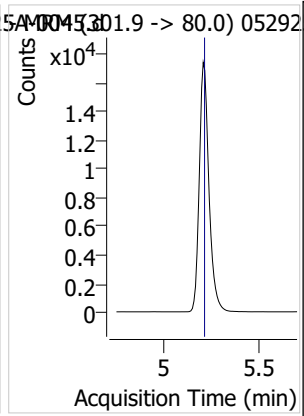


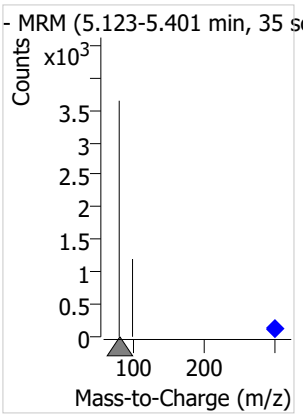




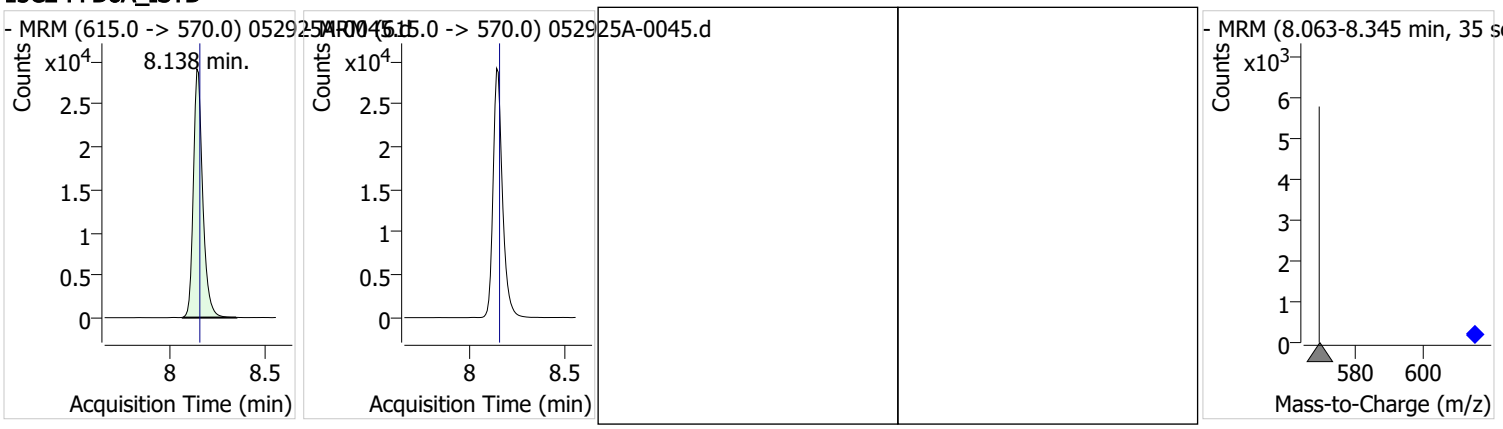
13C3-PFBS



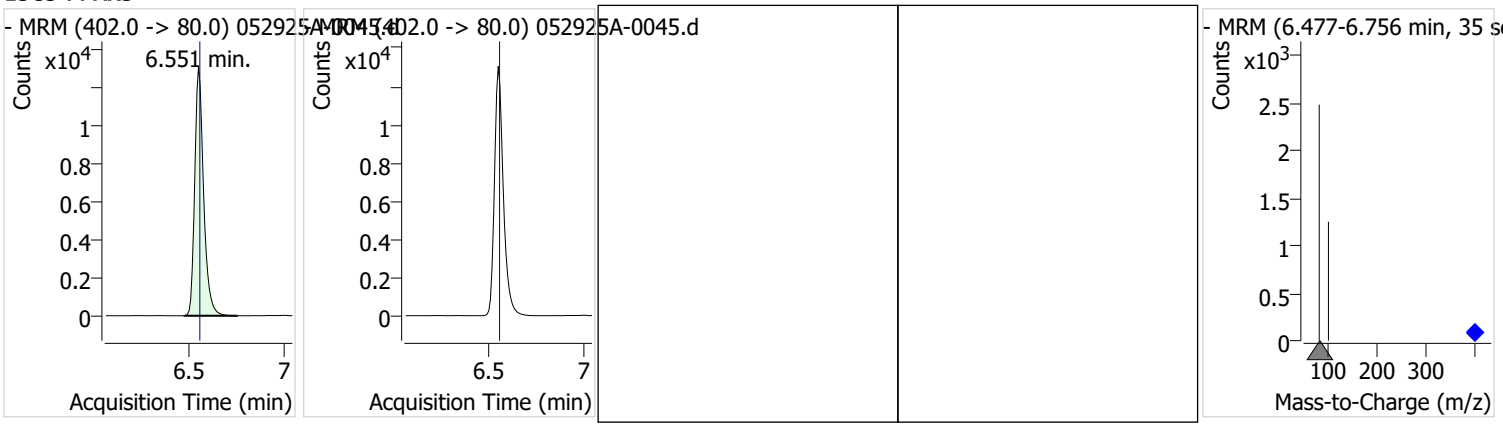




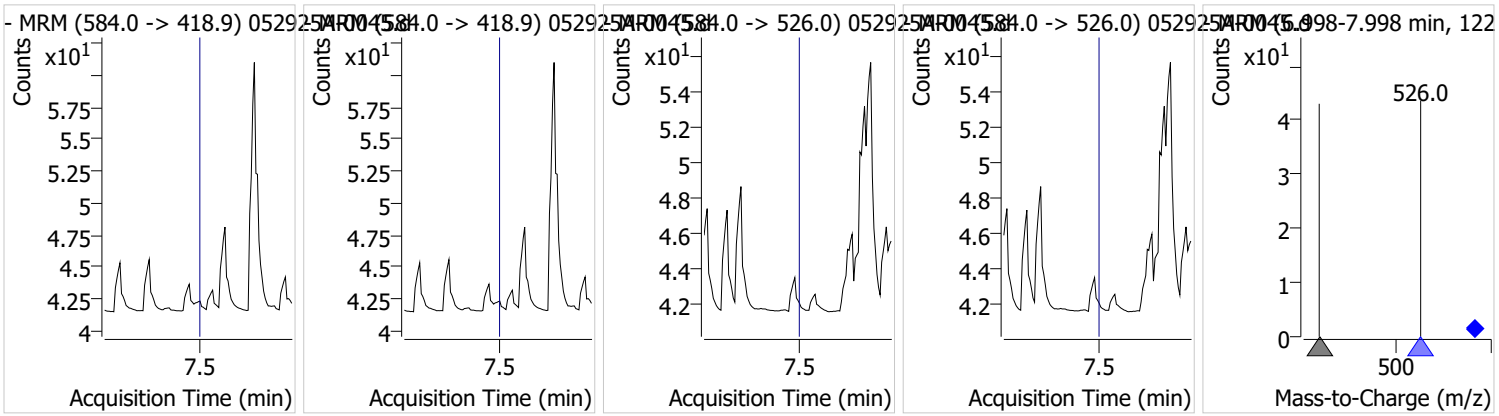
13C2-PFDoA_ISTD



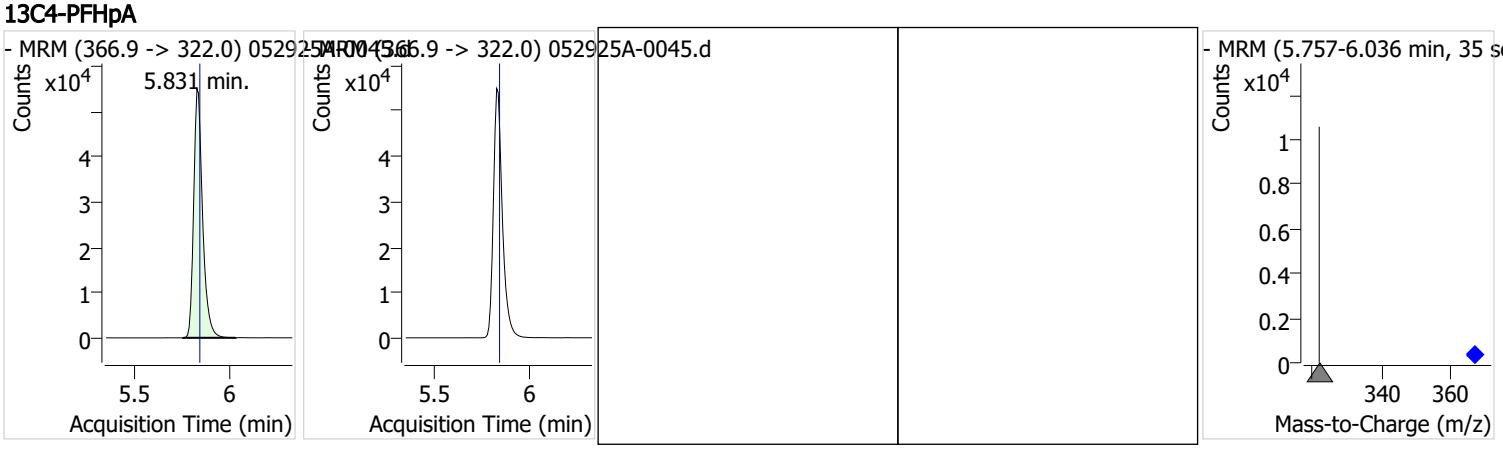
13C3-PFHxS



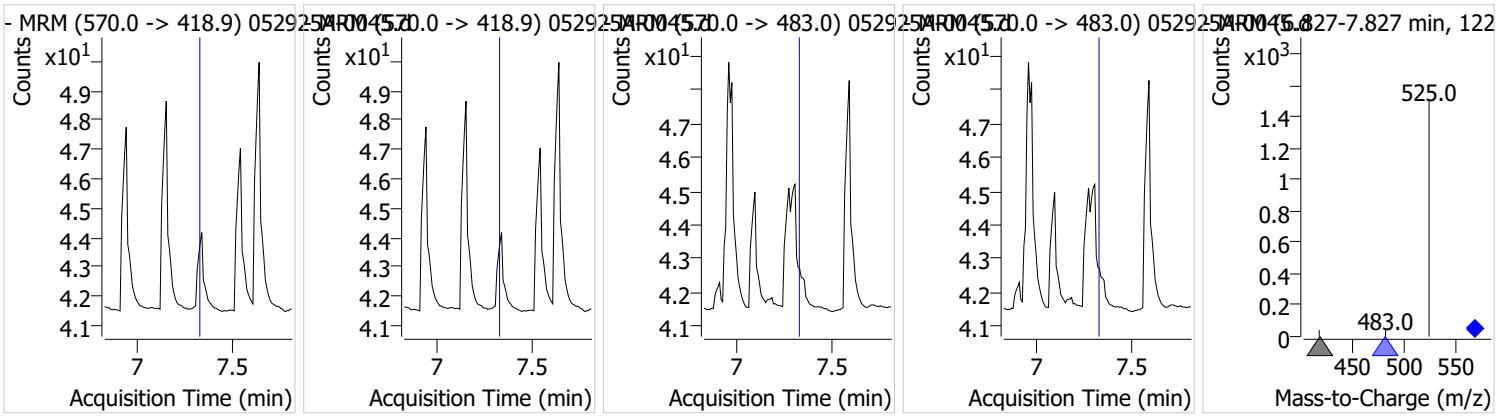
NEtFOSAA



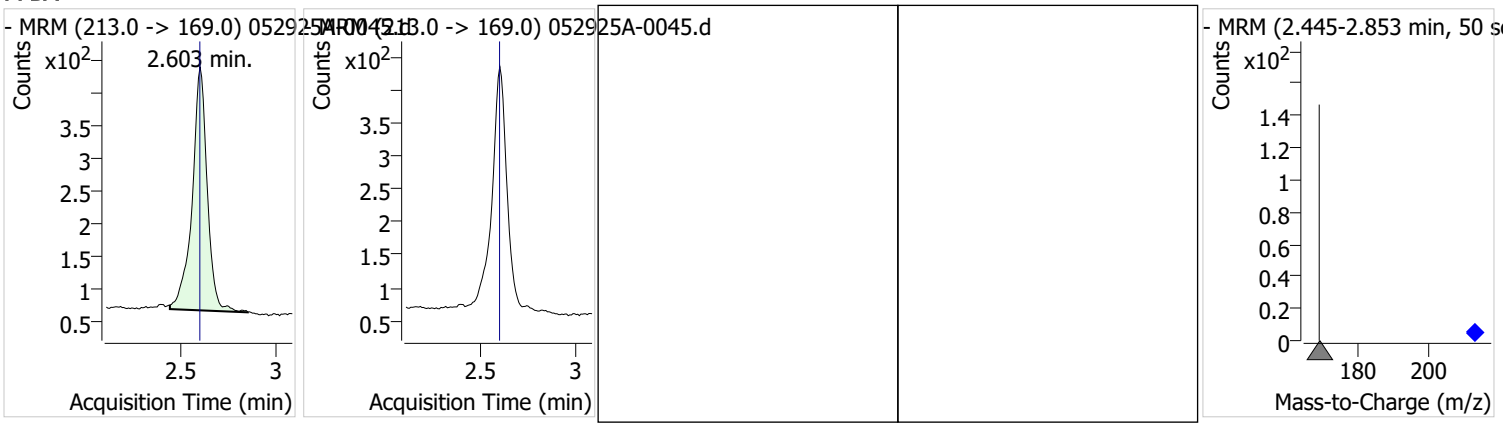
13C4-PFHpA



NMeFOSAA



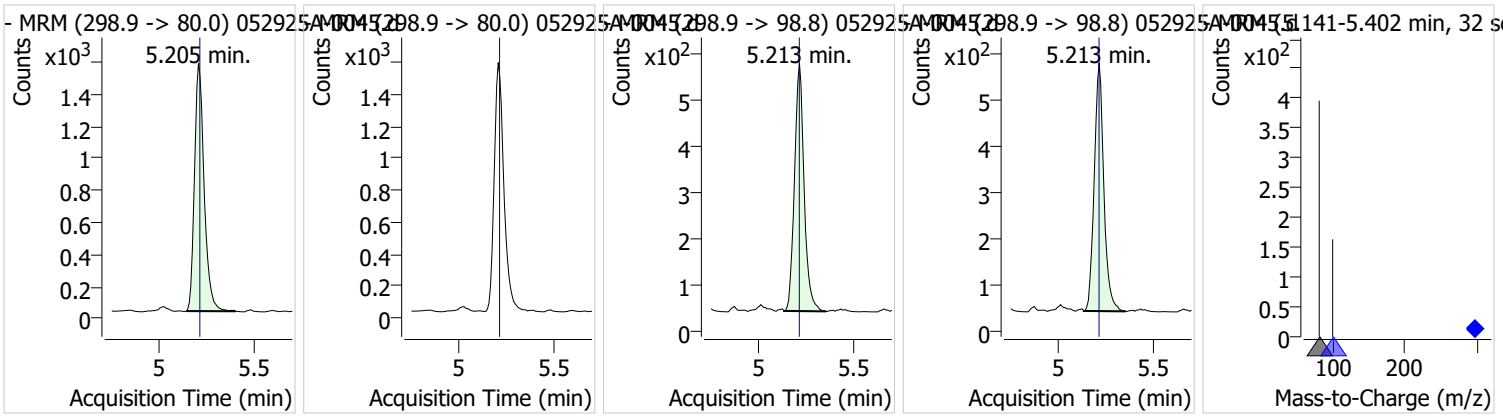
PFBA



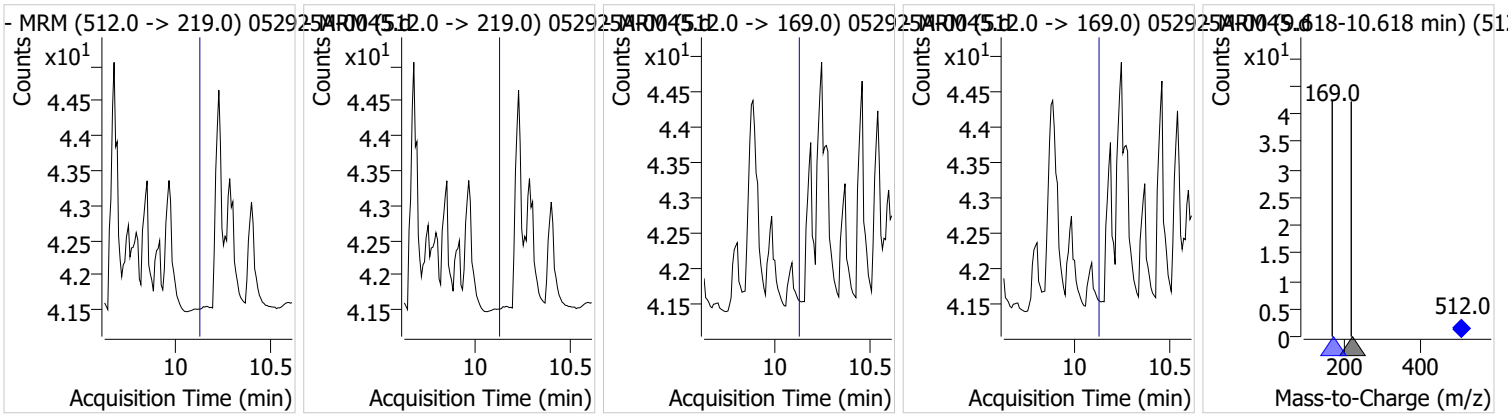
13C5-PFHxA



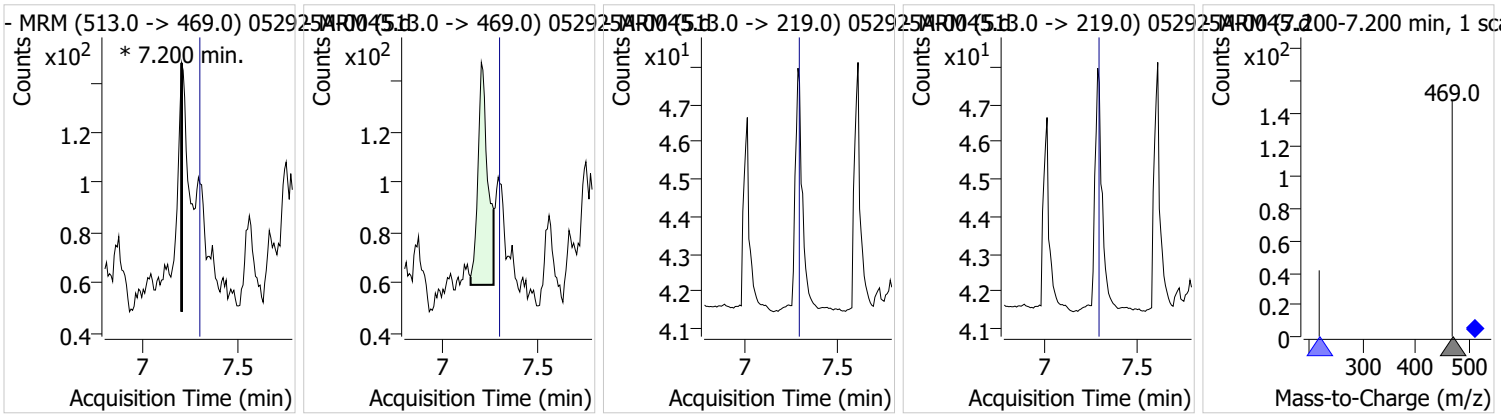
PFBS



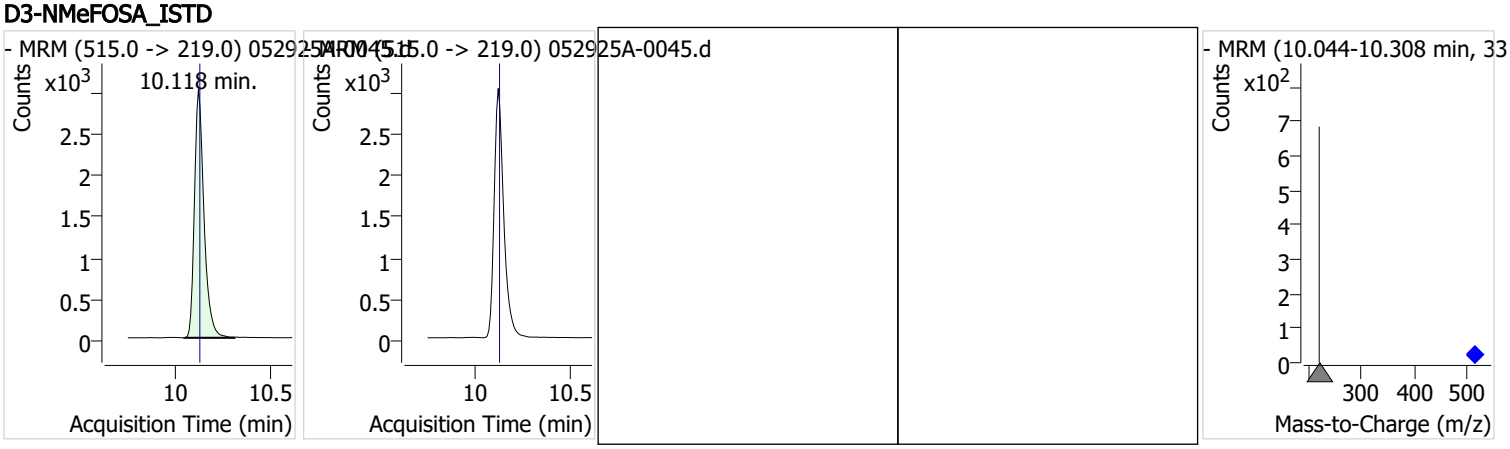
NMeFOSA



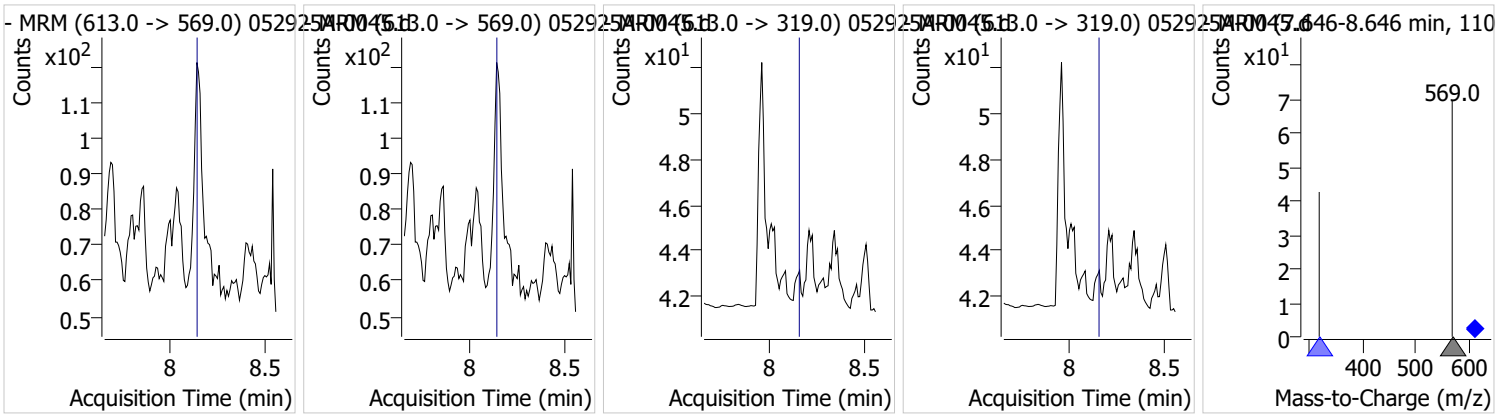
PFDA



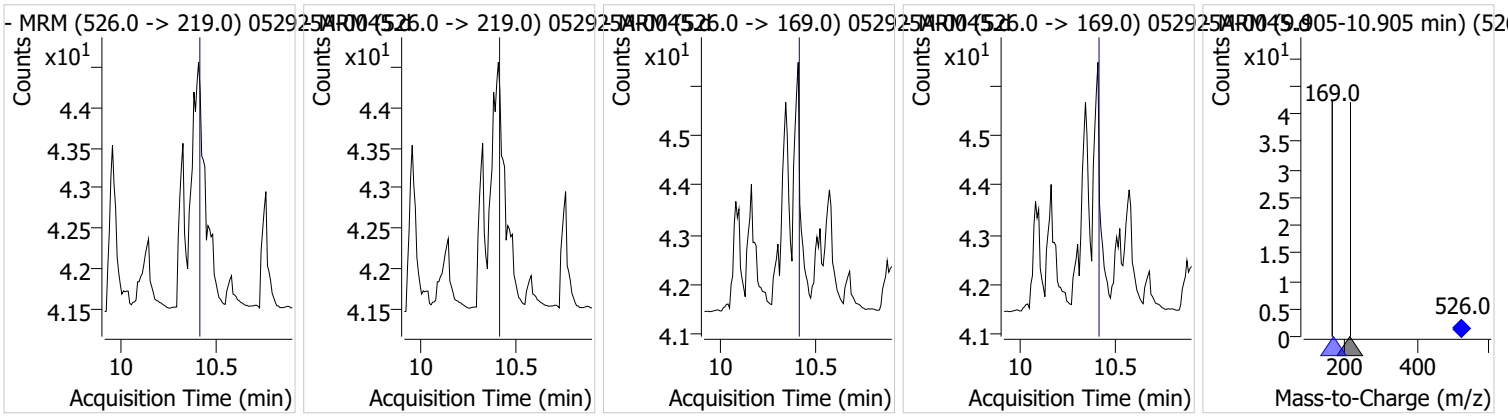
D3-NMeFOSA_ISTD



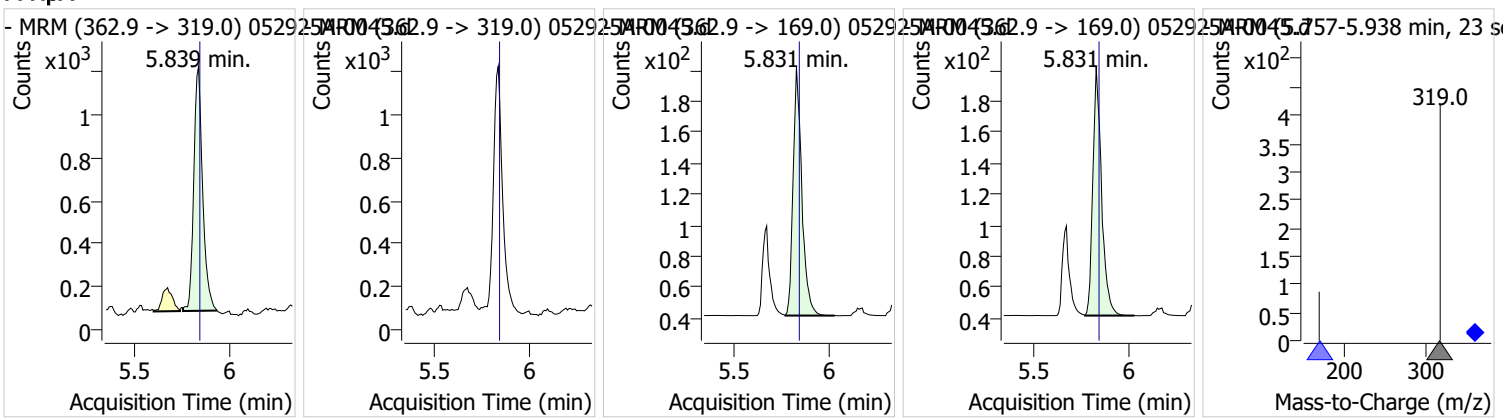
PFDoA



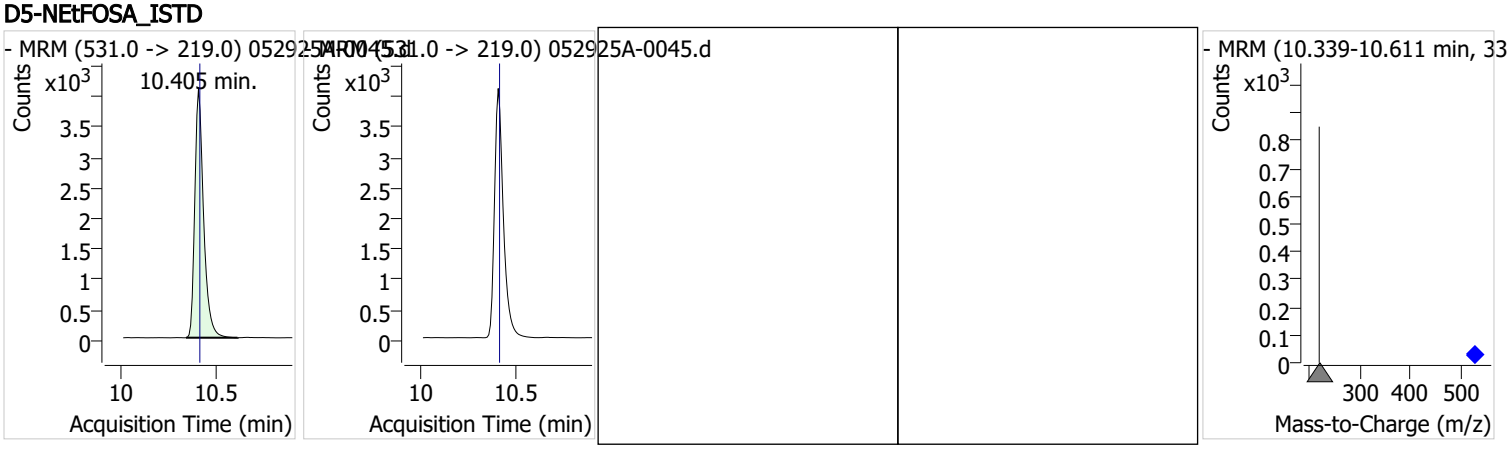
NEtFOSA



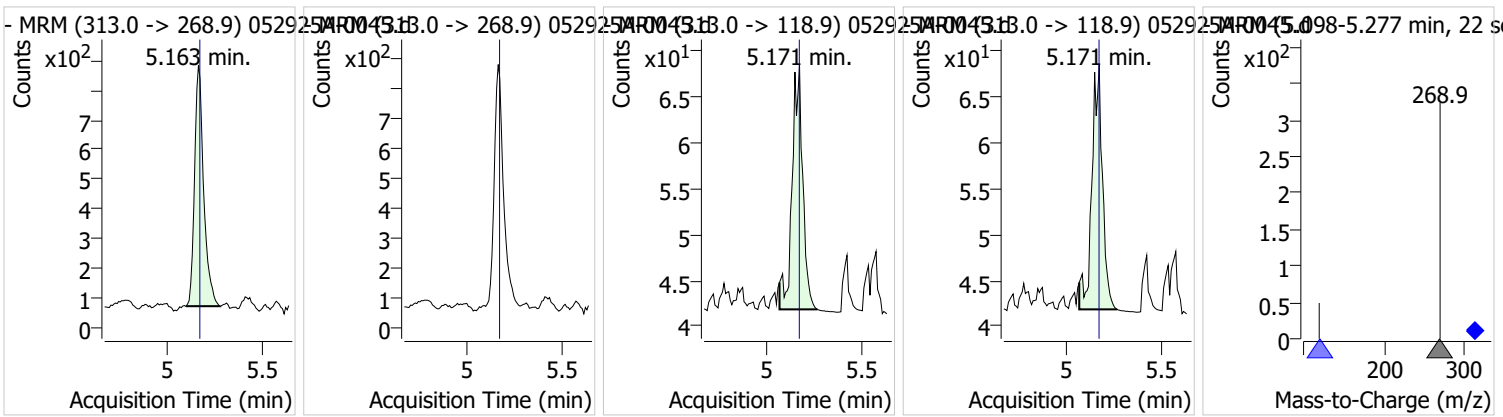
PFHpA



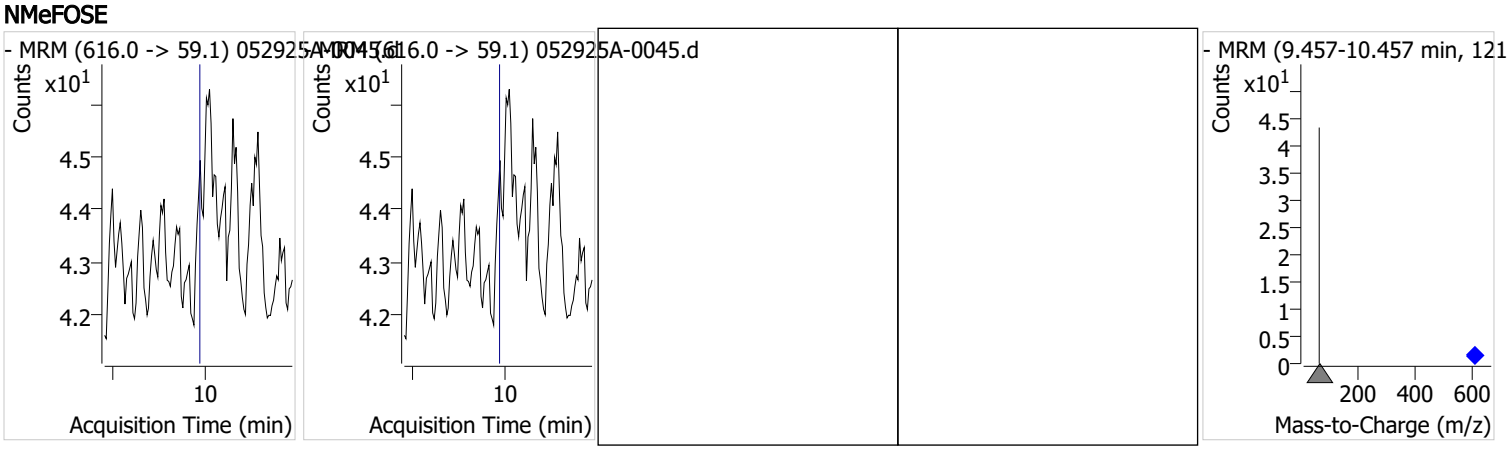
D5-NEtFOSA_ISTD



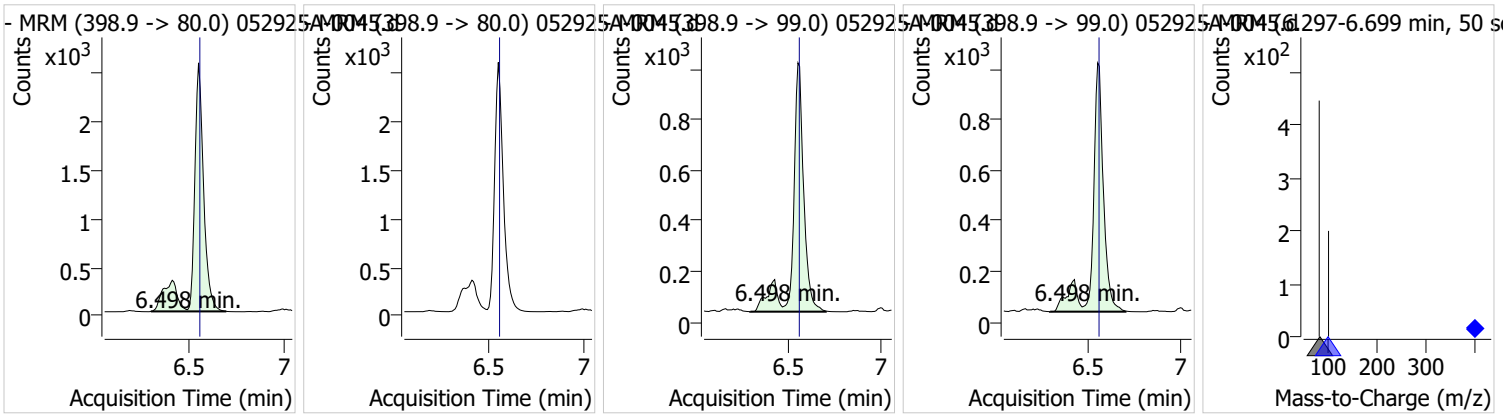
PFHxA



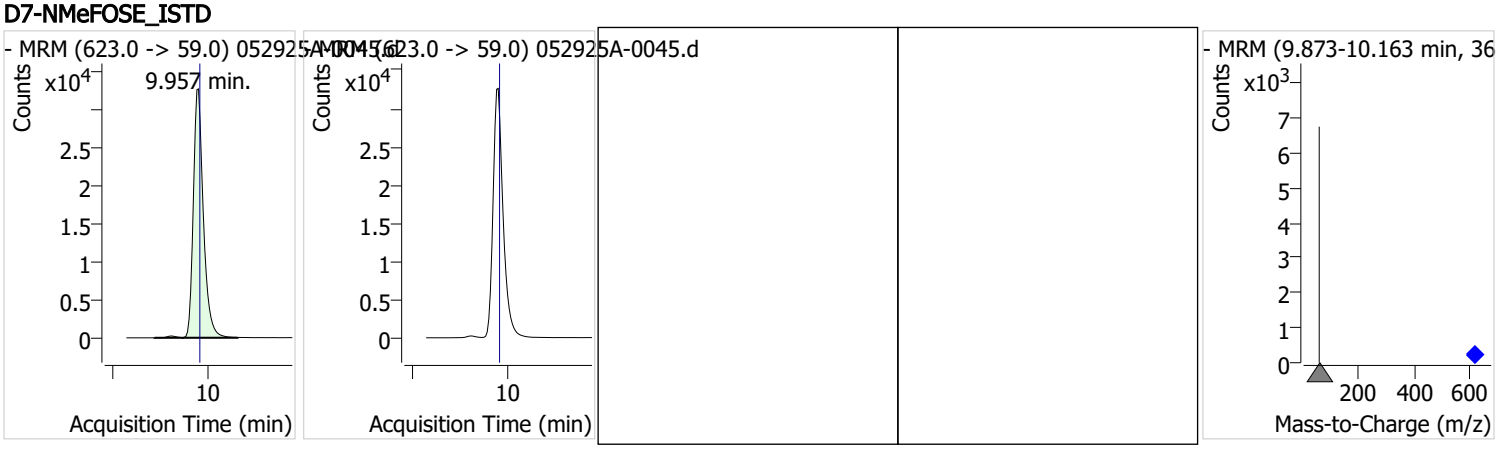
NMeFOSE



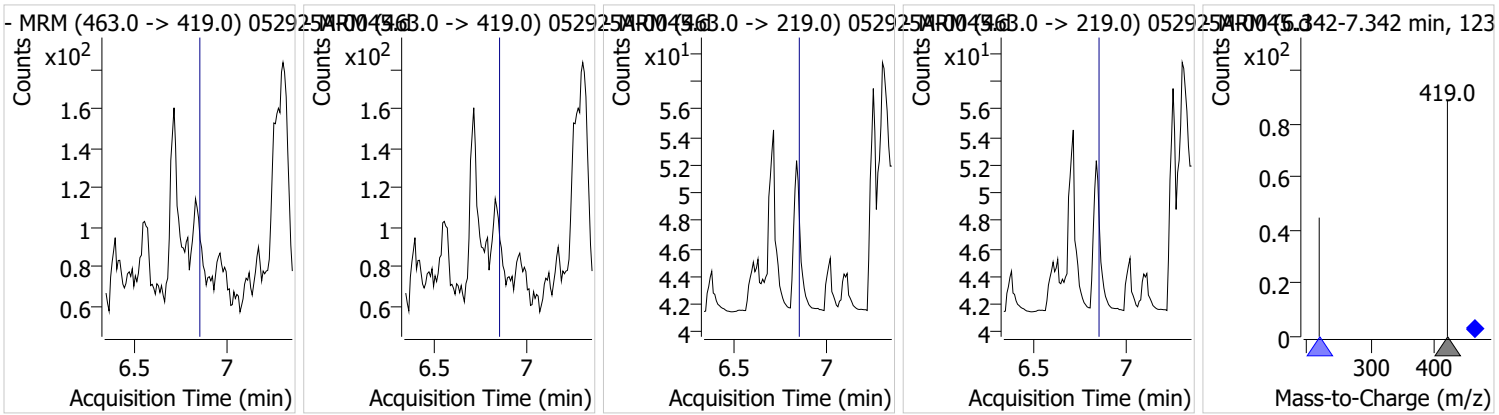
PFHxS



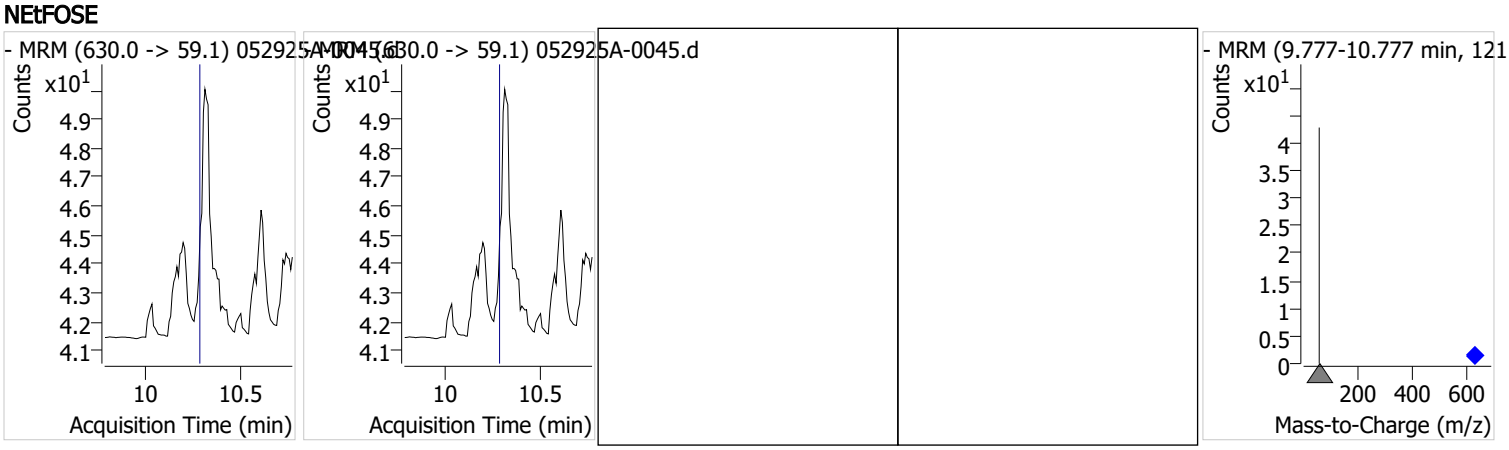
D7-NMeFOSE_ISTD



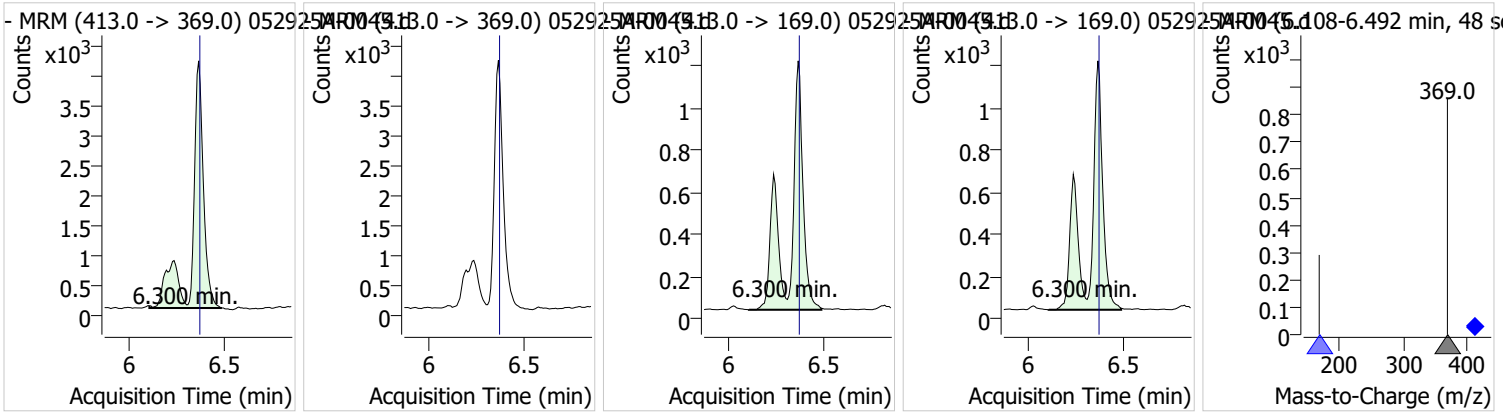
PFNA



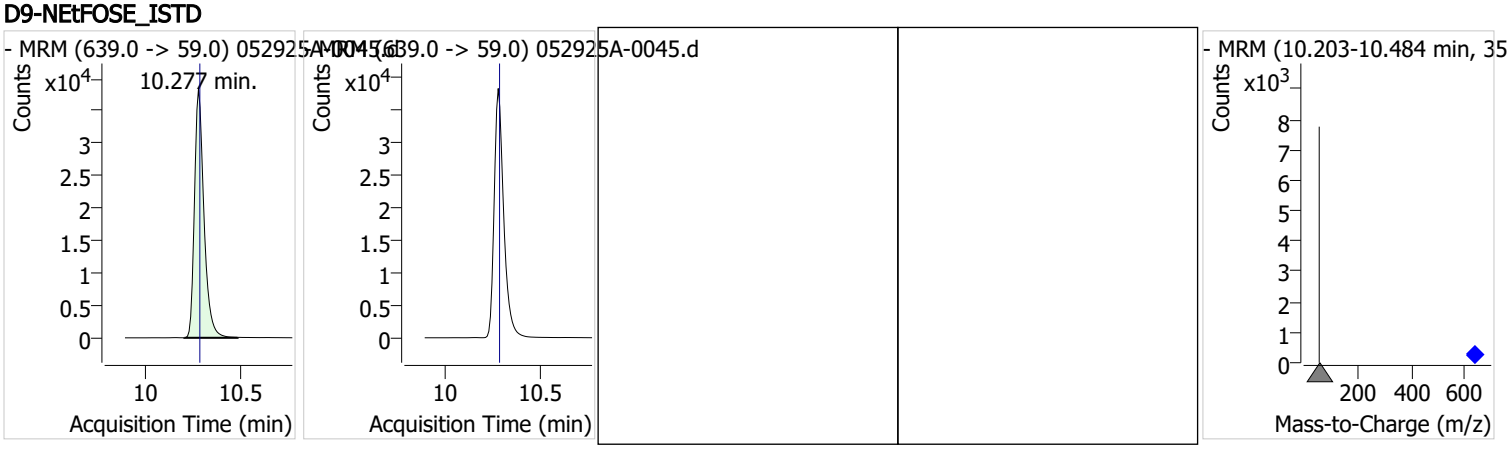
NEtFOSE



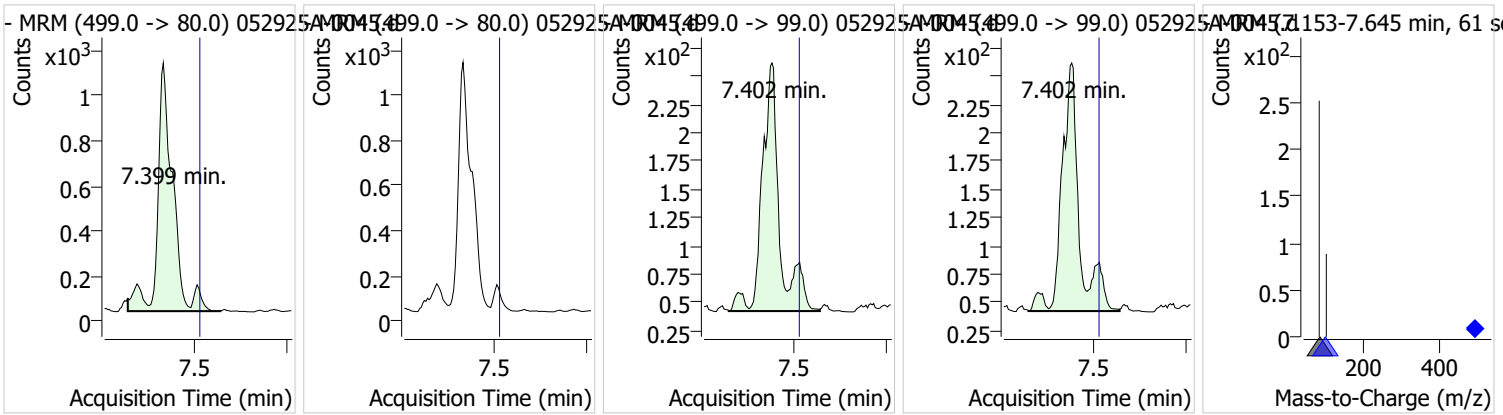
PFOA



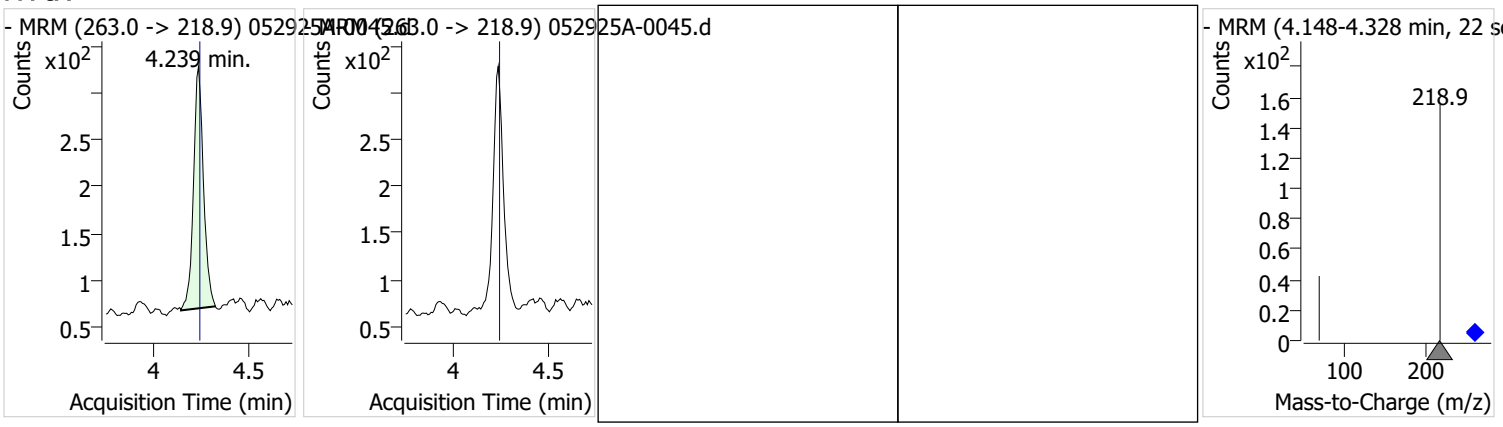
D9-NEtFOSE_ISTD



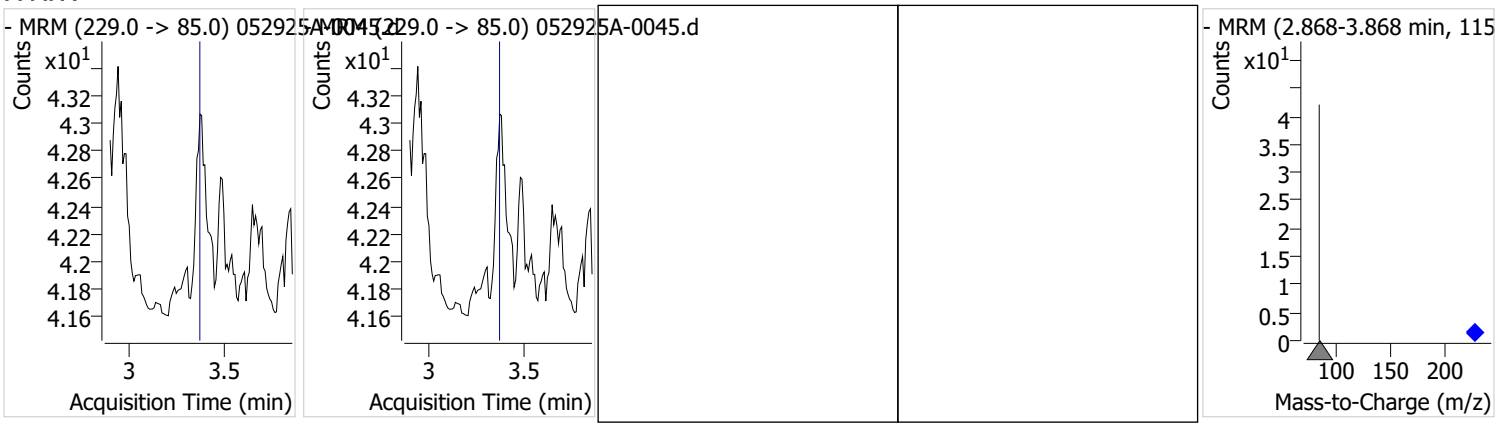
PFOS



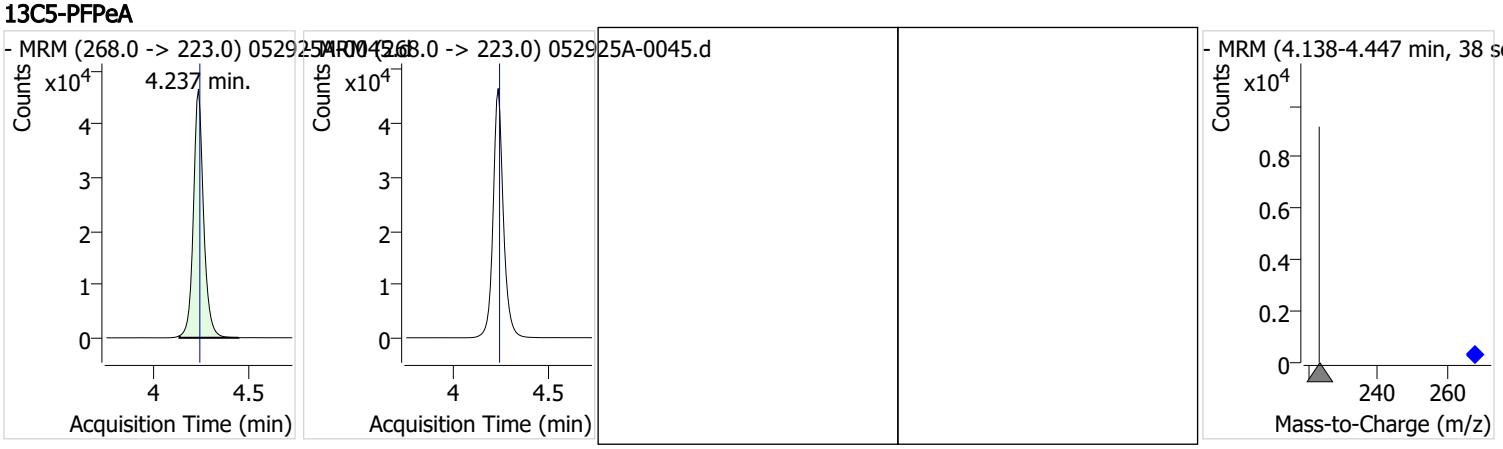
PFPeA



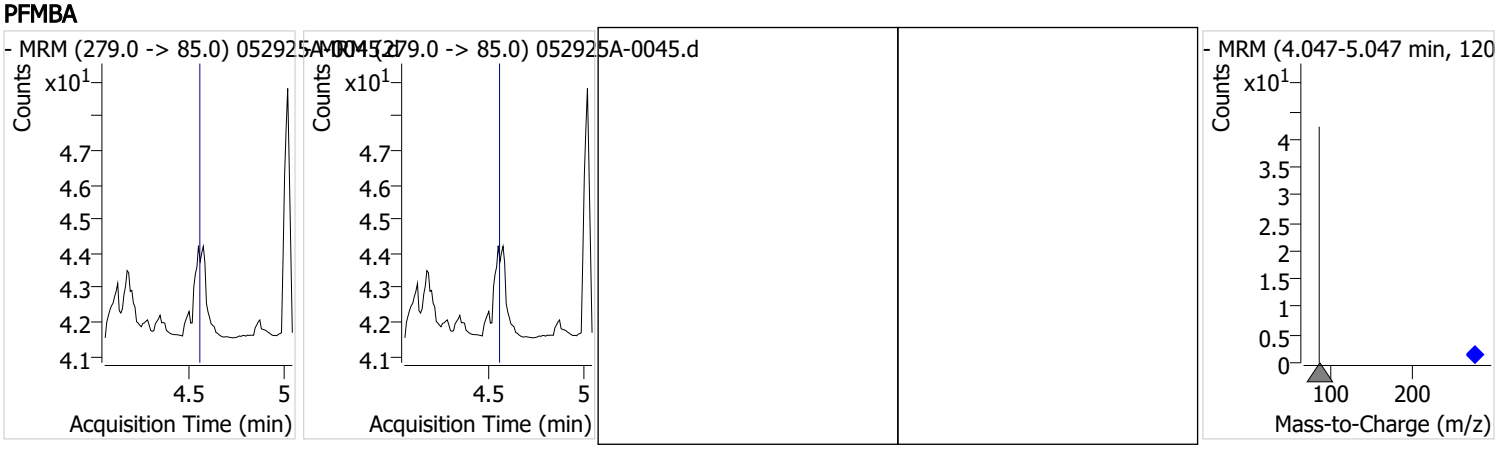
PFMPA



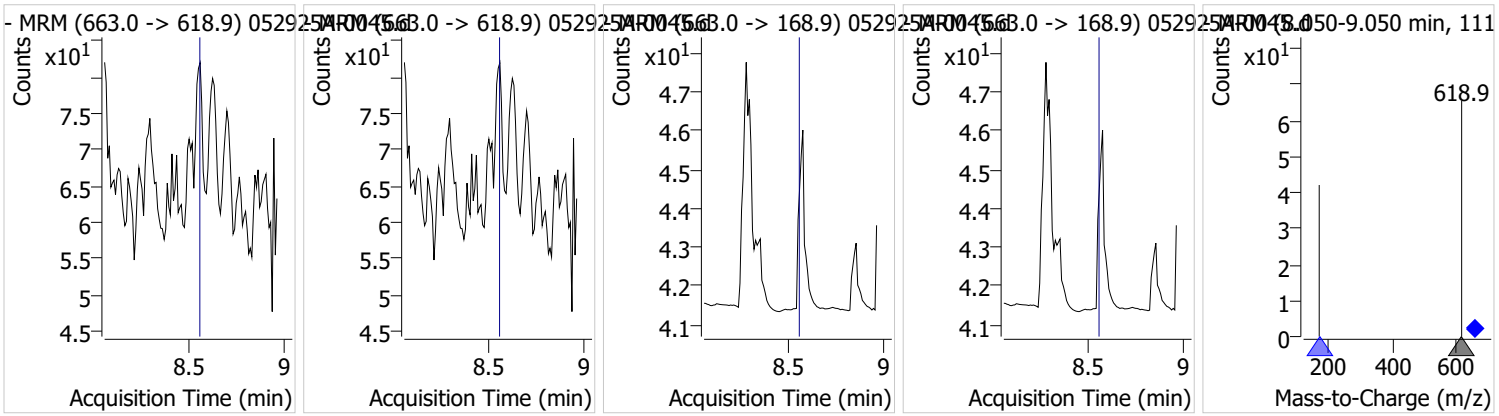
13C5-PFPeA



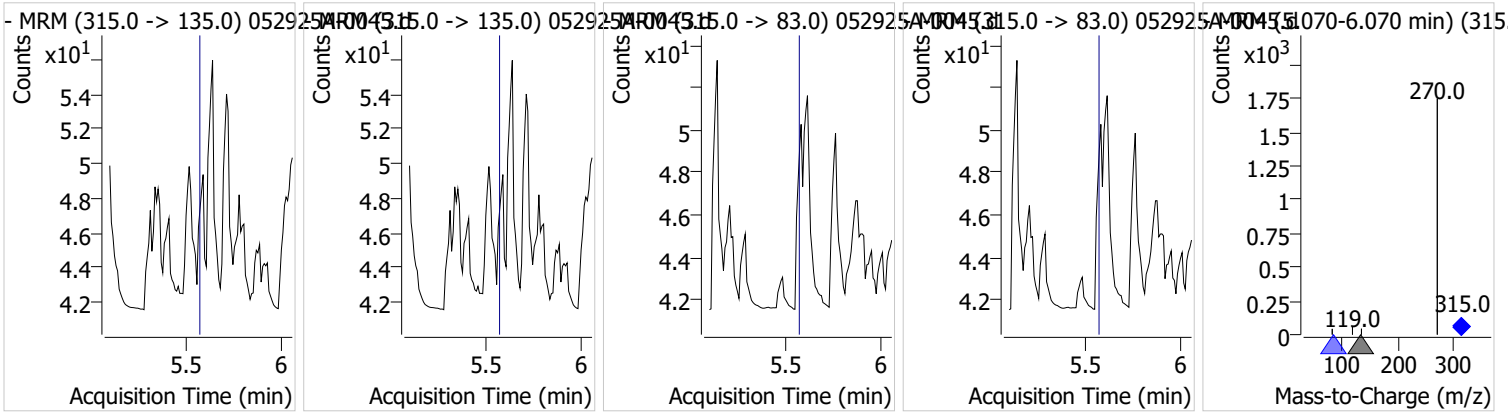
PFMBA



PFTrDA



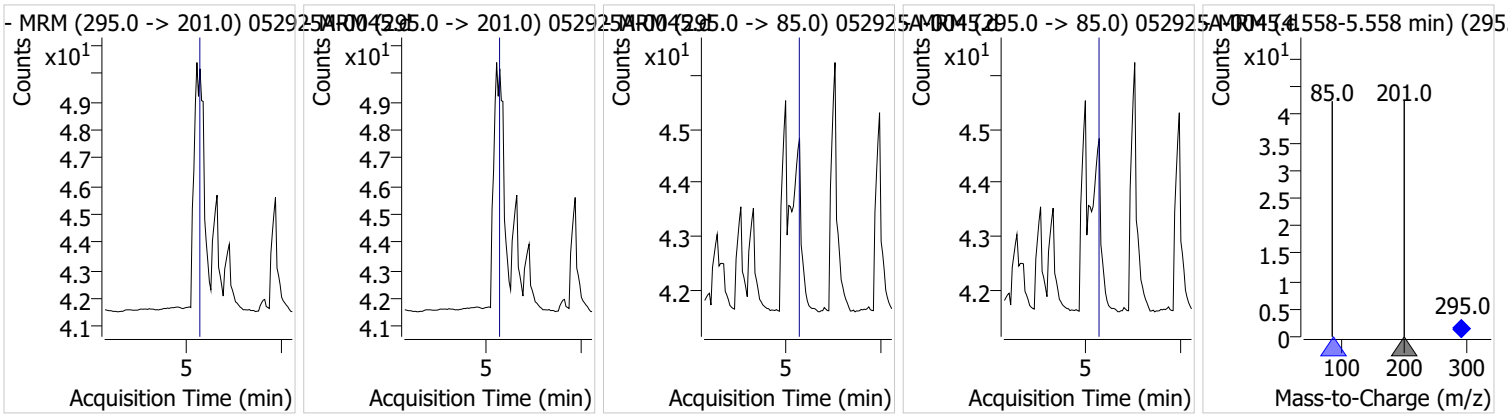
PFEESA



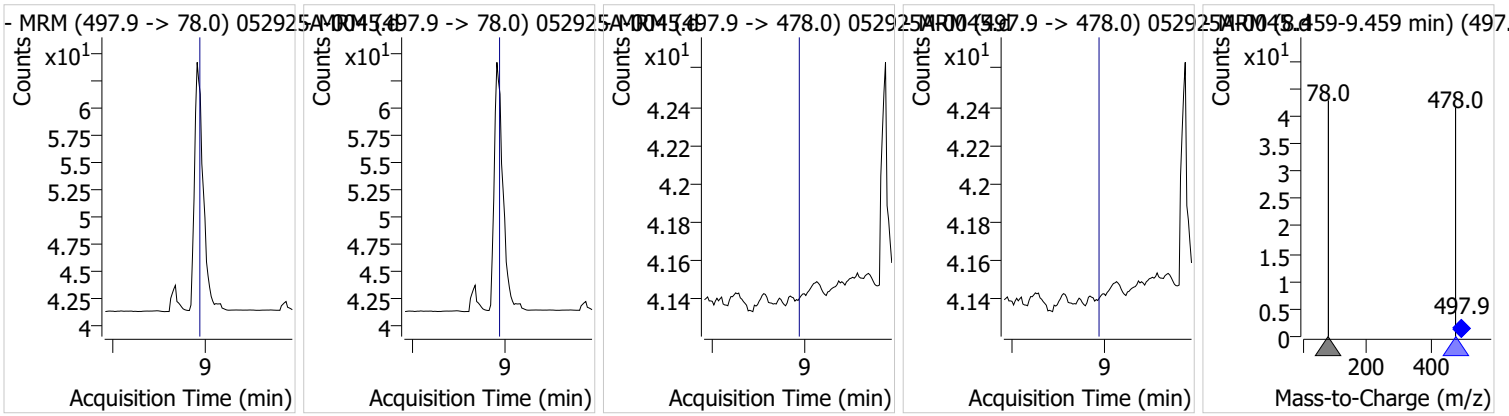
13C6-PFDA



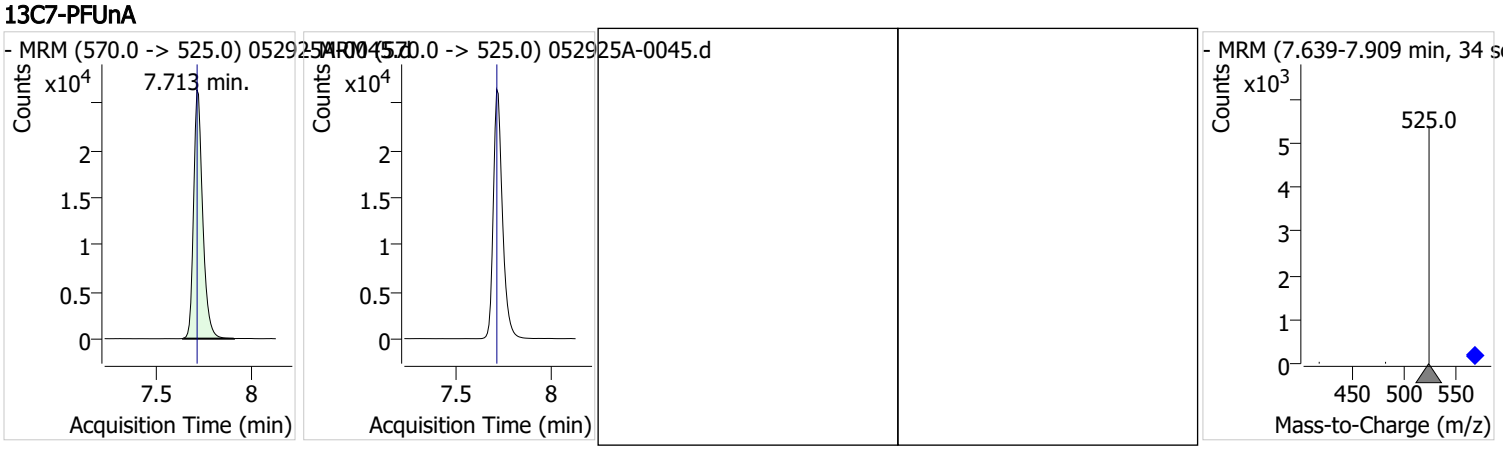
NFDHA



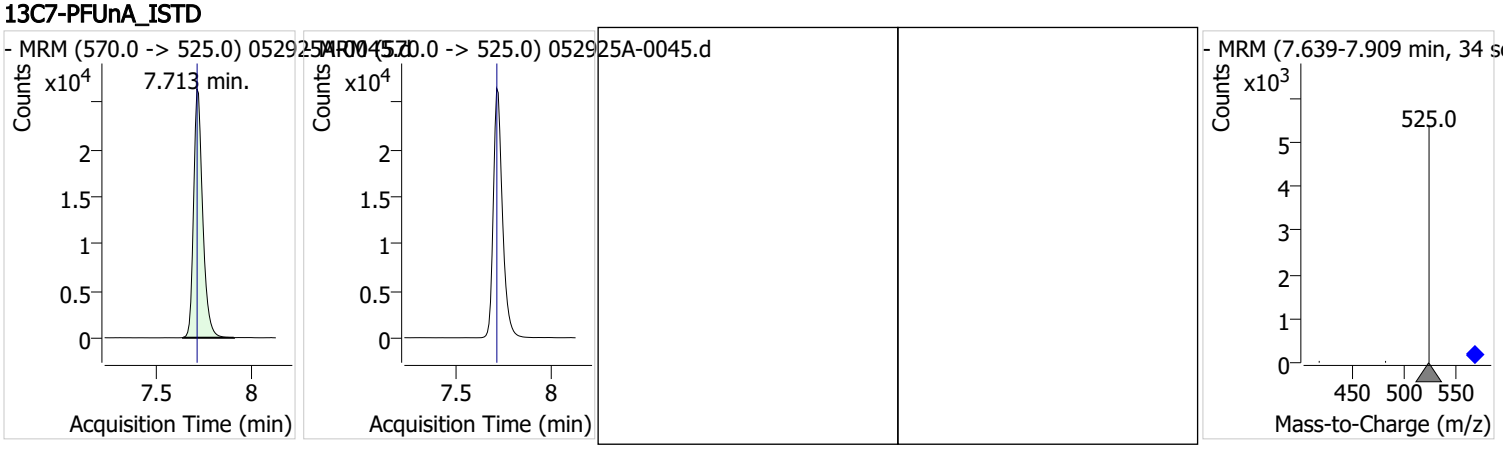
PFOSA



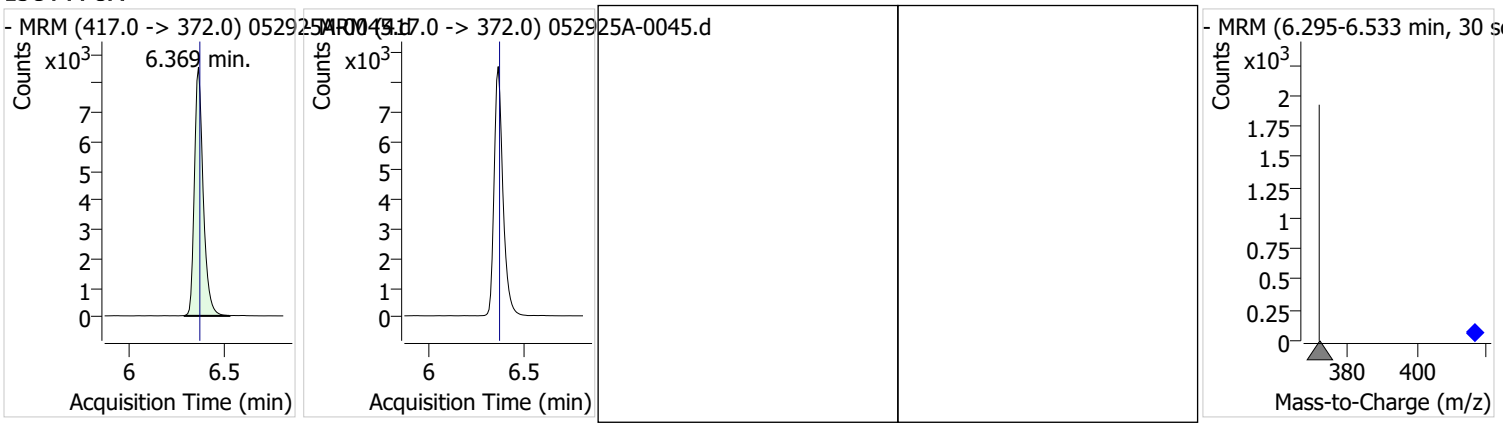
13C7-PFUnA



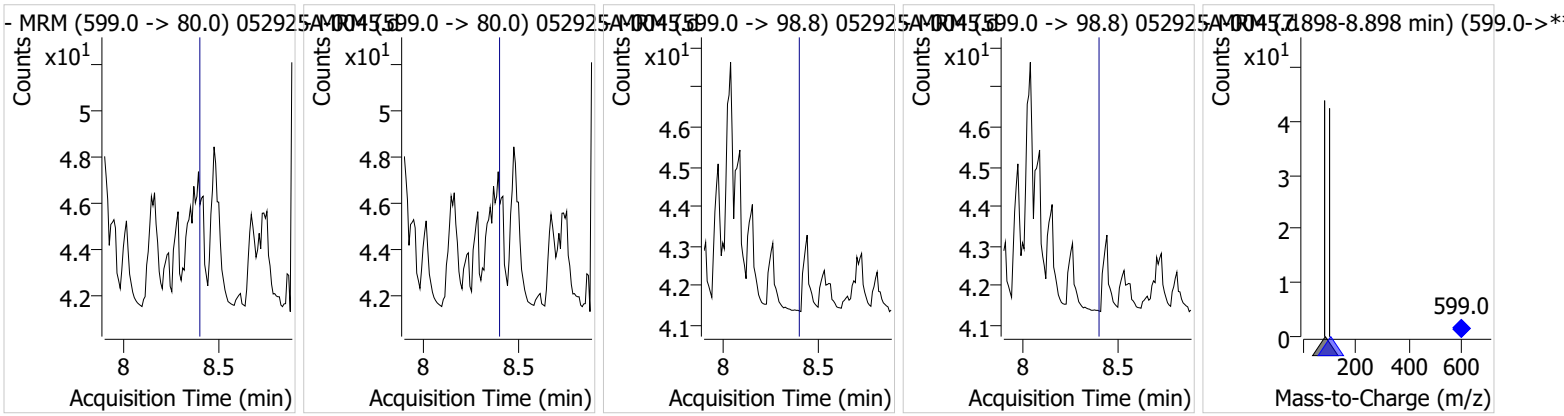
13C7-PFUnA_ISTD



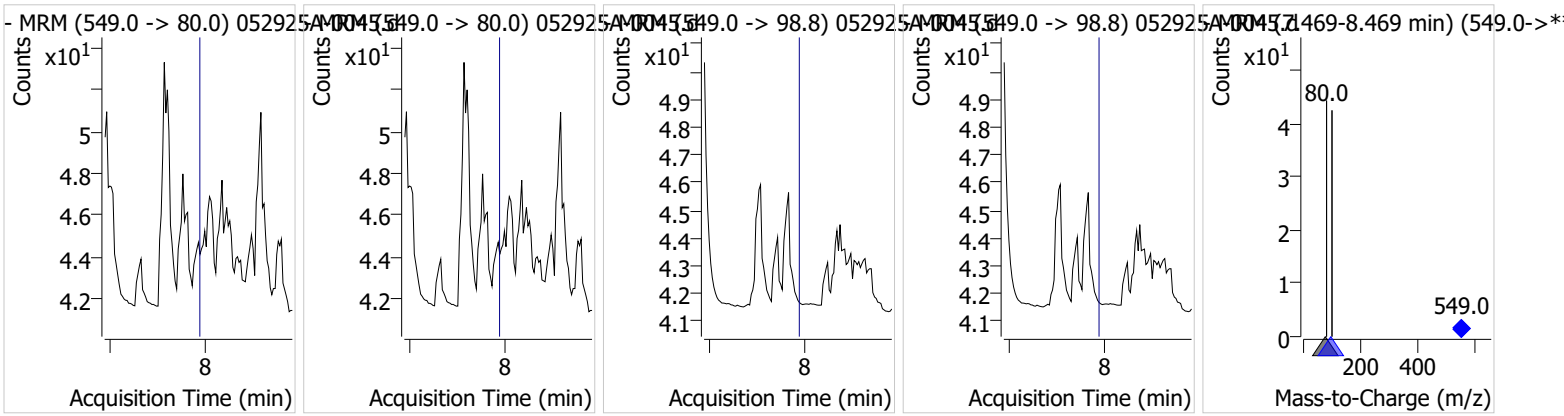
13C4-PFOA



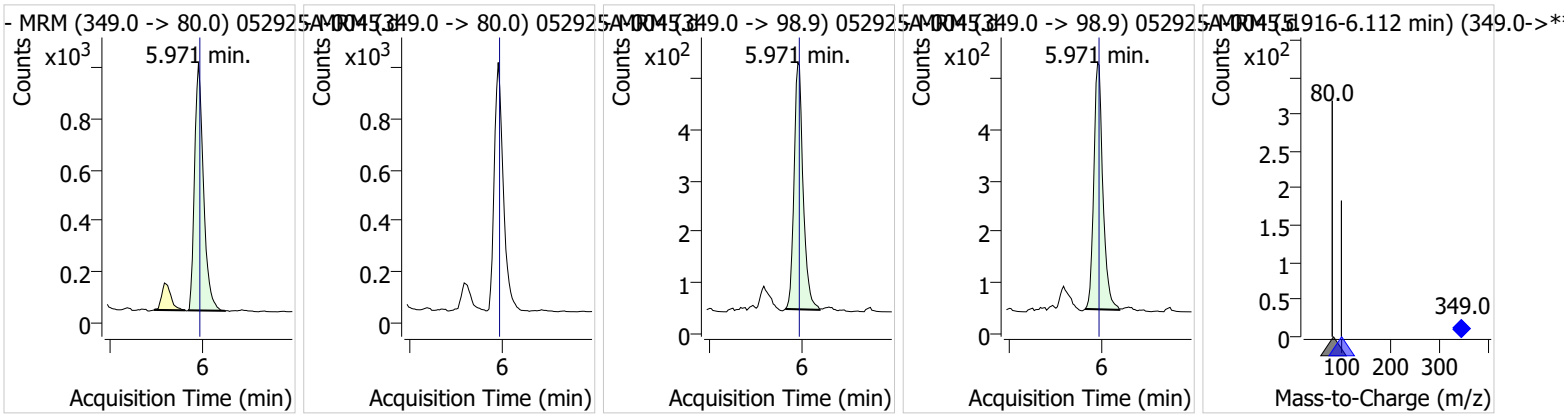
PFDS



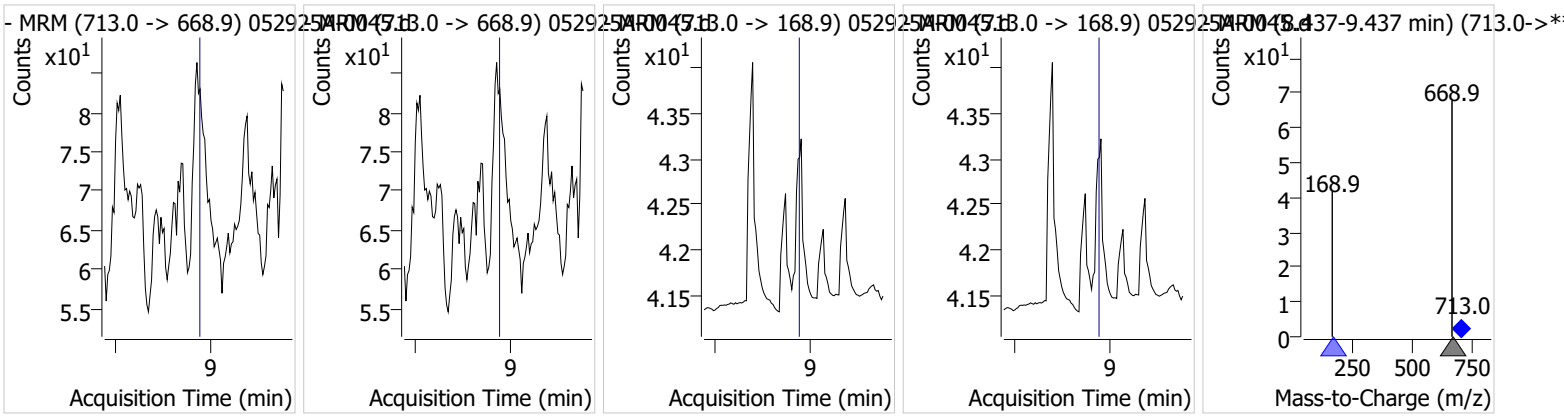
PFNS



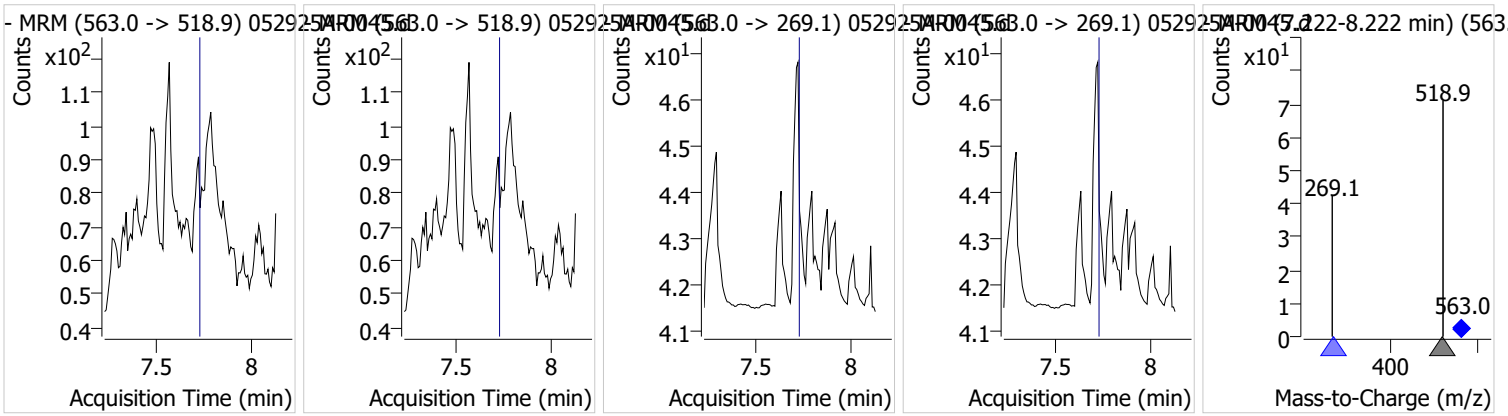
PFPeS



PFTeDA



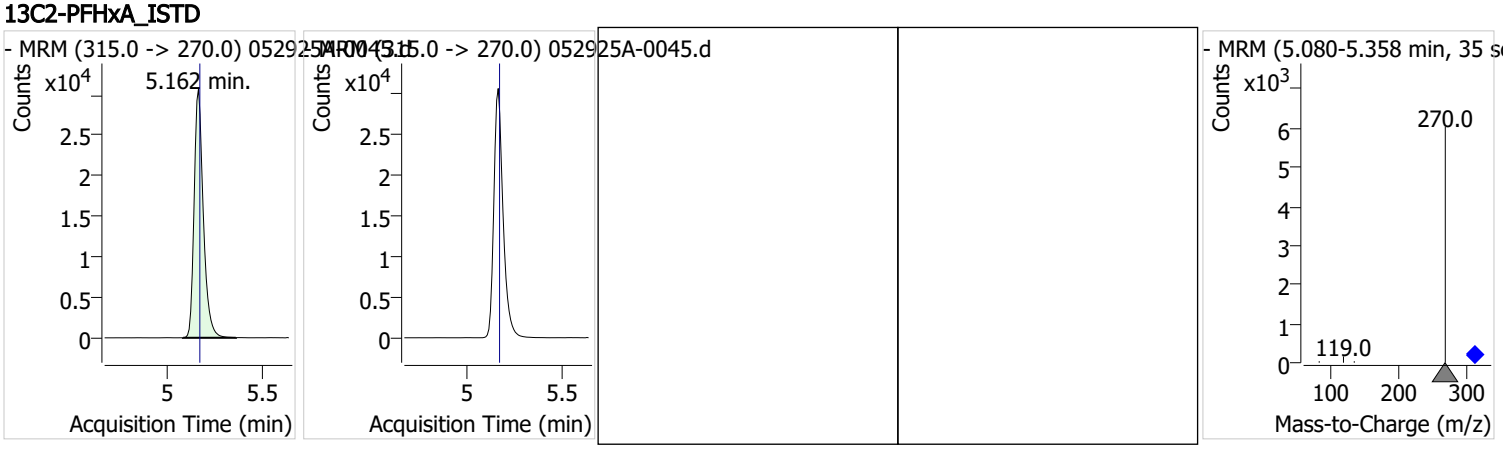
PFUnA



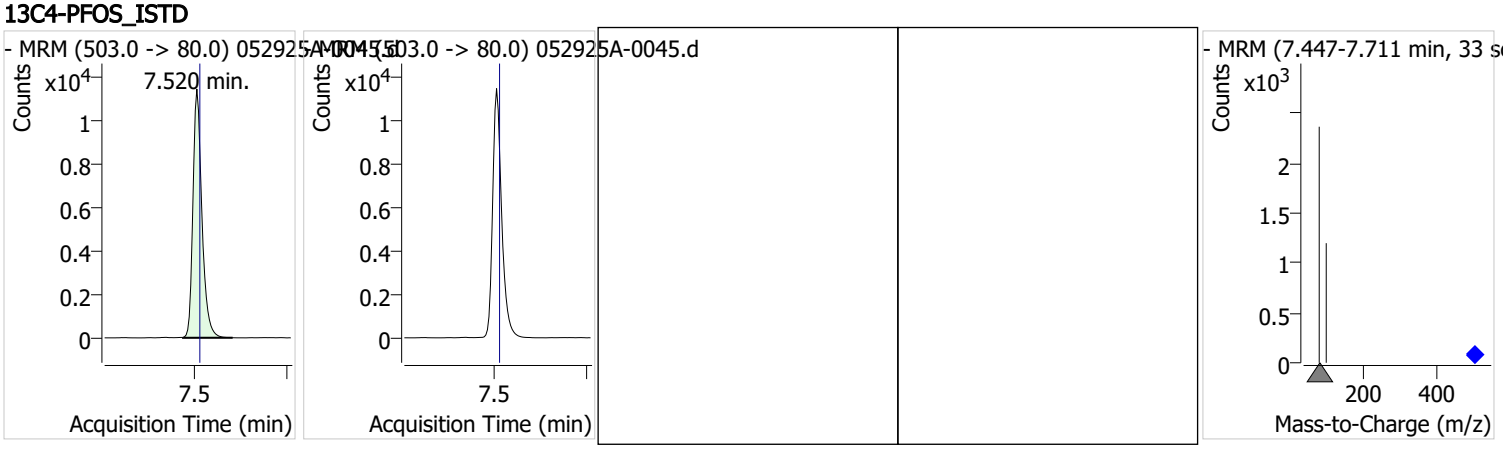
13C2-PFDA_ISTD



13C2-PFHxA_ISTD



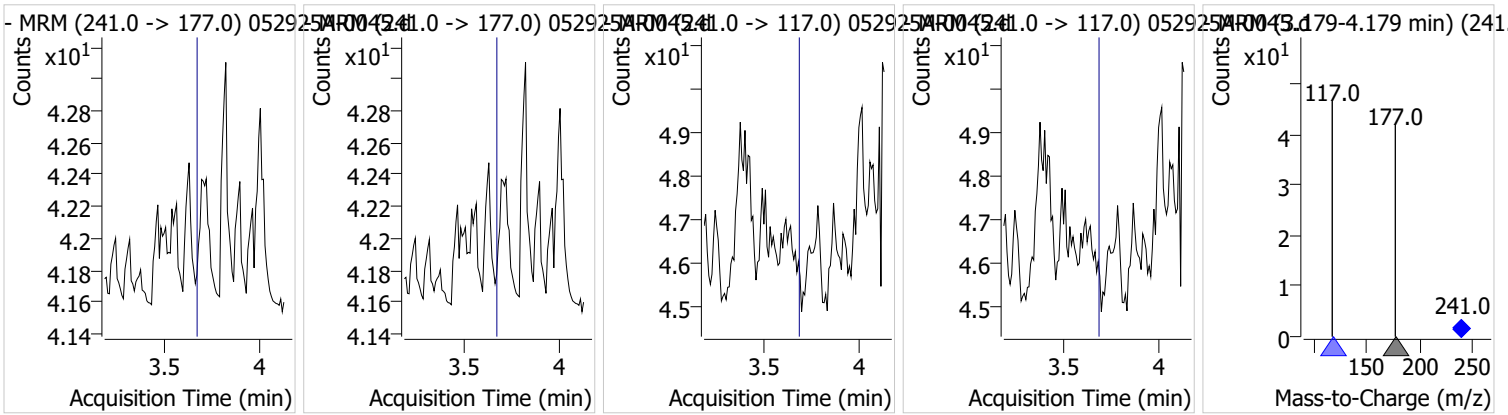
13C4-PFOS_ISTD



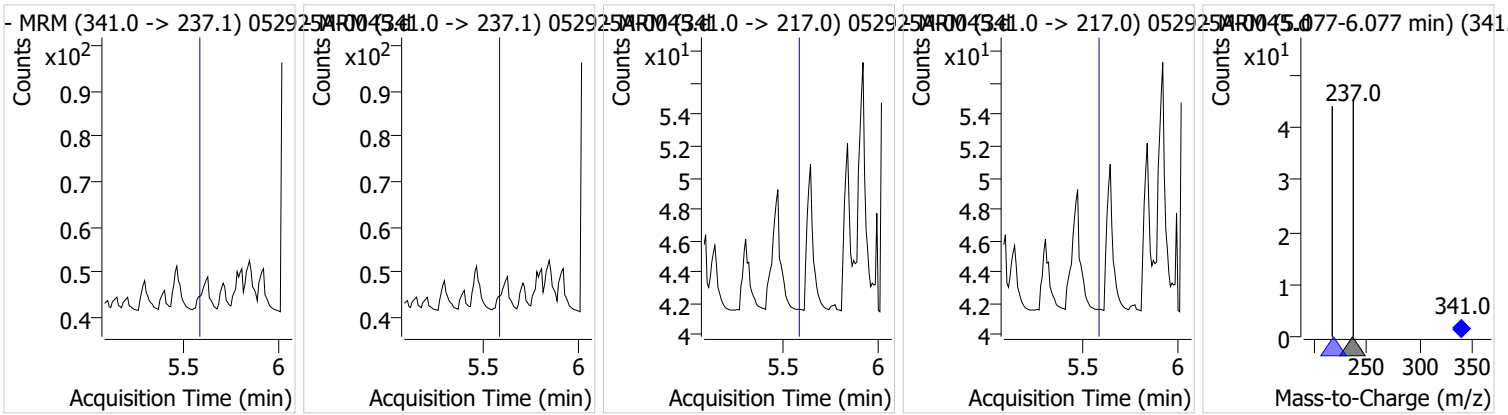
13C3-PFBA



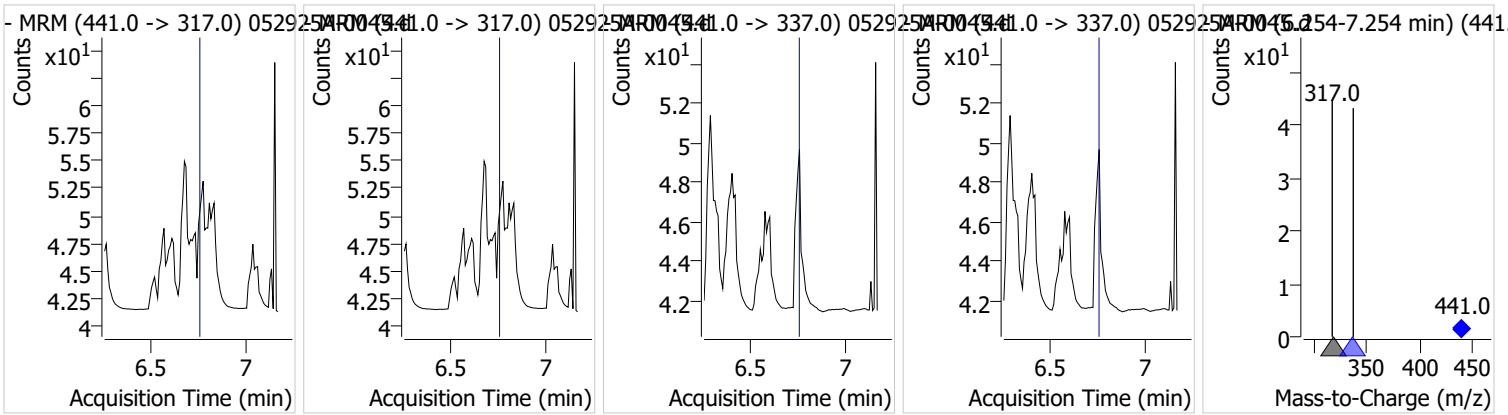
3:3FTCA



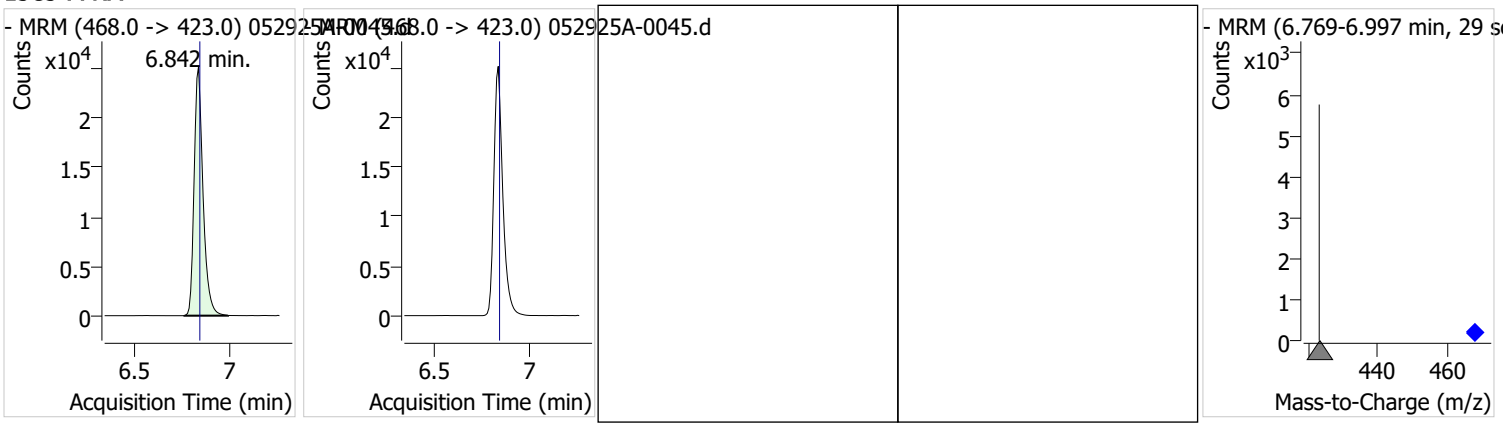
5:3FTCA



7:3FTCA



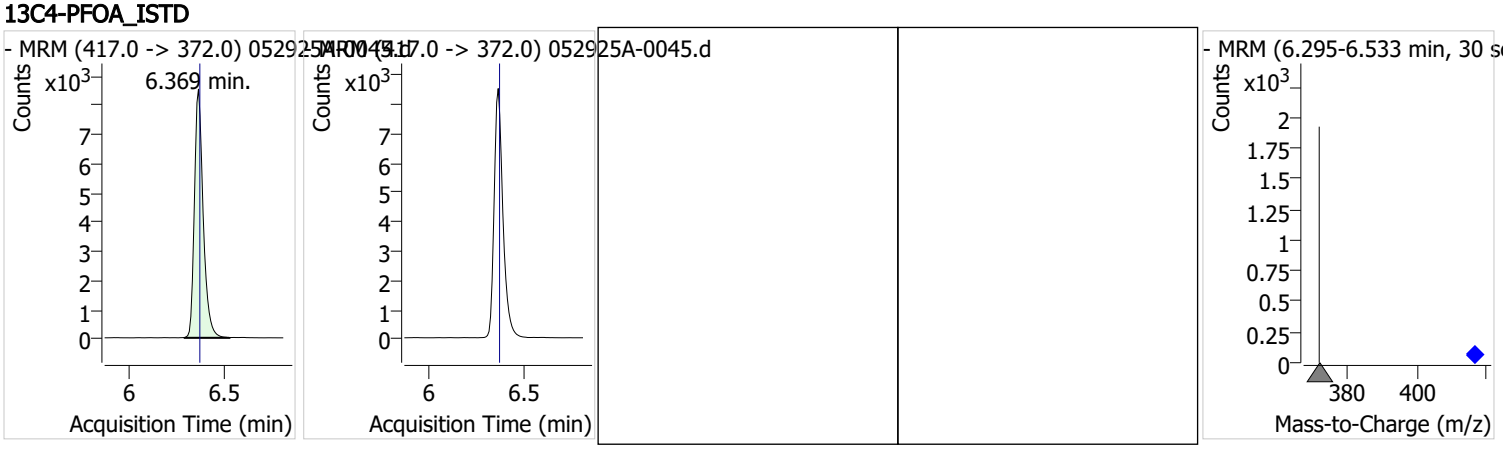
13C5-PFNA



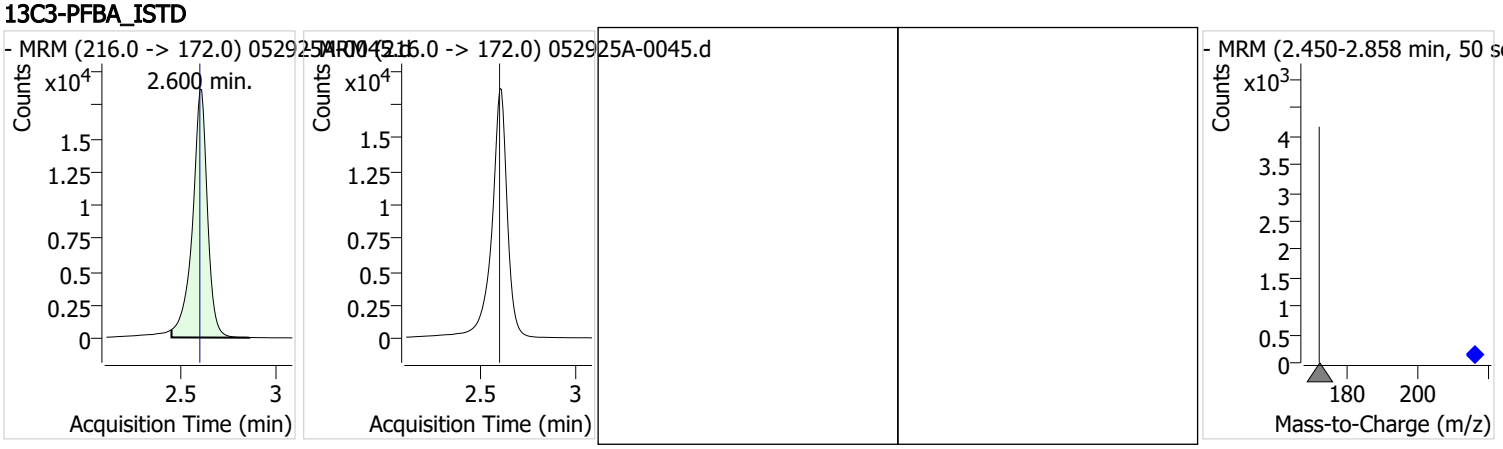
18O2-PFHxS



13C4-PFOA_ISTD



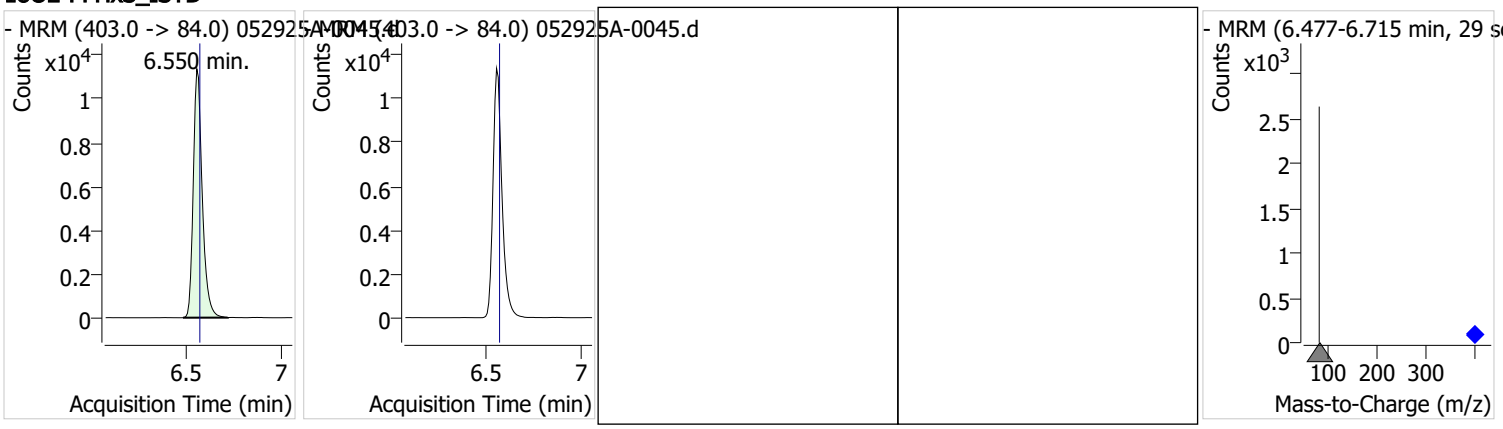
13C3-PFBA_ISTD



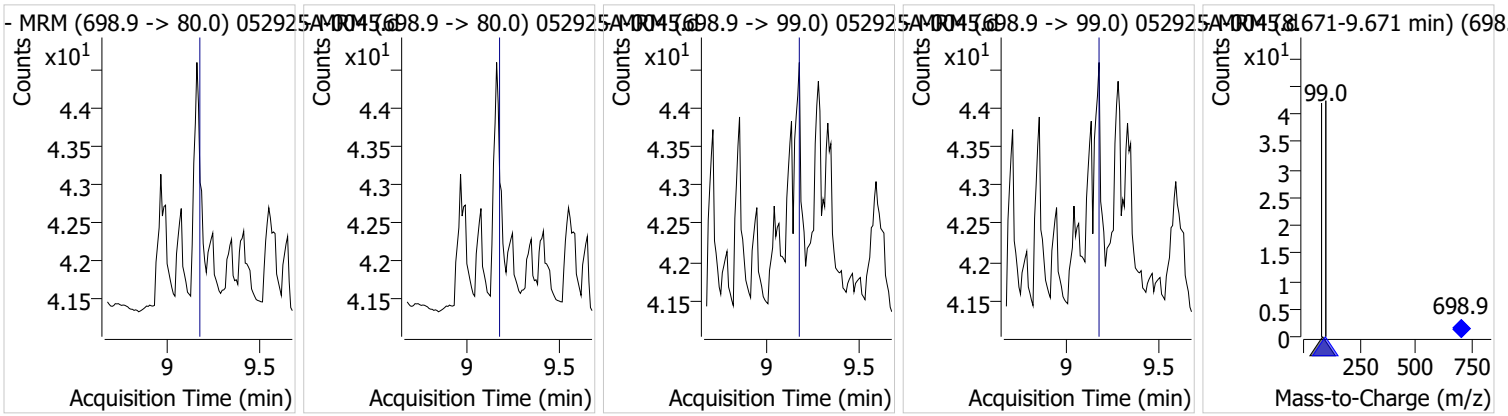
13C5-PFNA_ISTD



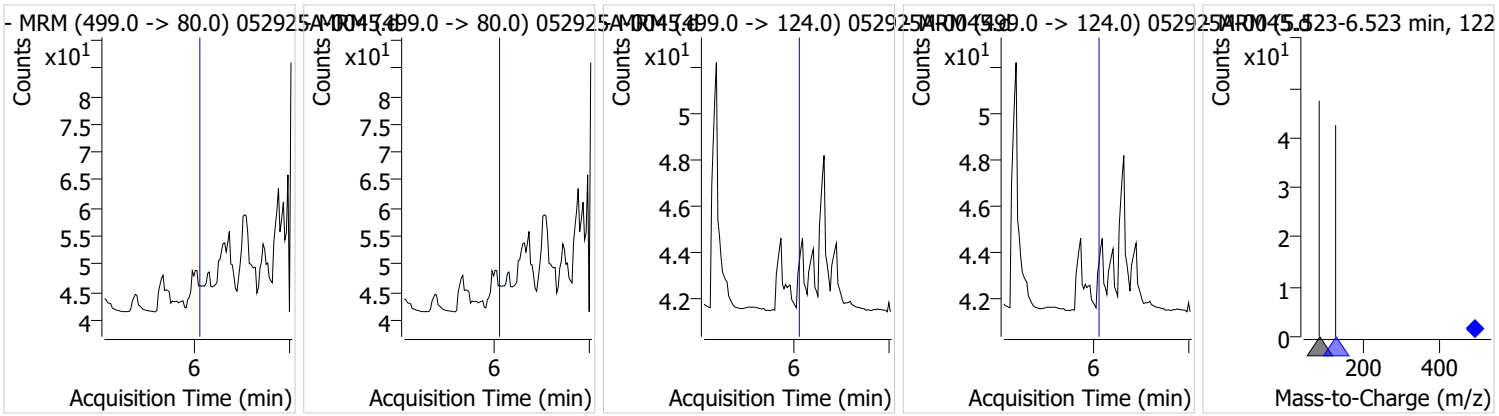
18O2-PFHxS_ISTD



PFDoS



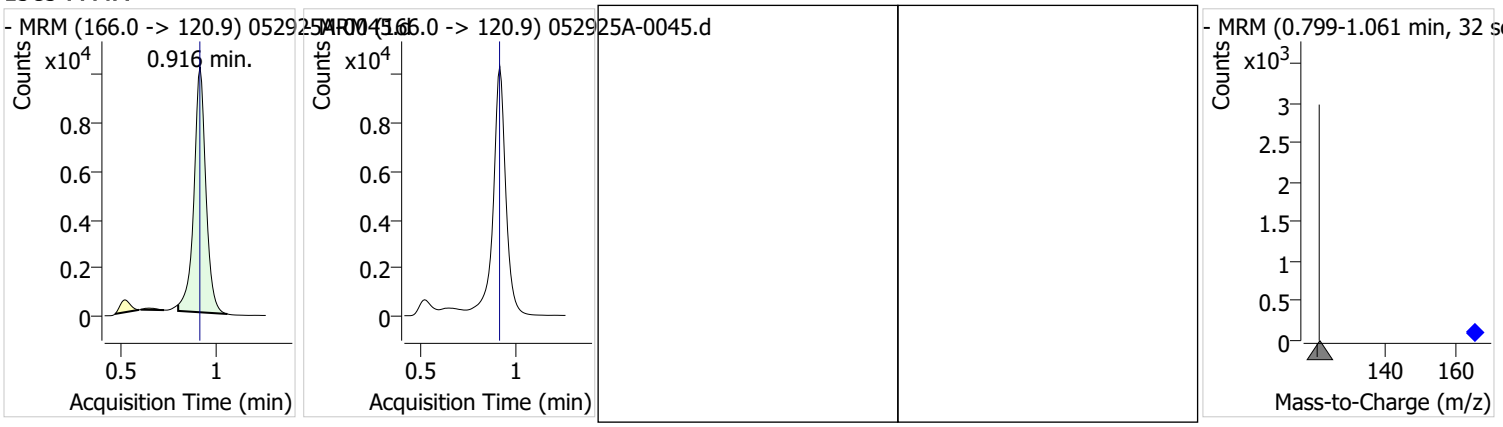
TDCA



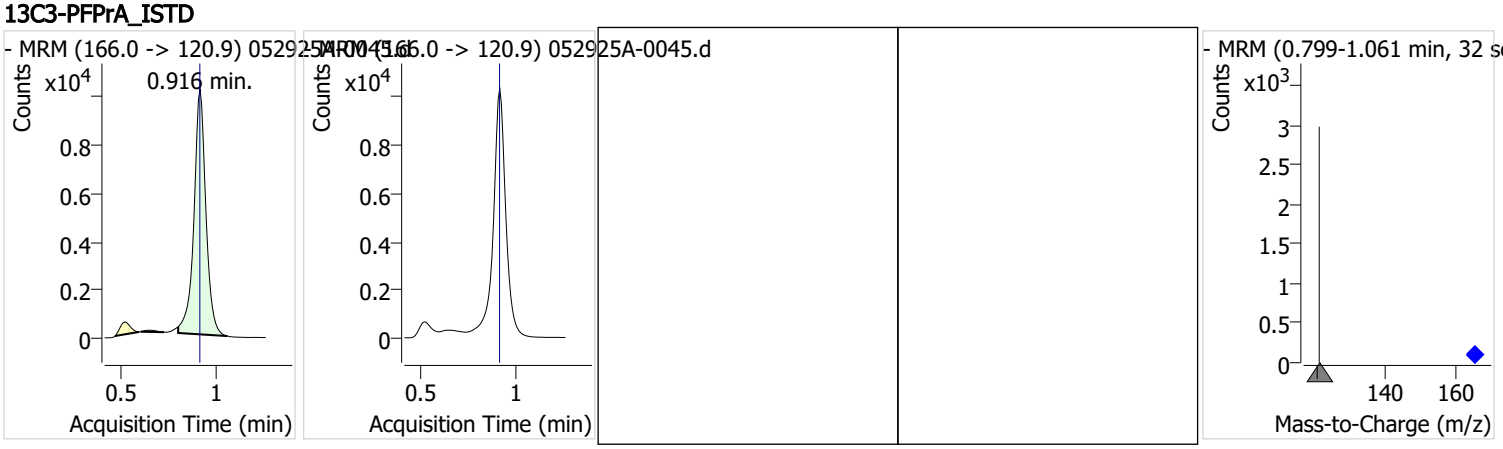
PFPrA



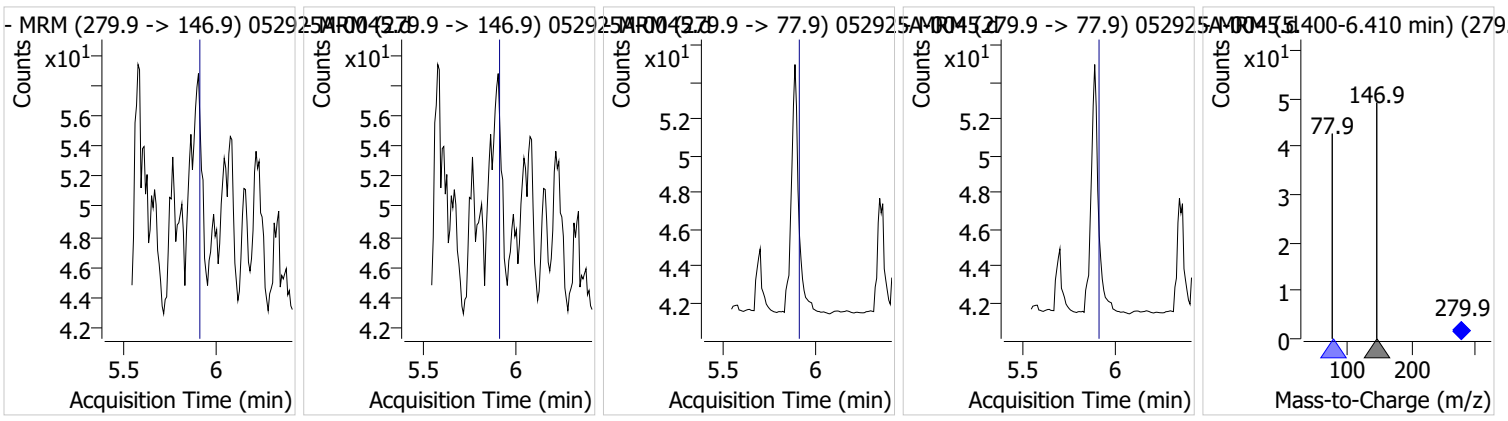
13C3-PFPrA



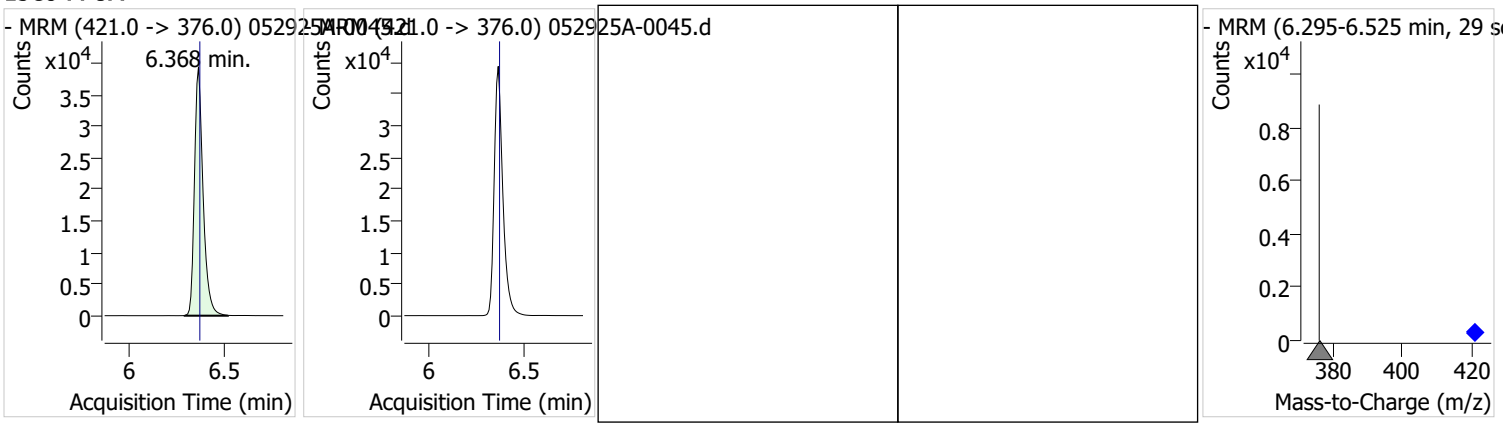
13C3-PFPrA_ISTD



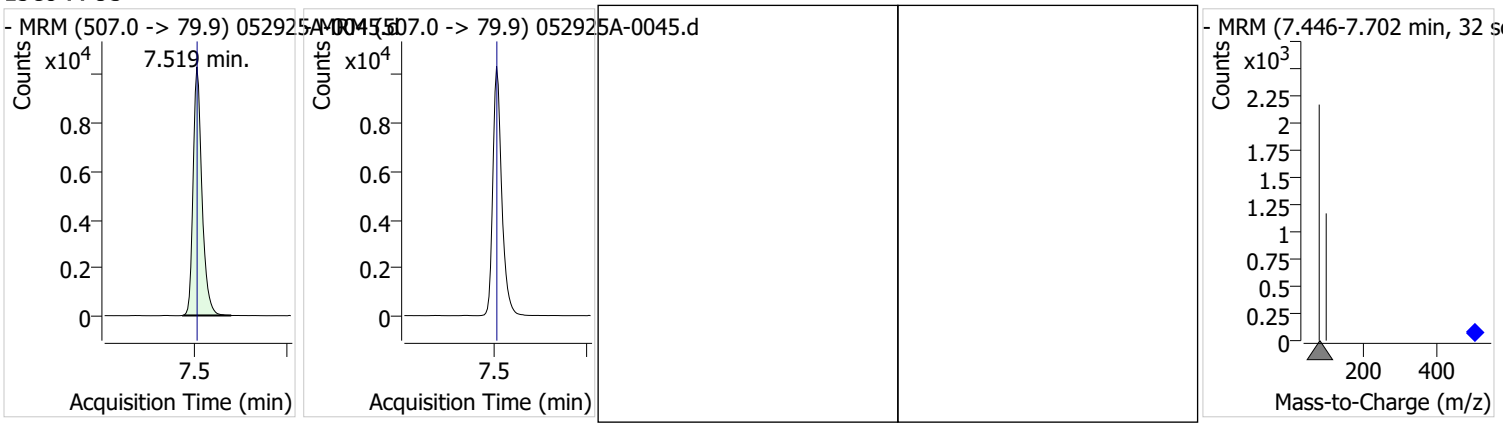
TFSI



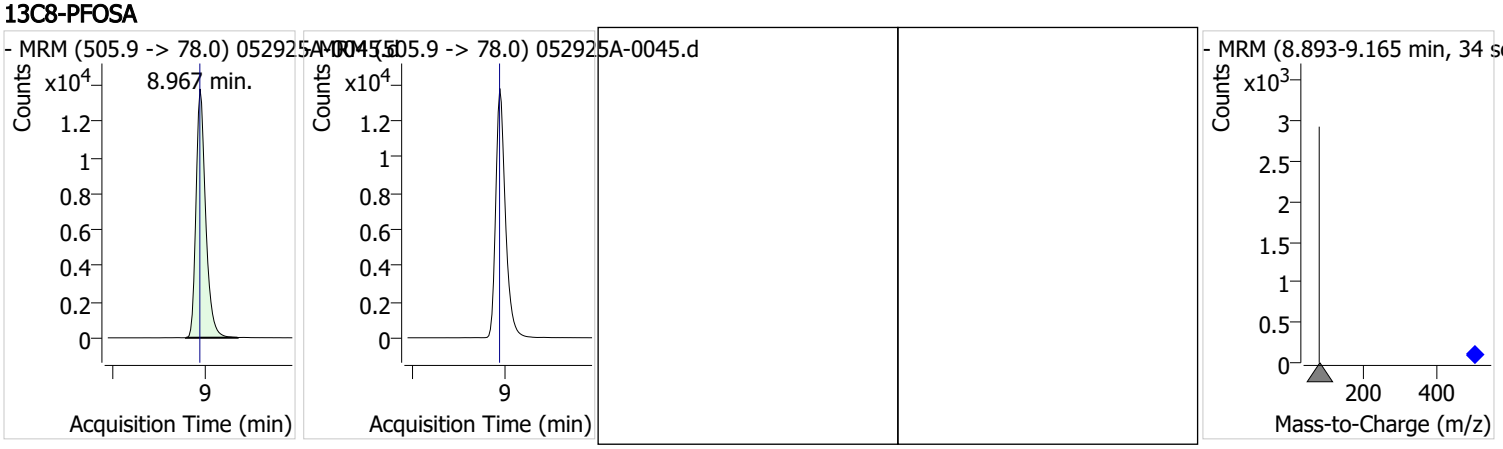
13C8-PFOA



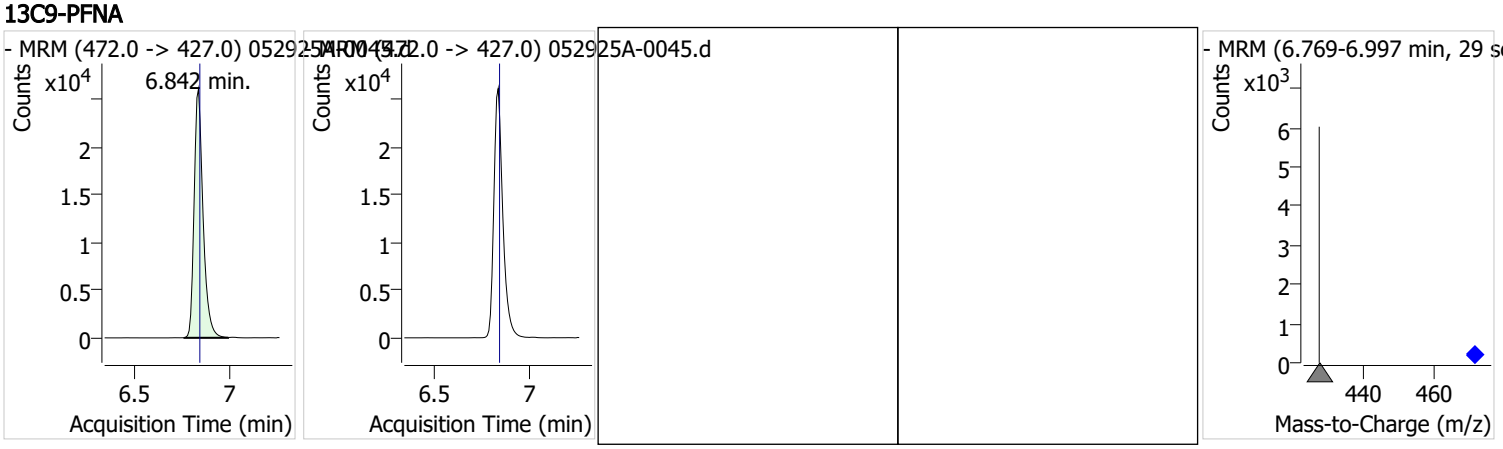
13C8-PFOS



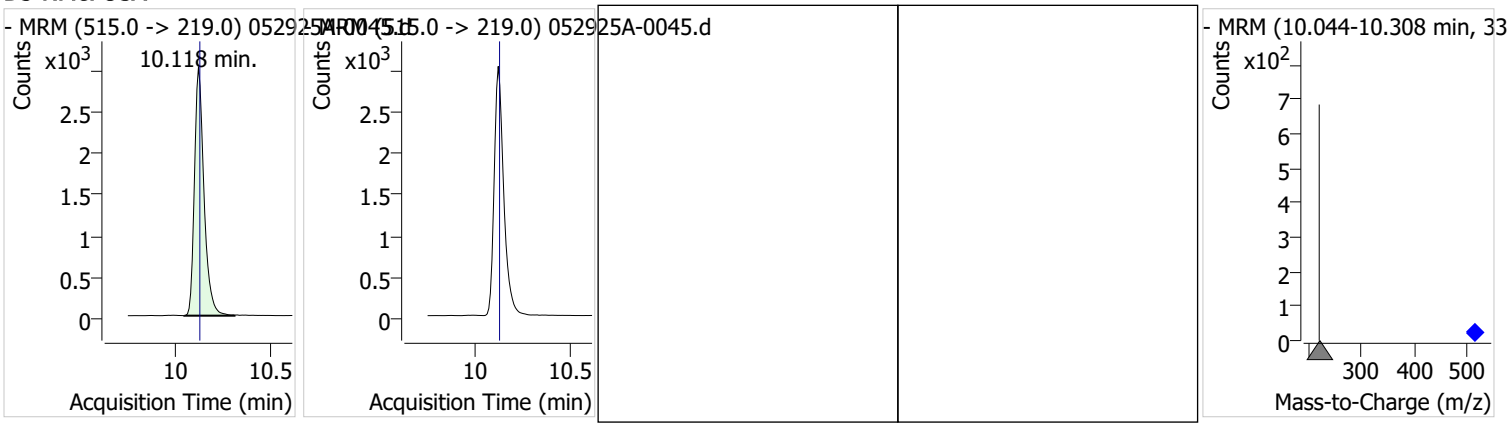
13C8-PFOSA



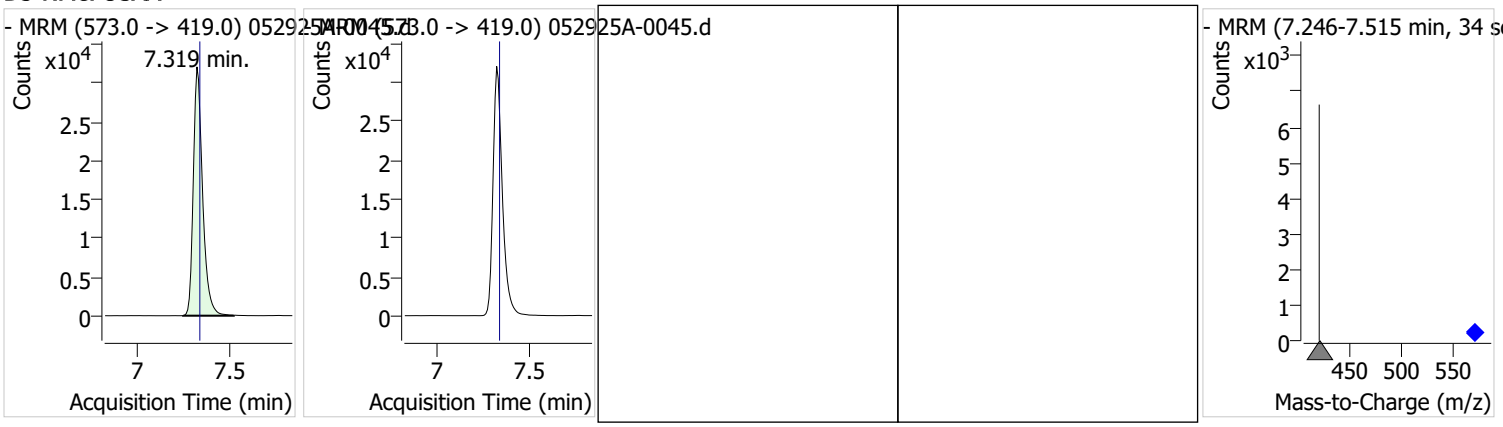
13C9-PFNA



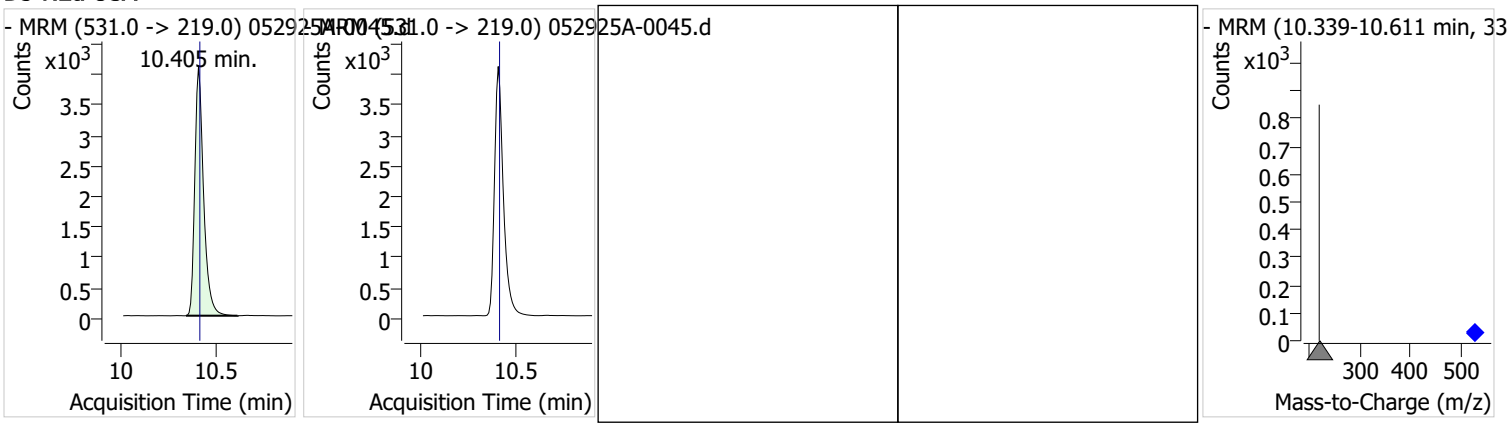
D3-NMeFOSA



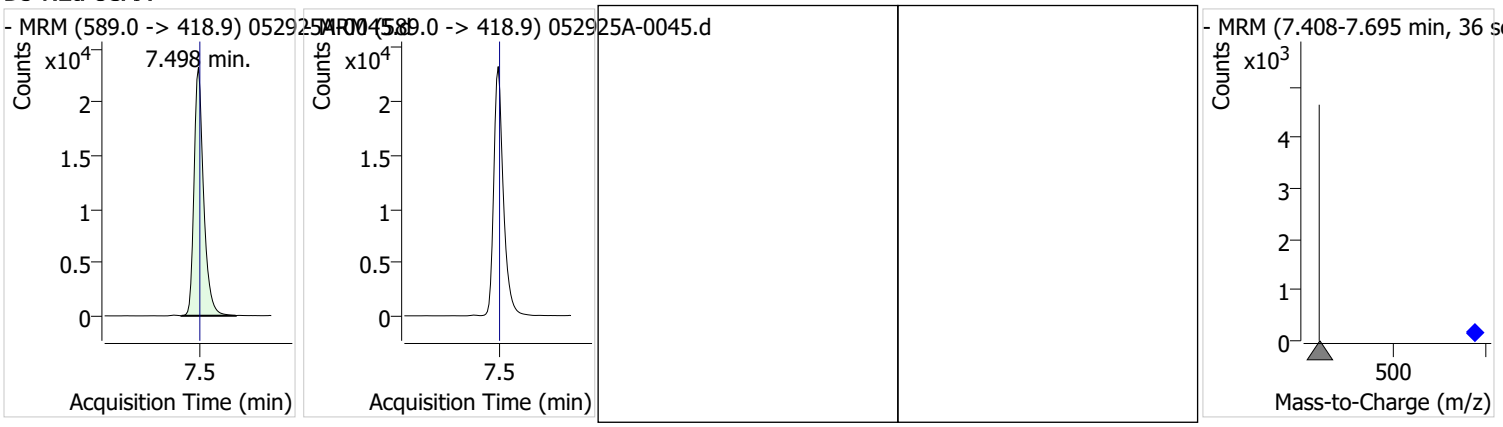
D3-NMeFOSAA



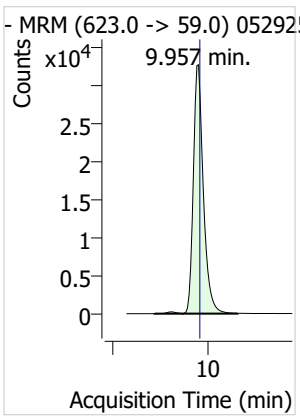
D5-NEtFOSA

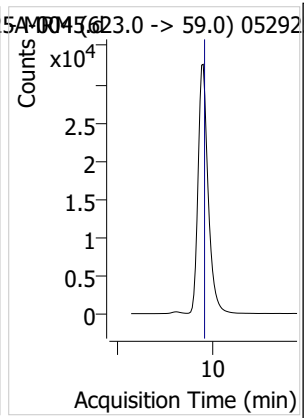


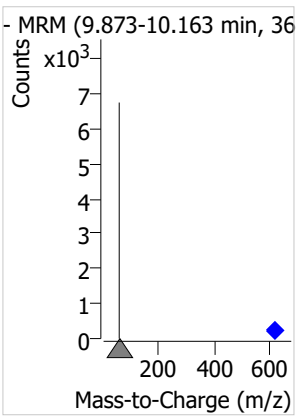
D5-NEtFOSAA



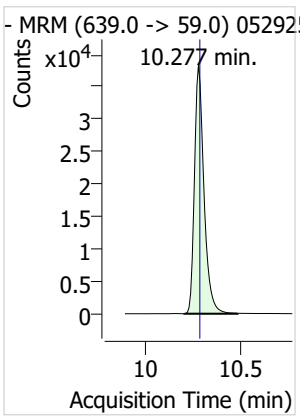
D7-NMeFOSE

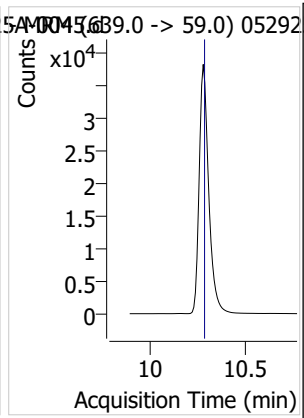


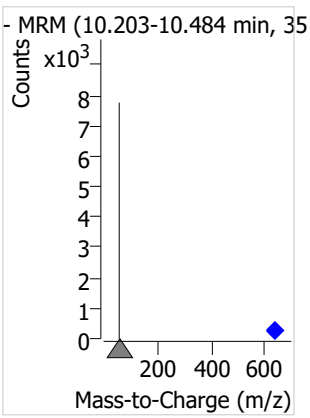




D9-NEtFOSE

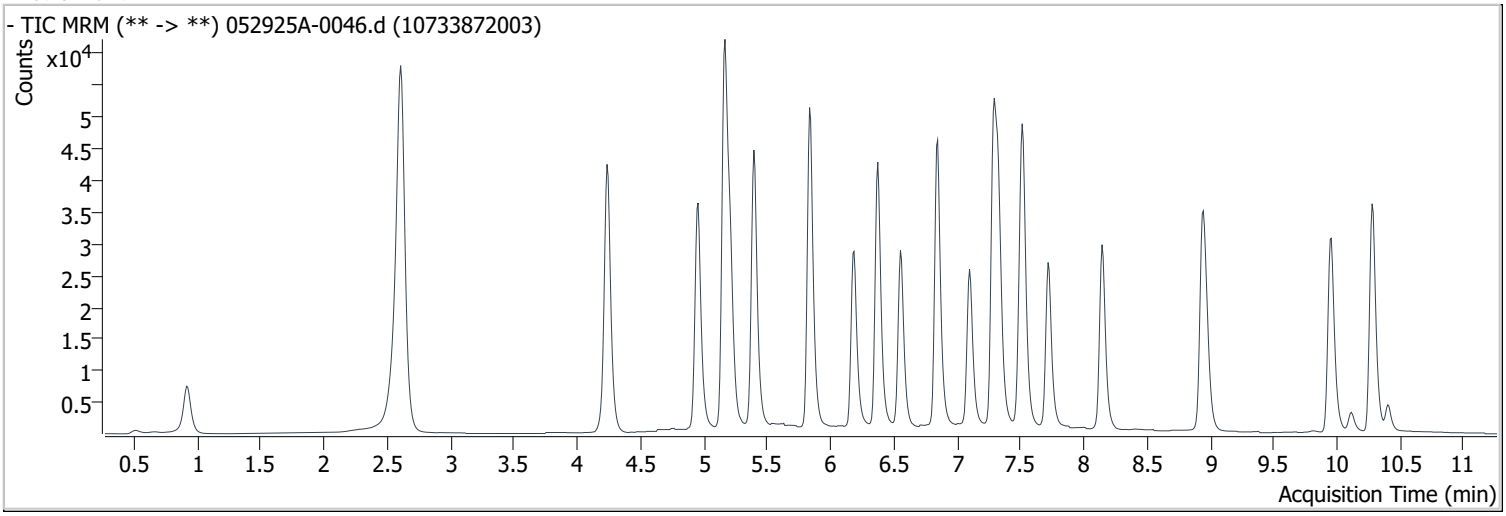






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 8:46 PM	**Data File**	052925A-0046.d
Sample Type	Sample	**Sample Name**	10733872003
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.402	92406	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.954	35333	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	26361	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	162063	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	23340	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	218445	40007.21		13C3-PFBA_ISTD	2.608	96583	9.2928	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.528	30782	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.528	30782	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.528	30782	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.954	35333	8686.49		18O2-PFHxS_ISTD	6.559	34915	5.8770	ng/ml			
13C2-6:2FTS	6.180	26361	7919.65		18O2-PFHxS_ISTD	6.559	34915	5.8195	ng/ml			
13C2-8:2FTS	7.100	23340	19294.40		18O2-PFHxS_ISTD	6.559	34915	5.1333	ng/ml			
13C2-PFDoA	8.146	98222	8415.40		13C2-PFDA_ISTD	7.290	76634	1.0258	ng/ml			
13C2-PFDA	7.290	76634	200440.90					1.5762	ng/ml			
13C2-PFHxA	5.170	95053	28421.81					3.0839	ng/ml			
13C2-PFTeDA	8.936	103623	7042.21		13C2-PFDA_ISTD	7.290	76634	0.9632	ng/ml			
13C4-PFOS	7.529	35763	10863.00					3.2444	ng/ml			
13C3-HFPODA	5.402	92406	380148.26		13C2-PFHxA_ISTD	5.170	95053	9.0988	ng/ml			
13C3-PFBS	5.213	55508	6403.25		18O2-PFHxS_ISTD	6.559	34915	2.3285	ng/ml			
13C3-PFHxS	6.560	37241	108251.58		18O2-PFHxS_ISTD	6.559	34915	2.3071	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.506	76441	-	ng/ml			
584.0 -> 526.0				*								

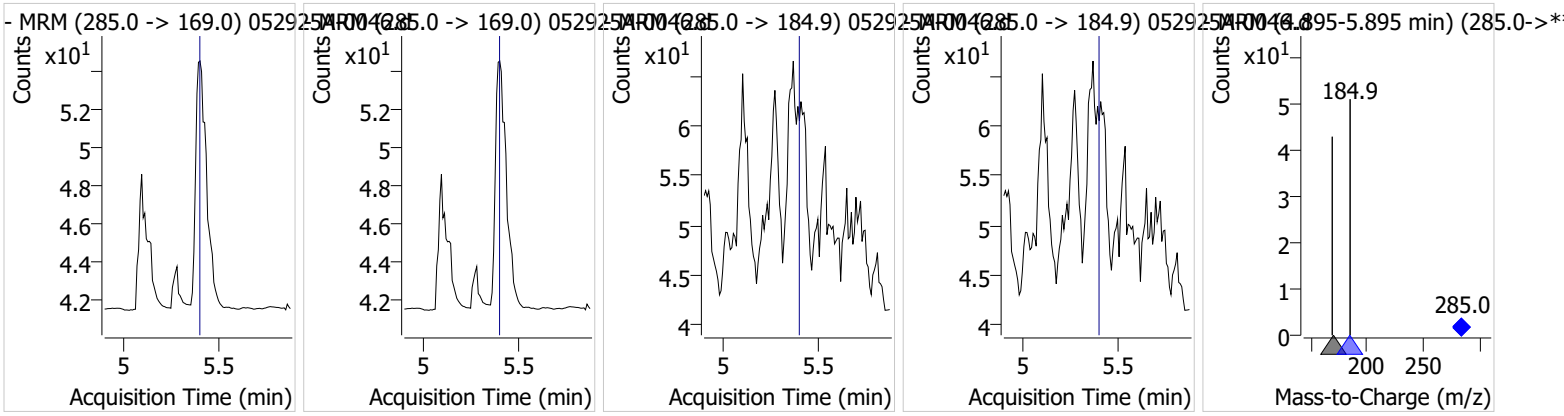
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	162063	17511.06		13C2-PFHxA_ISTD	5.170	95053	2.4009	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.327	100072	-	ng/ml			
570.0 -> 483.0				*								
PFBA	2.611	873	25.61		13C4-PFBA_ISTD	2.606	218445	0.0401	ng/ml			
13C5-PFHxA	5.169	95899	28394.14		13C2-PFHxA_ISTD	5.170	95053	2.2727	ng/ml			
PFBS	5.213	1051	148.87		13C3-PFBS_ISTD	5.213	55508	0.0359	ng/ml			
298.9 -> 98.8	5.213	498	210.46	47.4								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	10277	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.289	77481	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.146	98222	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	12657	-	ng/ml			
526.0 -> 169.0				*								
PFHpA	5.839	944	23.77		13C4-PFHpA_ISTD	5.839	162063	0.0130	ng/ml			
362.9 -> 169.0	5.848	136	3.88	14.4								
PFHxA	5.171	2913	21.49		13C5-PFHxA_ISTD	5.169	95899	0.0651	ng/ml			
313.0 -> 118.9	5.180	150	90.81	*5.1								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	112730	-	ng/ml			
PFHxS	6.498	744	100.37		13C3-PFHxS_ISTD	6.560	37241	0.0395	ng/ml			
398.9 -> 99.0	6.498	369	20.87	49.6								
PFNA					13C9-PFNA_ISTD	6.850	73463	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	127321	-	ng/ml			
PFOA	6.300	2010	54.43		13C8-PFOA_ISTD	6.377	106029	0.0401	ng/ml			
413.0 -> 169.0	6.300	563	181.05	28.0								
PFOS	7.399	649	50.55		13C8-PFOS_ISTD	7.528	30782	0.0357	ng/ml			
499.0 -> 99.0	7.402	263	31.72	40.5								
PFPeA	4.239	1868	64.49		13C5-PFPeA_ISTD	4.237	155136	0.0535	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	218445	-	ng/ml			
13C5-PFPeA	4.237	155136	29288.14		13C2-PFHxA_ISTD	5.170	95053	4.6084	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	155136	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.146	98222	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.169	95899	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	77481	23479.27		13C2-PFDA_ISTD	7.290	76634	1.0737	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.169	95899	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	41563	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	84729	25830.70		13C2-PFDA_ISTD	7.290	76634	1.0513	ng/ml			
13C4-PFOA	6.377	25417	7899.54					3.0740	ng/ml			
PFDS					13C8-PFOS_ISTD	7.528	30782	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.528	30782	-	ng/ml			
549.0 -> 98.8				*								
PFPeS	5.980	261	4.99		13C3-PFHxS_ISTD	6.560	37241	0.0112	ng/ml	✔	NI	MJL 5/30/25
349.0 -> 98.9	5.979	88	3.90	33.8								

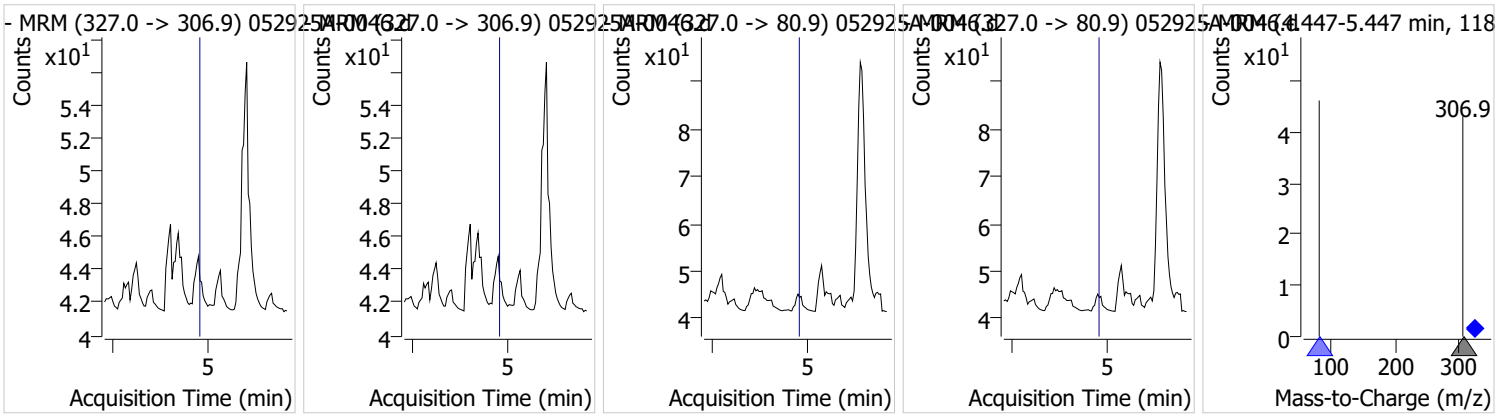
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA					13C2-PFTeDA_ISTD	8.936	103623	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	84729	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.608	96583	953.89					6.3598	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	155136	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.169	95899	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.850	73463	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.850	72940	3412.55					1.5423	ng/ml			
18O2-PFHxS	6.559	34915	307612.91					3.0738	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.528	30782	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.528	30782	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.920	236	10.45		13C3-PFPrA_ISTD	0.916	34349	0.0781	ng/ml	✔	WP	MJL 5/30/25
13C3-PFPrA	0.916	34349	22763.99		13C3-PFBA_ISTD	2.608	96583	3.2875	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.402	92406	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.377	106029	32981.04		13C4-PFOA_ISTD	6.377	25417	2.2265	ng/ml			
13C8-PFOS	7.528	30782	3696.26		13C4-PFOS_ISTD	7.529	35763	2.2008	ng/ml			
13C8-PFOSA	8.975	41563	5827.12		13C4-PFOS_ISTD	7.529	35763	2.0666	ng/ml			
13C9-PFNA	6.850	73463	22620.57		13C5-PFNA_ISTD	6.850	72940	1.1399	ng/ml			
D3-NMeFOSA	10.118	10277	8106.28		13C4-PFOS_ISTD	7.529	35763	1.6039	ng/ml			
D3-NMeFOSAA	7.327	100072	9571.15		13C4-PFOS_ISTD	7.529	35763	4.4988	ng/ml			
D5-NEtFOSA	10.405	12657	8247.31		13C4-PFOS_ISTD	7.529	35763	1.6432	ng/ml			
D5-NEtFOSAA	7.506	76441	21871.58		13C4-PFOS_ISTD	7.529	35763	4.5249	ng/ml			
D7-NMeFOSE	9.957	112730	28393.82		13C4-PFOS_ISTD	7.529	35763	18.3252	ng/ml			
D9-NEtFOSE	10.277	127321	1858.06		13C4-PFOS_ISTD	7.529	35763	18.6389	ng/ml			

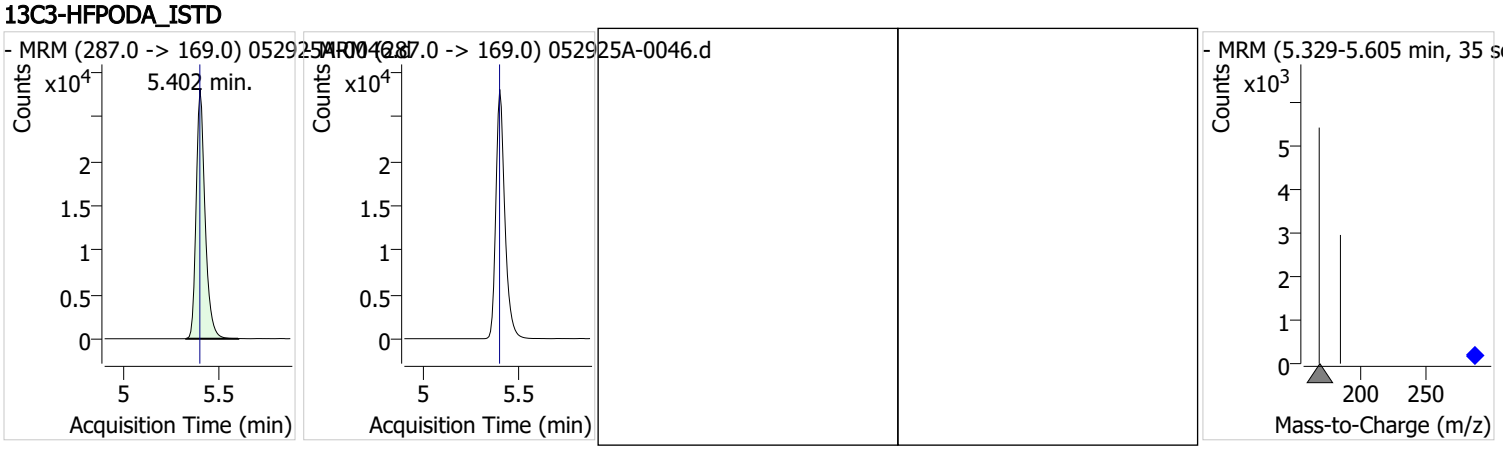
HFPO-DA



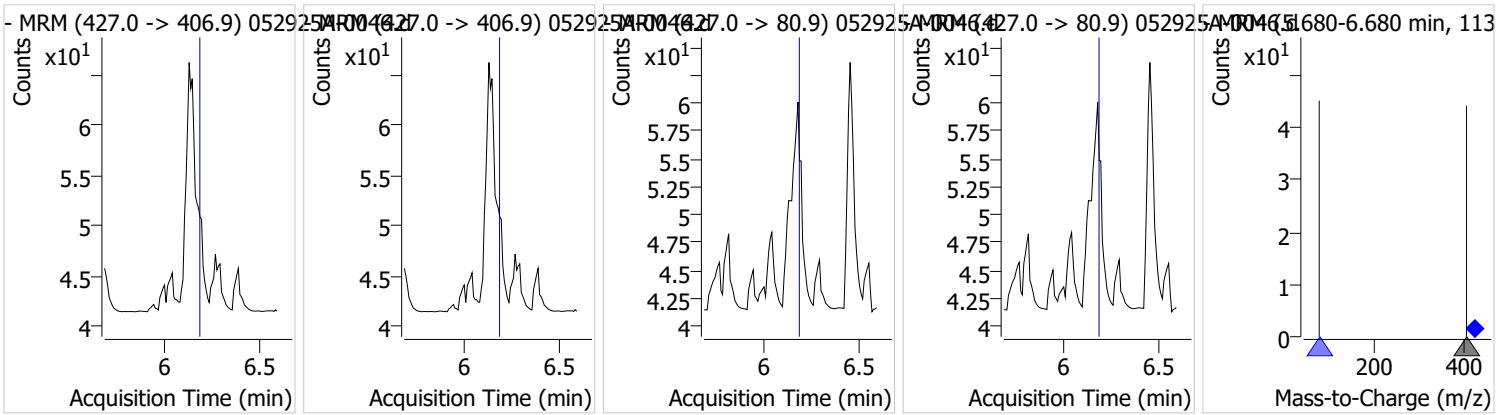
4:2FTS



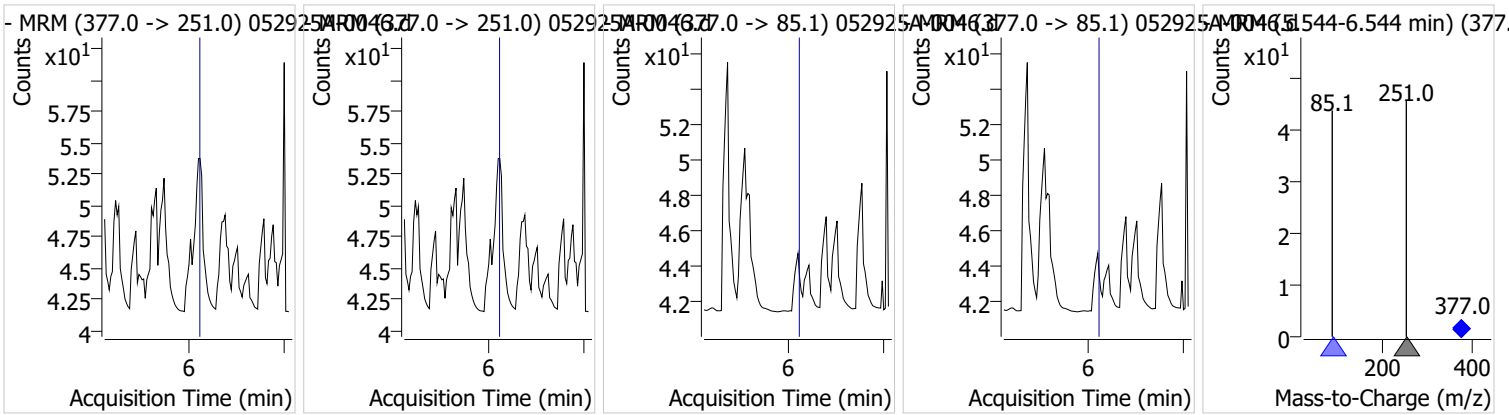
13C3-HFPODA_ISTD



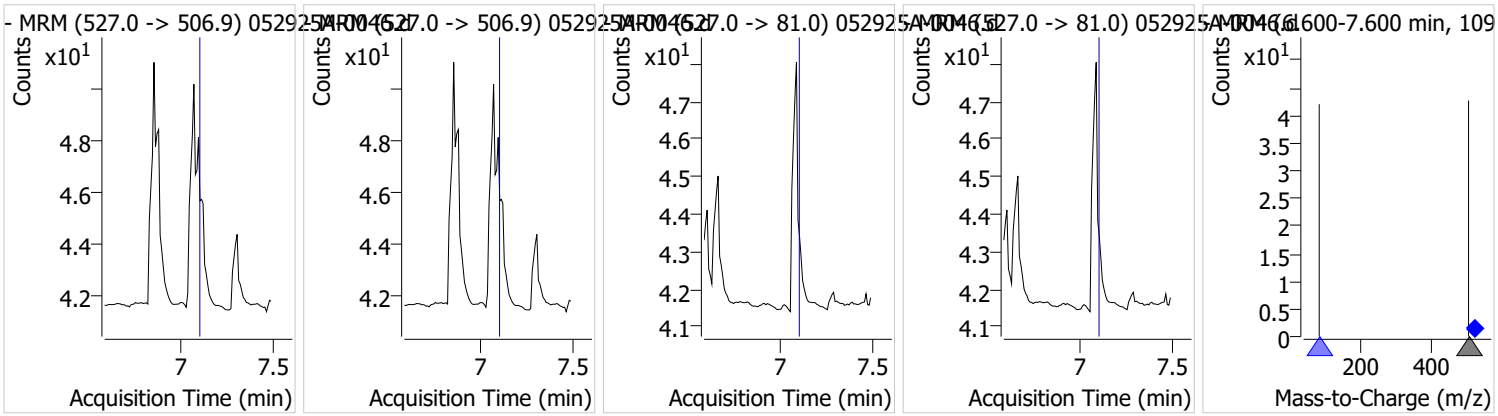
6:2FTS



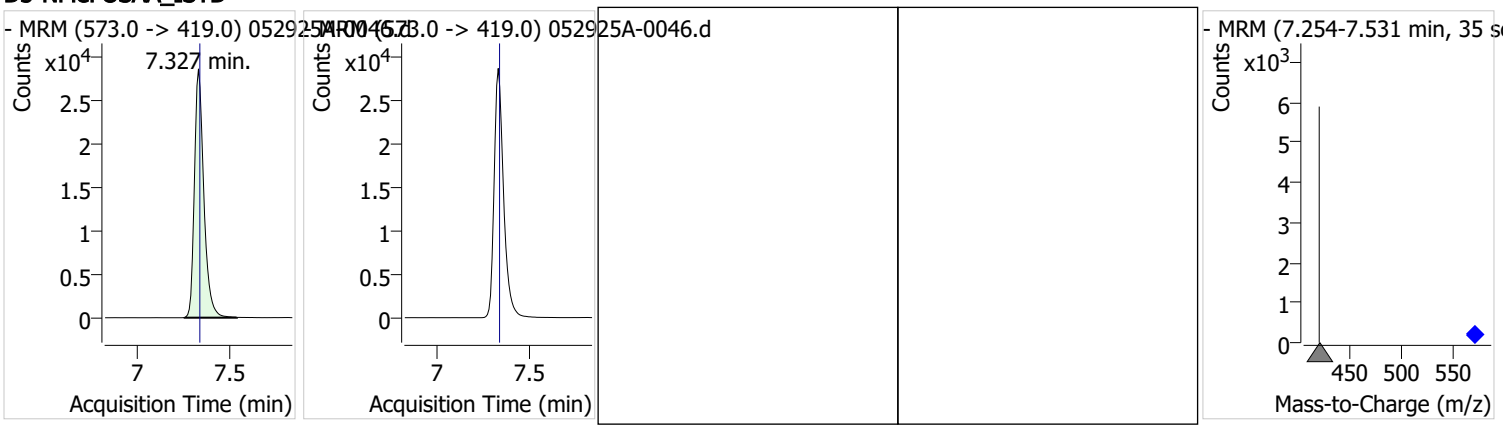
ADONA



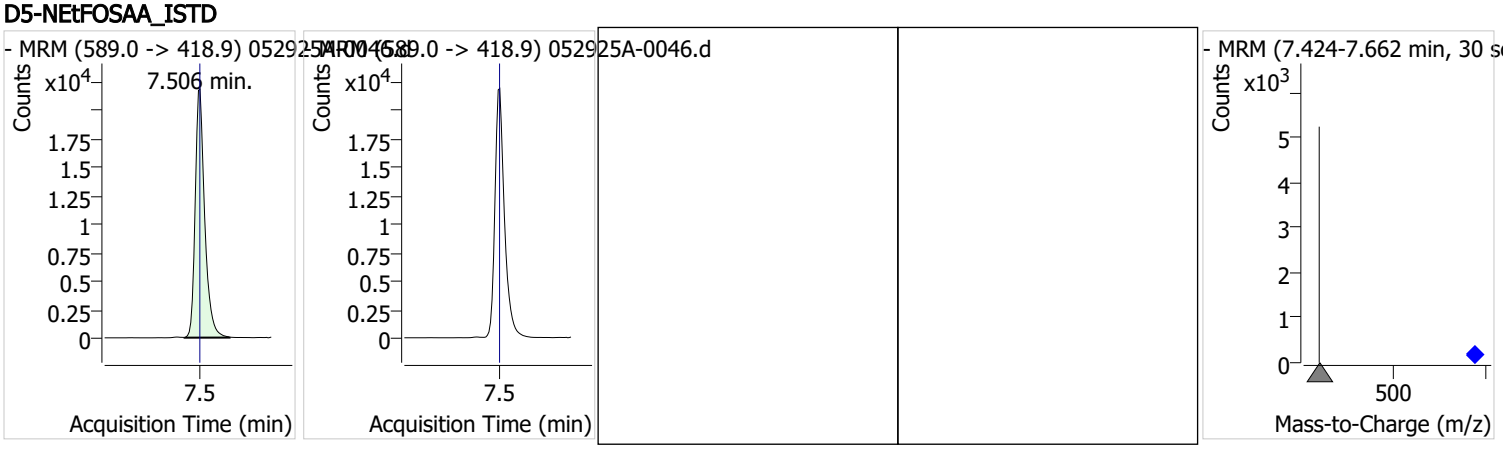
8:2FTS



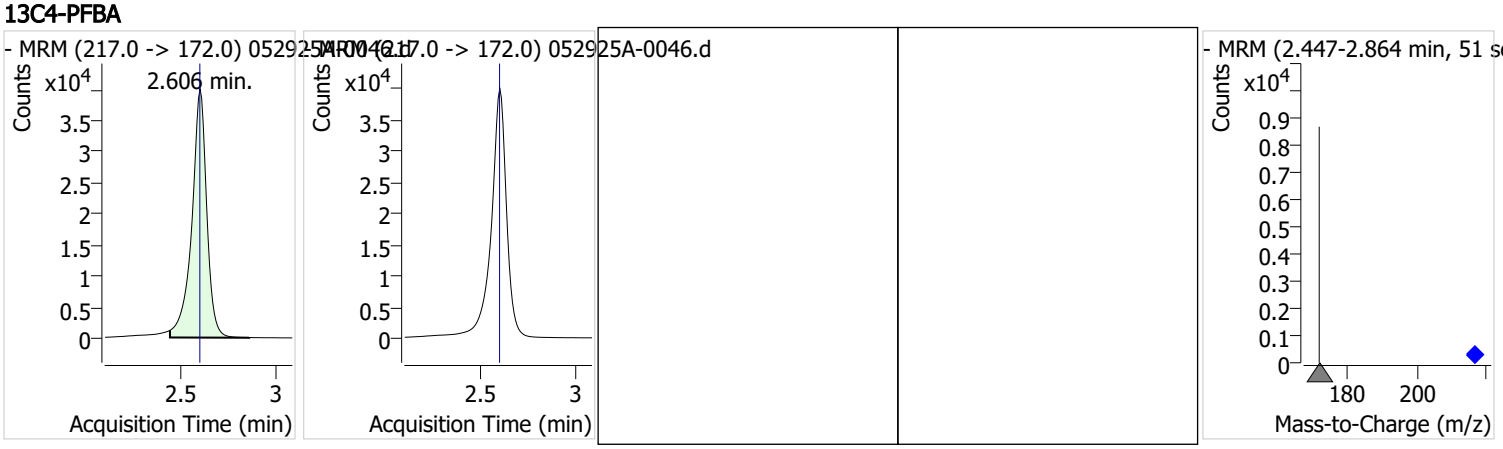
D3-NMeFOSAA_ISTD



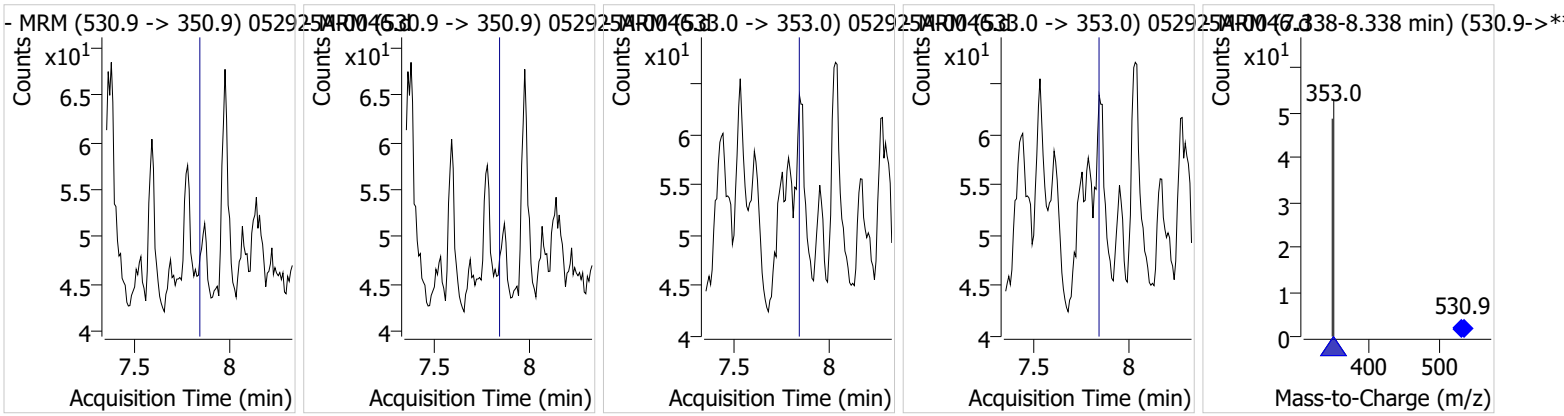
D5-NEtFOSAA_ISTD



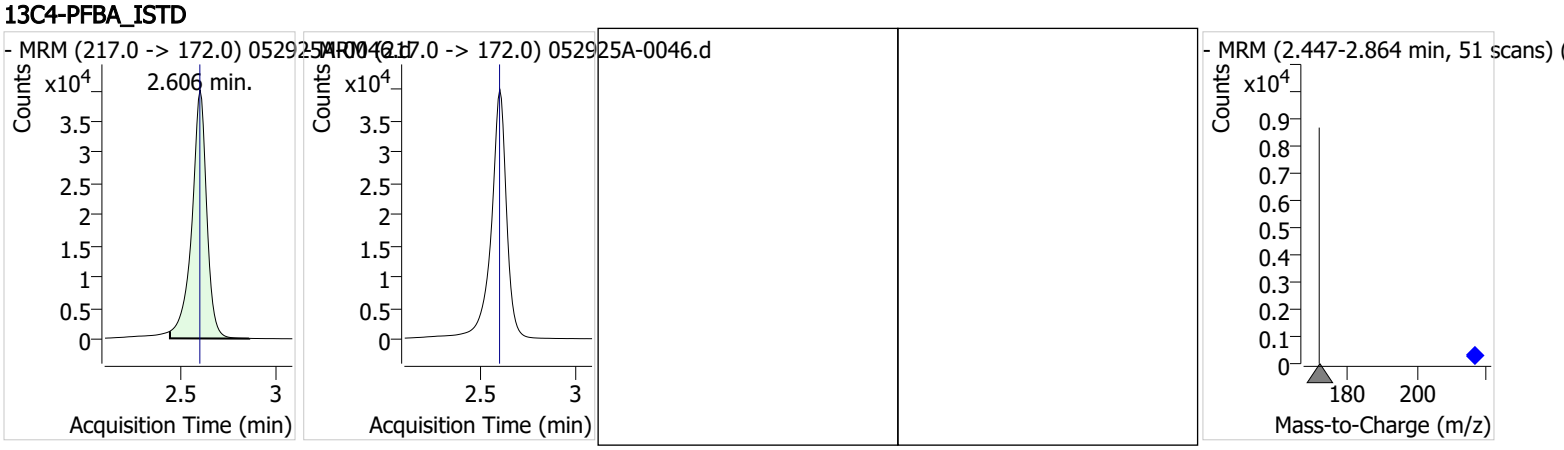
13C4-PFBA



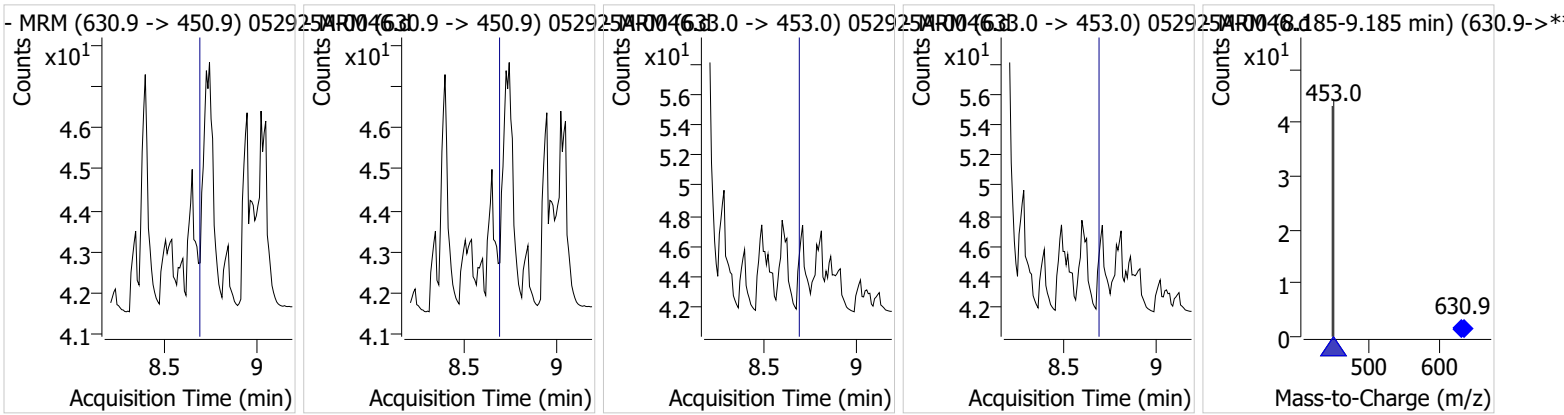
9Cl-PF3ONS



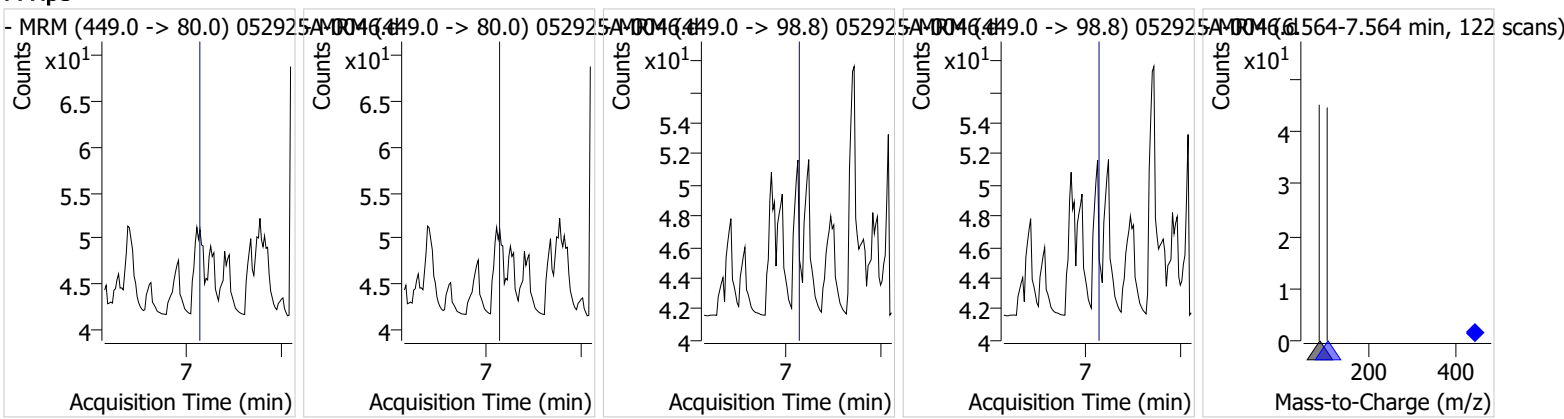
13C4-PFBA_ISTD



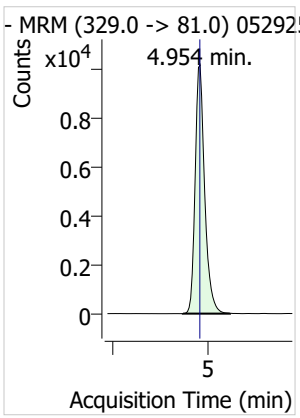
11Cl-PF3OUdS

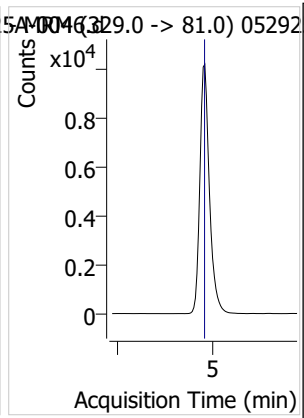


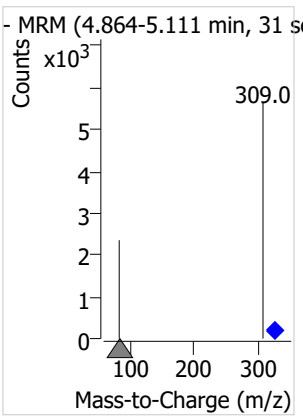
PFHpS



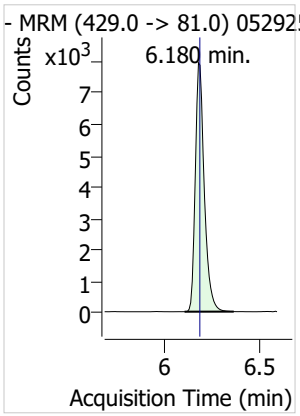
13C2-4:2FTS

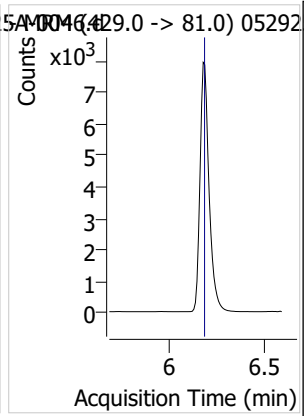


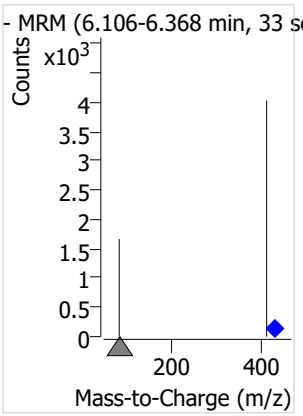




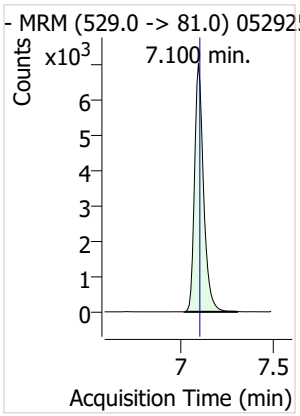
13C2-6:2FTS

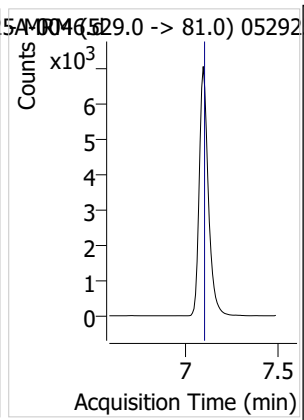


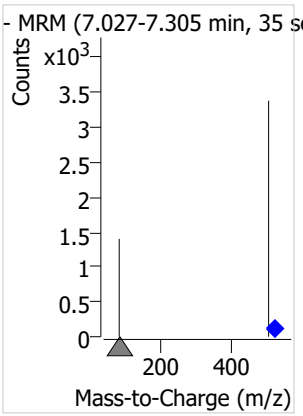




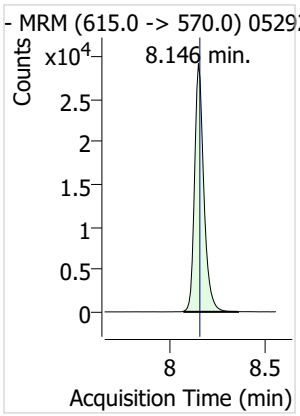
13C2-8:2FTS

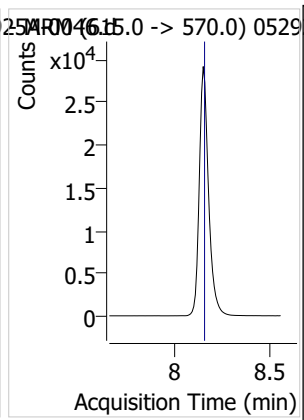


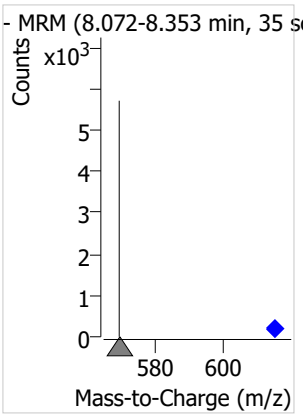




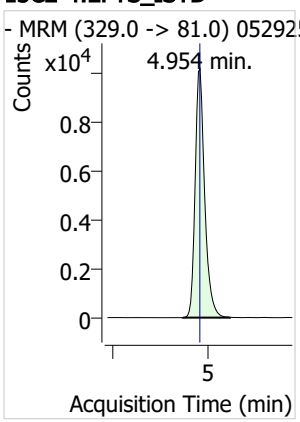
13C2-PFDoA

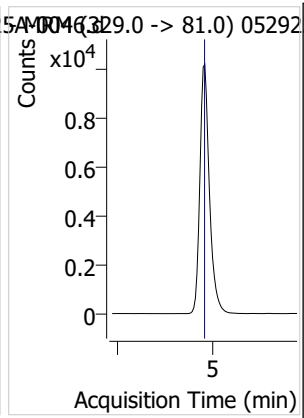


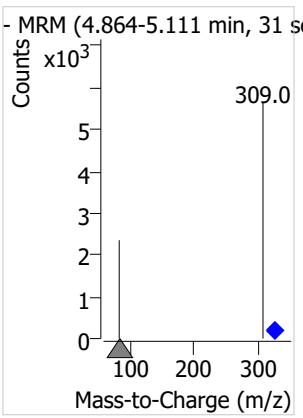




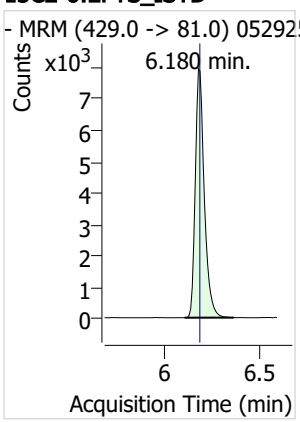
13C2-4:2FTS_ISTD

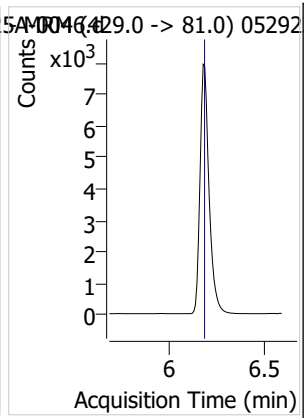


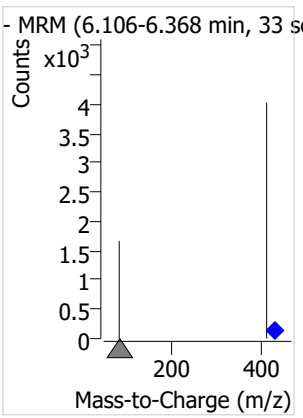




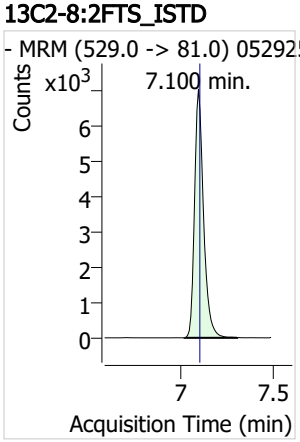
13C2-6:2FTS_ISTD

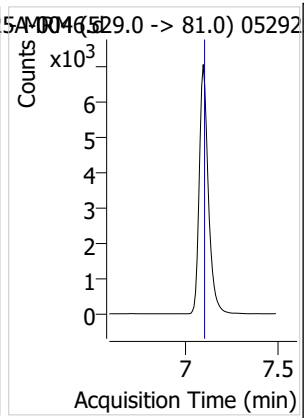


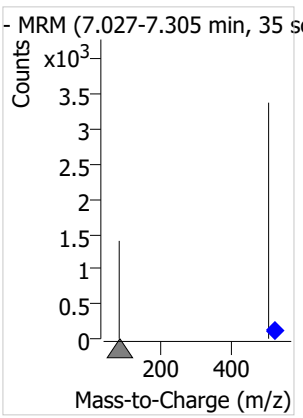




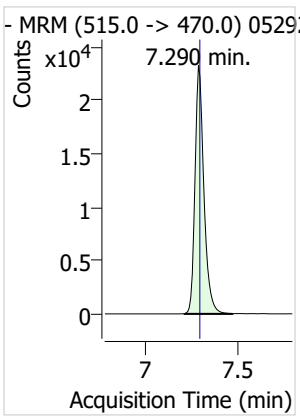
13C2-8:2FTS_ISTD

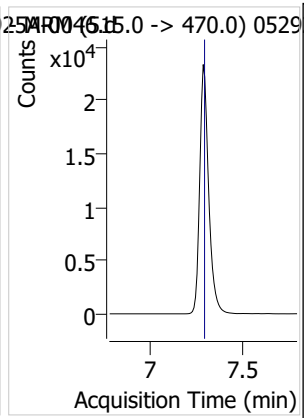


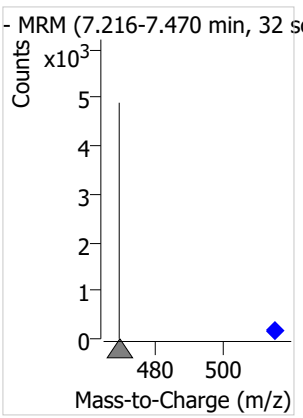




13C2-PFDA



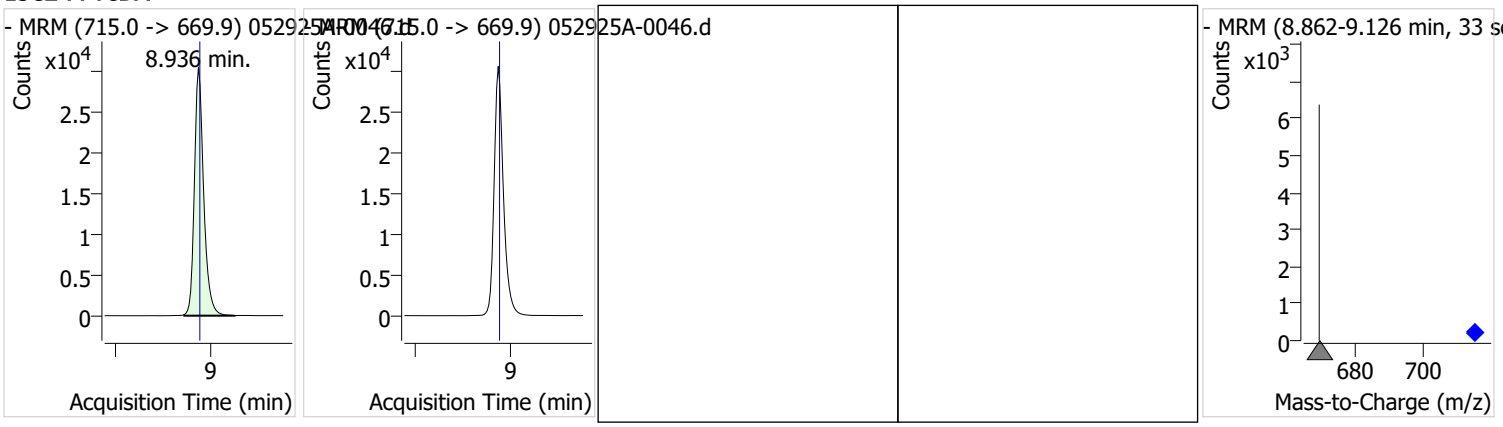




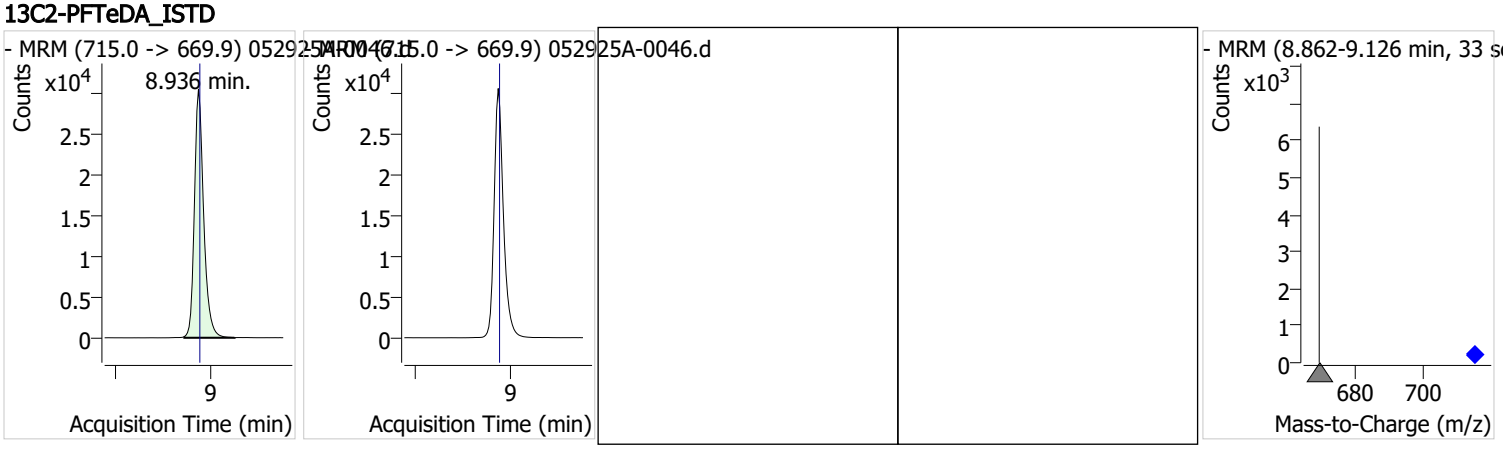
13C2-PFHxA



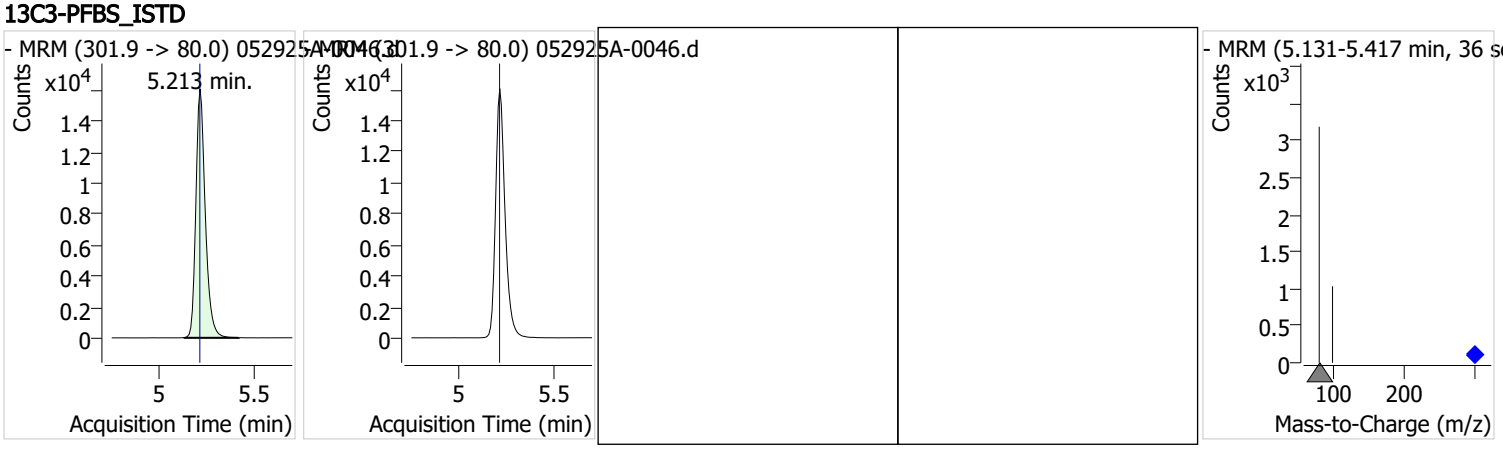
13C2-PFTeDA



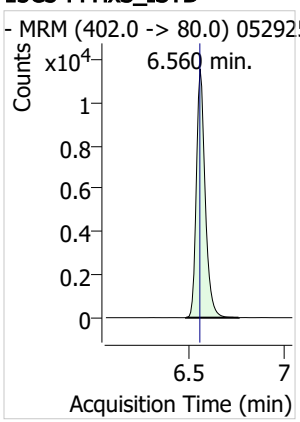
13C2-PFTeDA_ISTD

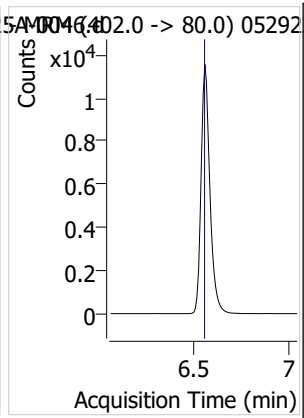


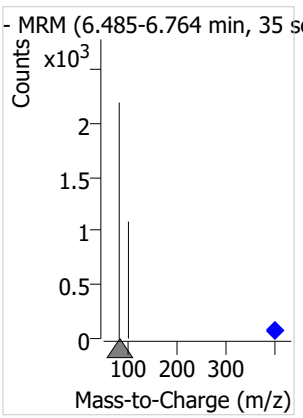
13C3-PFBS_ISTD



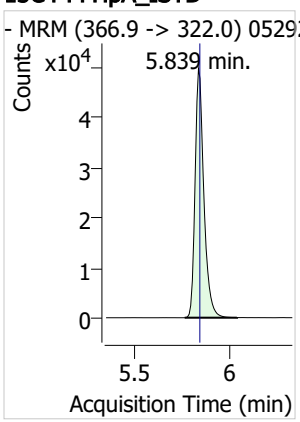
13C3-PFHxS_ISTD

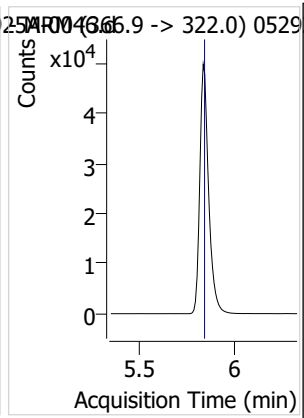


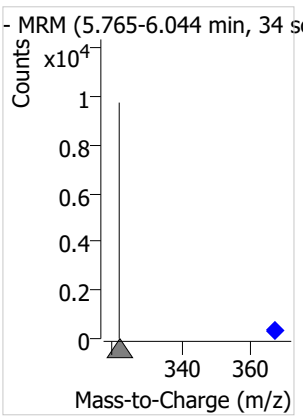




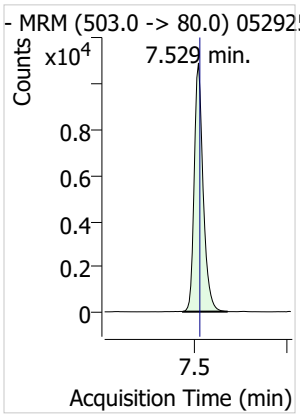
13C4-PFHpA_ISTD

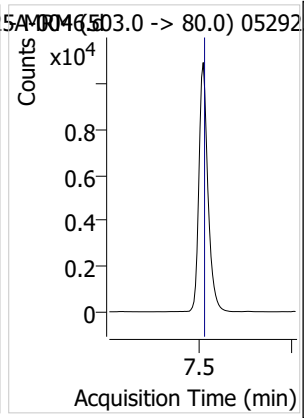


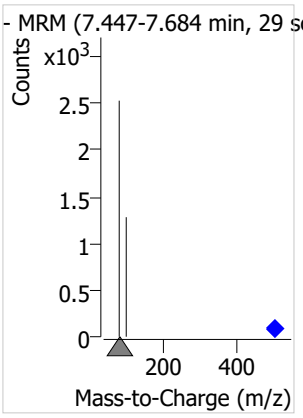




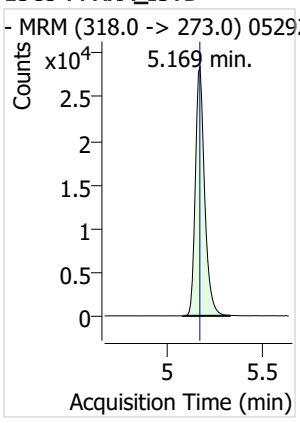
13C4-PFOS

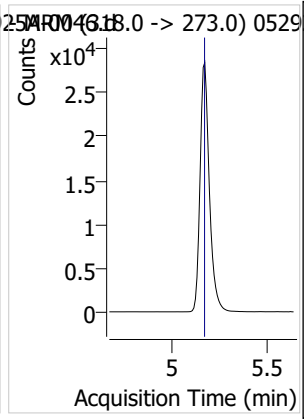


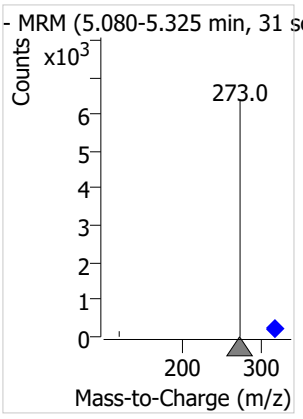




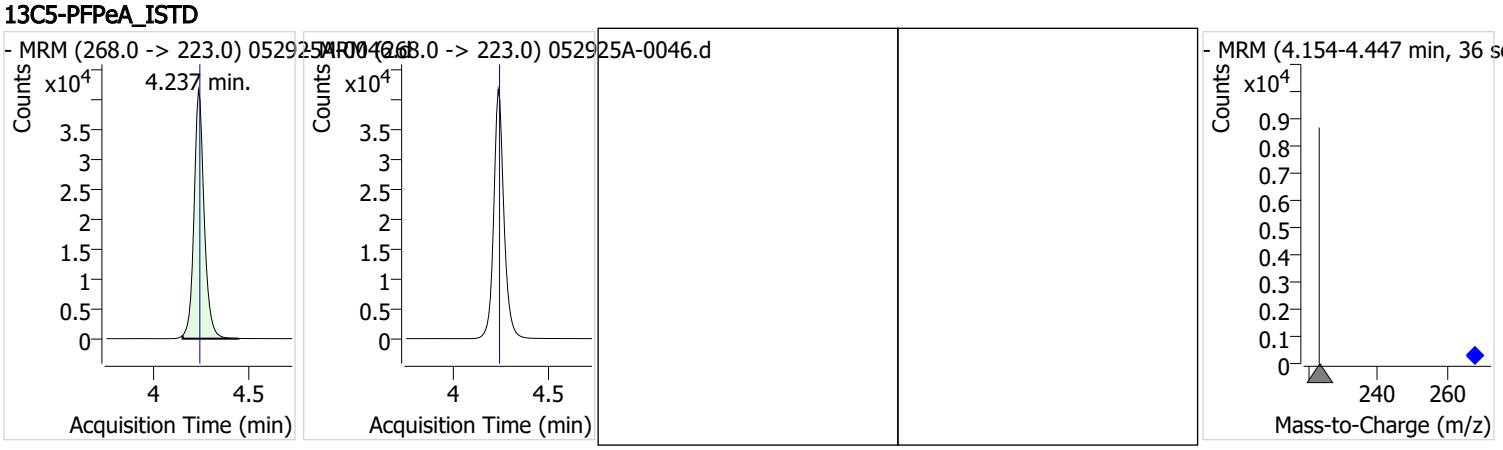
13C5-PFHxA_ISTD







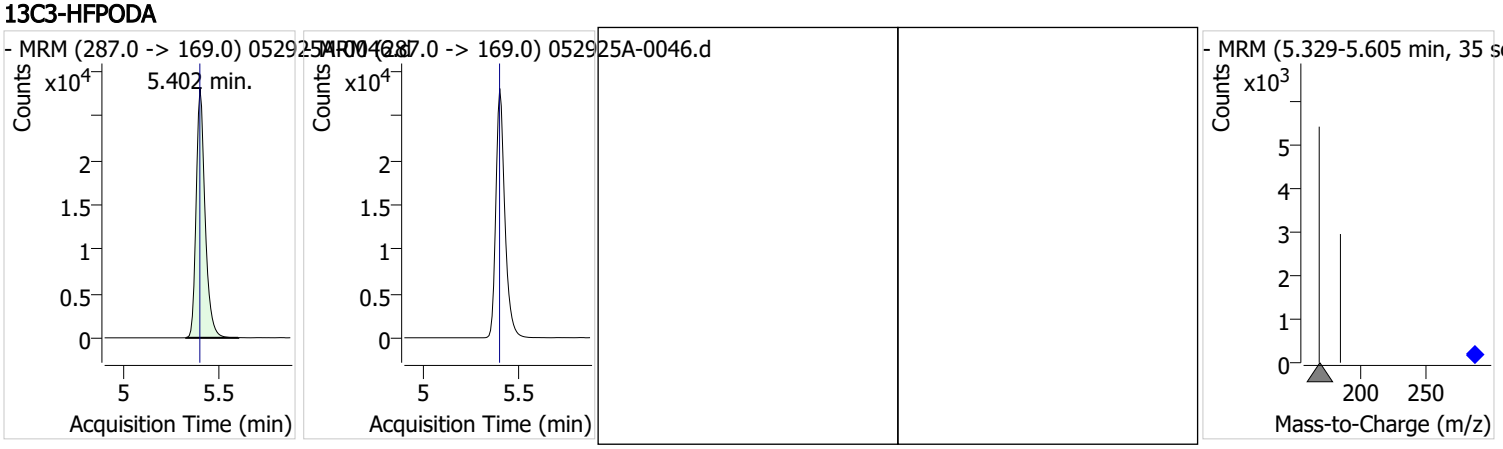
13C5-PFPeA_ISTD



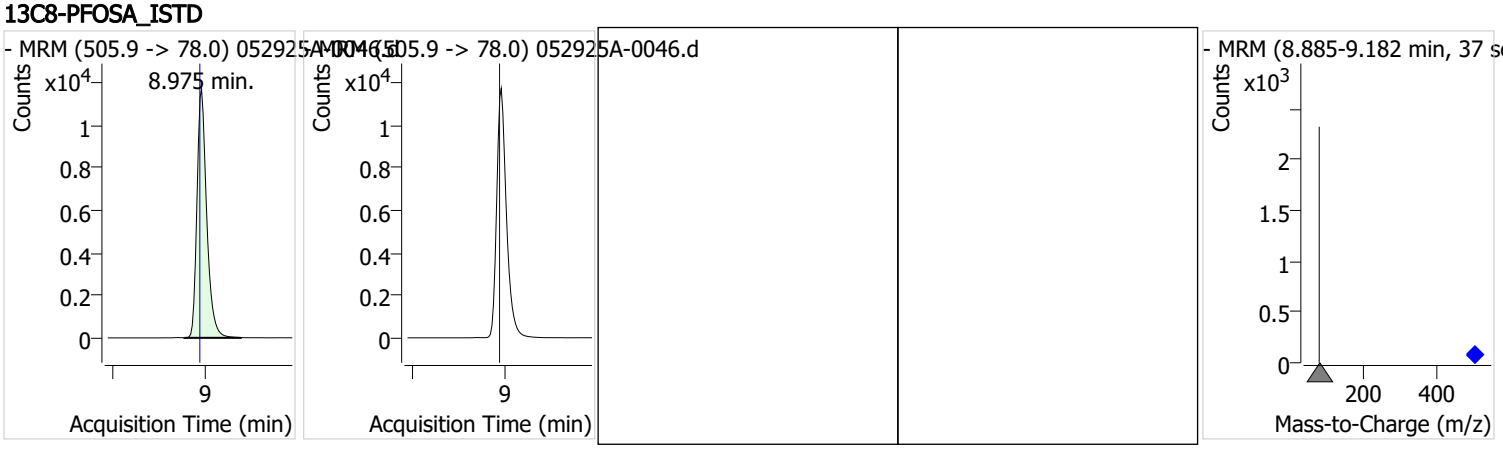
13C6-PFDA_ISTD



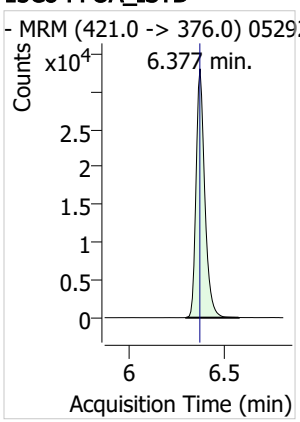
13C3-HFPODA

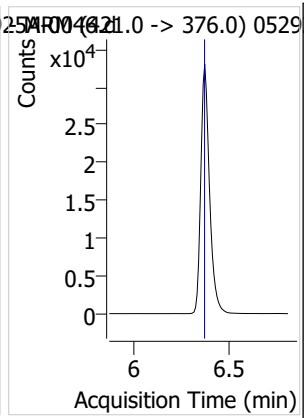


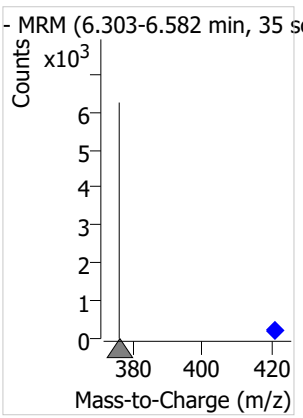
13C8-PFOSA_ISTD



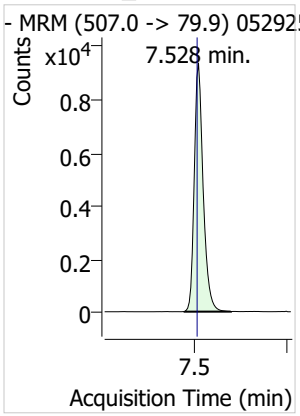
13C8-PFOA_ISTD

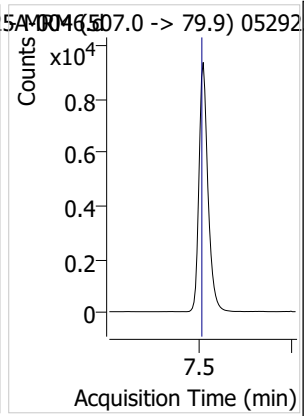


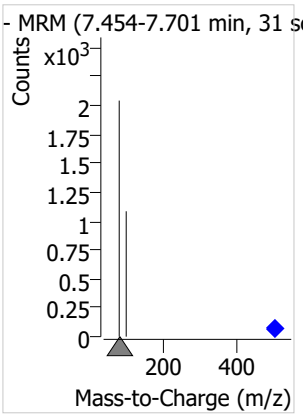




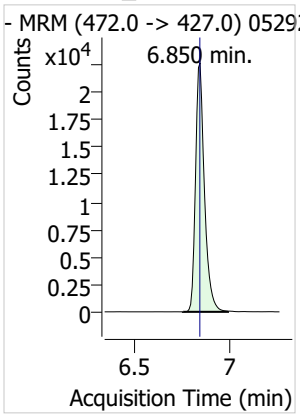
13C8-PFOS_ISTD

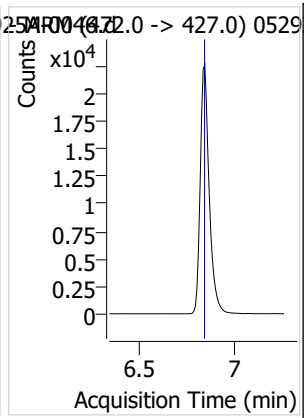


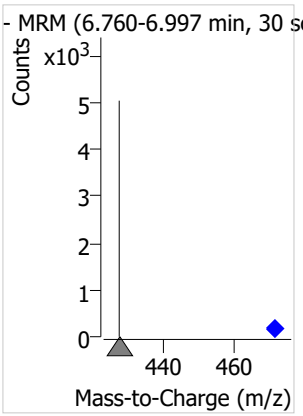




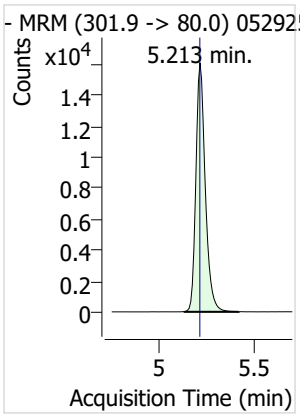
13C9-PFNA_ISTD

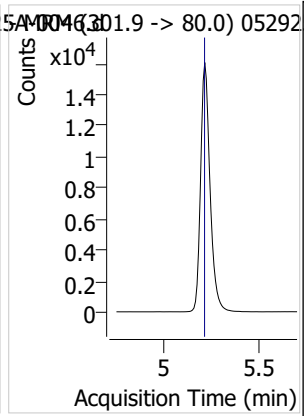


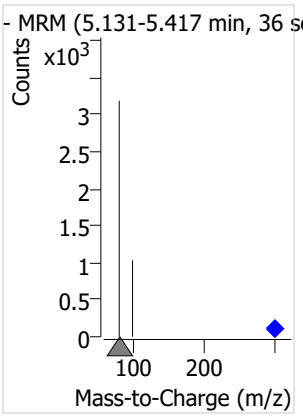




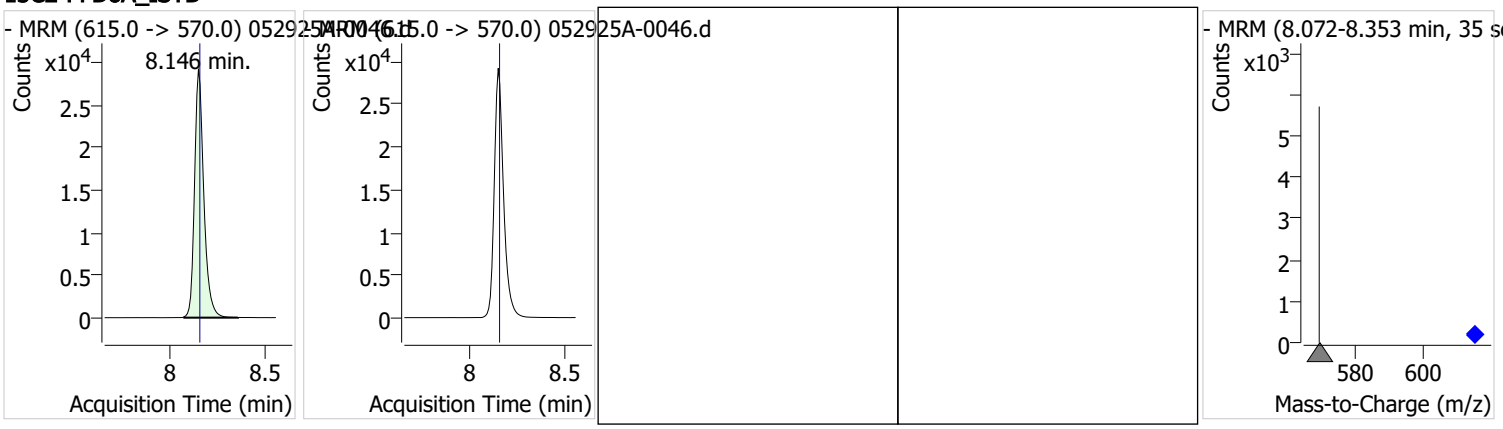
13C3-PFBS







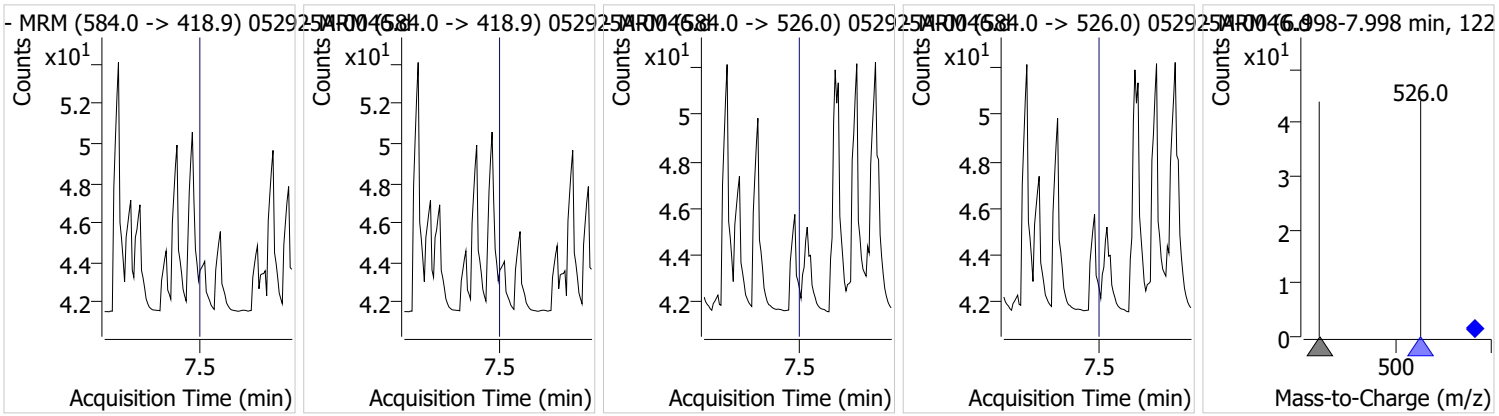
13C2-PFDoA_ISTD



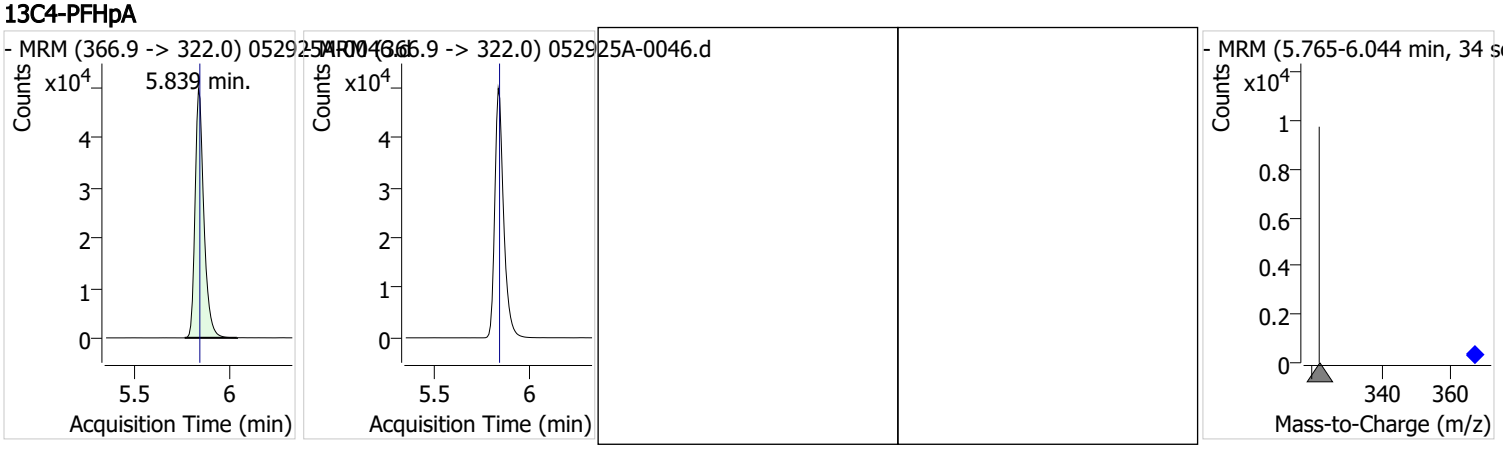
13C3-PFHxS



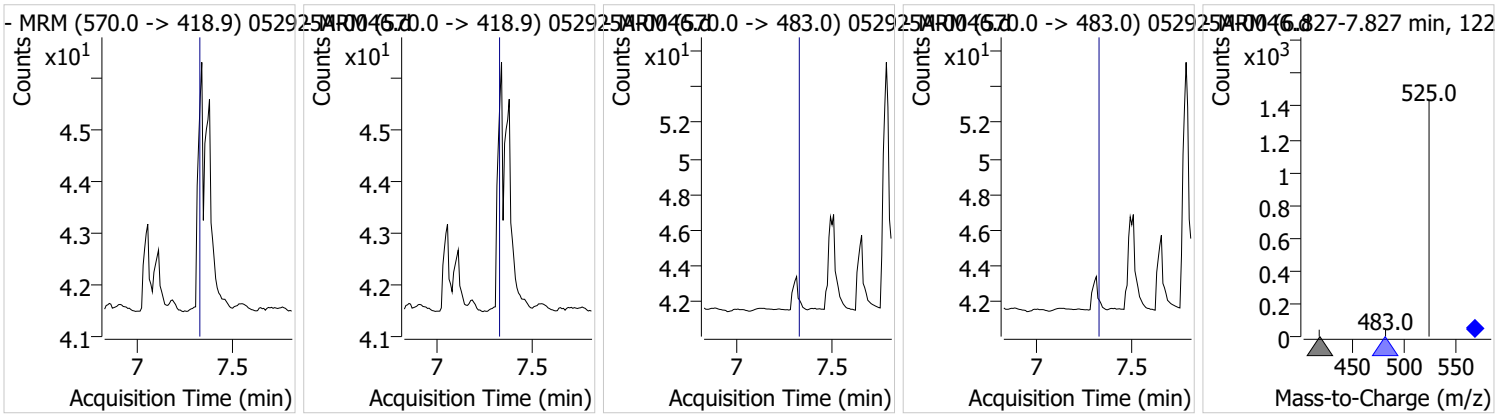
NEtFOSAA



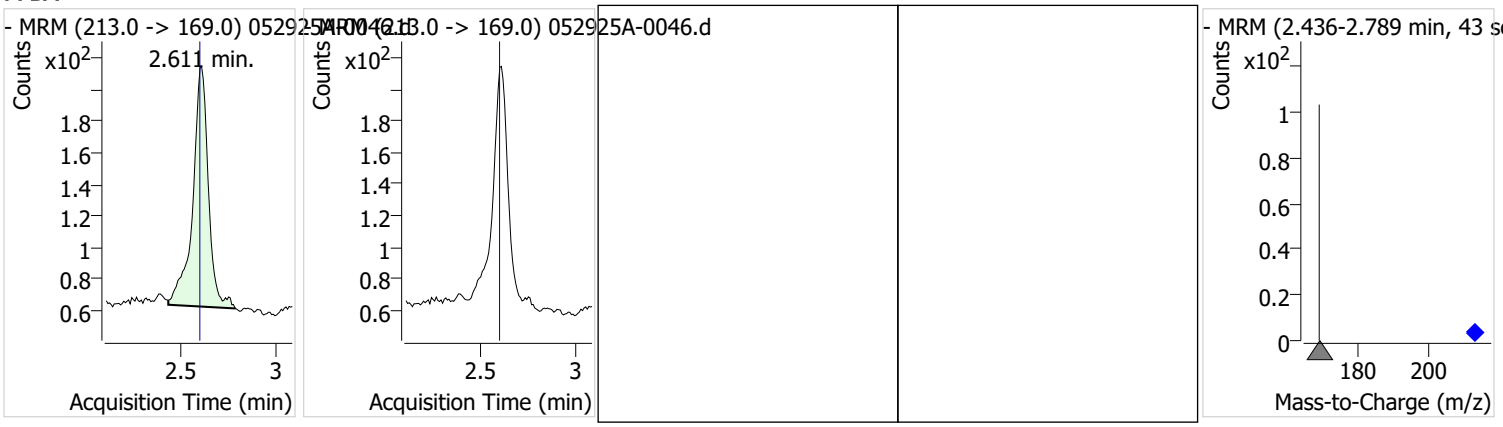
13C4-PFHpA



NMeFOSAA



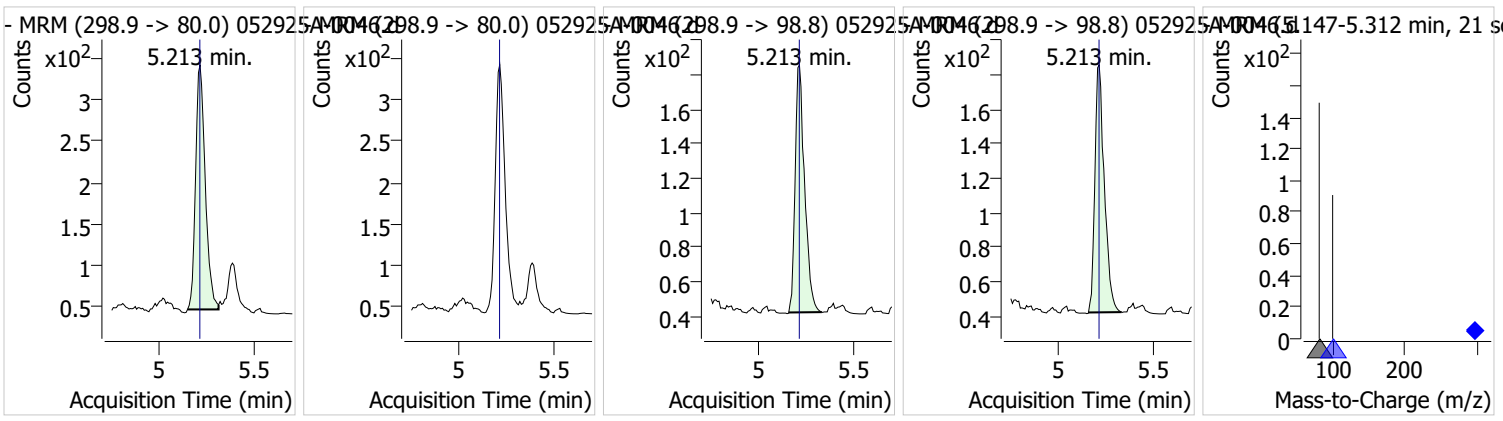
PFBA



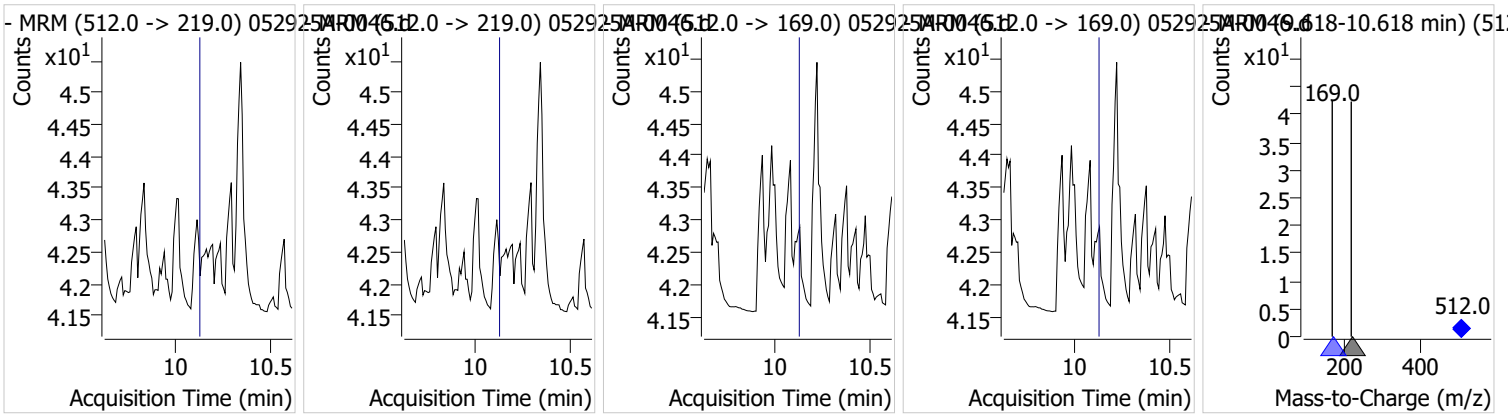
13C5-PFHxA



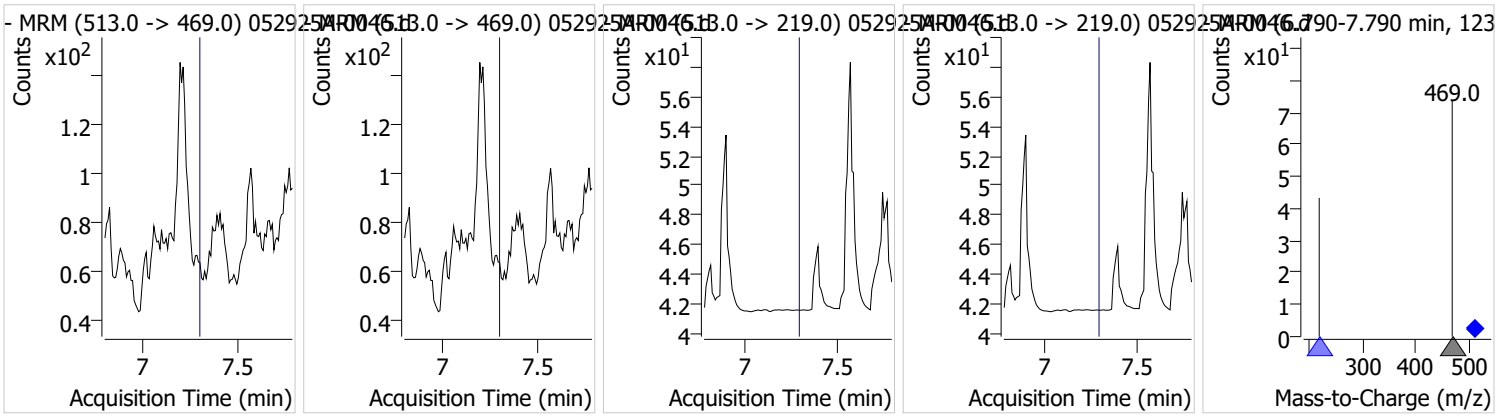
PFBS



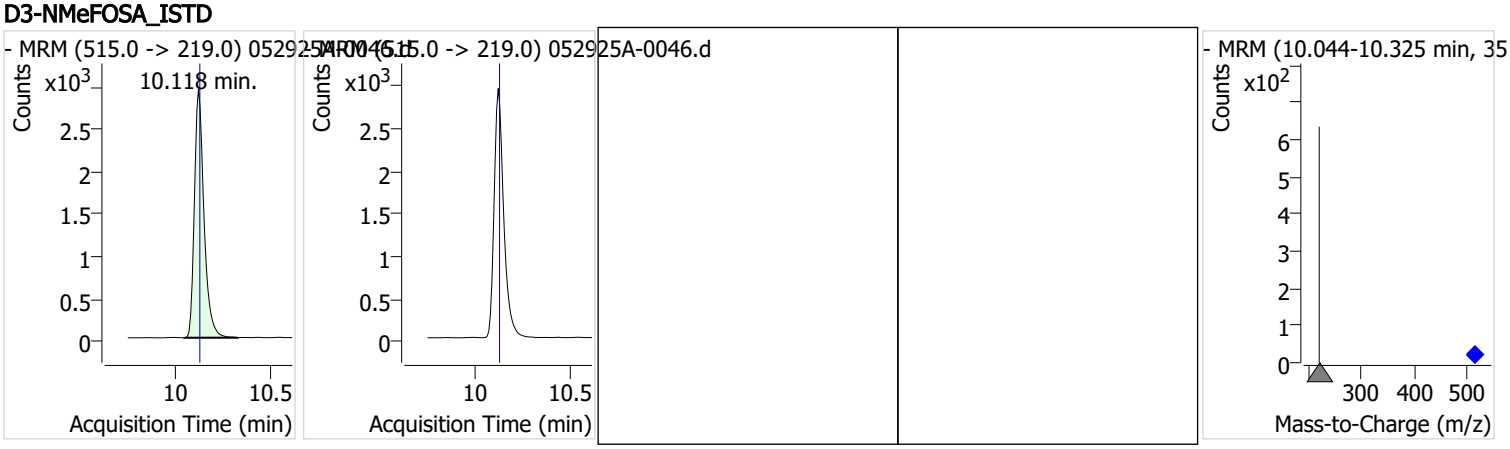
NMeFOSA



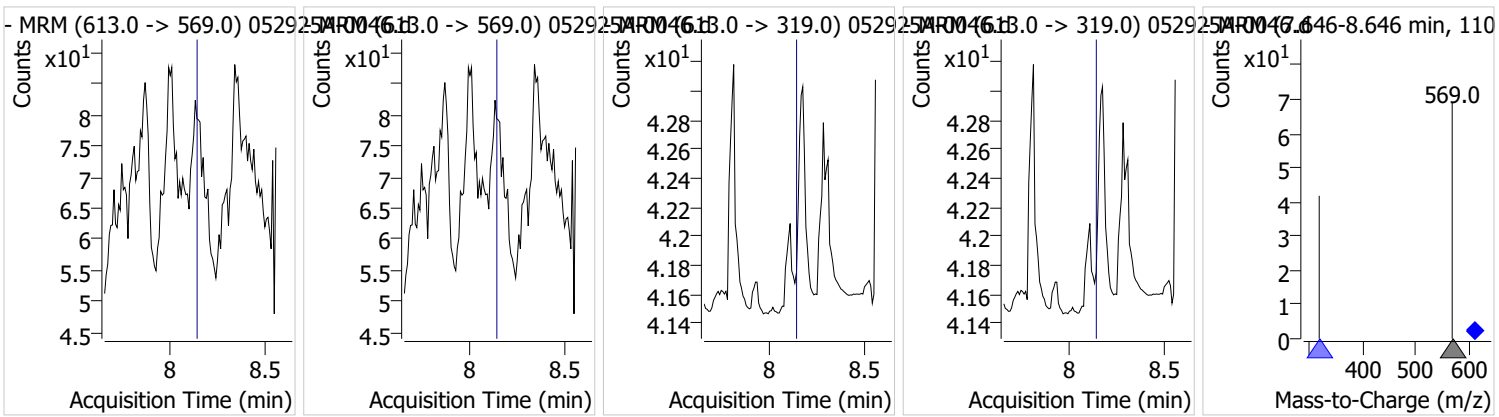
PFDA



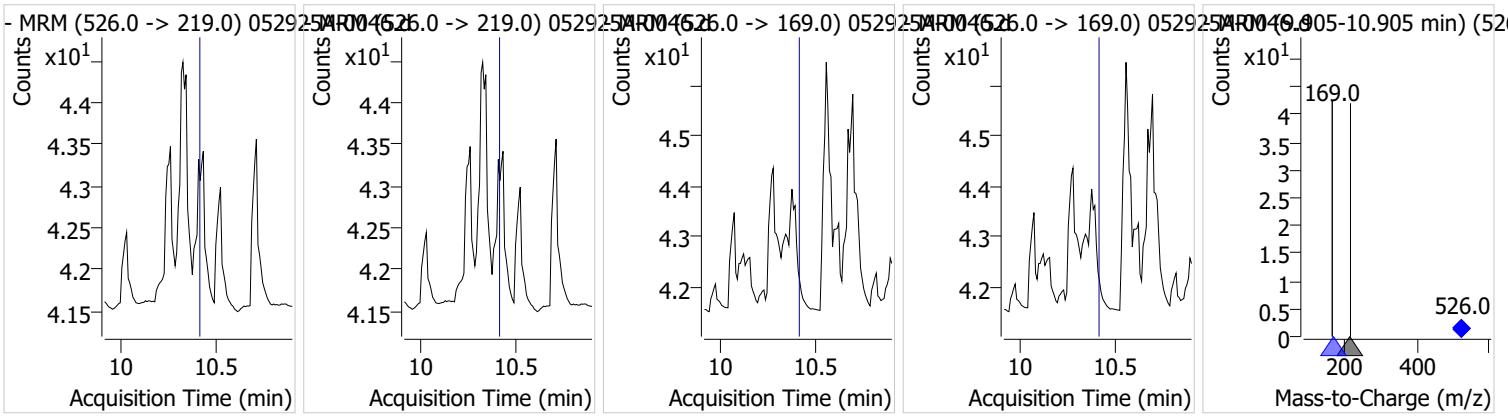
D3-NMeFOSA_ISTD



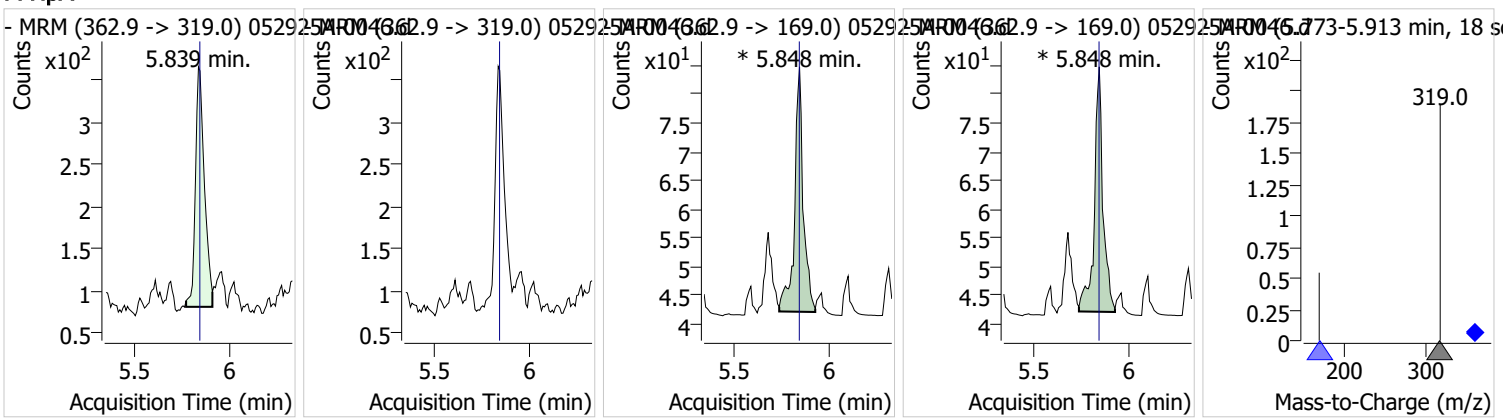
PFDoA



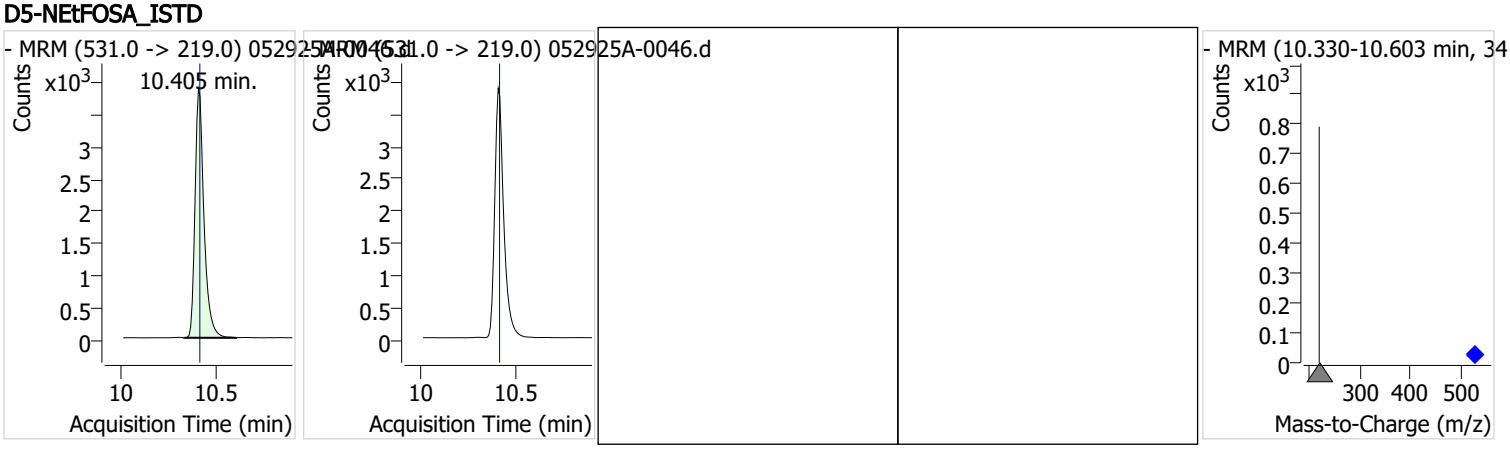
NEtFOSA



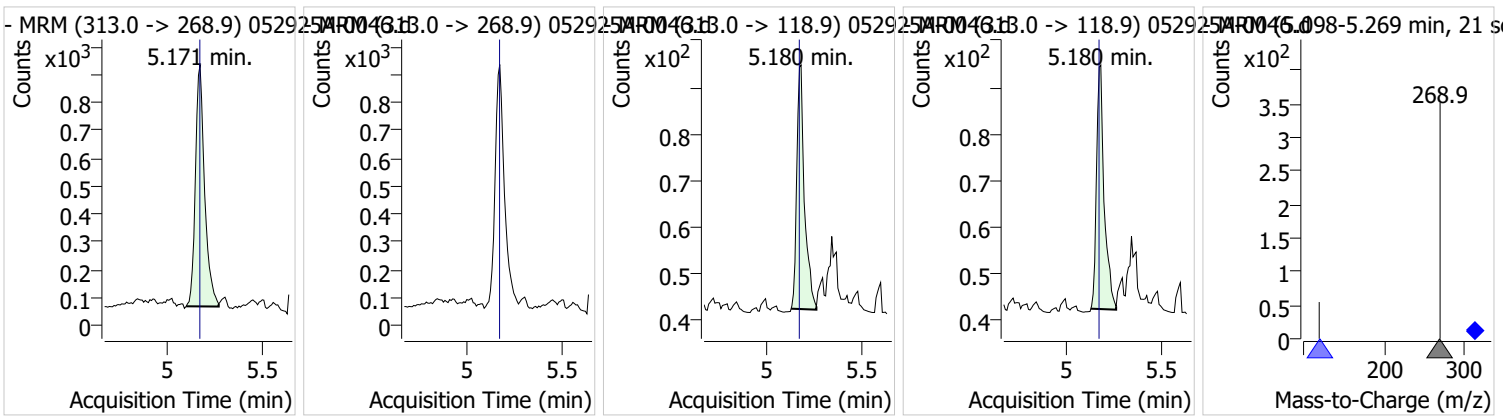
PFHpA



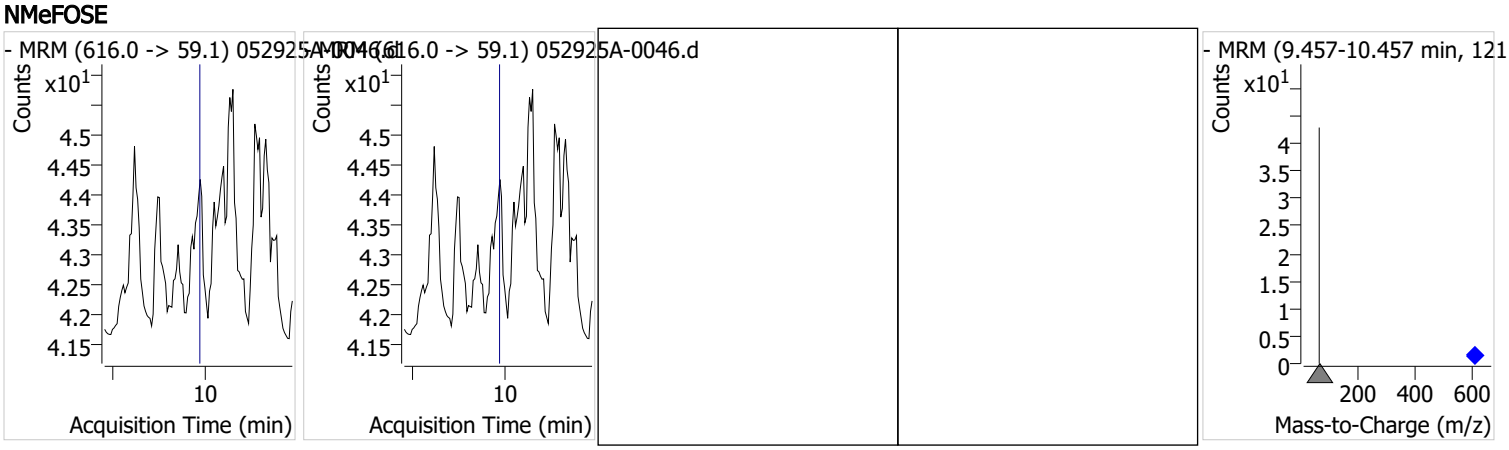
D5-NEtFOSA_ISTD



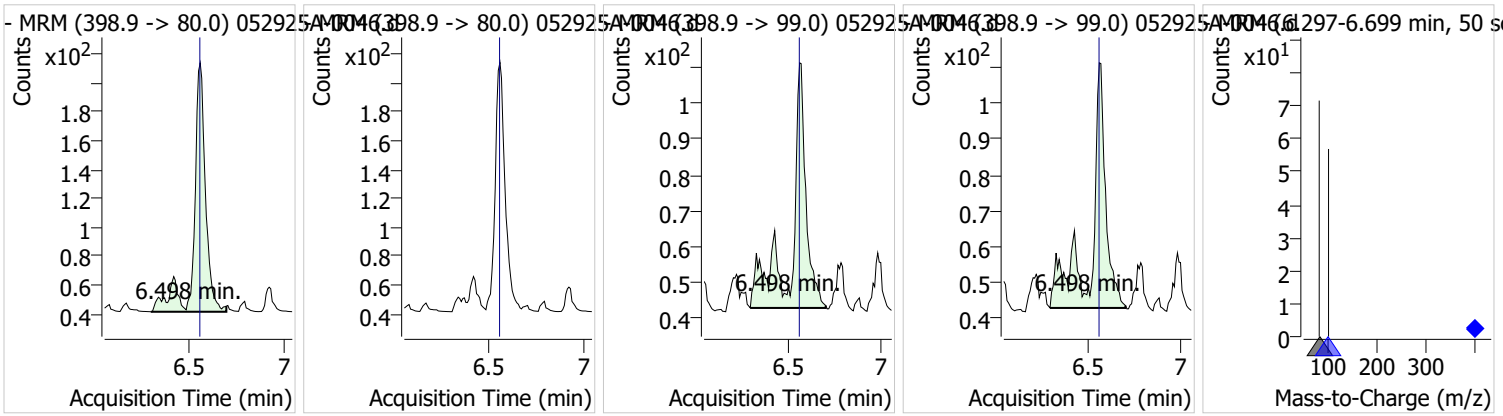
PFHxA



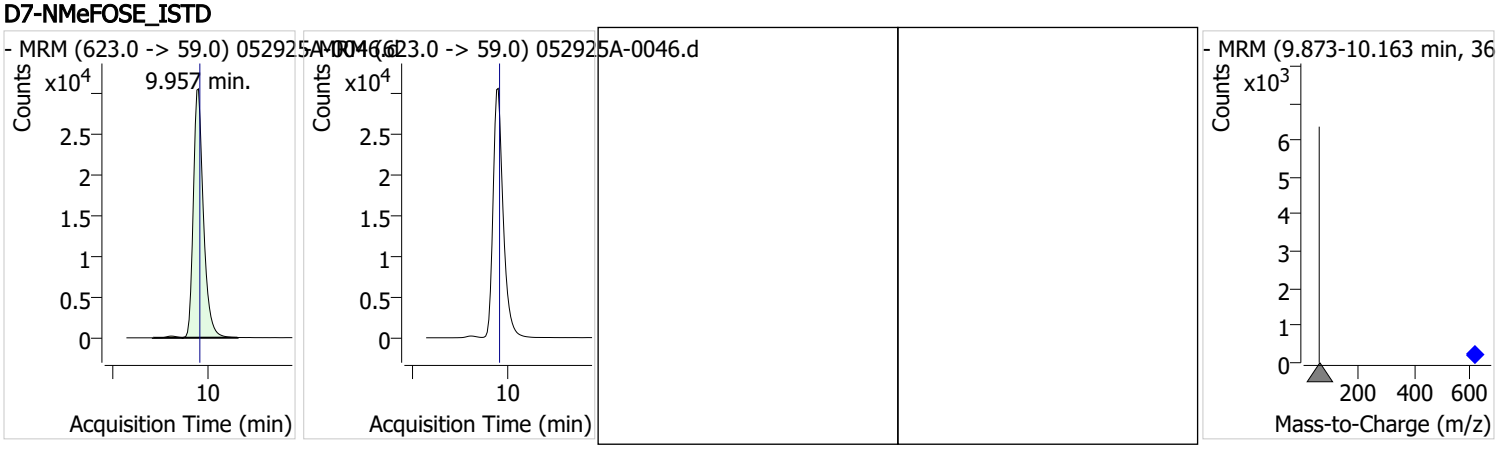
NMeFOSE



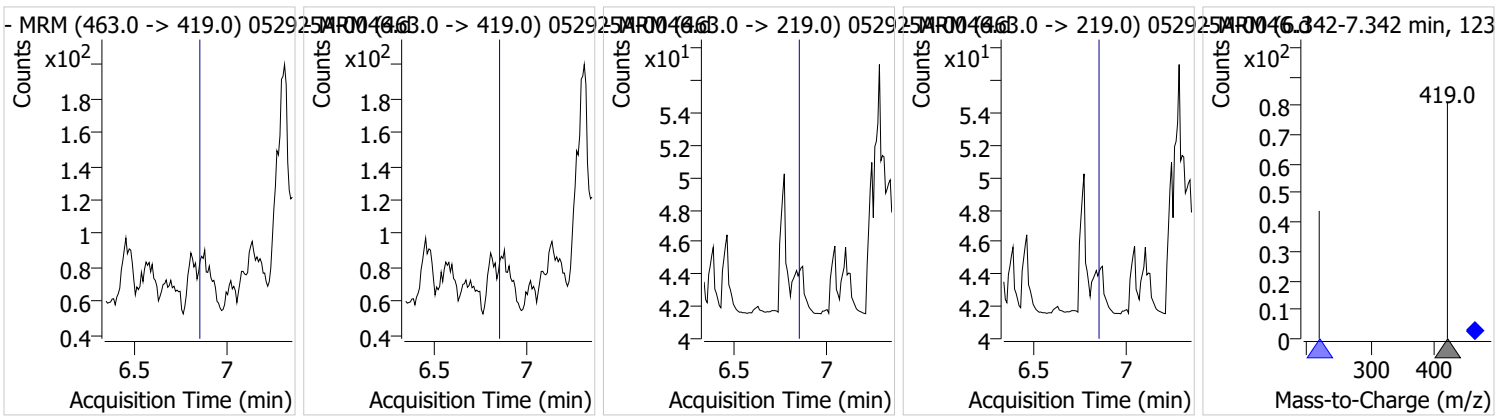
PFHxS



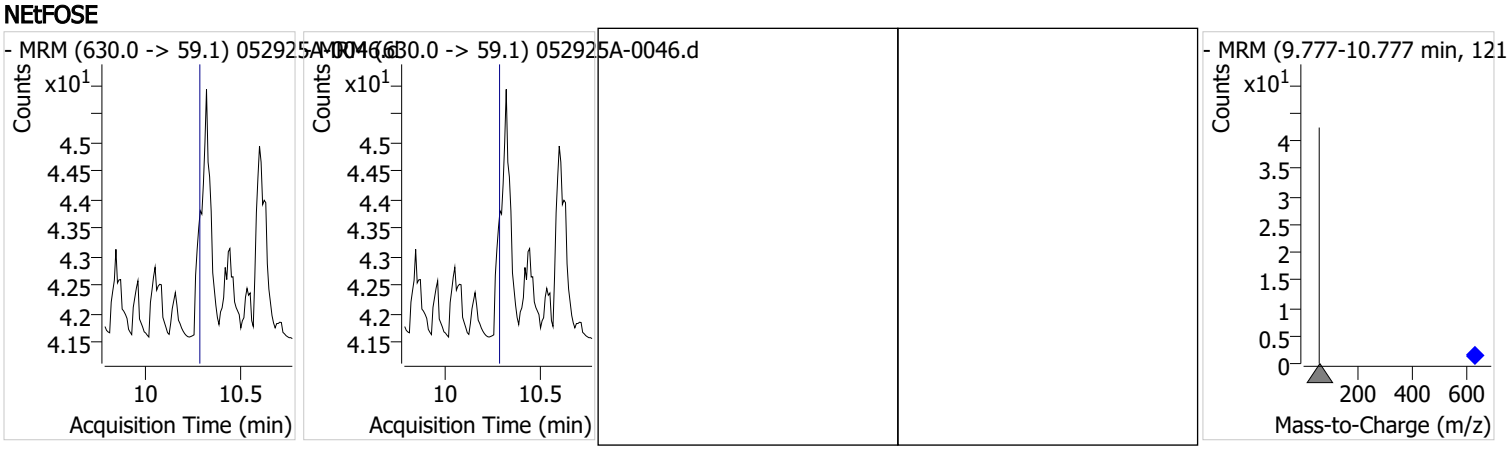
D7-NMeFOSE_ISTD



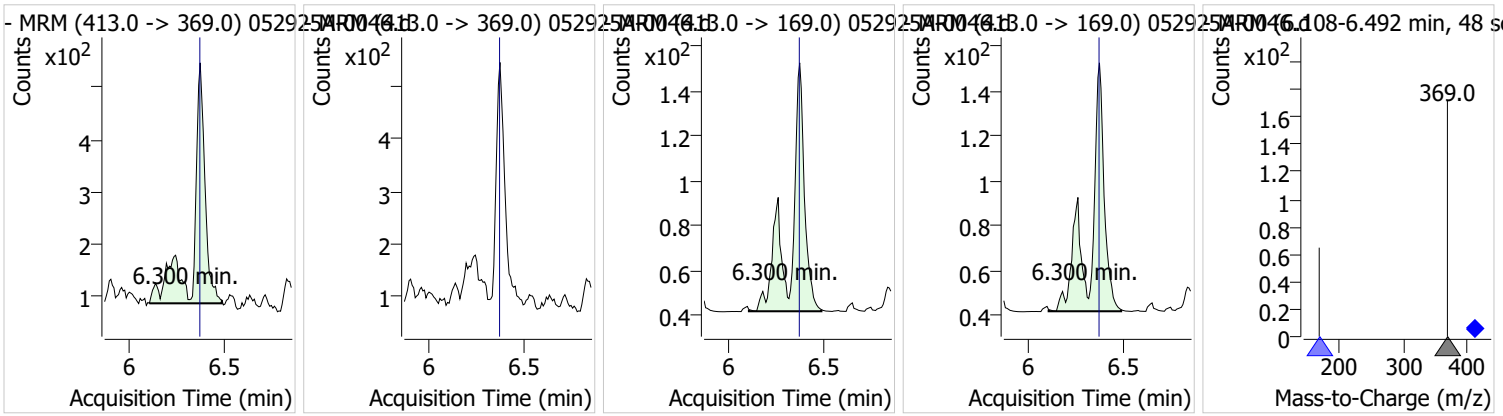
PFNA



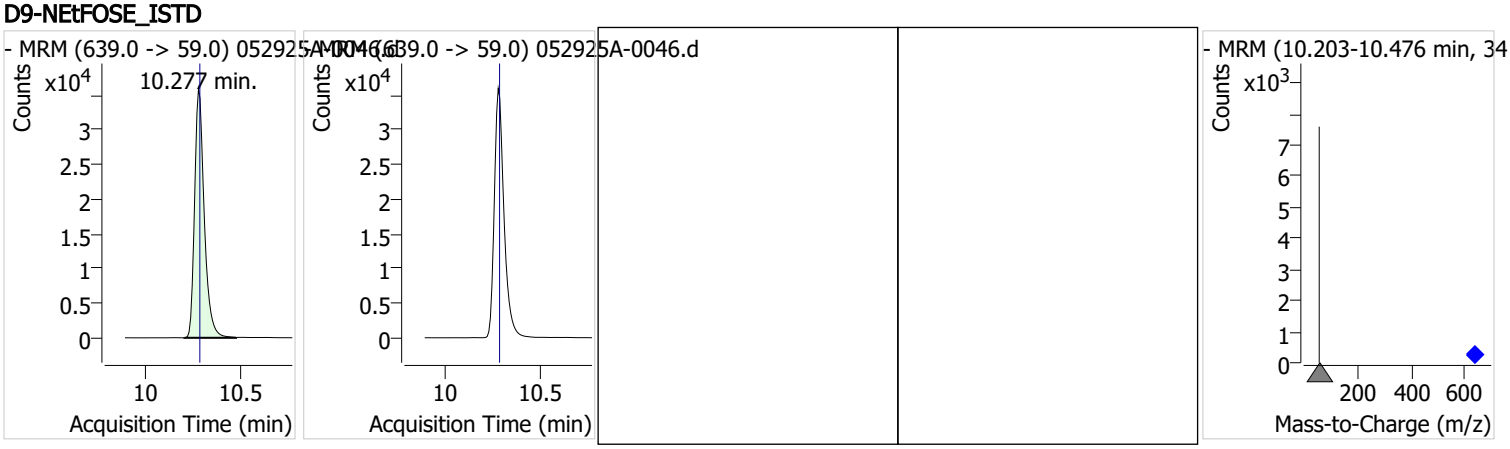
NEtFOSE



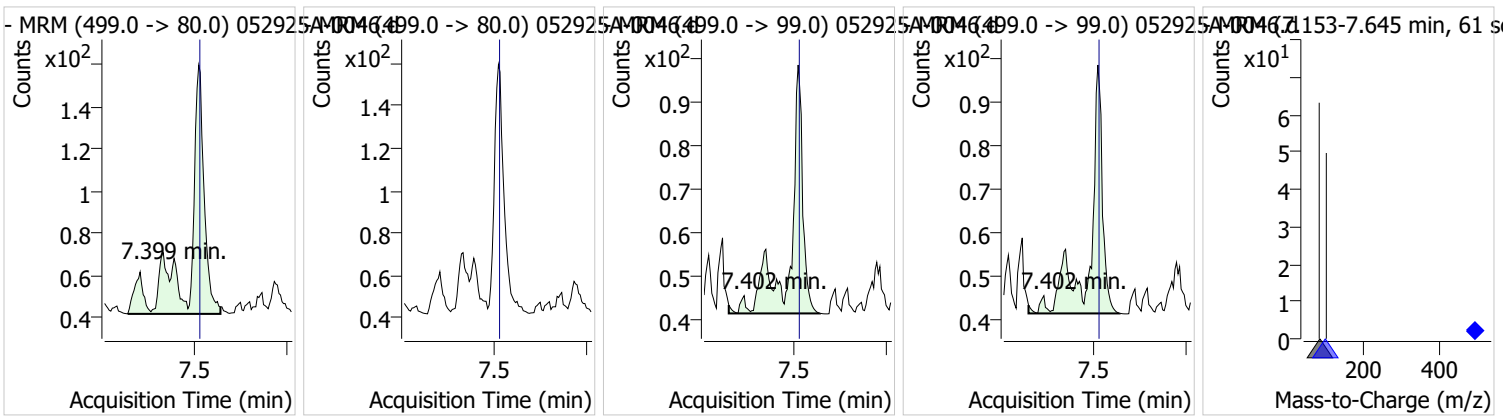
PFOA



D9-NEtFOSE_ISTD



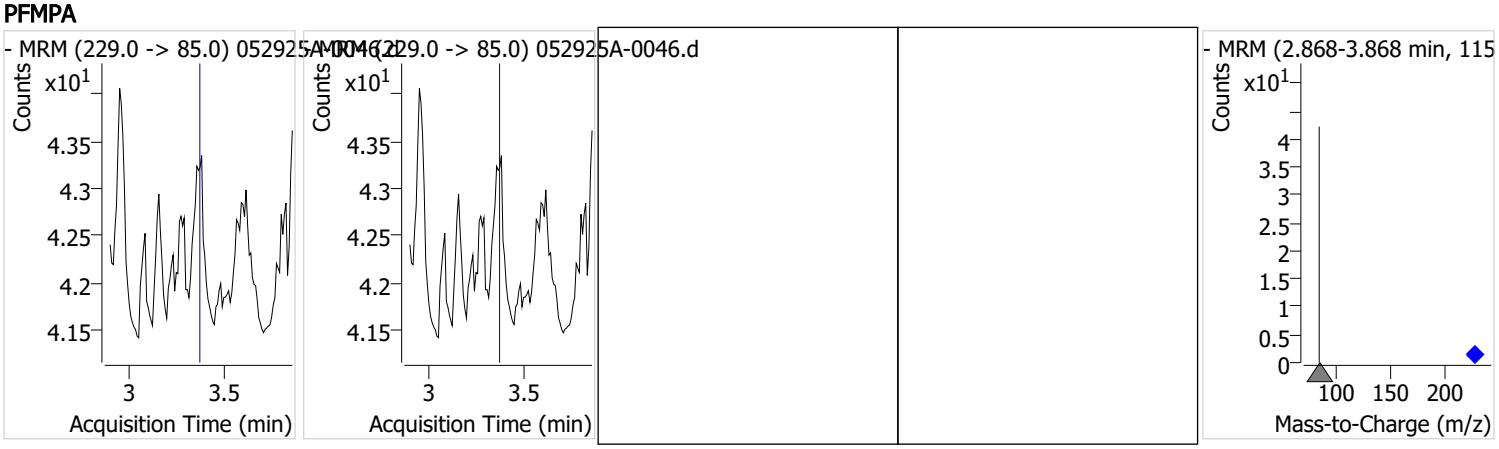
PFOS



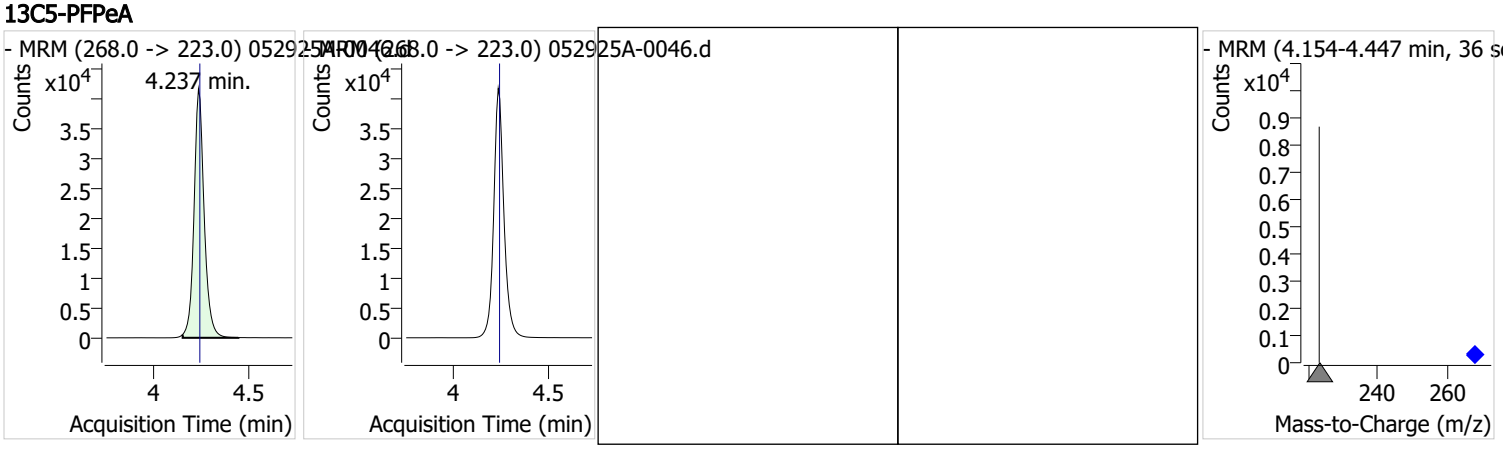
PFPeA



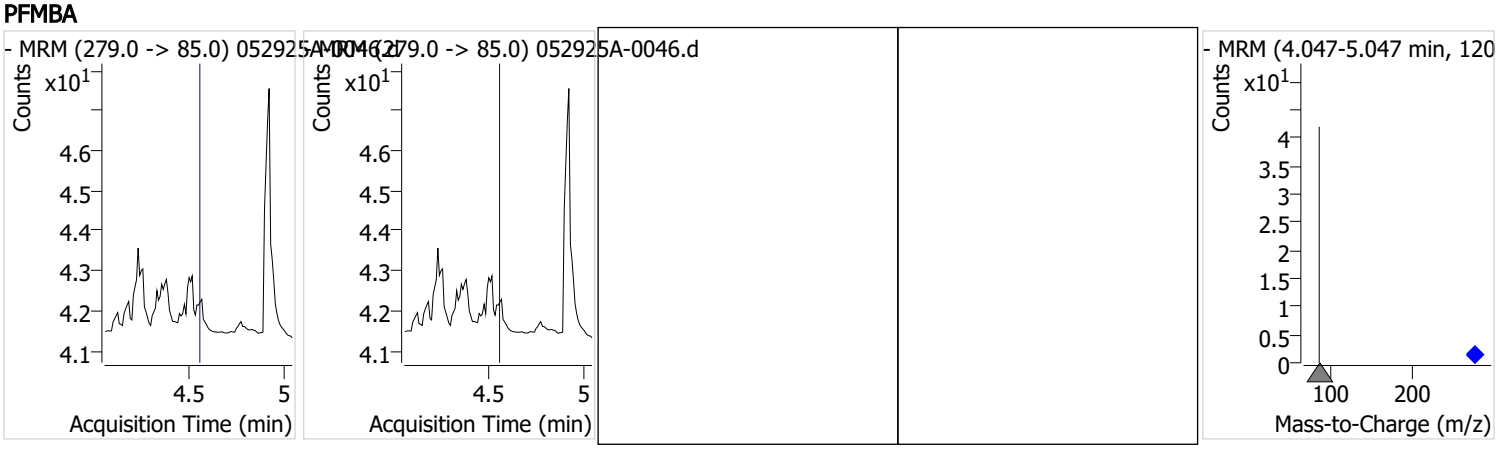
PFMPA



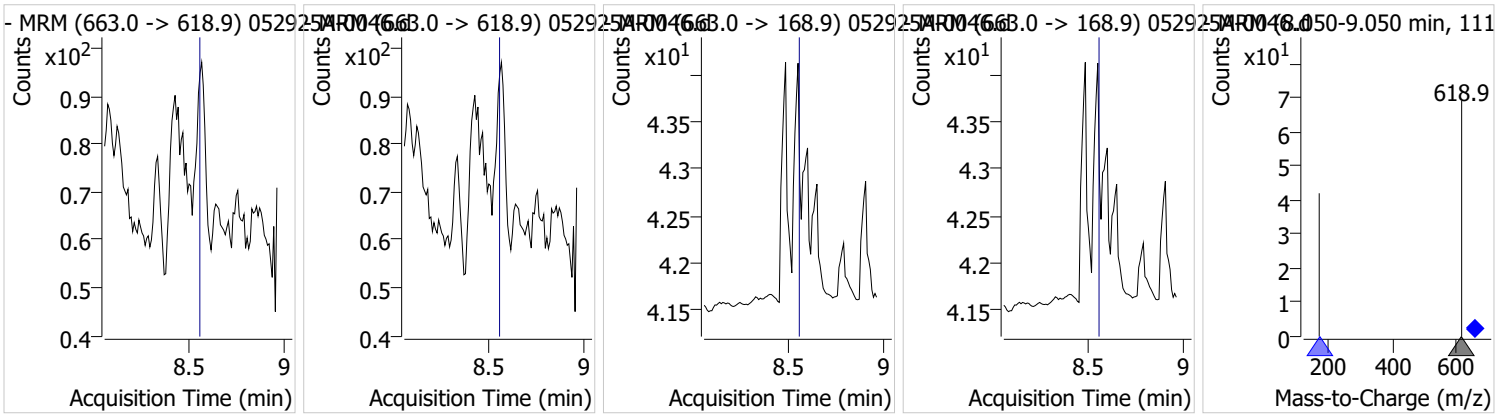
13C5-PFPeA



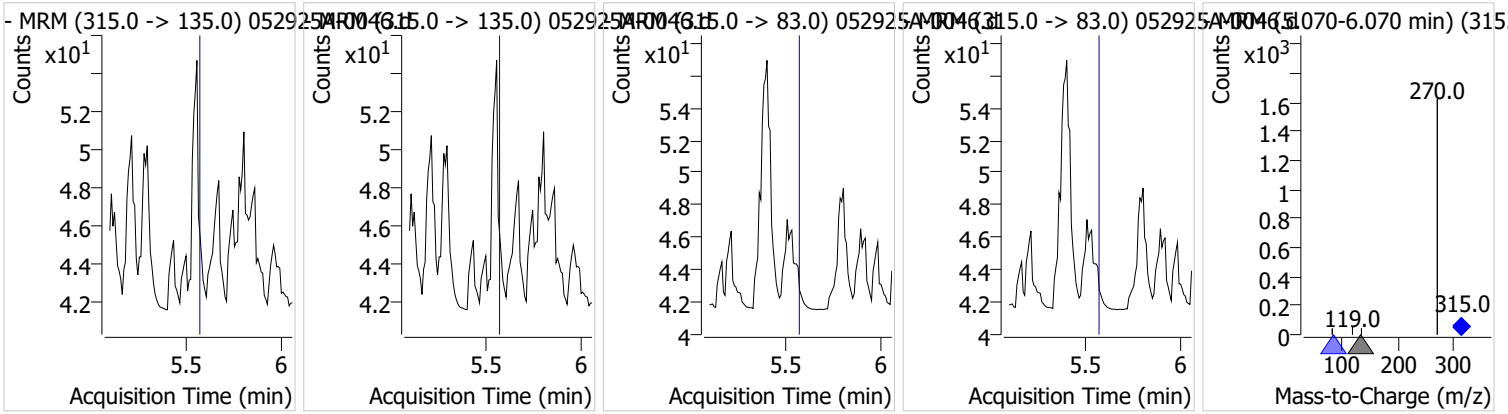
PFMBA



PFTrDA



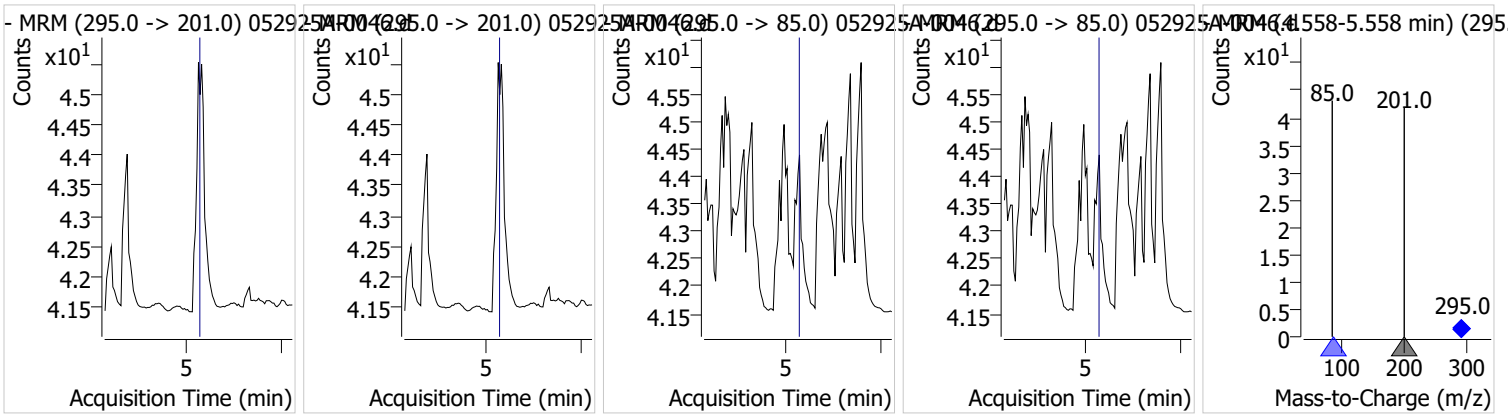
PFEESA



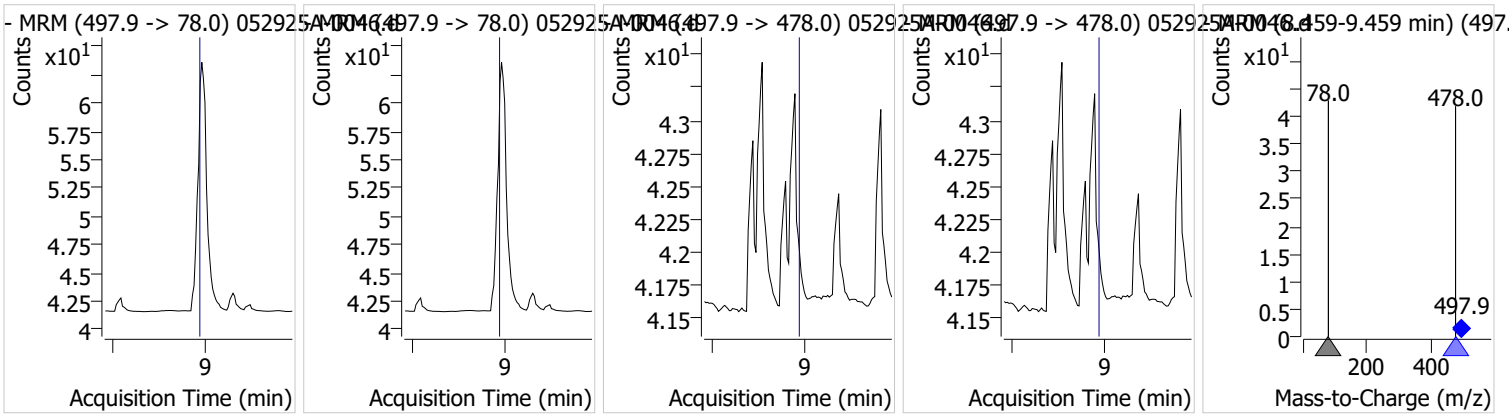
13C6-PFDA



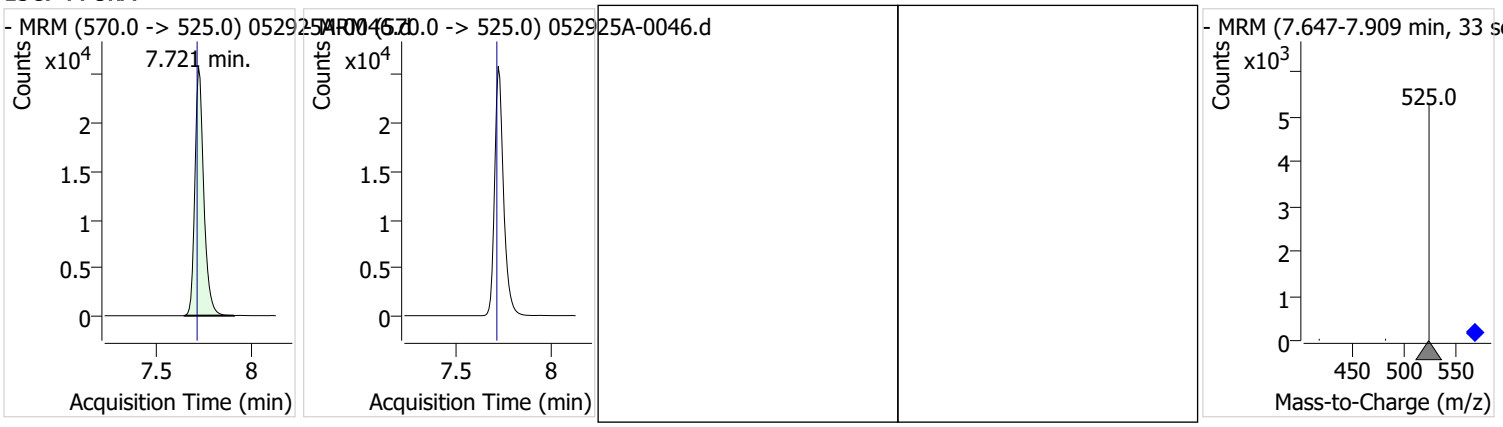
NFDHA



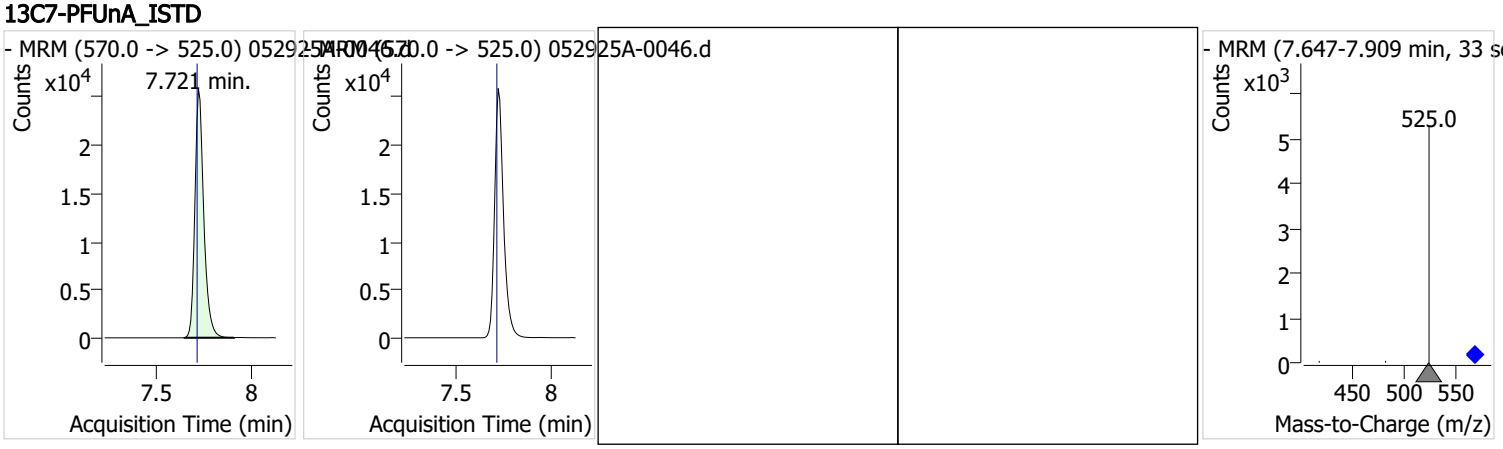
PFOSA



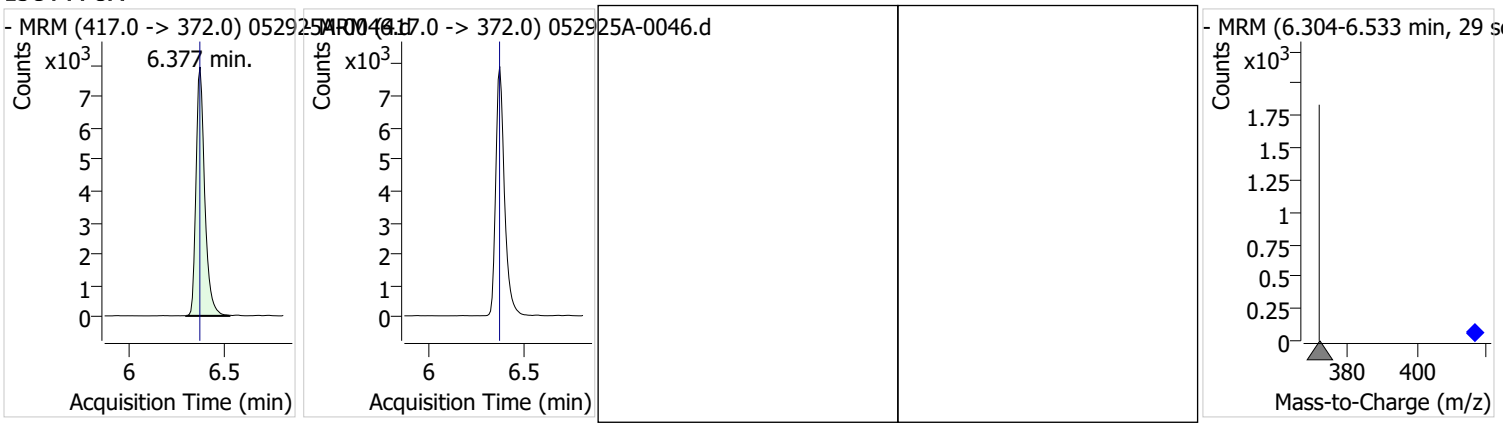
13C7-PFUnA



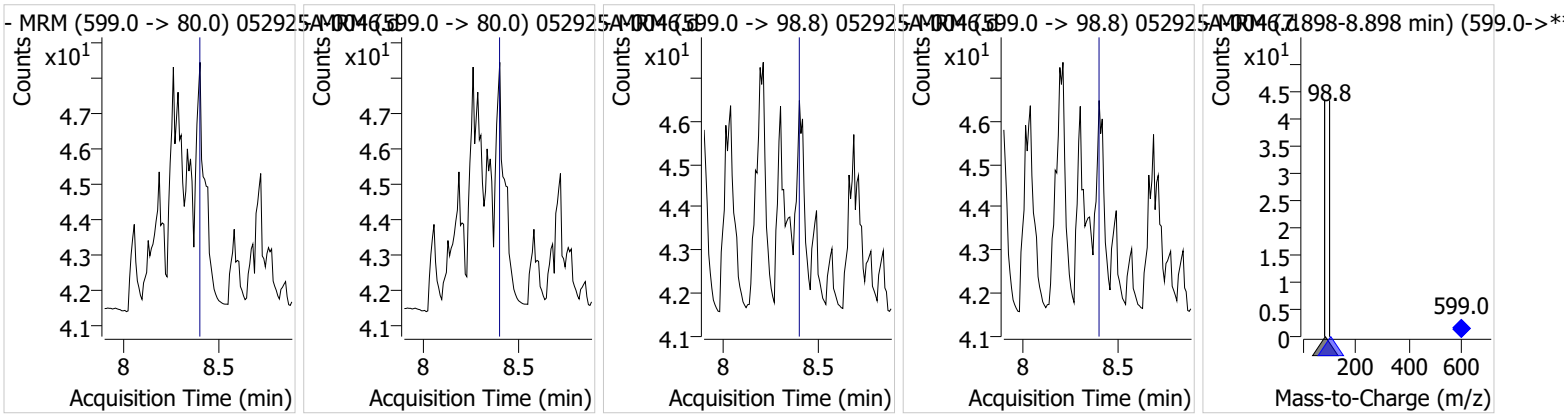
13C7-PFUnA_ISTD



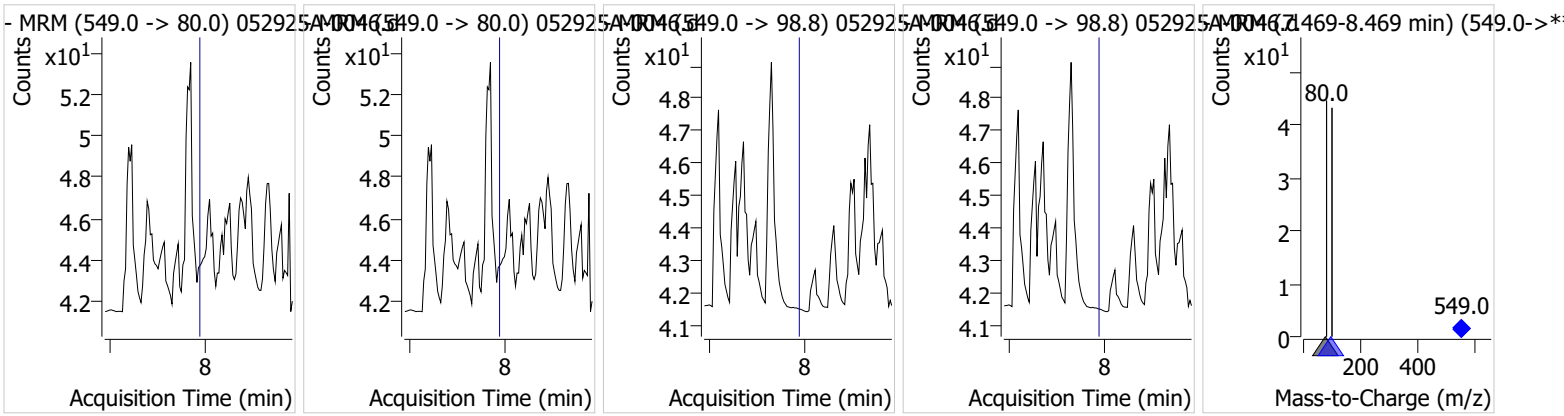
13C4-PFOA



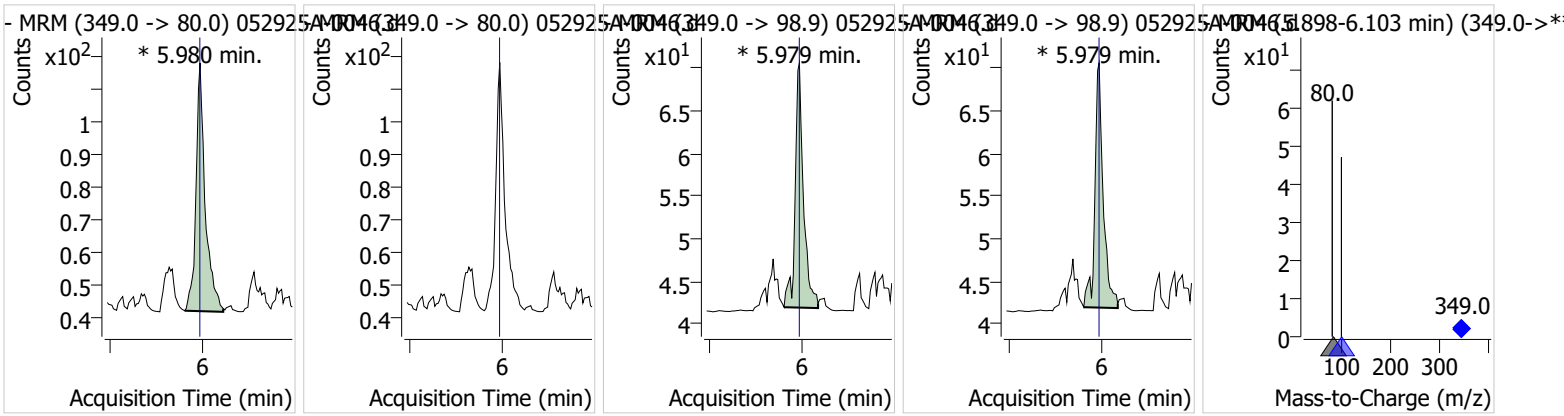
PFDS



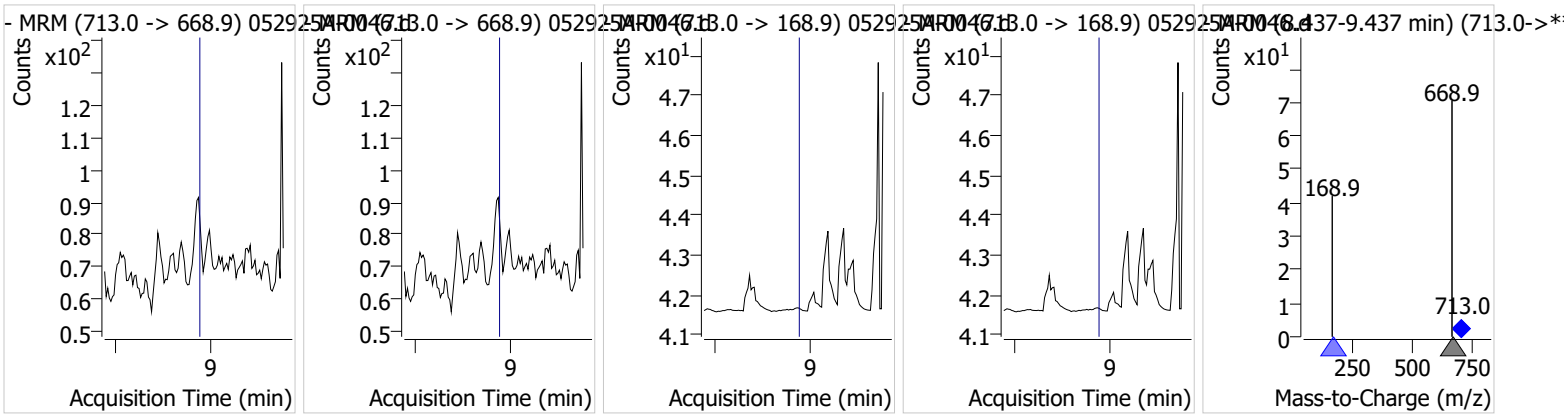
PFNS



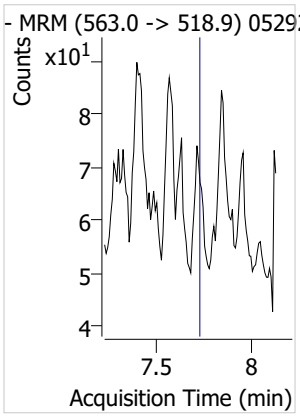
PFPeS

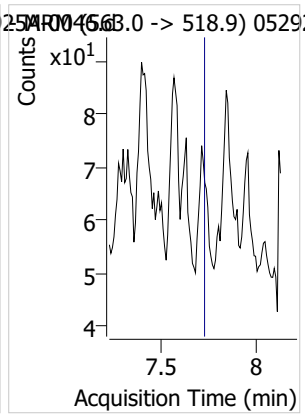


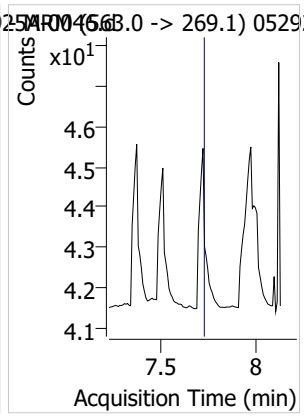
PFTeDA

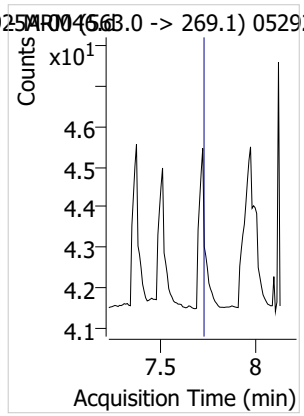


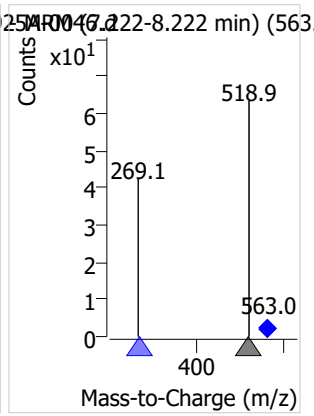
PFUnA



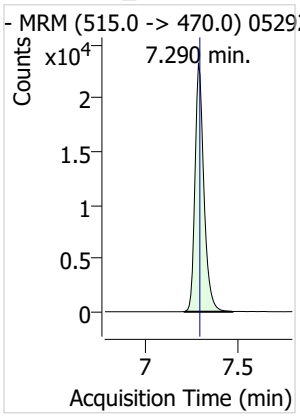


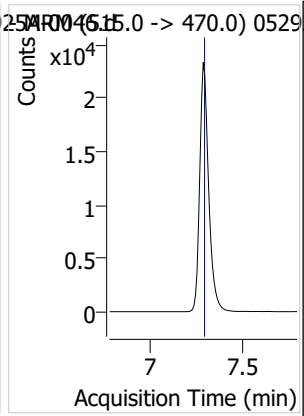


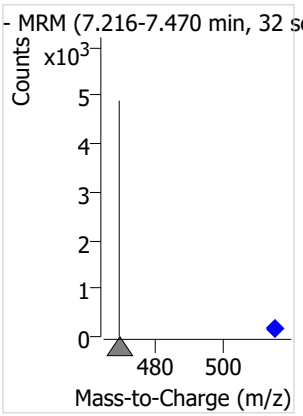




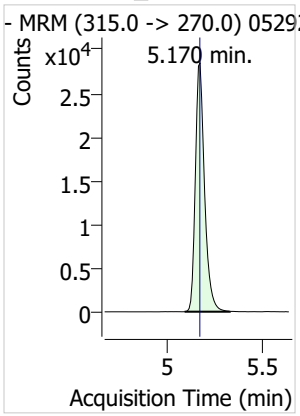
13C2-PFDA_ISTD

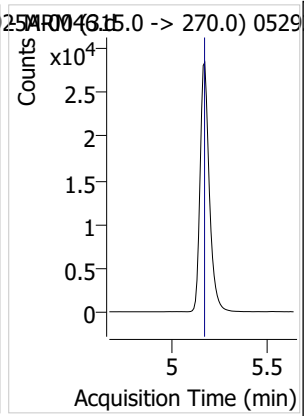


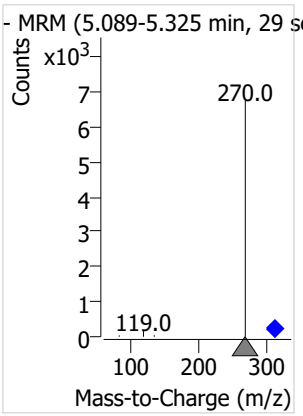




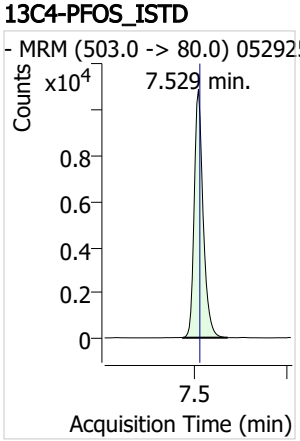
13C2-PFHxA_ISTD

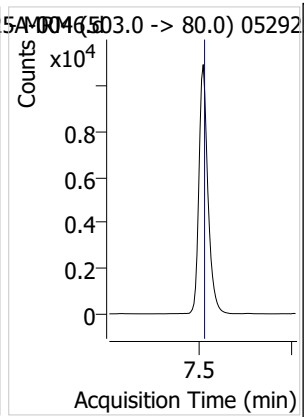


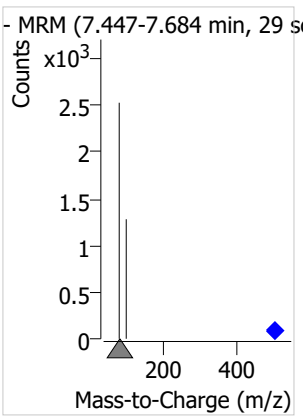




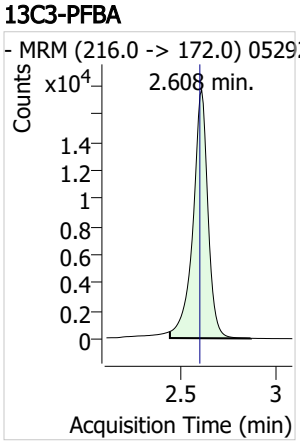
13C4-PFOS_ISTD

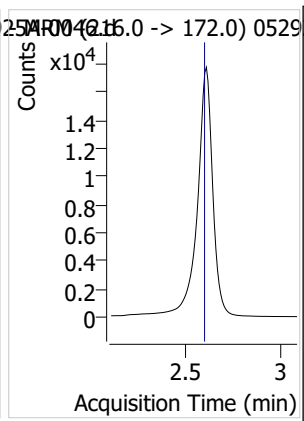


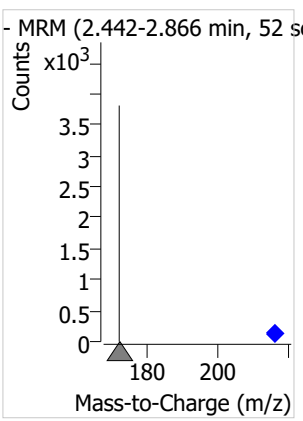




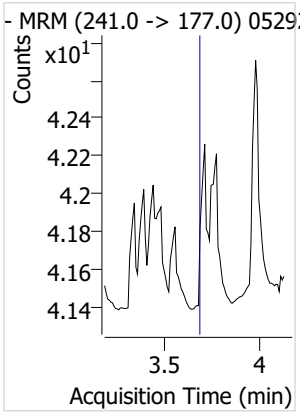
13C3-PFBA

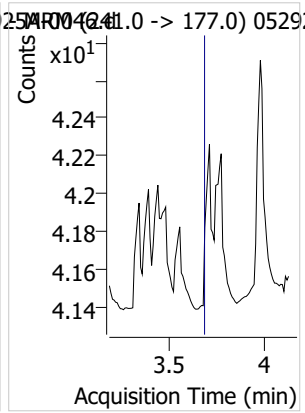


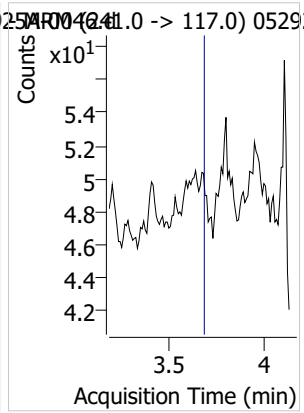


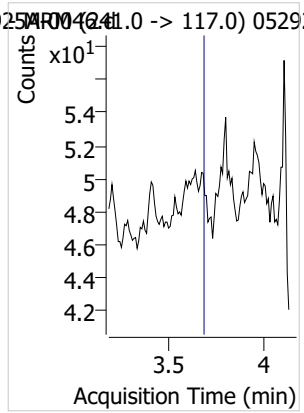


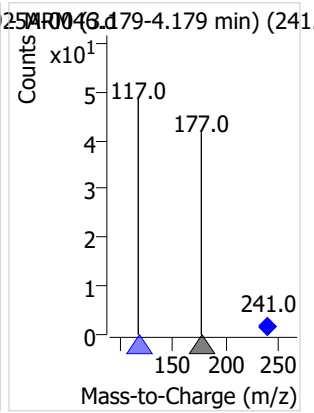
3:3FTCA



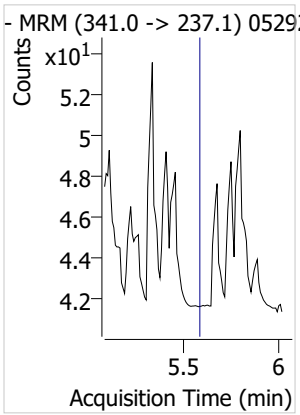


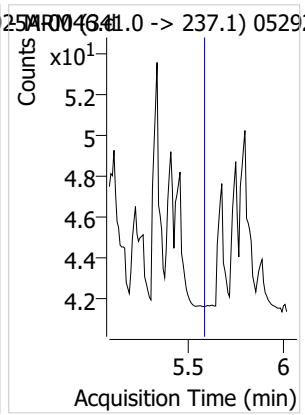


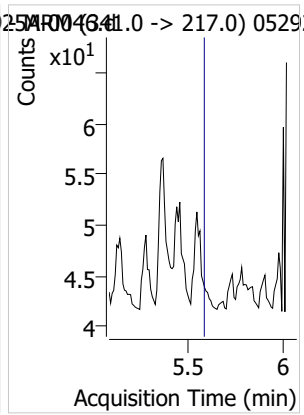


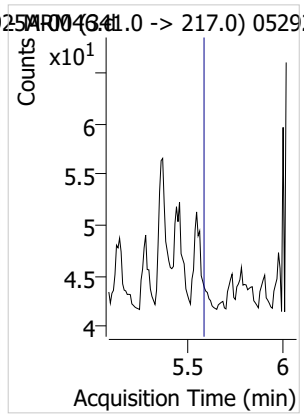


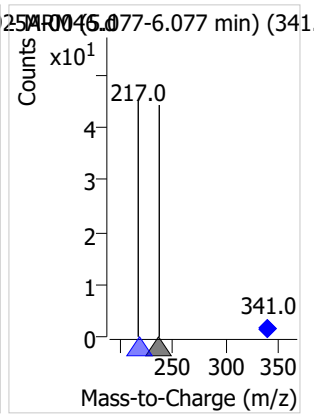
5:3FTCA



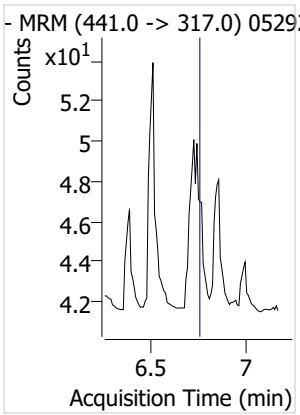


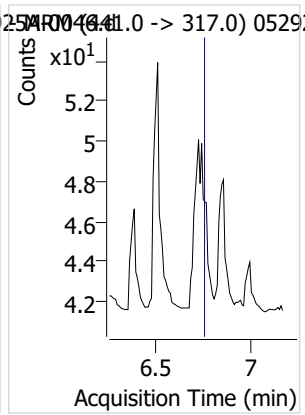


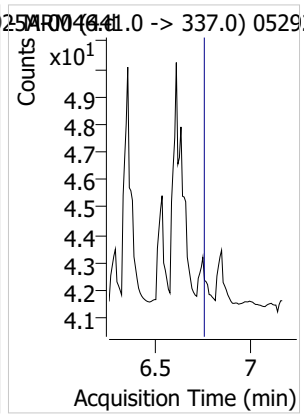


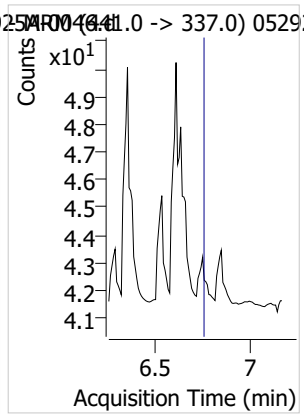


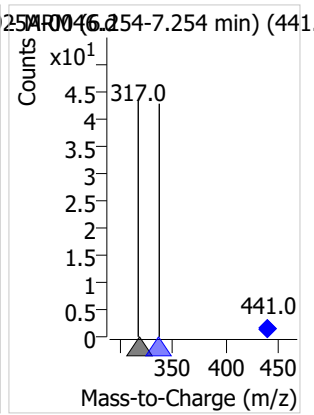
7:3FTCA



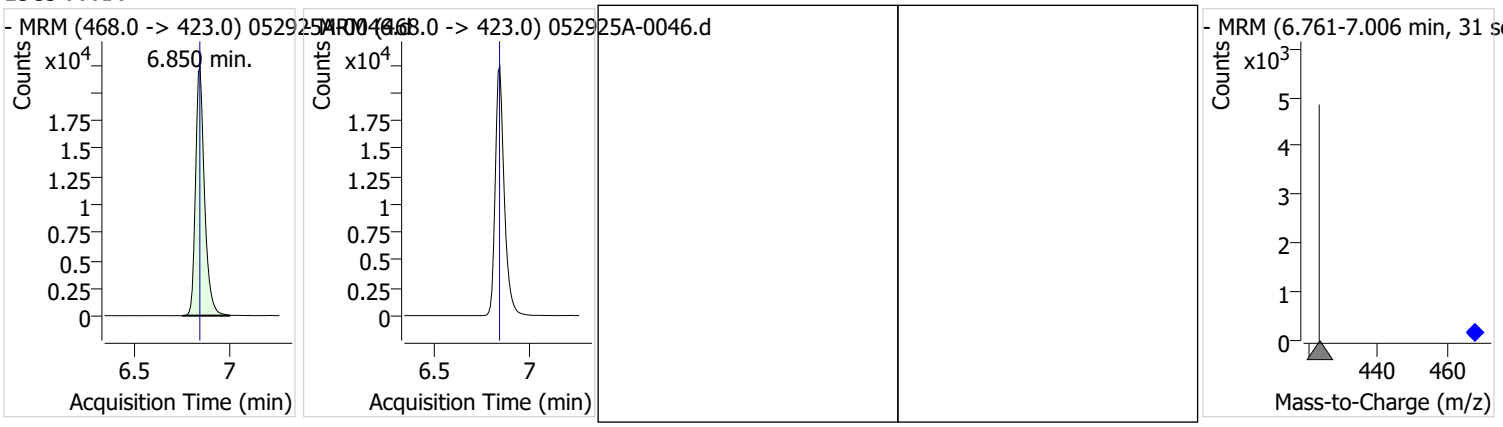








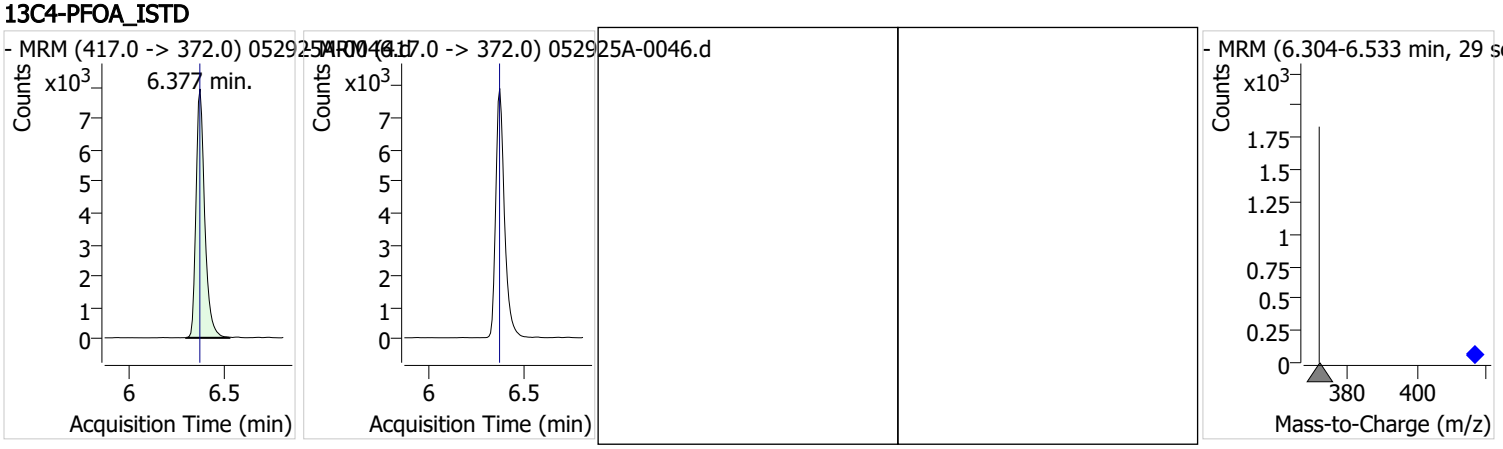
13C5-PFNA



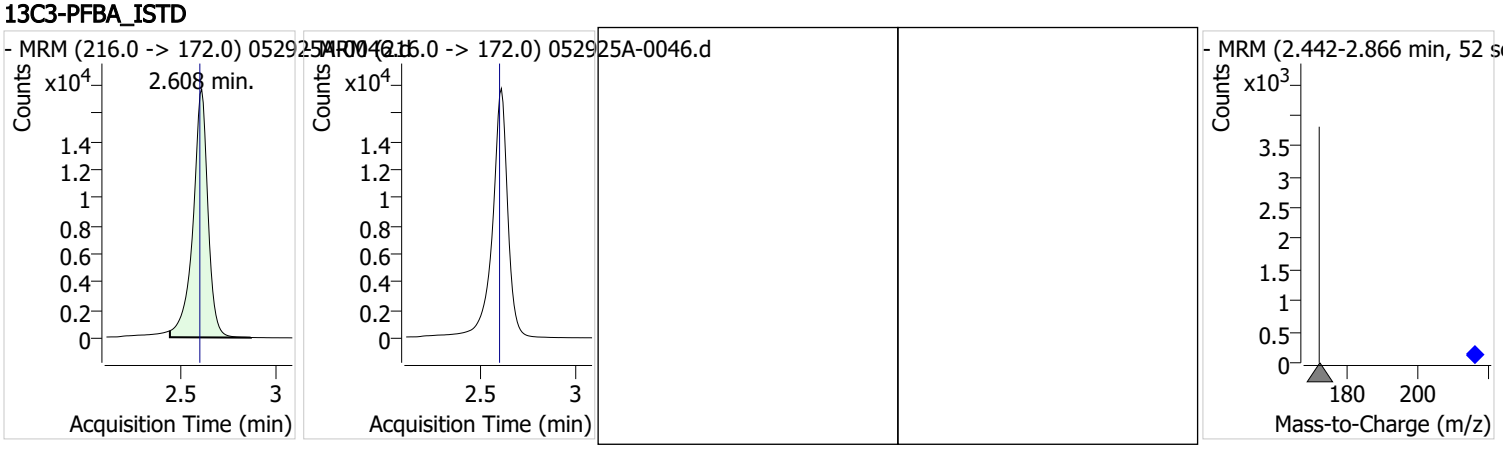
18O2-PFHxS



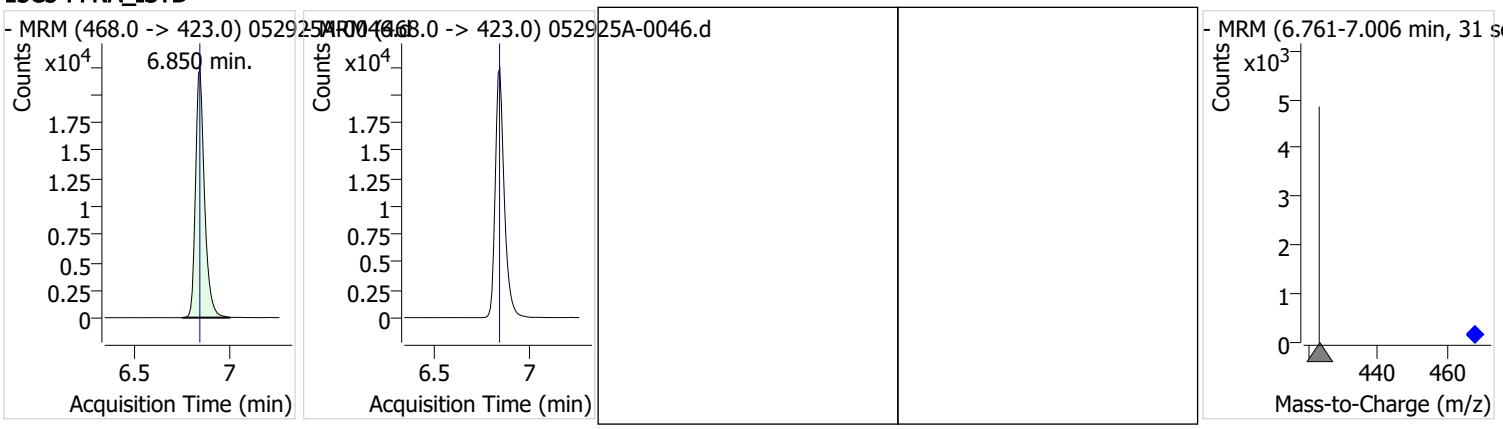
13C4-PFOA_ISTD



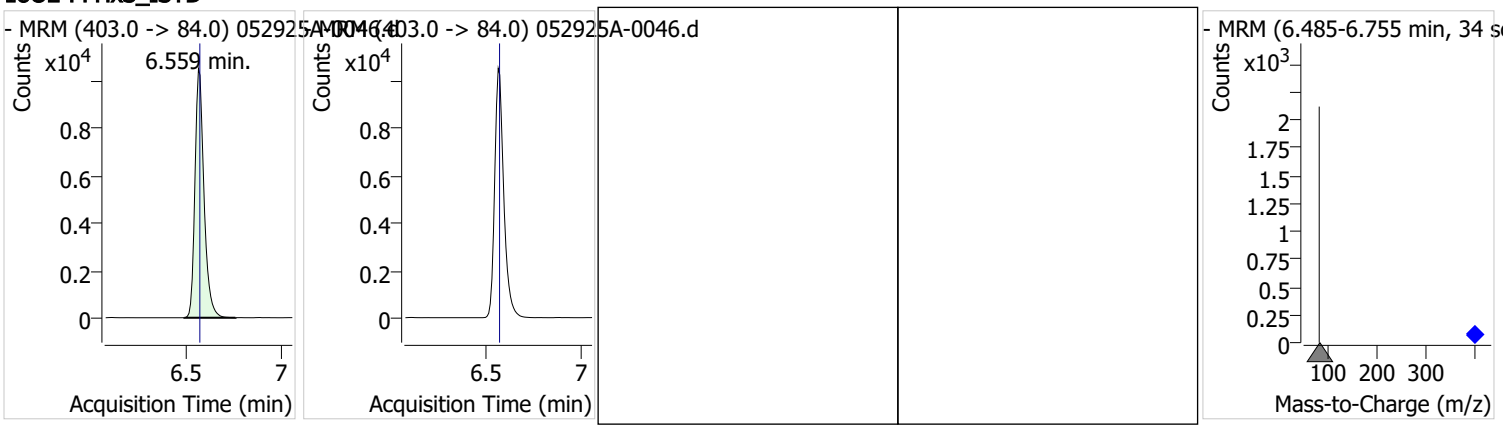
13C3-PFBA_ISTD



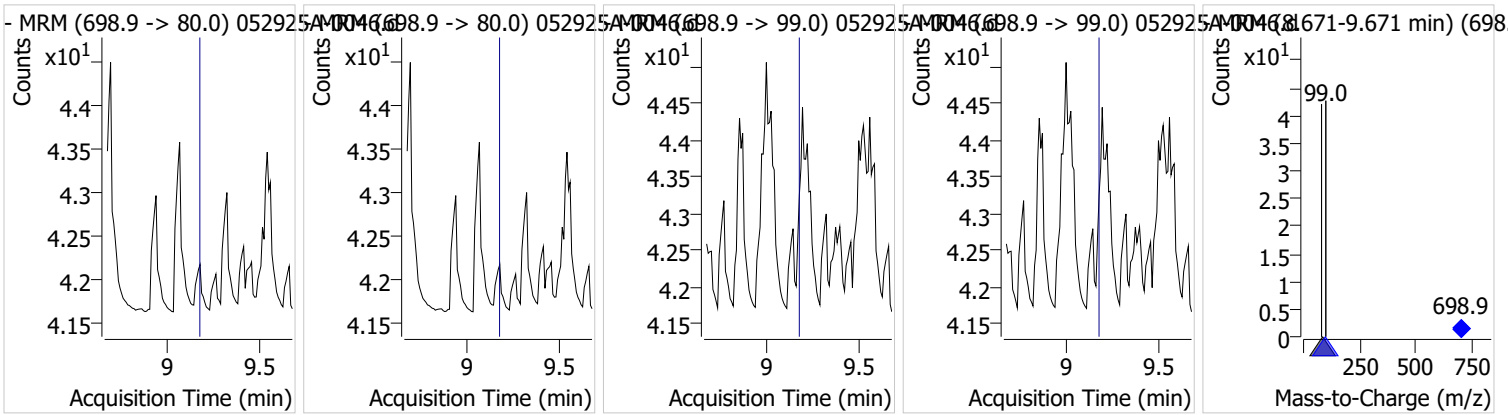
13C5-PFNA_ISTD



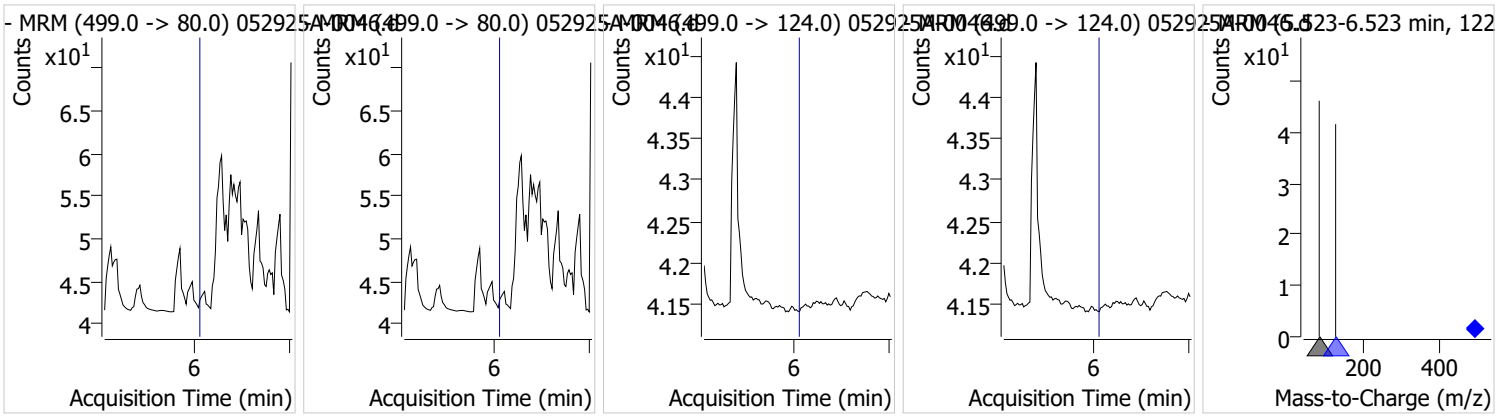
18O2-PFHxS_ISTD



PFDoS



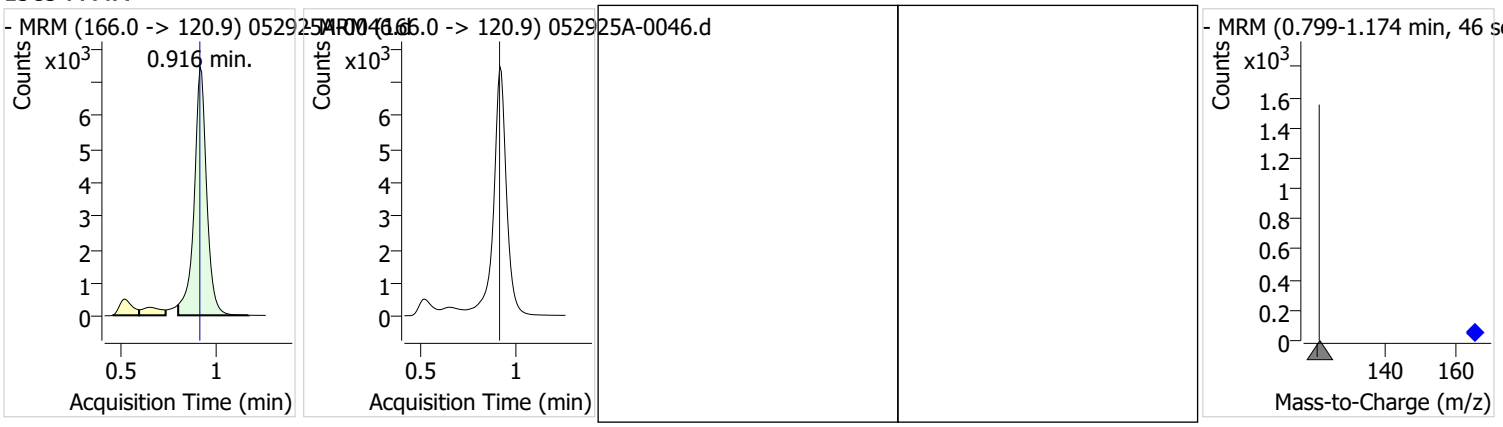
TDCA



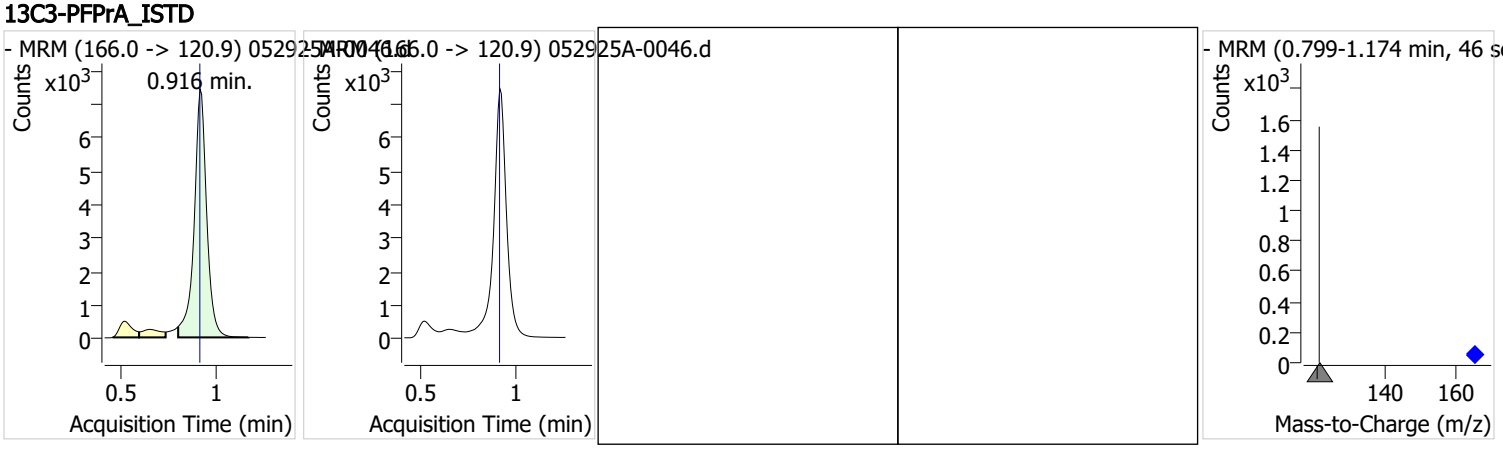
PFPrA



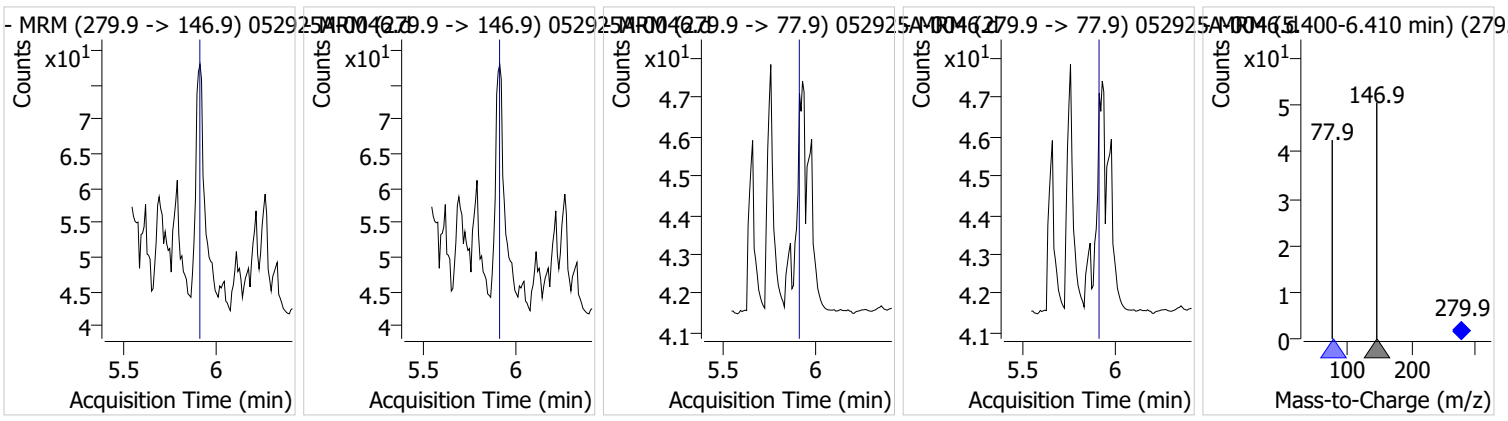
13C3-PFPrA



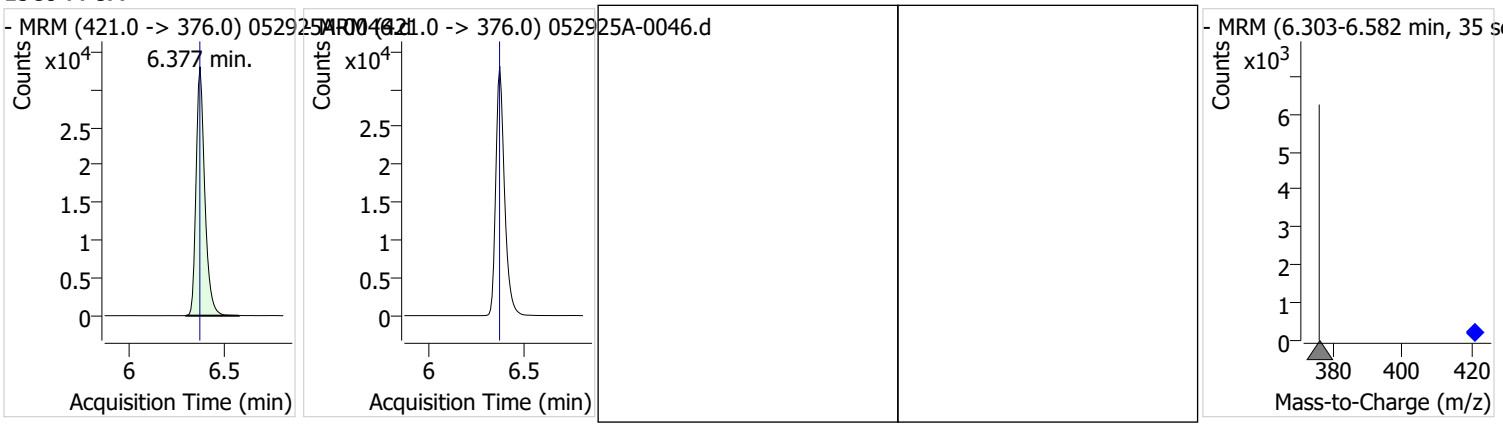
13C3-PFPrA_ISTD



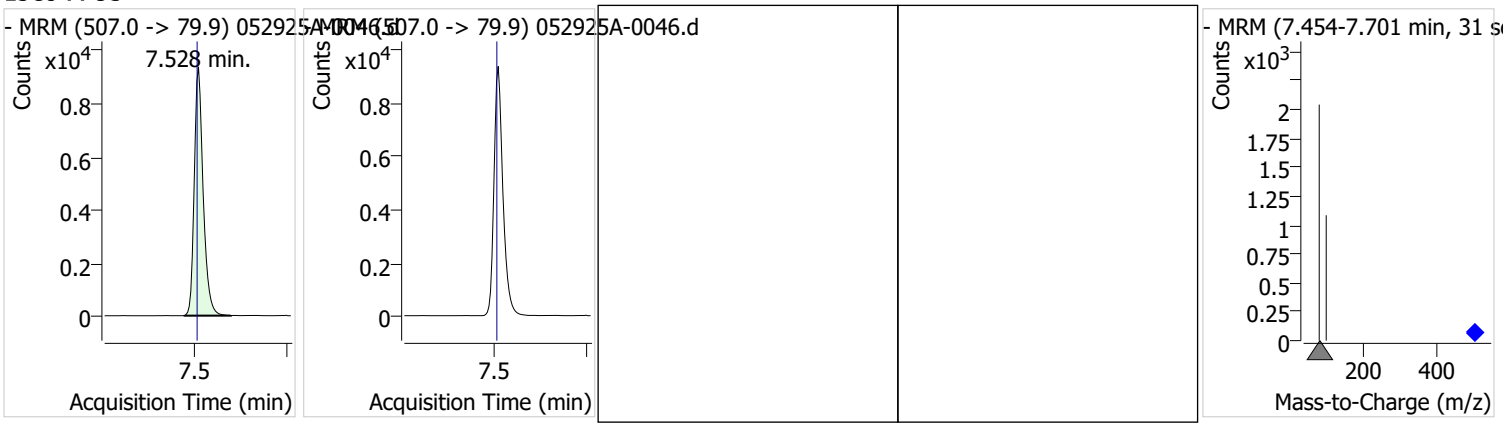
TFSI



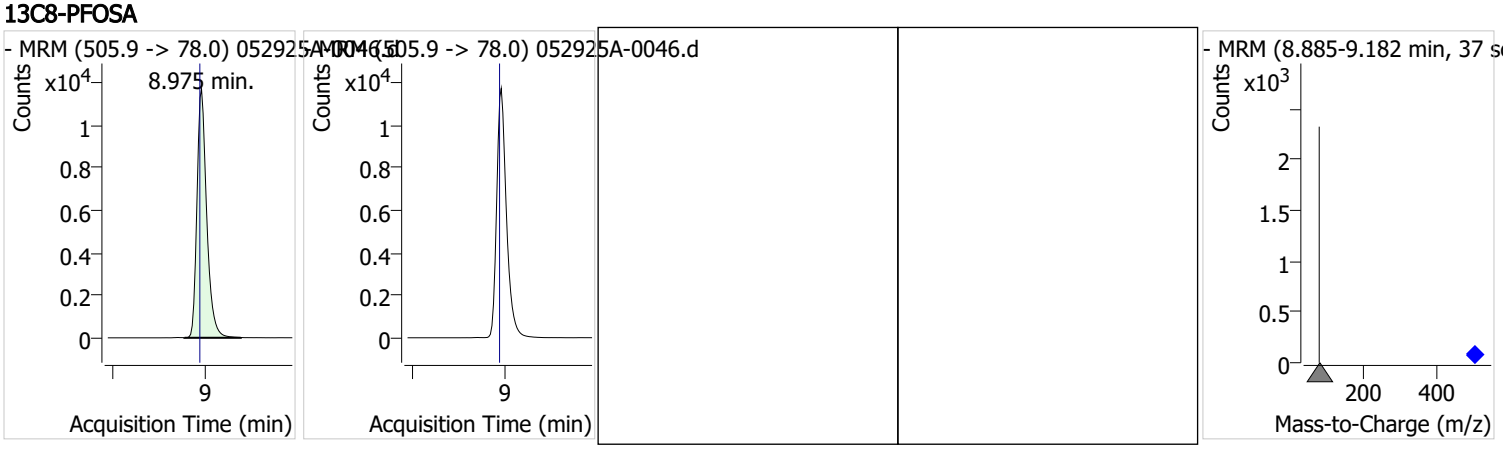
13C8-PFOA



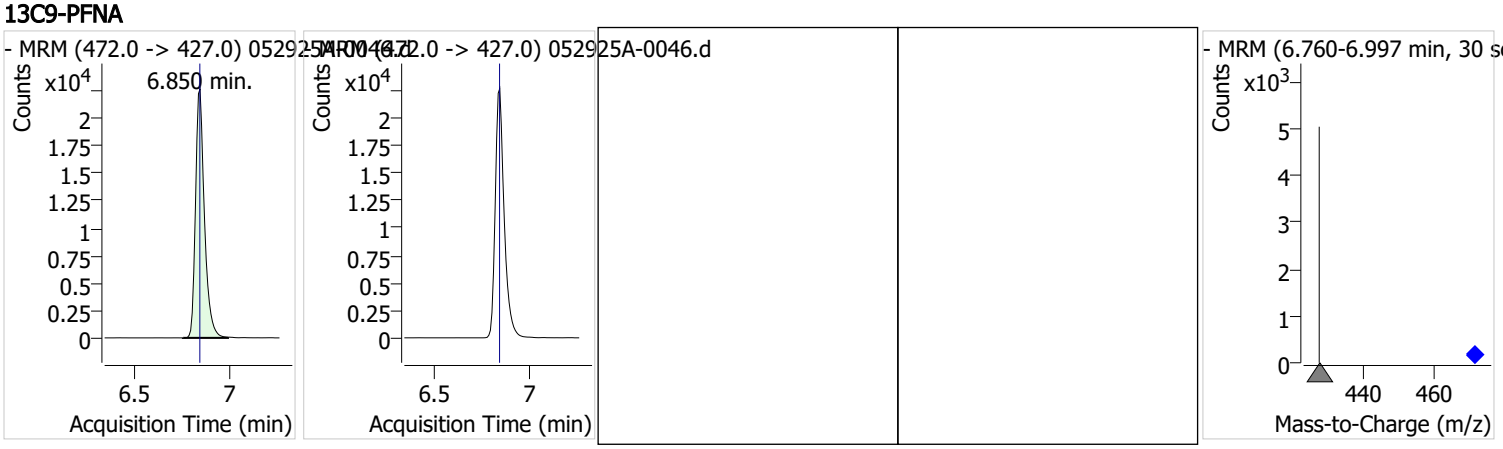
13C8-PFOS



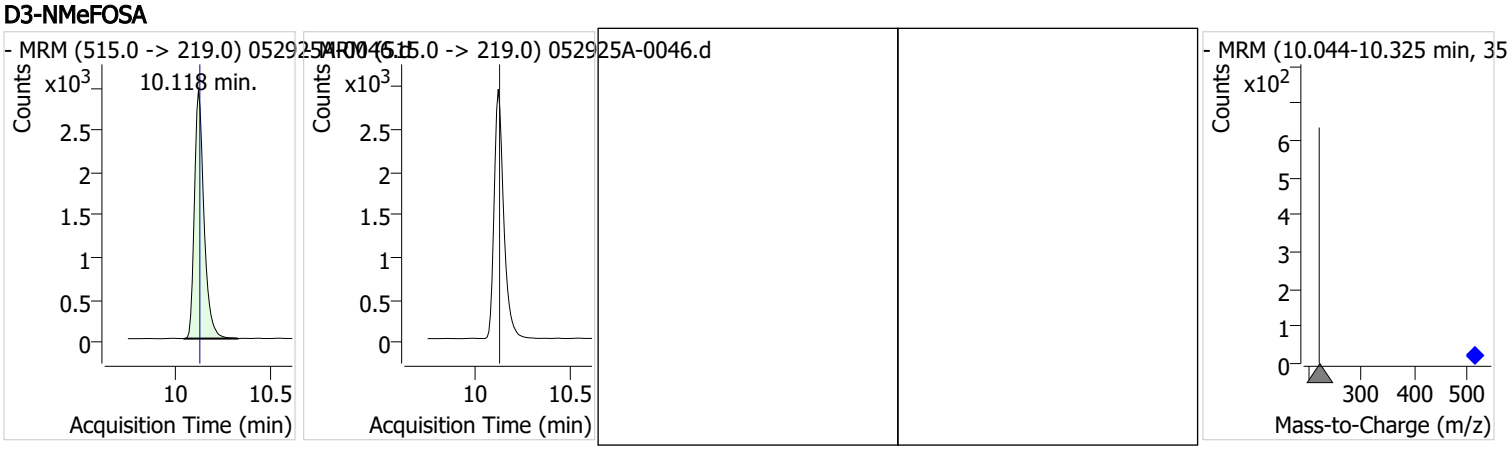
13C8-PFOSA



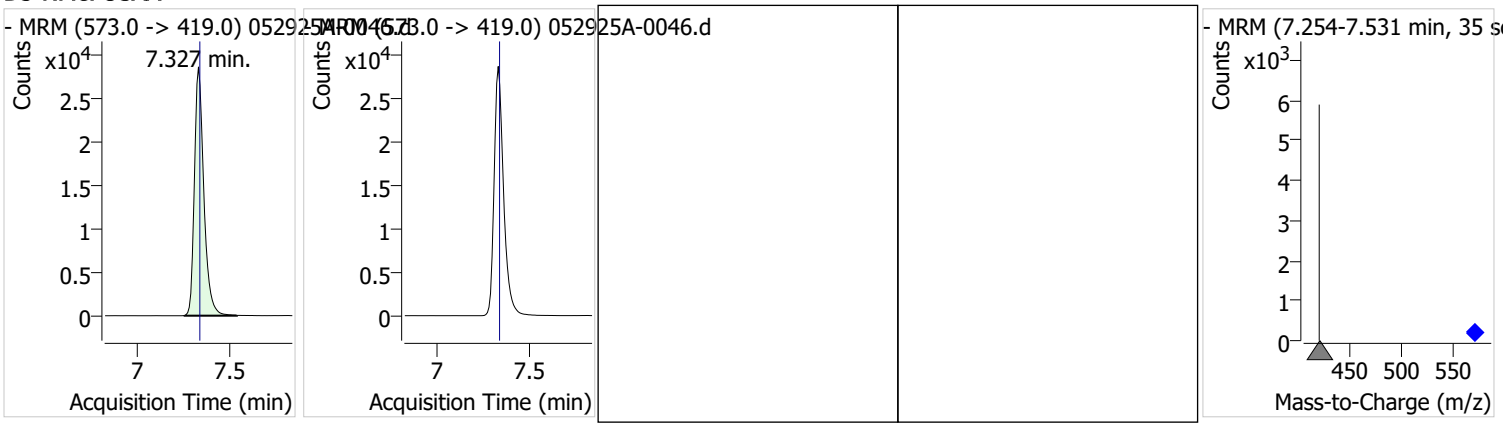
13C9-PFNA



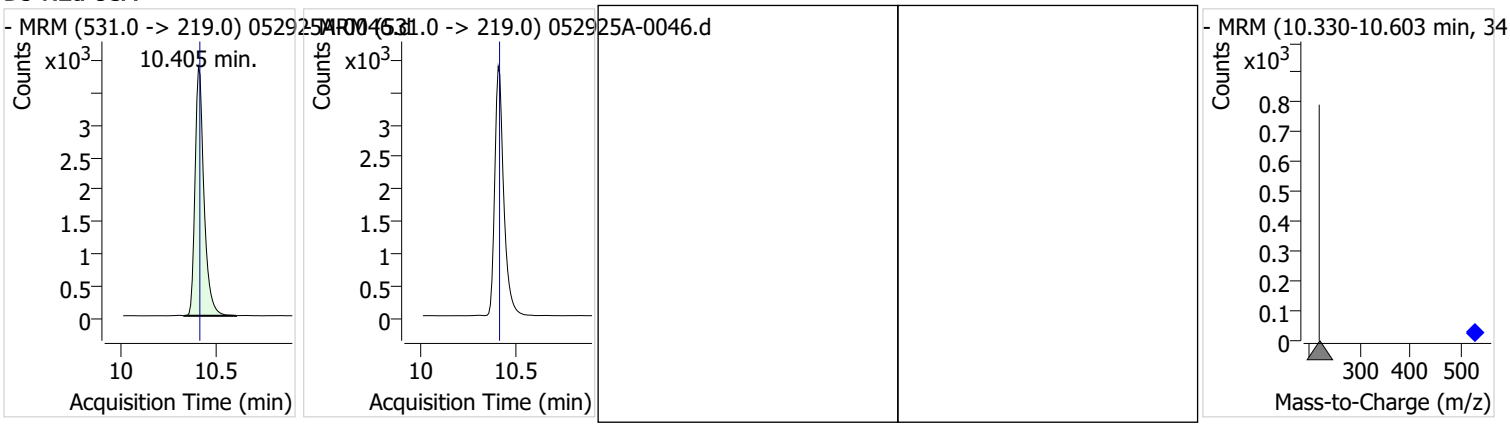
D3-NMeFOSA



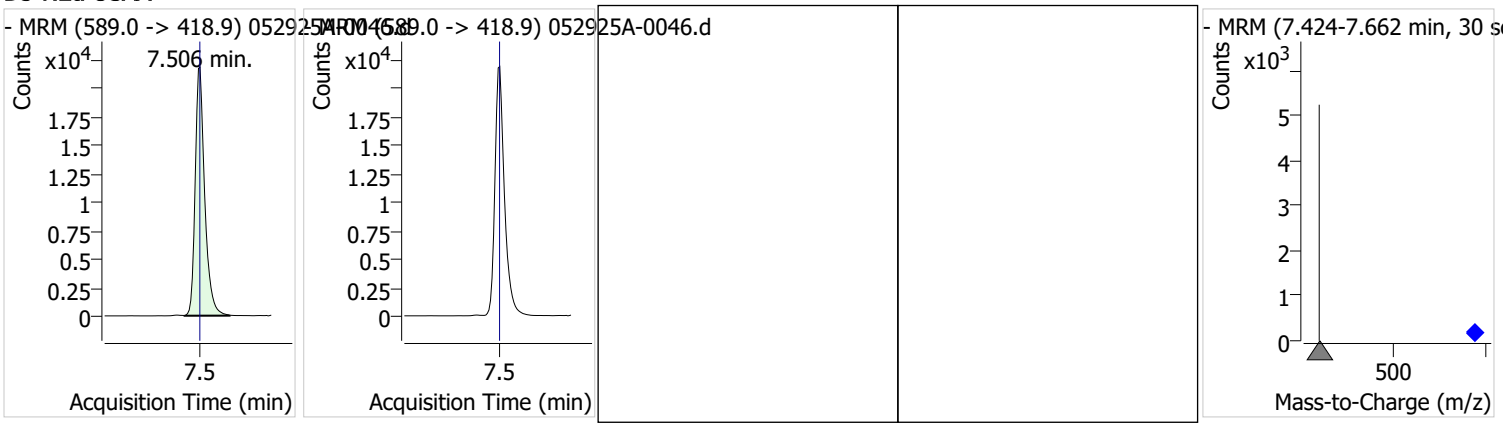
D3-NMeFOSAA



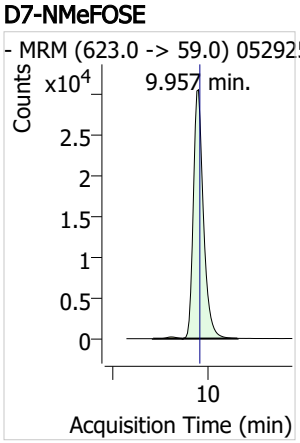
D5-NEtFOSA

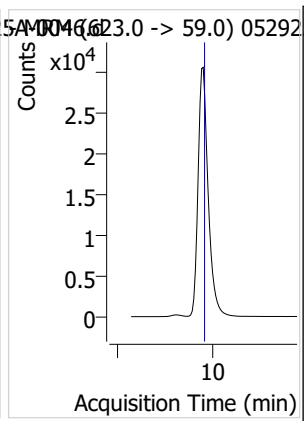


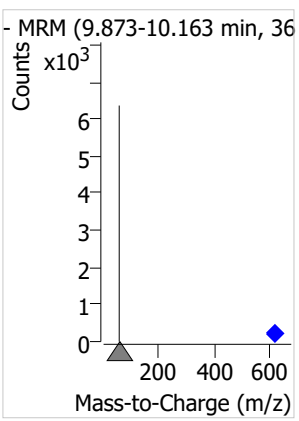
D5-NEtFOSAA



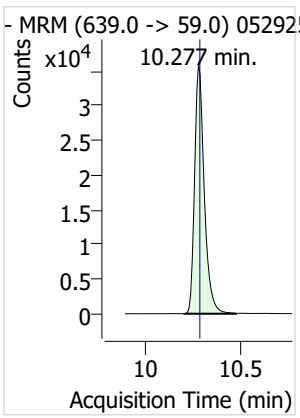
D7-NMeFOSE

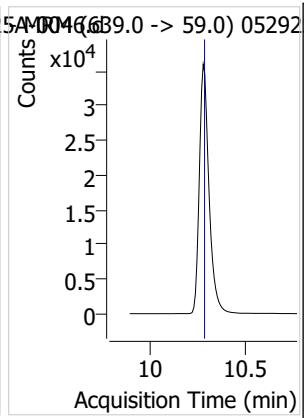


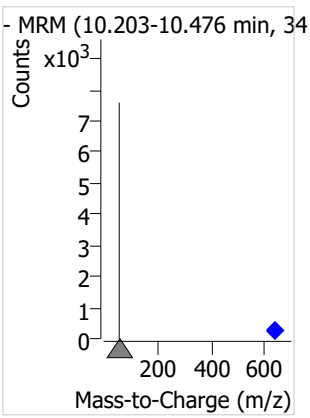




D9-NEtFOSE

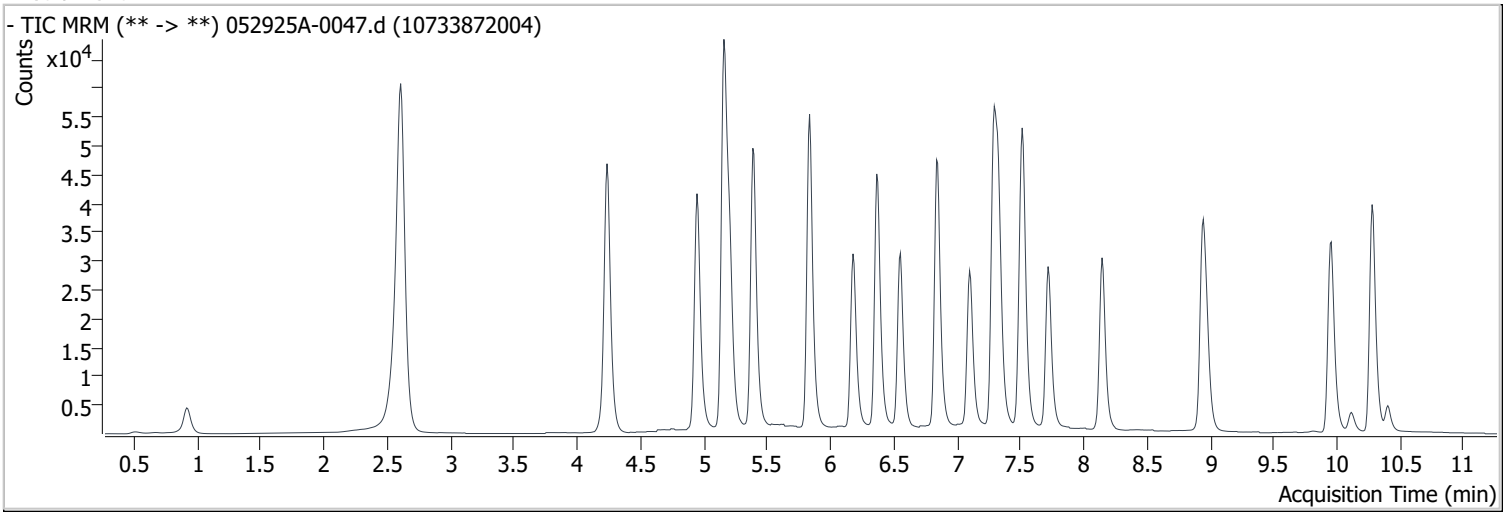






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 9:00 PM	**Data File**	052925A-0047.d
Sample Type	Sample	**Sample Name**	10733872004
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	103808	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	41937	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	28464	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	174973	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	26941	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	229725	42196.21		13C3-PFBA_ISTD	2.608	98618	9.5709	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.528	34425	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.528	34425	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.528	34425	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	41937	12306.75		18O2-PFHxS_ISTD	6.559	36286	6.7120	ng/ml			
13C2-6:2FTS	6.180	28464	67627.78		18O2-PFHxS_ISTD	6.559	36286	6.0464	ng/ml			
13C2-8:2FTS	7.100	26941	81223.92		18O2-PFHxS_ISTD	6.559	36286	5.7014	ng/ml			
13C2-PFDoA	8.146	100397	29891.25		13C2-PFDA_ISTD	7.290	77730	1.0338	ng/ml			
13C2-PFDA	7.290	77730	23607.32					1.5988	ng/ml			
13C2-PFHxA	5.162	98531	4327.05					3.1967	ng/ml			
13C2-PFTeDA	8.936	106172	6921.43		13C2-PFDA_ISTD	7.290	77730	0.9730	ng/ml			
13C4-PFOS	7.529	36162	3469.24					3.2805	ng/ml			
13C3-HFPODA	5.394	103808	31204.91		13C2-PFHxA_ISTD	5.162	98531	9.8607	ng/ml			
13C3-PFBS	5.205	59578	210396.67		18O2-PFHxS_ISTD	6.559	36286	2.4049	ng/ml			
13C3-PFHxS	6.560	42681	4827.27		18O2-PFHxS_ISTD	6.559	36286	2.5443	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.506	85801	-	ng/ml			
584.0 -> 526.0				*								

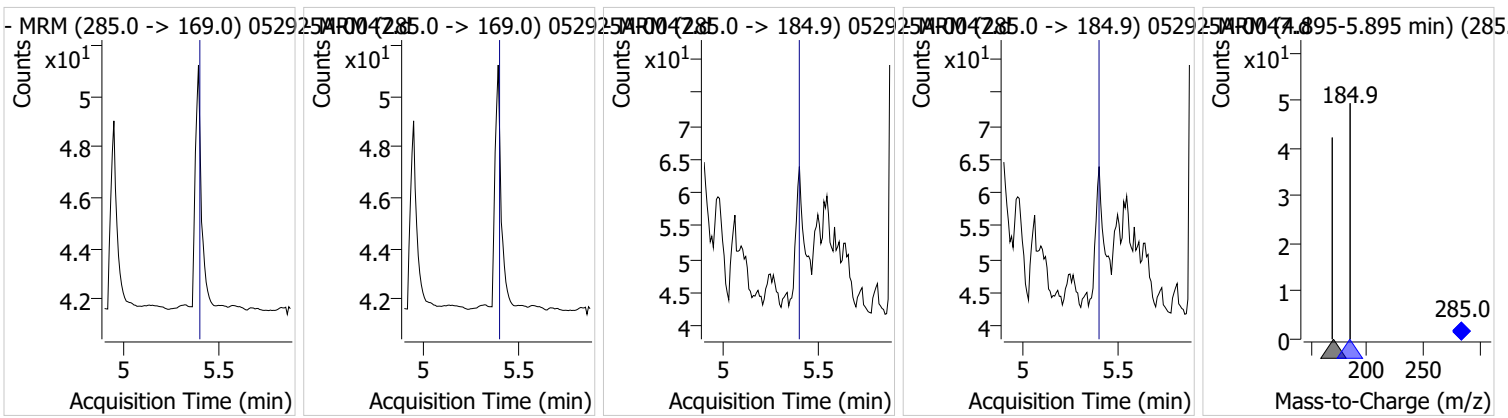
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	174973	14043.85		13C2-PFHxA_ISTD	5.162	98531	2.5006	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.327	112871	-	ng/ml			
570.0 -> 483.0				*								
PFBA	2.611	1092	45.88		13C4-PFBA_ISTD	2.606	229725	0.0477	ng/ml			
13C5-PFHxA	5.161	106575	52103.50		13C2-PFHxA_ISTD	5.162	98531	2.4365	ng/ml			
PFBS	5.213	4042	661.59		13C3-PFBS_ISTD	5.205	59578	0.1286	ng/ml			
298.9 -> 98.8	5.205	1396	78.57	34.6								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	11573	-	ng/ml			
512.0 -> 169.0				*								
PFDA	7.208	0	0.00		13C6-PFDA_ISTD	7.289	84785	-	ng/ml	✔	INT	MJL 5/30/25
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.146	100397	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	13280	-	ng/ml			
526.0 -> 169.0				*								
PFHpA	5.839	744	12.23		13C4-PFHpA_ISTD	5.839	174973	0.0095	ng/ml			
362.9 -> 169.0	5.848	129	5.00	17.3								
PFHxA	5.163	7979	58.87		13C5-PFHxA_ISTD	5.161	106575	0.1605	ng/ml			
313.0 -> 118.9	5.163	178	65.32	2.2								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	121033	-	ng/ml			
PFHxS	6.498	342	474.28		13C3-PFHxS_ISTD	6.560	42681	0.0158	ng/ml			
398.9 -> 99.0	6.498	185	35.49	54.3								
PFNA					13C9-PFNA_ISTD	6.842	78109	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	137328	-	ng/ml			
PFOA	6.300	930	17.61		13C8-PFOA_ISTD	6.368	116079	0.0170	ng/ml			
413.0 -> 169.0	6.300	156	26.89	16.8								
PFOS	7.399	403	25.07		13C8-PFOS_ISTD	7.528	34425	0.0198	ng/ml			
499.0 -> 99.0	7.402	244	24.15	60.5								
PFPeA	4.239	6744	211.59		13C5-PFPeA_ISTD	4.237	166668	0.1797	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	229725	-	ng/ml			
13C5-PFPeA	4.237	166668	47829.42		13C2-PFHxA_ISTD	5.162	98531	4.7762	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	166668	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.146	100397	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	106575	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	84785	25774.76		13C2-PFDA_ISTD	7.290	77730	1.1584	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	106575	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	47223	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	92657	332776.85		13C2-PFDA_ISTD	7.290	77730	1.1335	ng/ml			
13C4-PFOA	6.369	26065	59740.80					3.1524	ng/ml			
PFDS					13C8-PFOS_ISTD	7.528	34425	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.528	34425	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.560	42681	-	ng/ml			
349.0 -> 98.9				*								

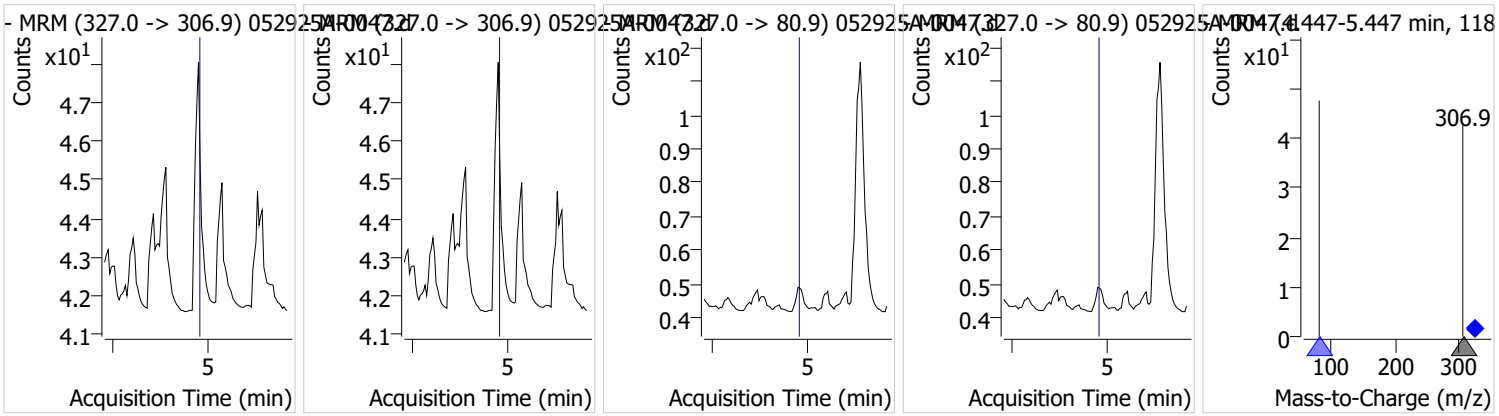
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA	8.937	0	0.00		13C2-PFTeDA_ISTD	8.936	106172	-	ng/ml	✔	INT	MJL 5/30/25
713.0 -> 168.9	8.954	0		*								
PFUnA					13C7-PFUnA_ISTD	7.721	92657	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.608	98618	629.12					6.4939	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	166668	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	106575	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	78109	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	74603	22568.53					1.5775	ng/ml			
18O2-PFHxS	6.559	36286	20044.89					3.1944	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.528	34425	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.528	34425	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.920	0	0.00		13C3-PFPrA_ISTD	0.916	20496	-	ng/ml	✔	INT	MJL 5/30/25
13C3-PFPrA	0.916	20496	5065.68		13C3-PFBA_ISTD	2.608	98618	1.9212	ng/ml			
TFSI	5.924	268	3.73		13C3-HFPODA_ISTD	5.394	103808	0.0391	ng/ml	✔	LT	MJL 5/30/25
279.9 -> 77.9	5.908	140	158.13	**52.1								
13C8-PFOA	6.368	116079	177714.96		13C4-PFOA_ISTD	6.369	26065	2.3770	ng/ml			
13C8-PFOS	7.528	34425	67212.66		13C4-PFOS_ISTD	7.529	36162	2.4341	ng/ml			
13C8-PFOSA	8.975	47223	13322.01		13C4-PFOS_ISTD	7.529	36162	2.3221	ng/ml			
13C9-PFNA	6.842	78109	23589.01		13C5-PFNA_ISTD	6.842	74603	1.1850	ng/ml			
D3-NMeFOSA	10.118	11573	1732.61		13C4-PFOS_ISTD	7.529	36162	1.7861	ng/ml			
D3-NMeFOSAA	7.327	112871	32805.24		13C4-PFOS_ISTD	7.529	36162	5.0182	ng/ml			
D5-NEtFOSA	10.405	13280	1392.74		13C4-PFOS_ISTD	7.529	36162	1.7051	ng/ml			
D5-NEtFOSAA	7.506	85801	24557.77		13C4-PFOS_ISTD	7.529	36162	5.0229	ng/ml			
D7-NMeFOSE	9.957	121033	32955.98		13C4-PFOS_ISTD	7.529	36162	19.4581	ng/ml			
D9-NEtFOSE	10.277	137328	6024.62		13C4-PFOS_ISTD	7.529	36162	19.8823	ng/ml			

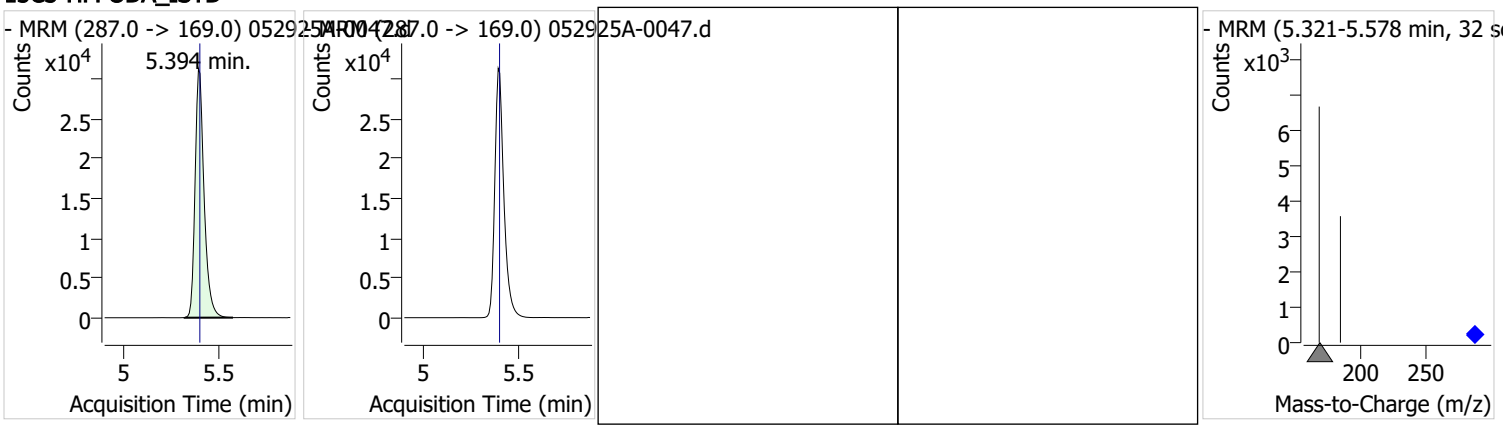
HFPO-DA



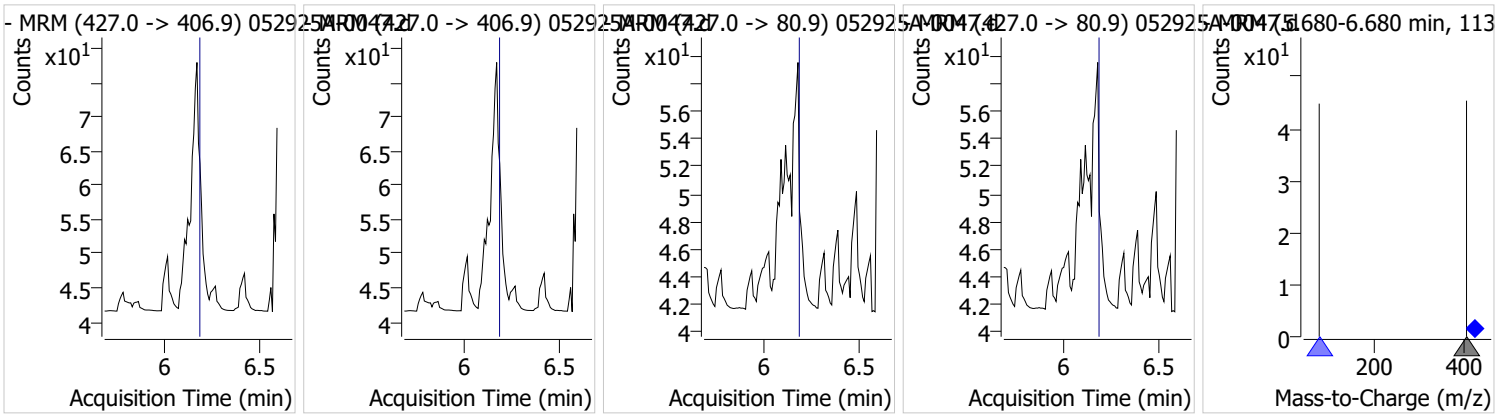
4:2FTS



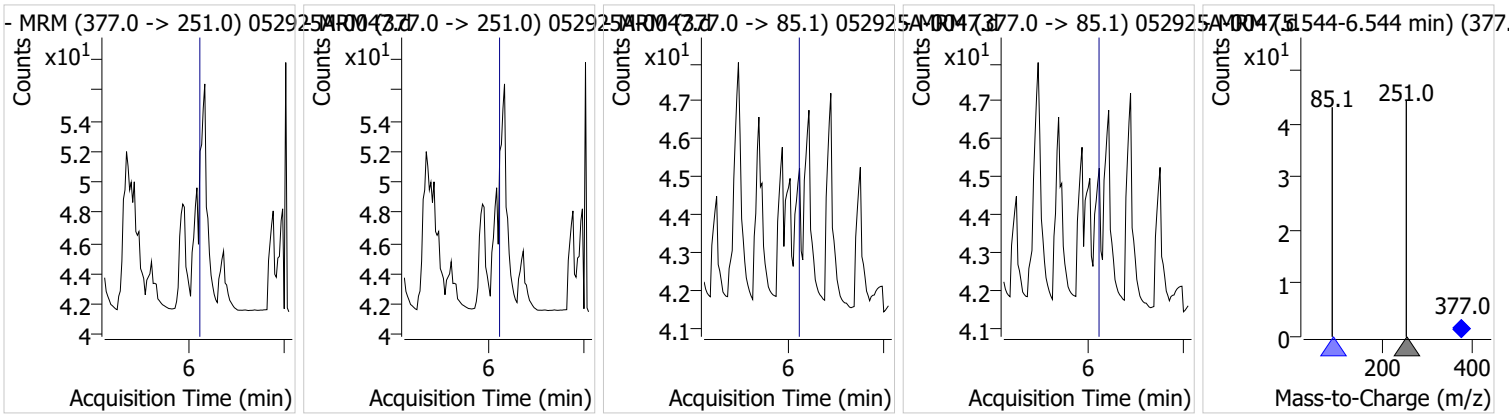
13C3-HFPODA_ISTD



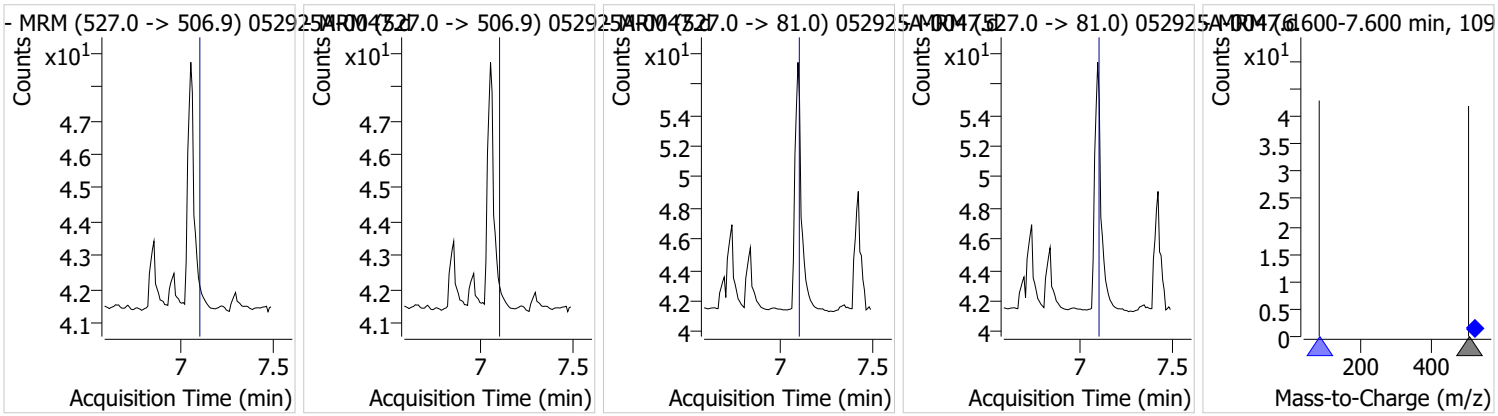
6:2FTS



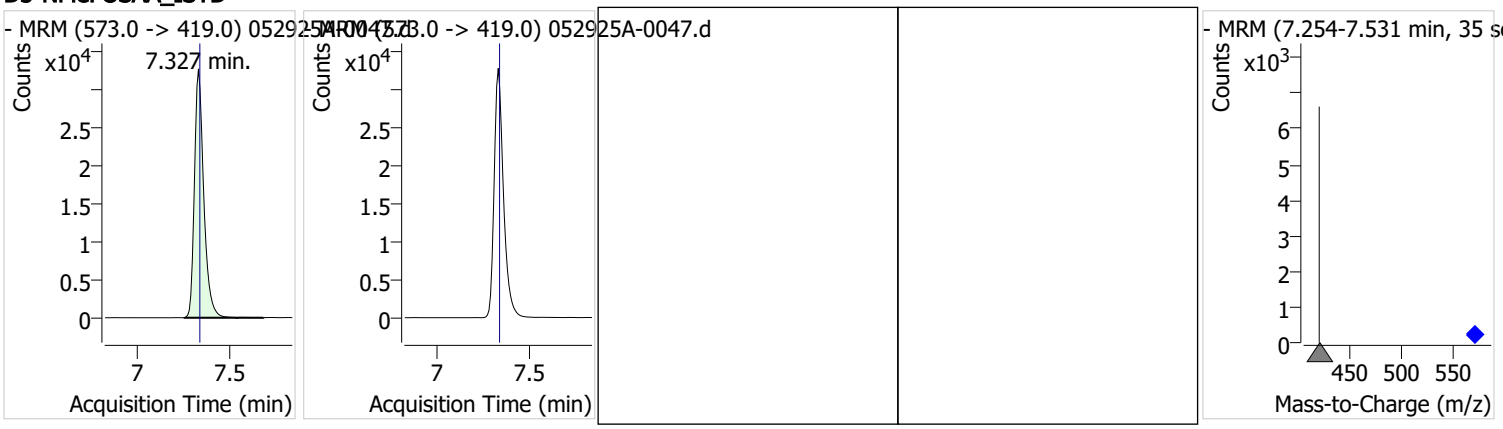
ADONA



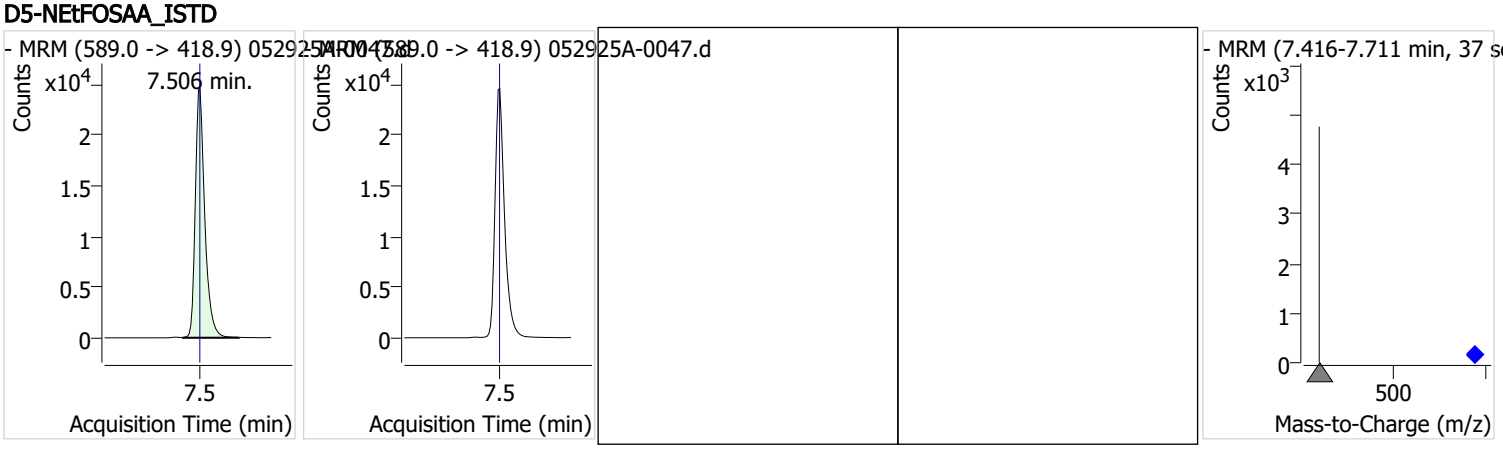
8:2FTS



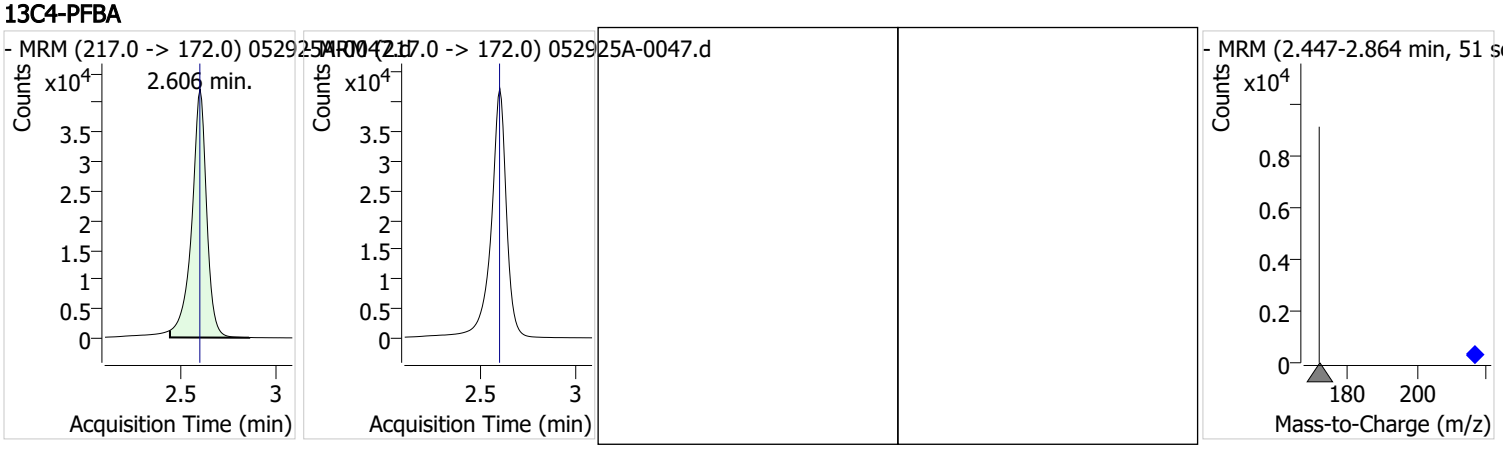
D3-NMeFOSAA_ISTD



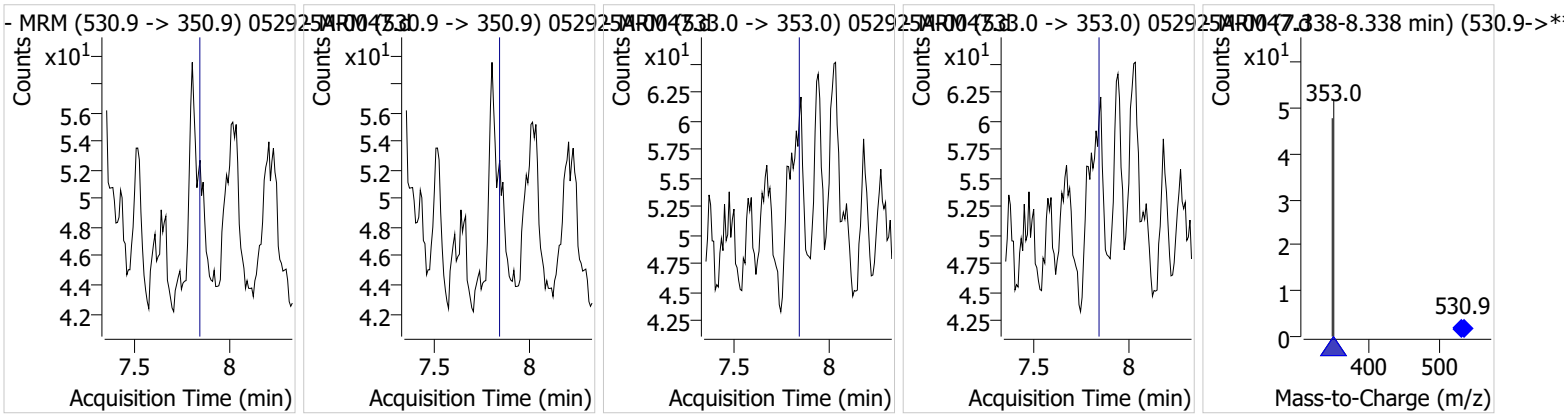
D5-NEtFOSAA_ISTD



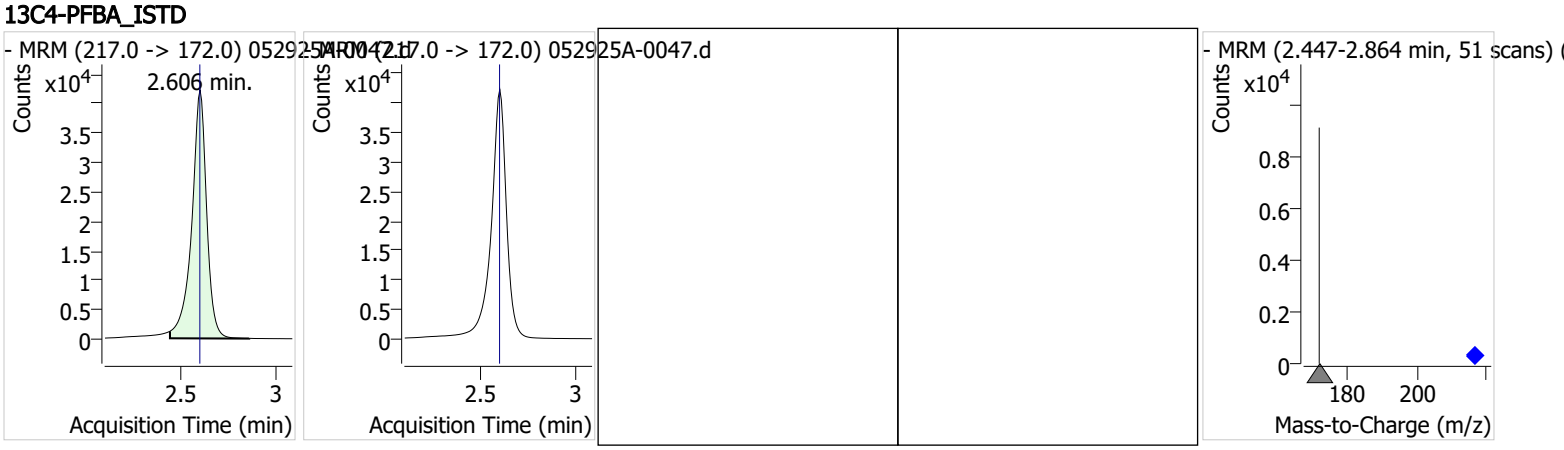
13C4-PFBA



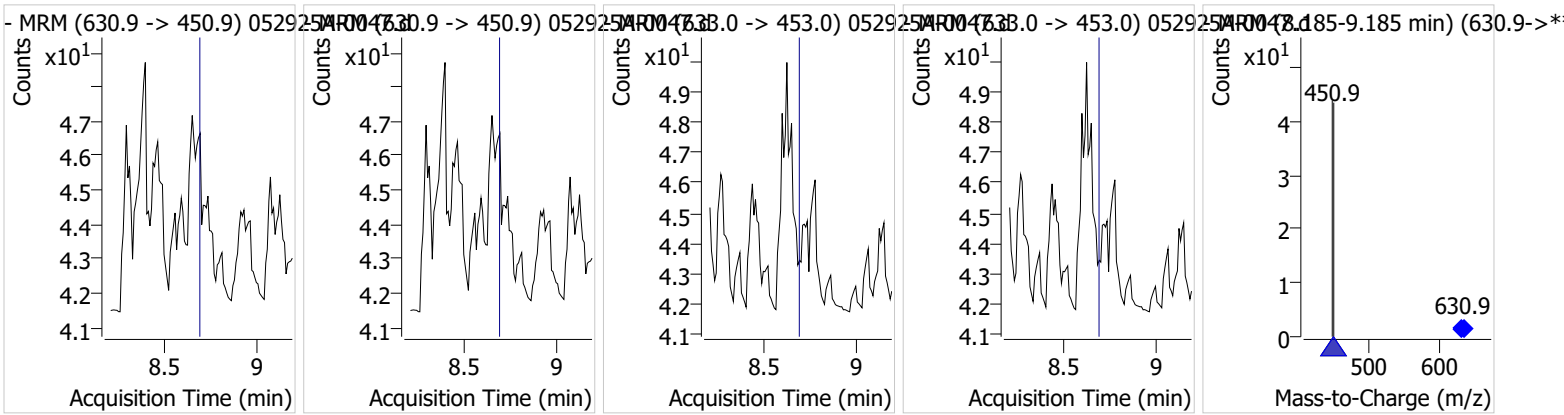
9Cl-PF3ONS



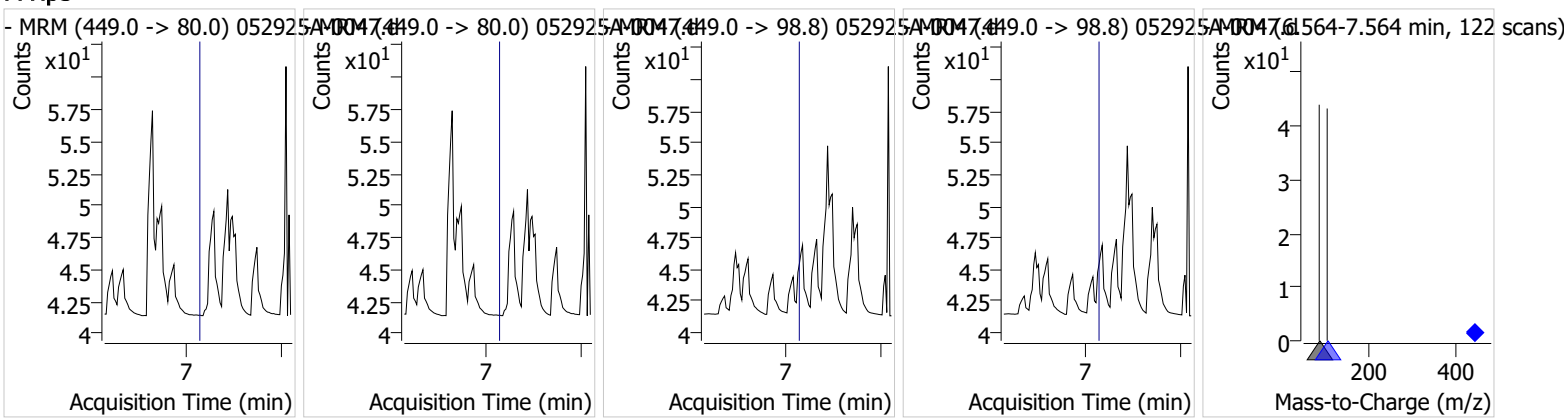
13C4-PFBA_ISTD



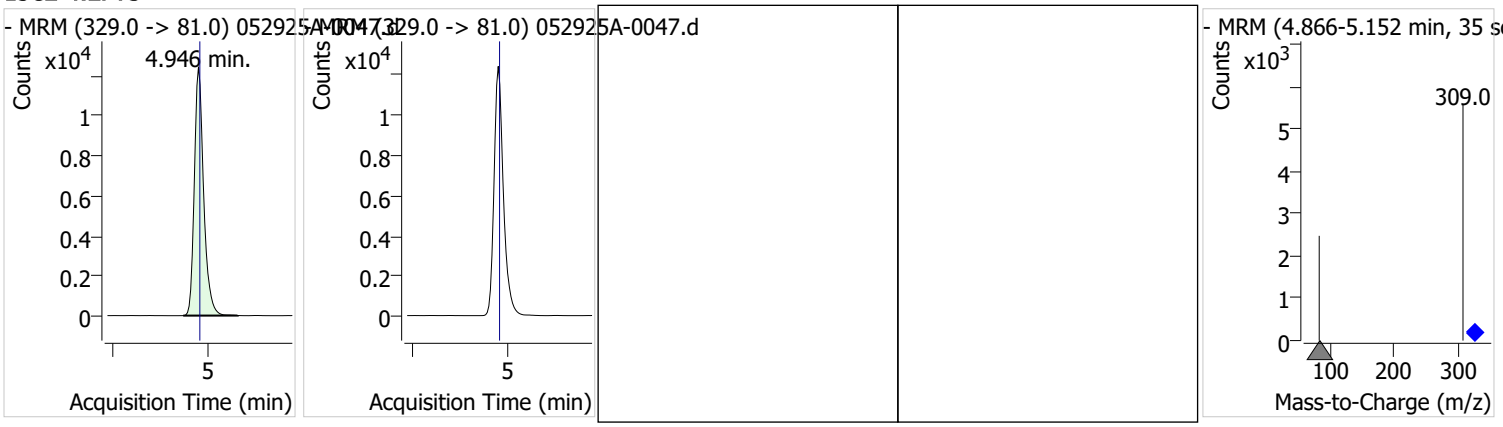
11Cl-PF3OUdS



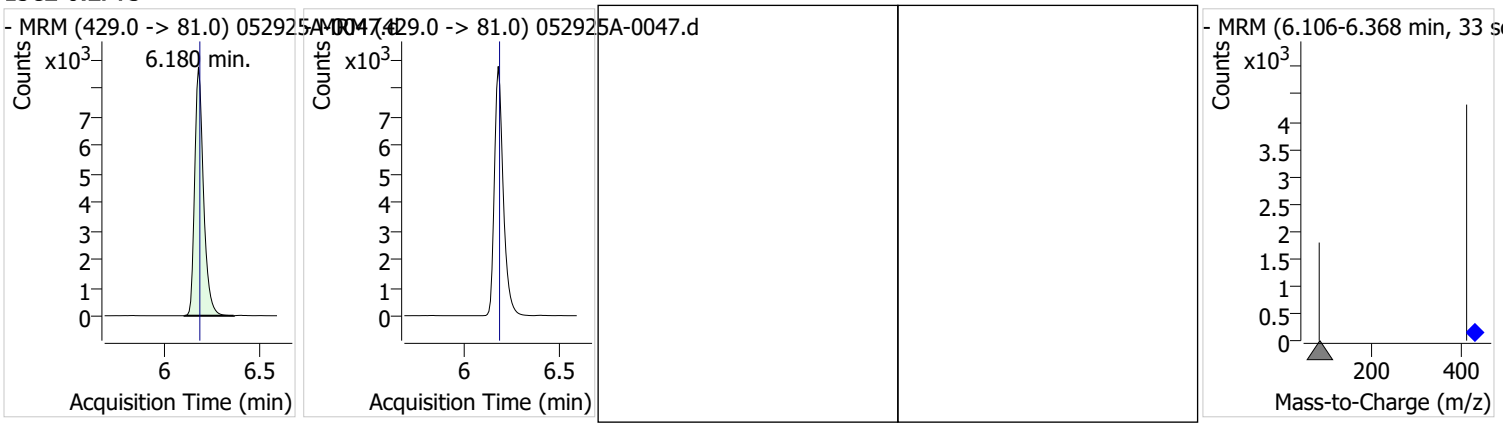
PFHpS



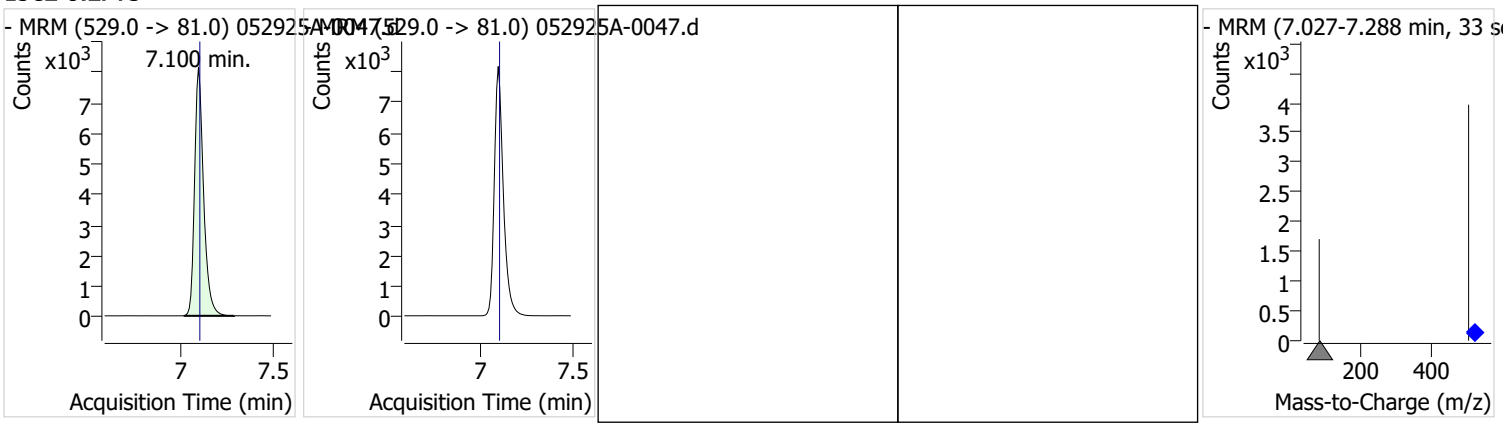
13C2-4:2FTS



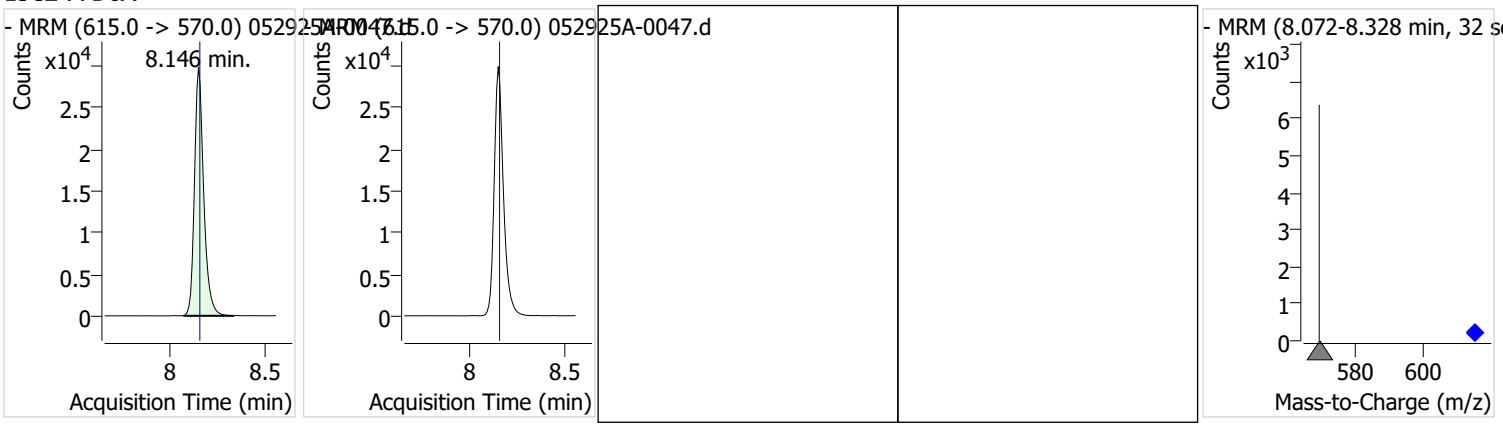
13C2-6:2FTS



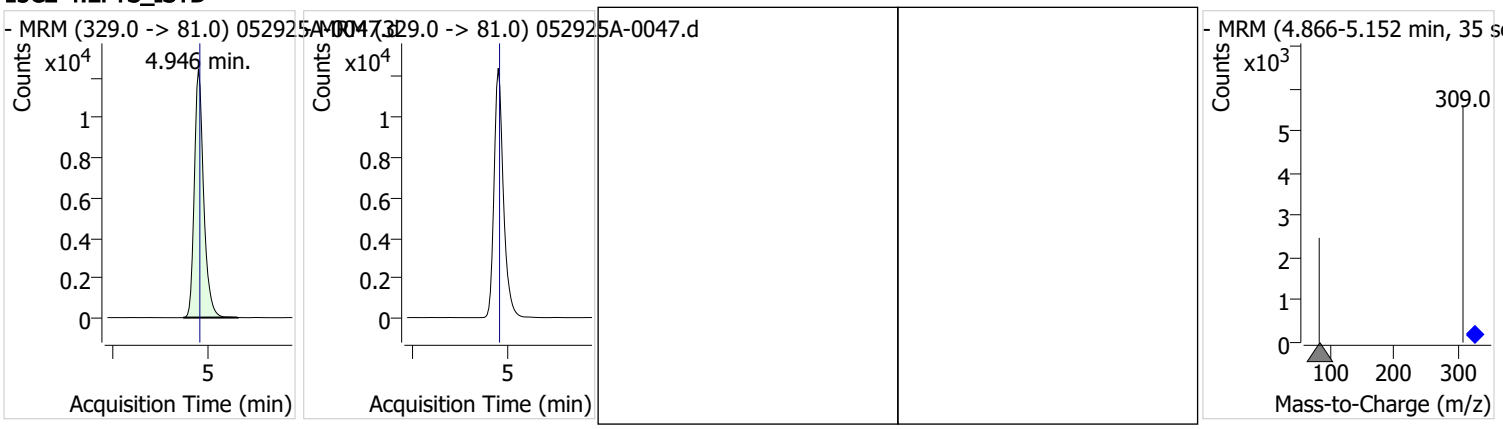
13C2-8:2FTS



13C2-PFDoA



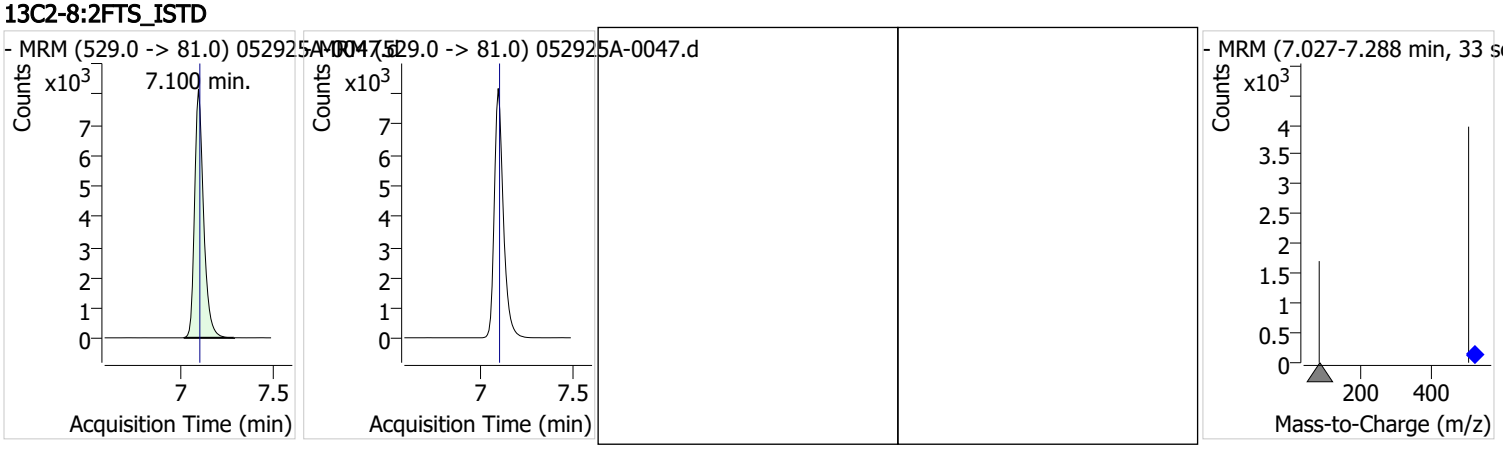
13C2-4:2FTS_ISTD



13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



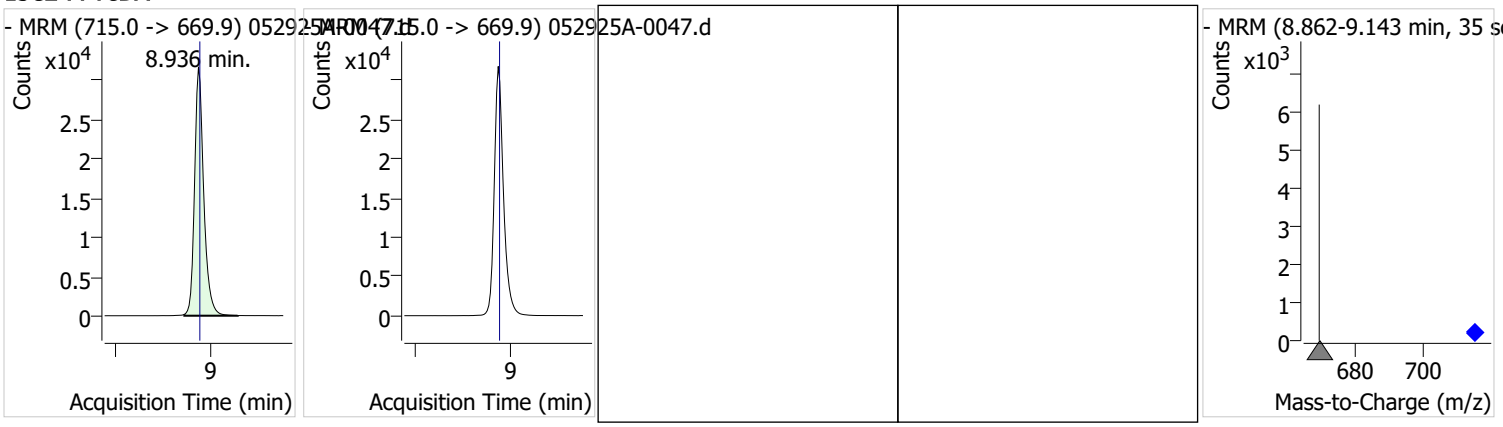
13C2-PFDA



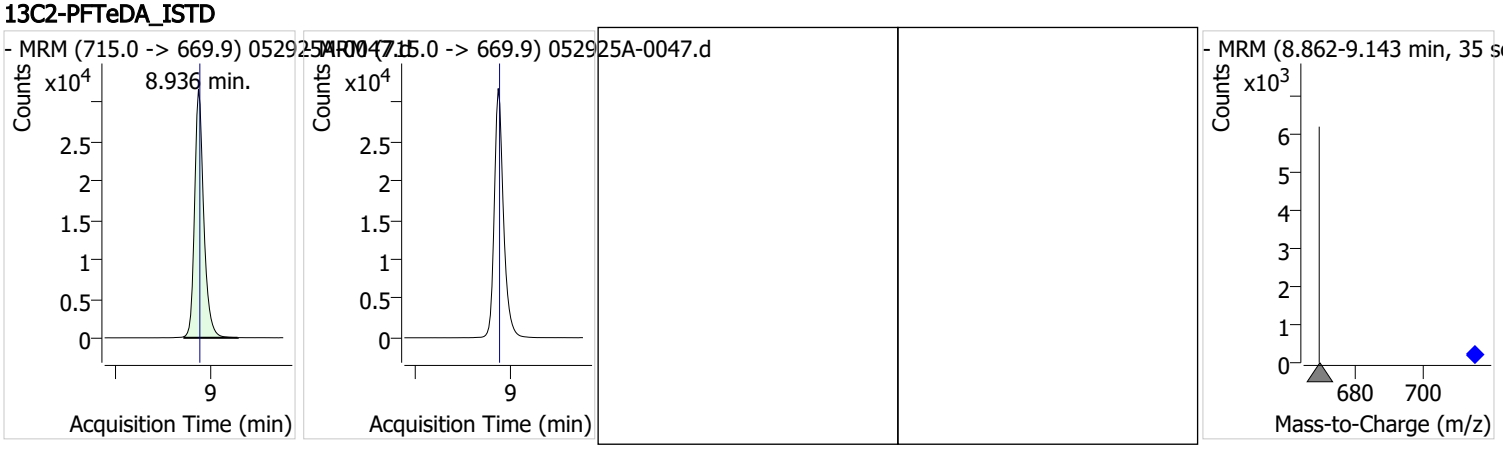
13C2-PFHxA



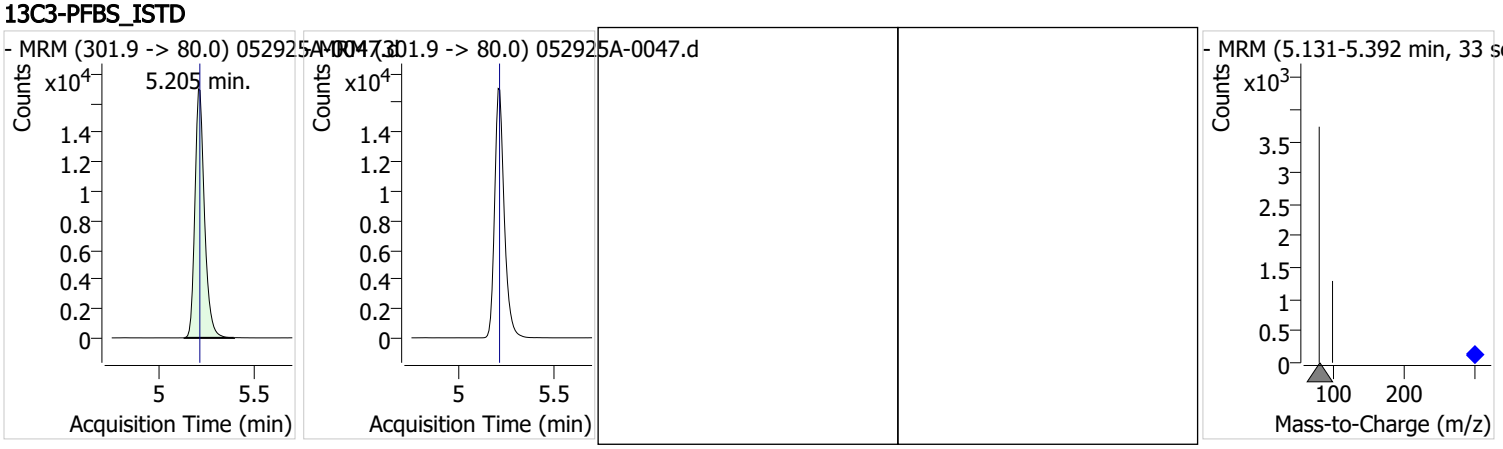
13C2-PFTeDA



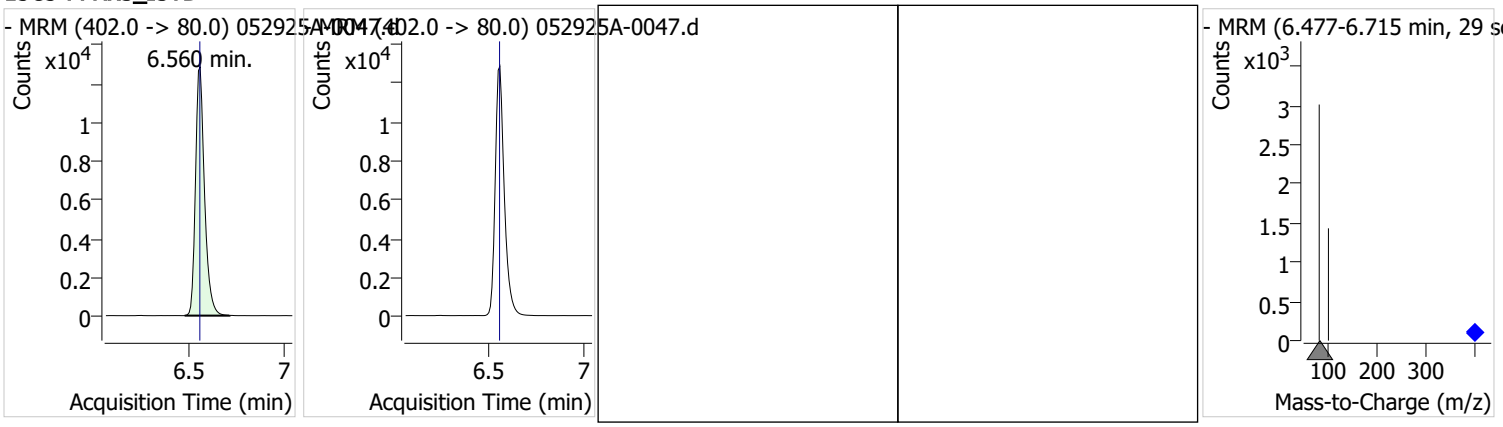
13C2-PFTeDA_ISTD



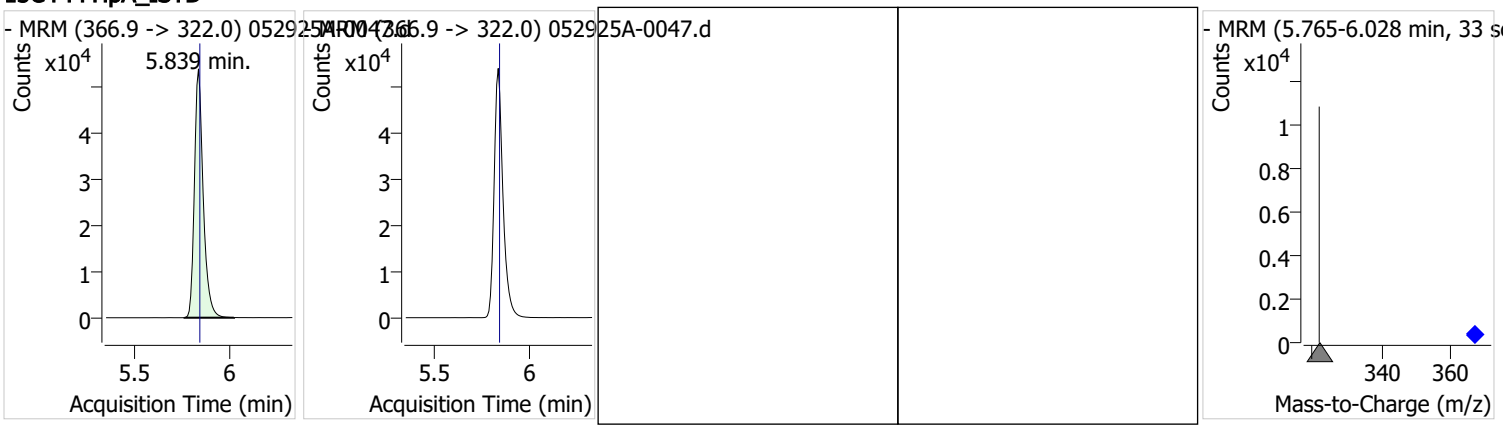
13C3-PFBS_ISTD



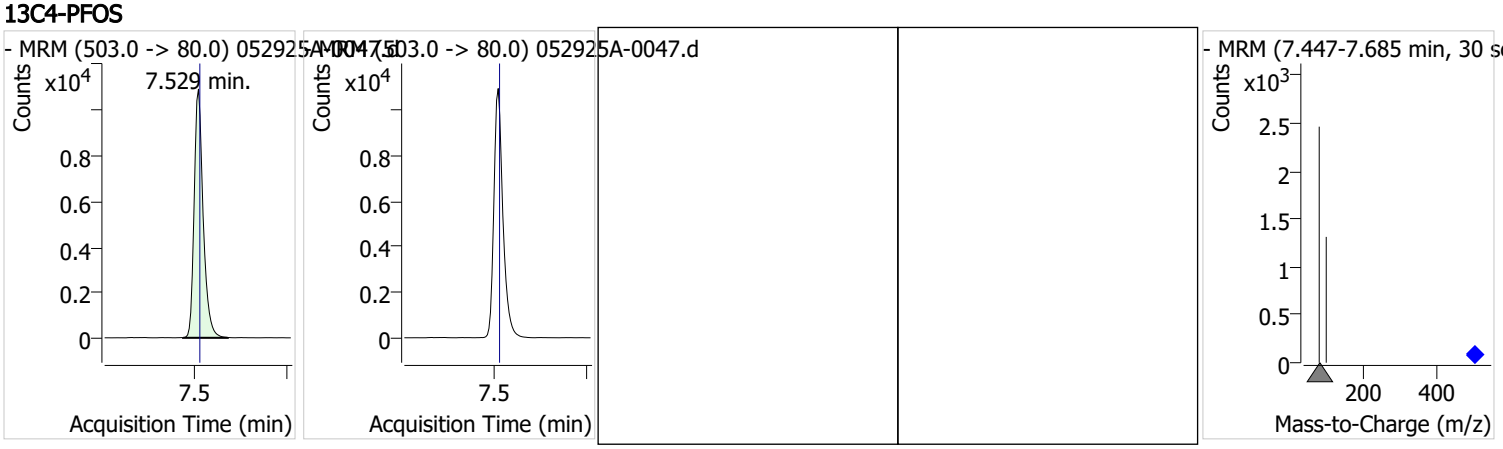
13C3-PFHxS_ISTD



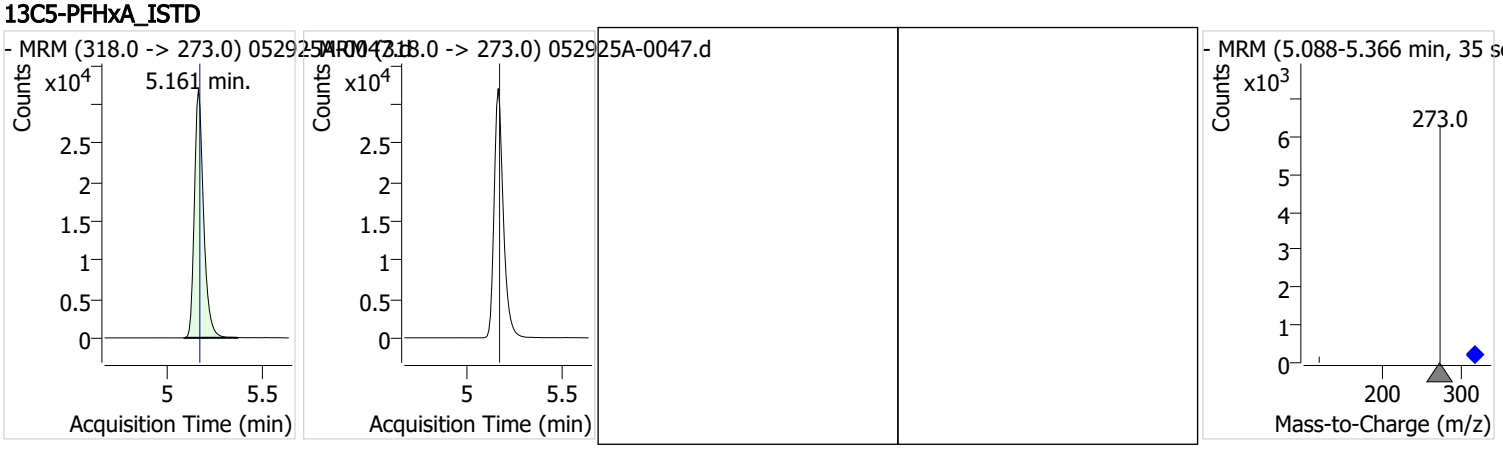
13C4-PFHpA_ISTD



13C4-PFOS



13C5-PFHxA_ISTD



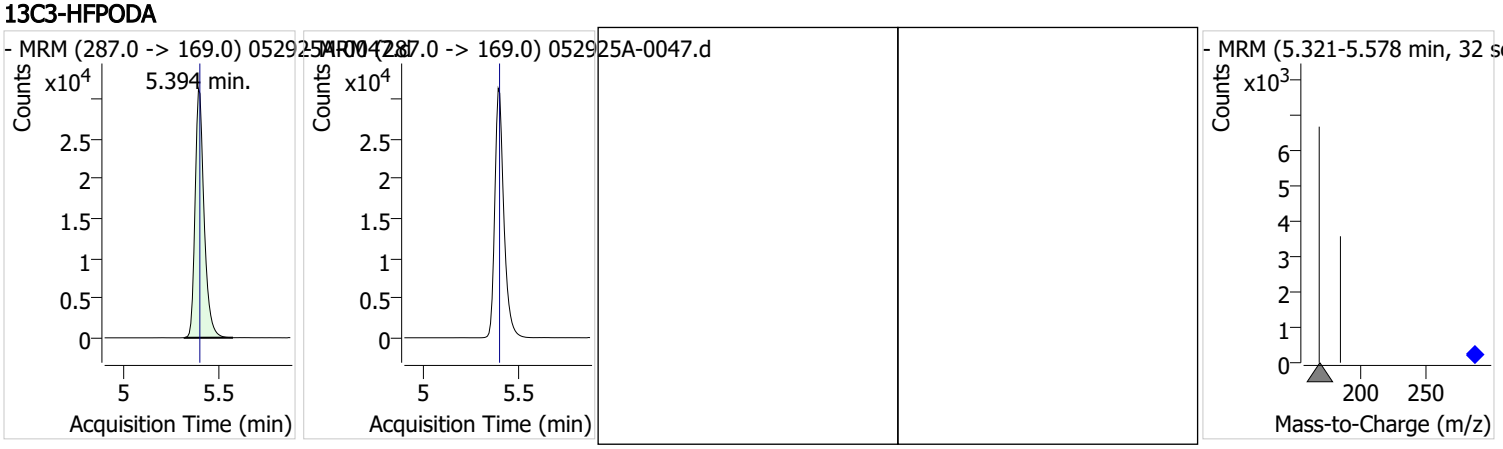
13C5-PFPeA_ISTD



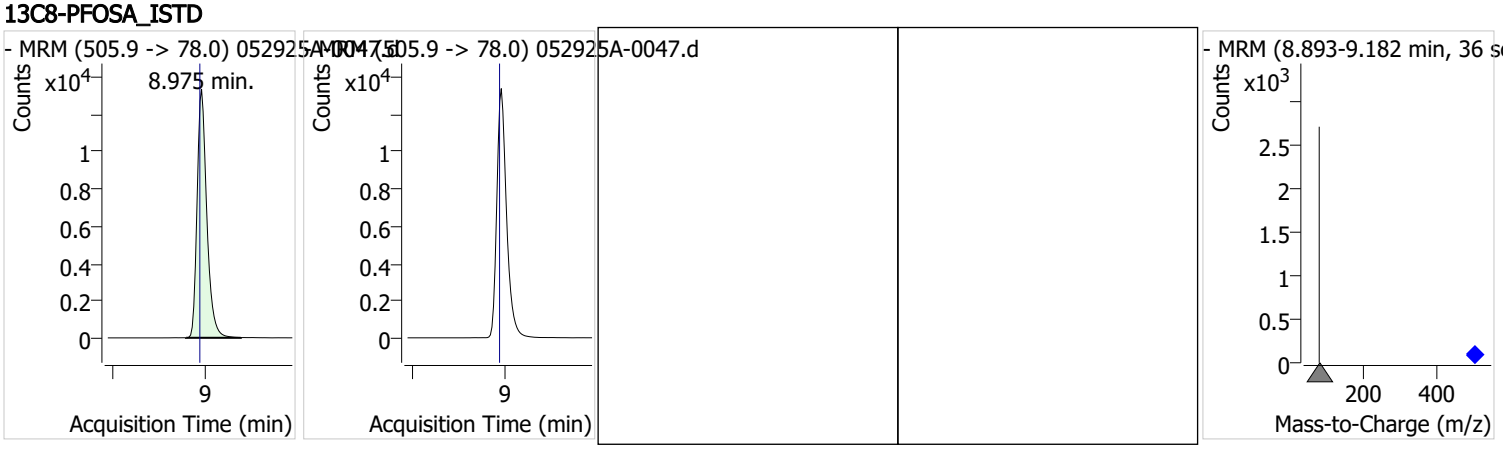
13C6-PFDA_ISTD



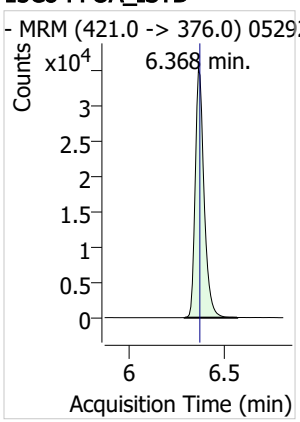
13C3-HFPODA

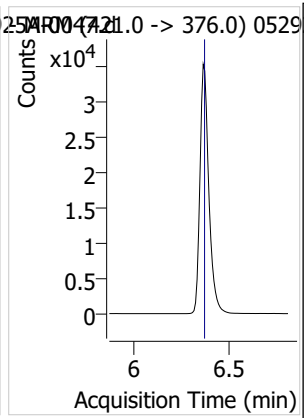


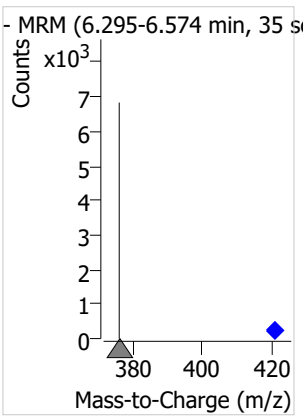
13C8-PFOSA_ISTD



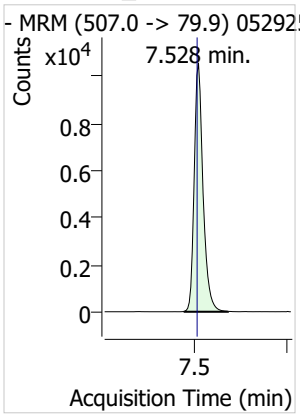
13C8-PFOA_ISTD

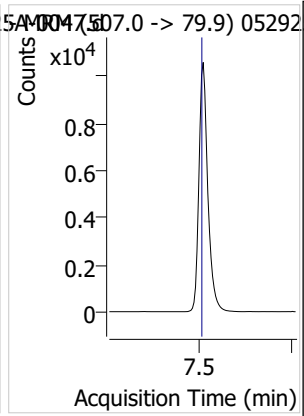


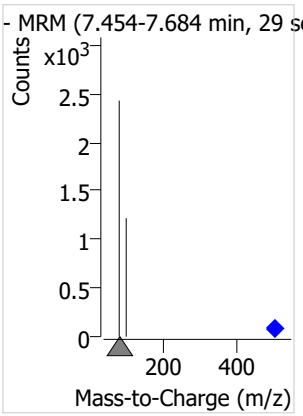




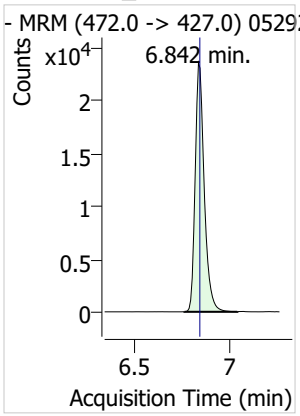
13C8-PFOS_ISTD

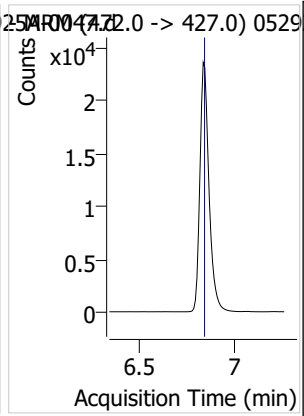


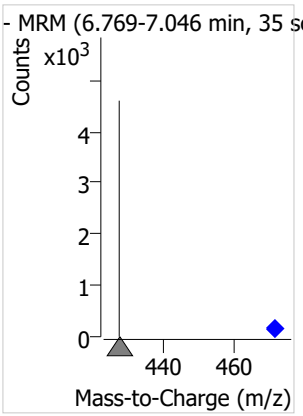




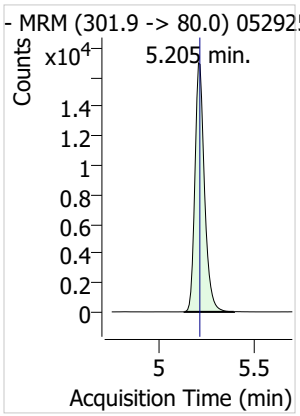
13C9-PFNA_ISTD

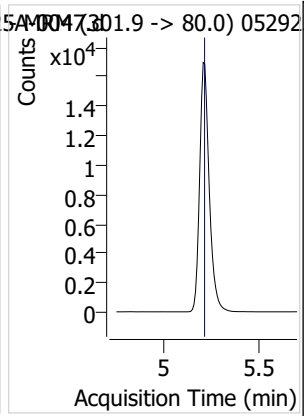


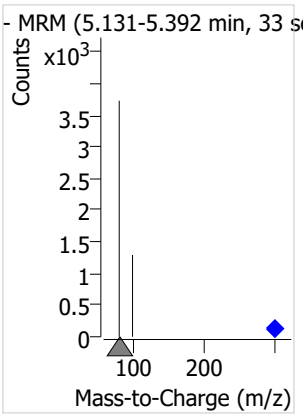




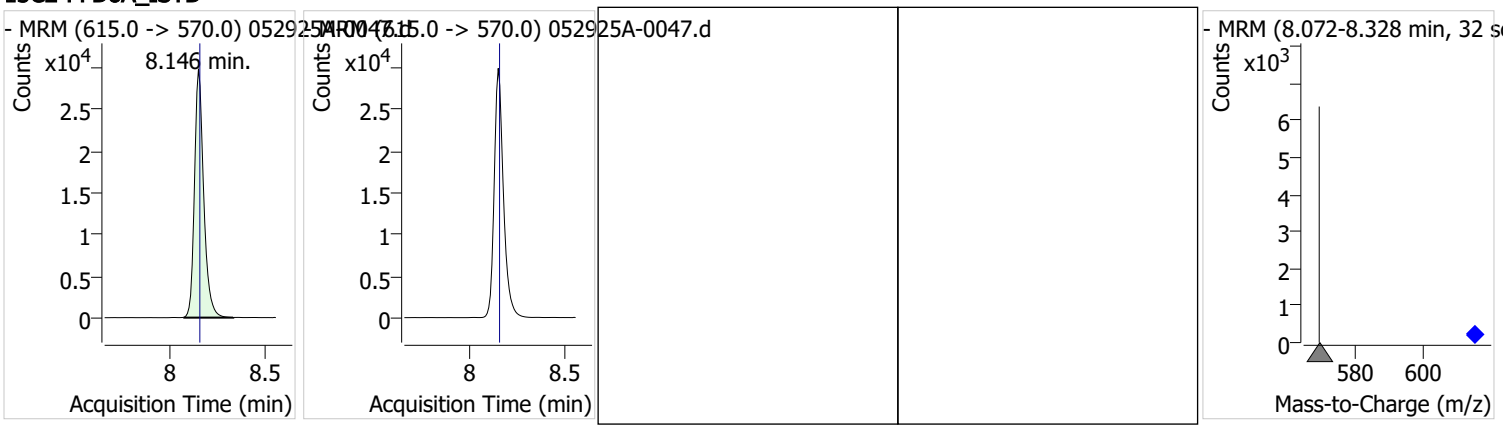
13C3-PFBS



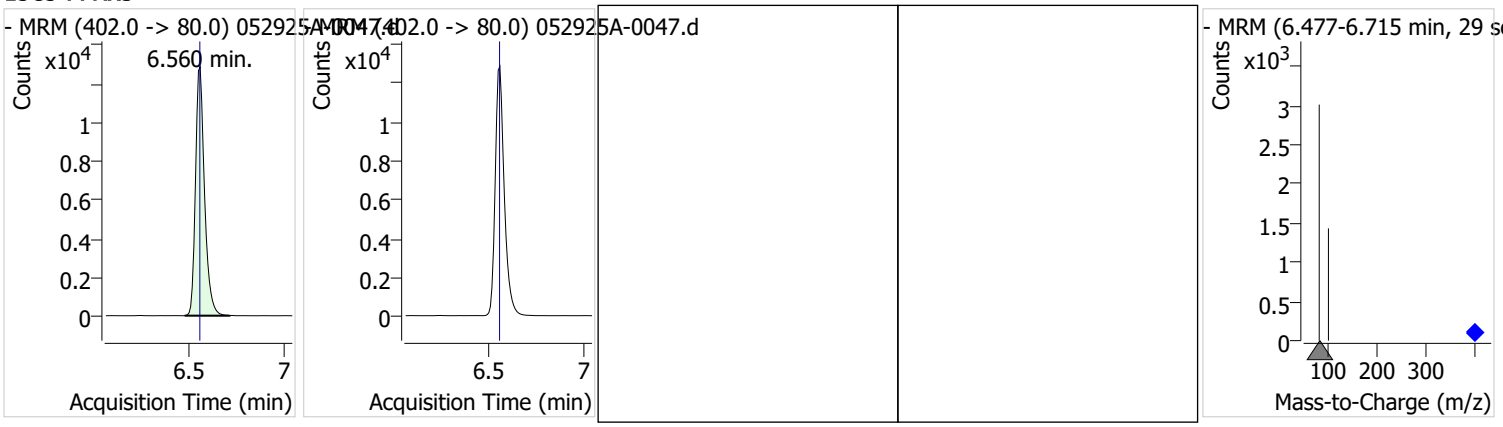




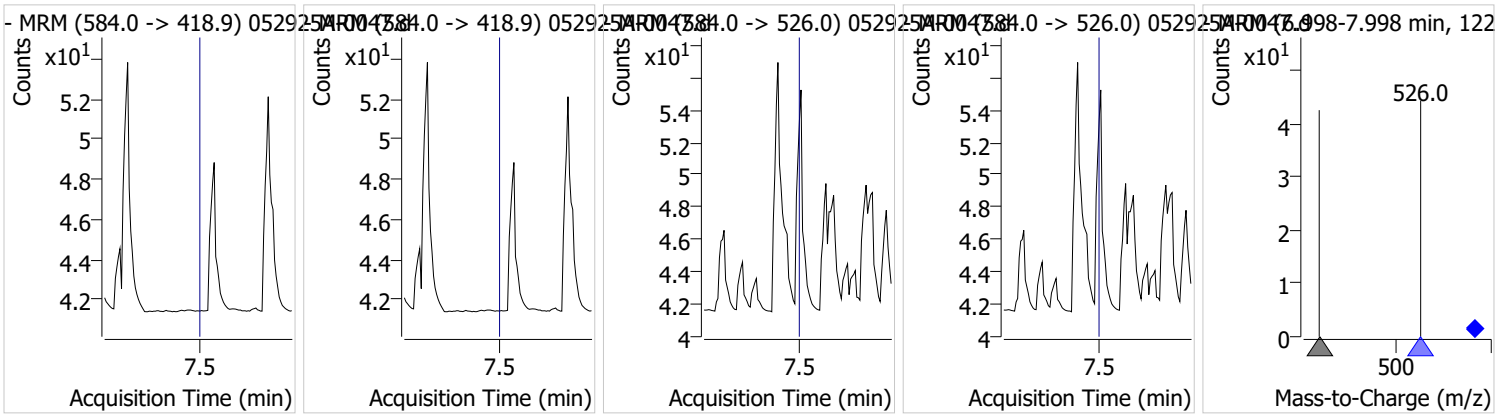
13C2-PFDoA_ISTD



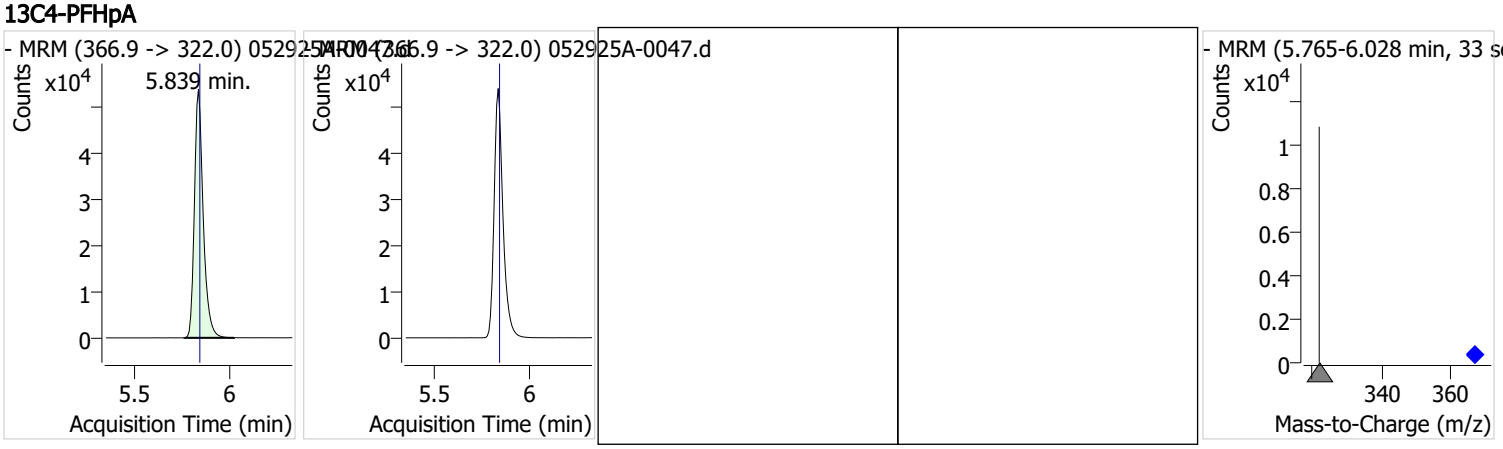
13C3-PFHxS



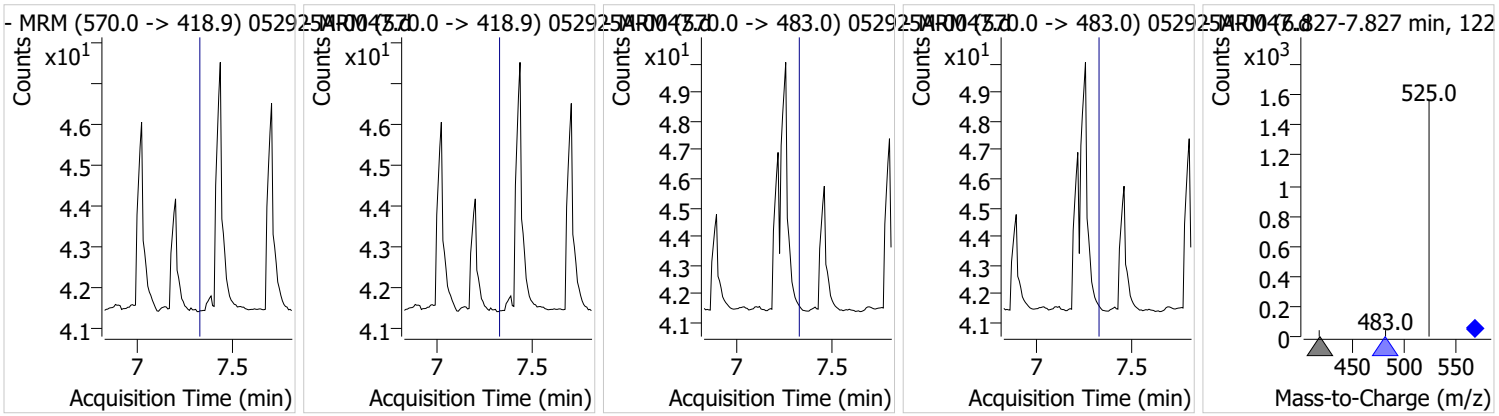
NEtFOSAA



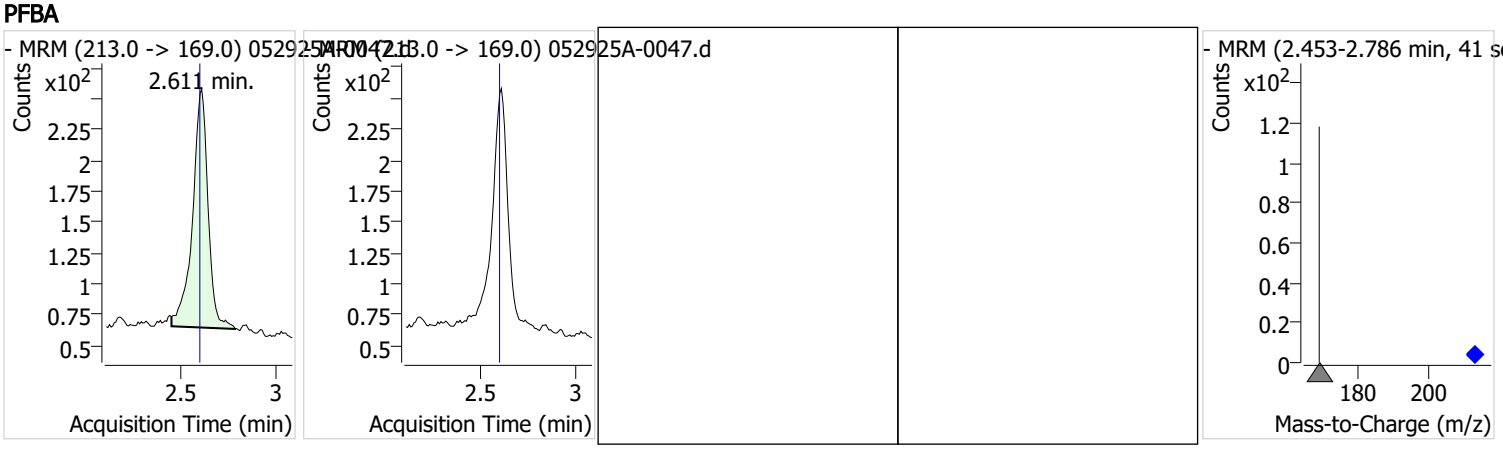
13C4-PFHpA



NMeFOSAA



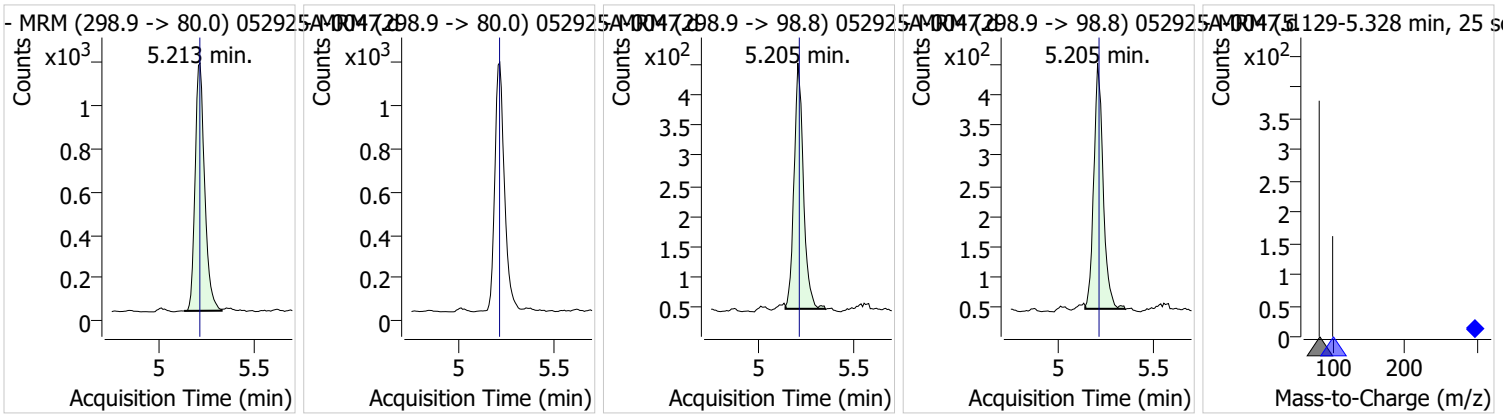
PFBA



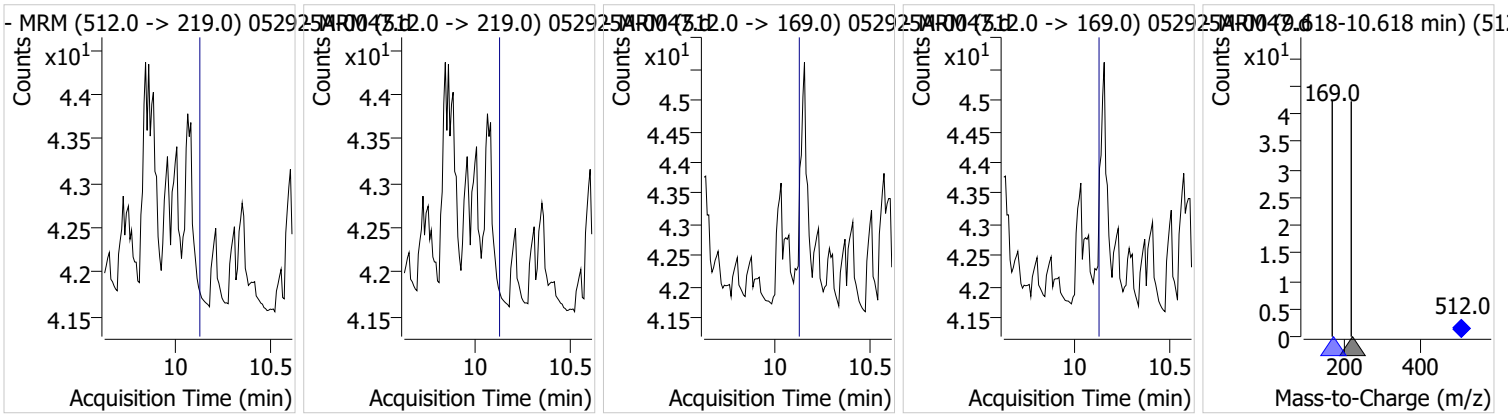
13C5-PFHxA



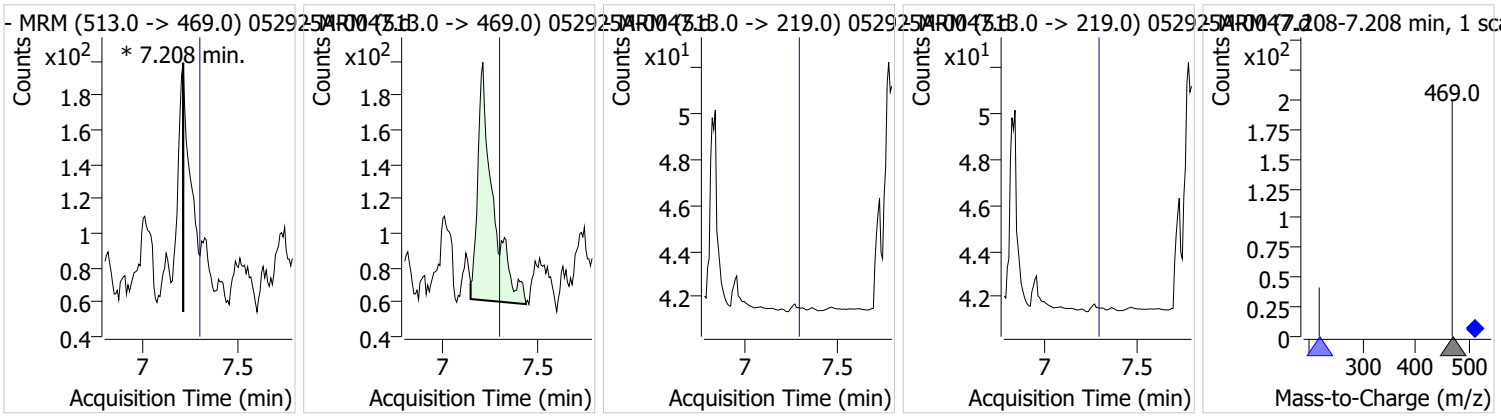
PFBS



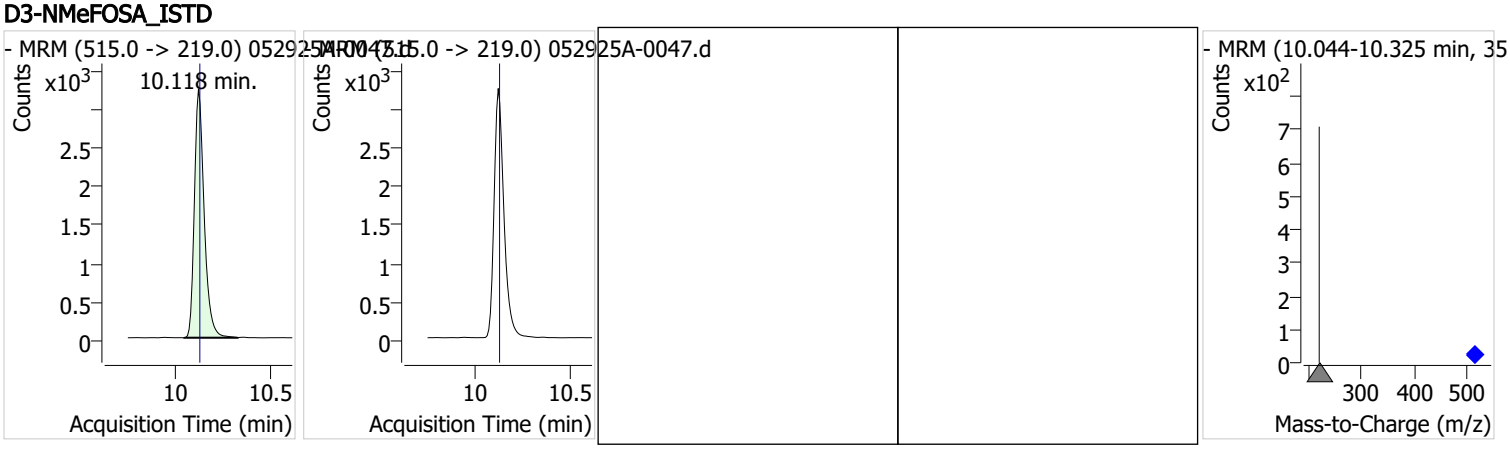
NMeFOSA



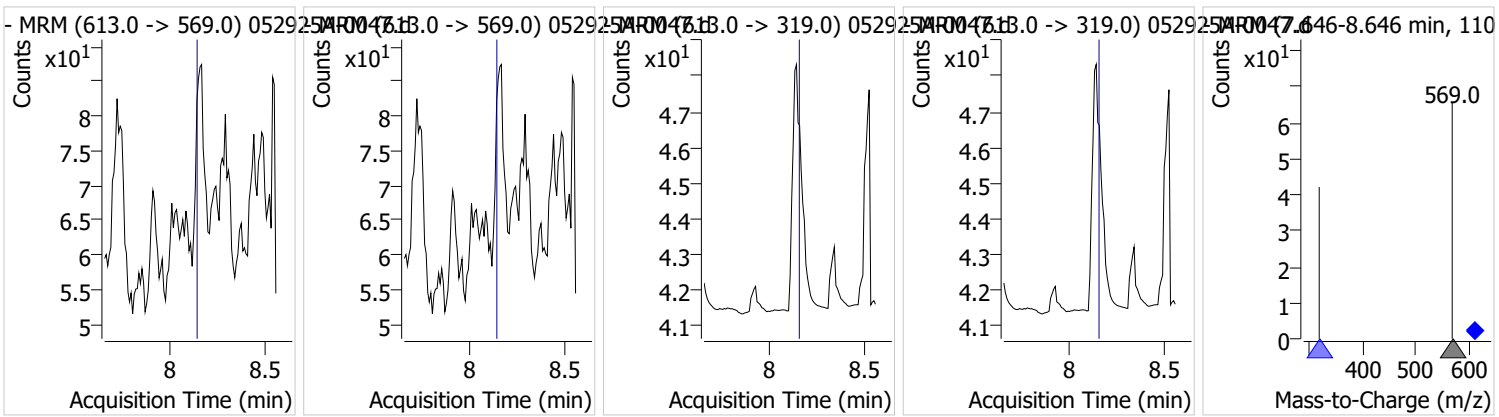
PFDA



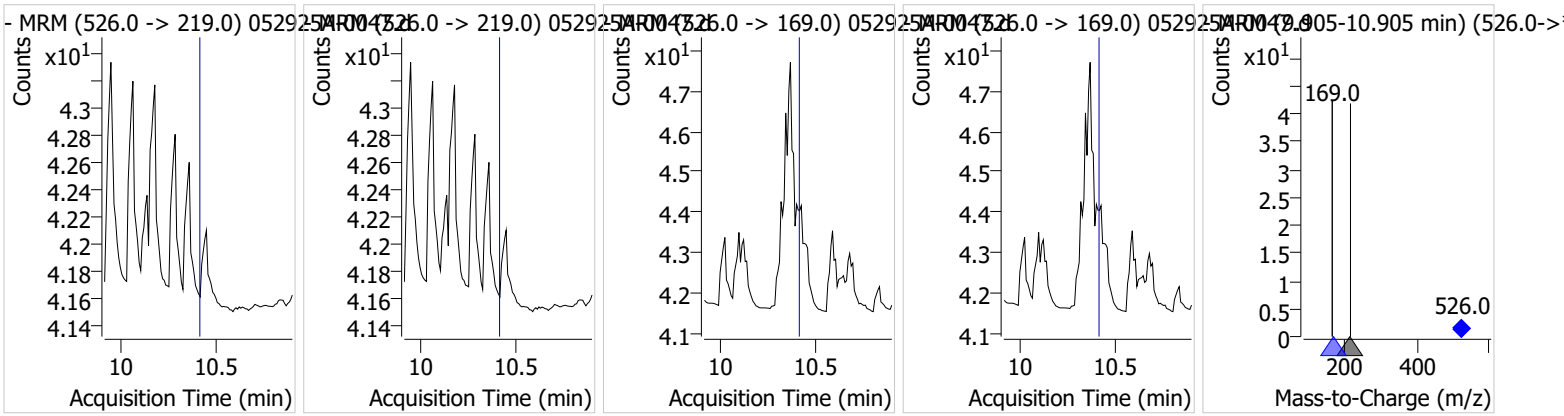
D3-NMeFOSA_ISTD



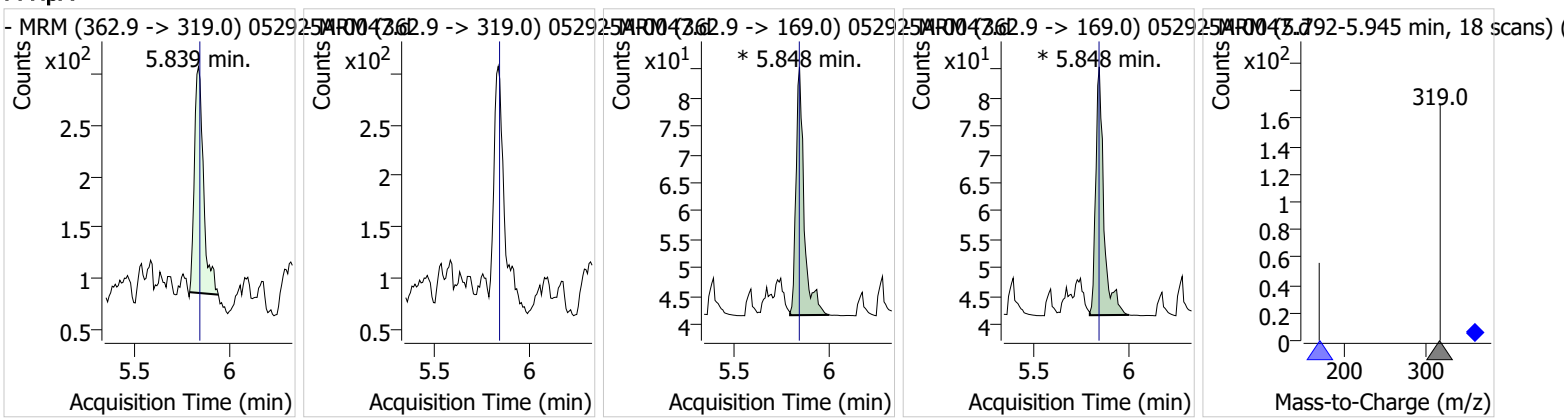
PFDoA



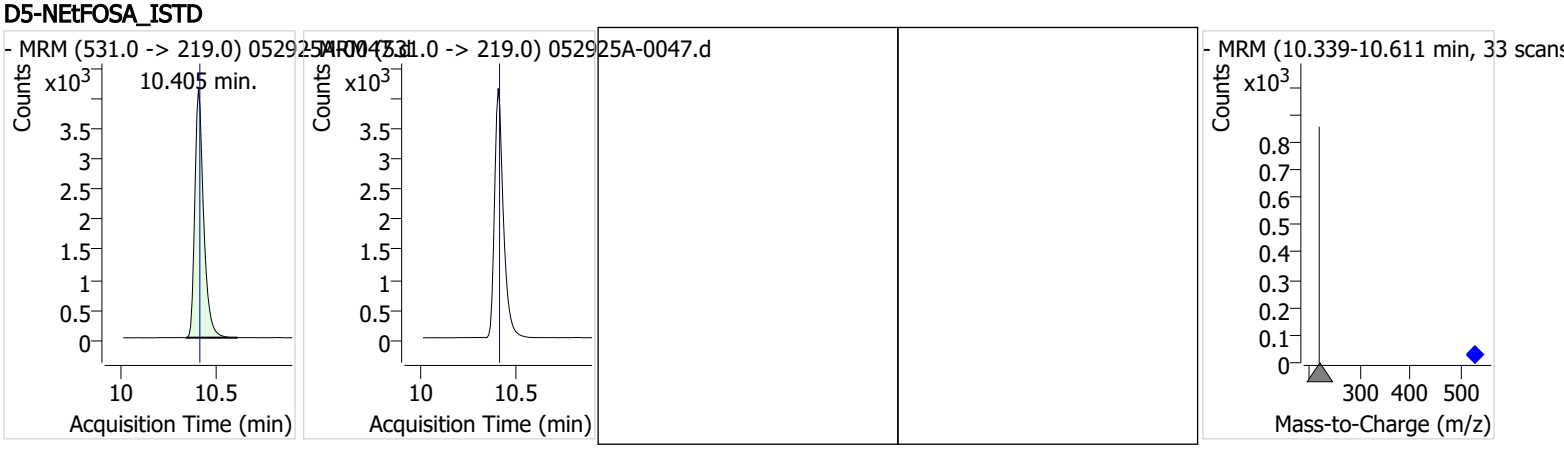
NEtFOSA



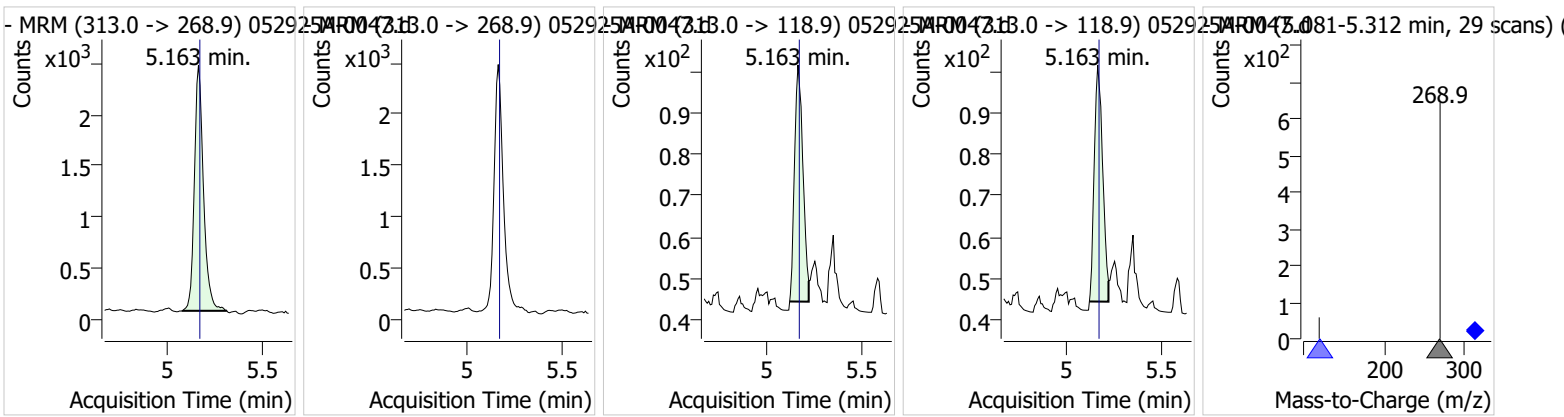
PFHpA



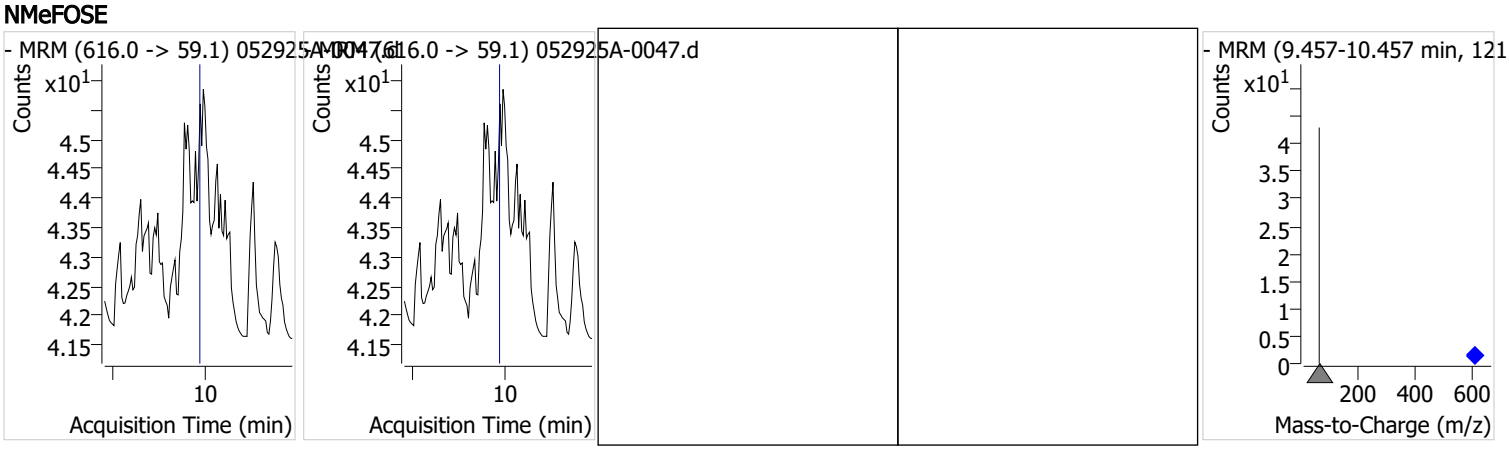
D5-NEtFOSA_ISTD



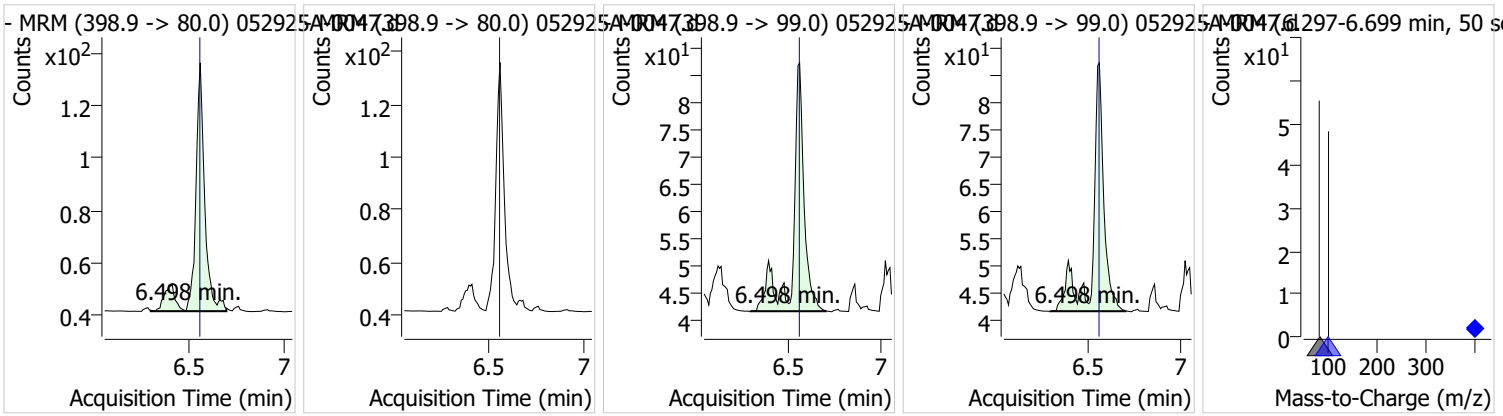
PFHxA



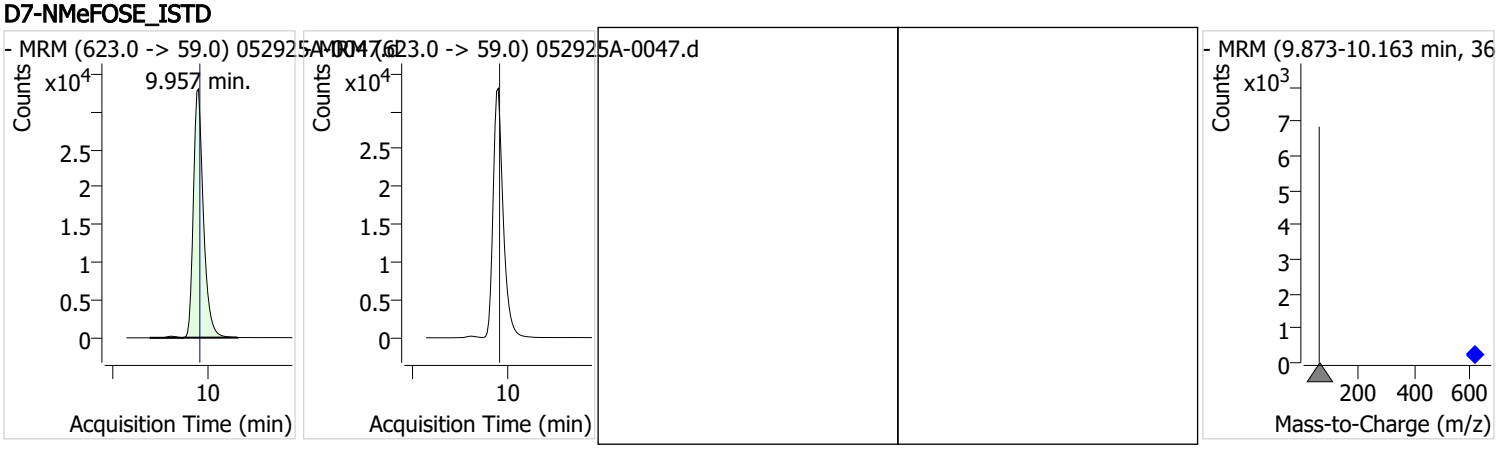
NMeFOSE



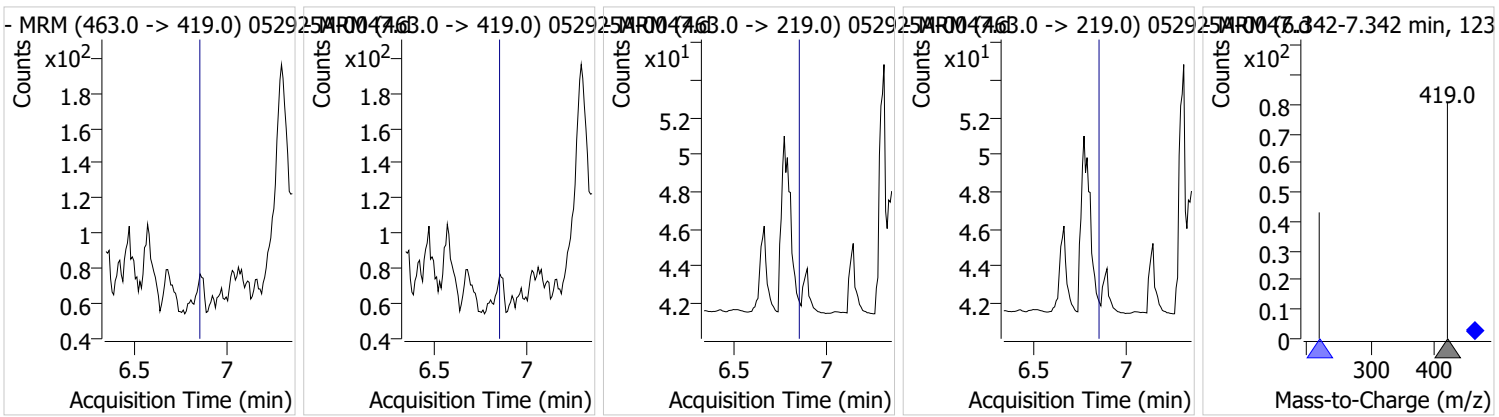
PFHxS



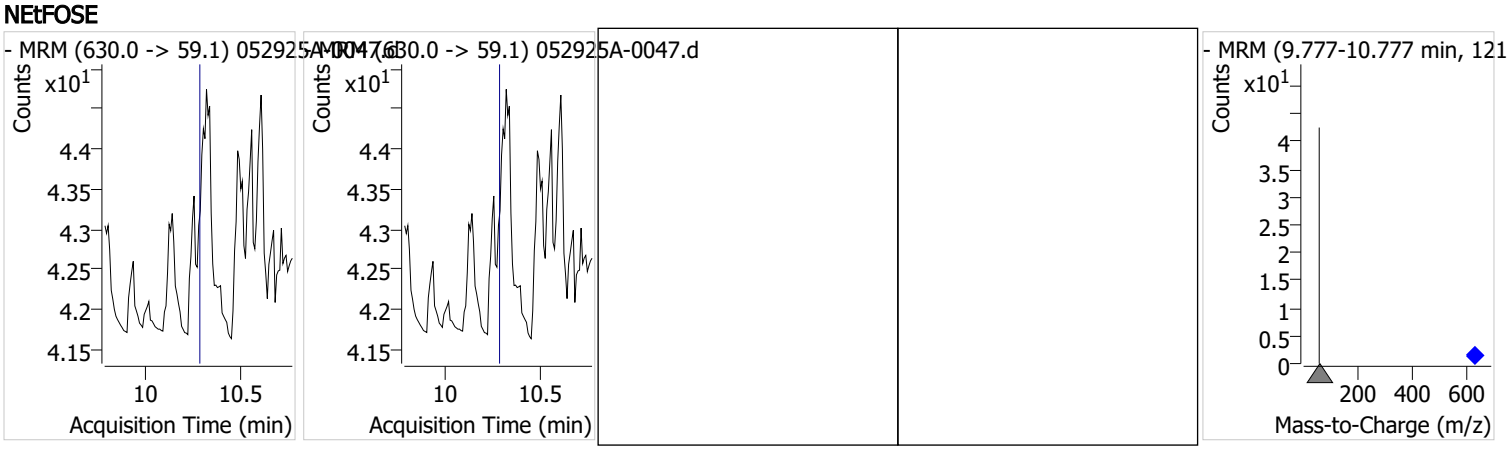
D7-NMeFOSE_ISTD



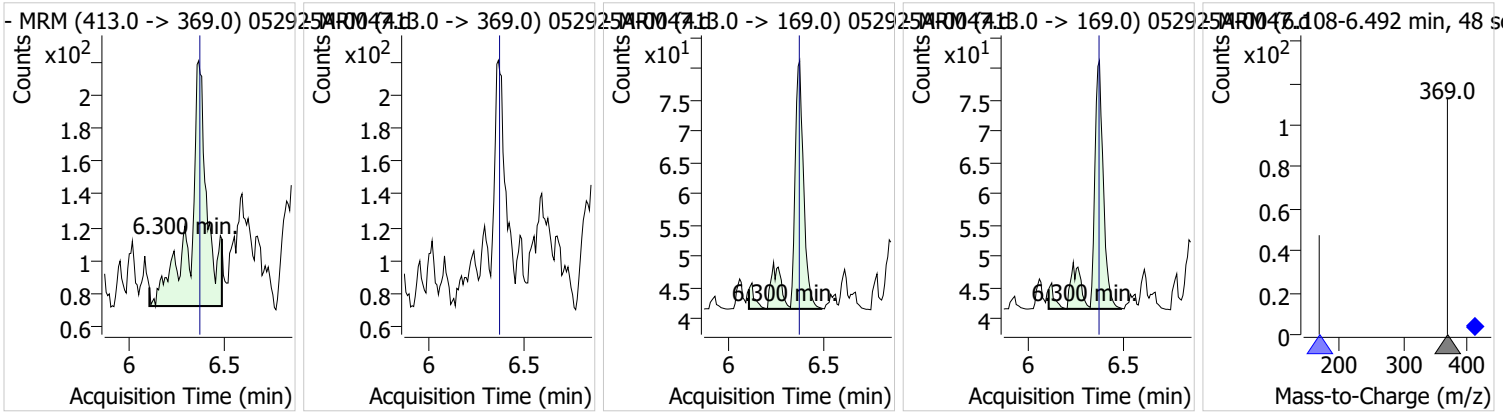
PFNA



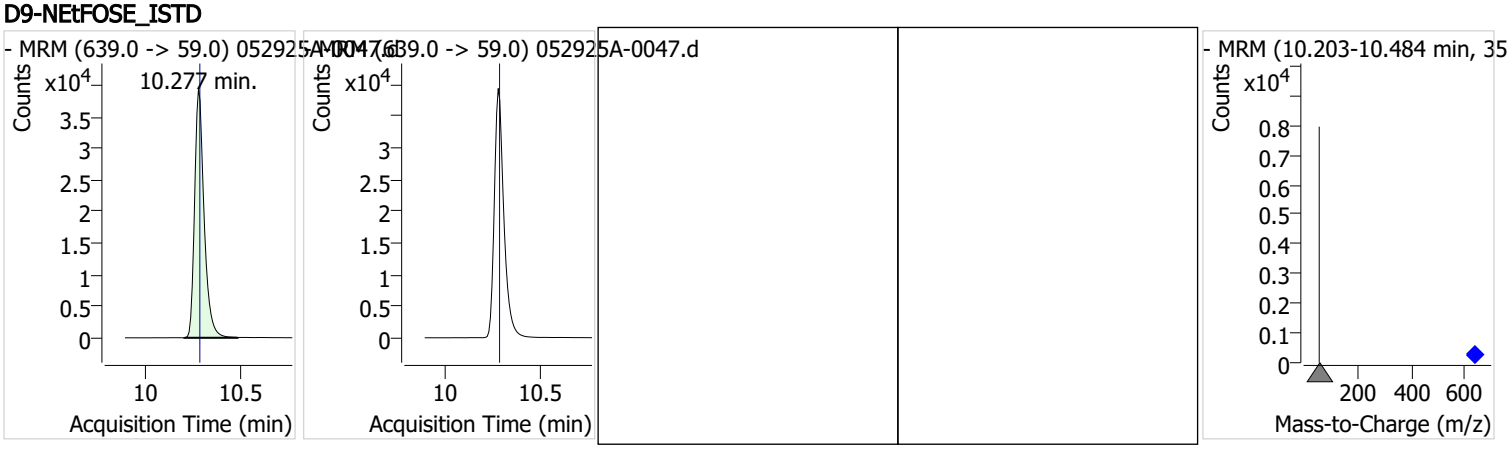
NEtFOSE



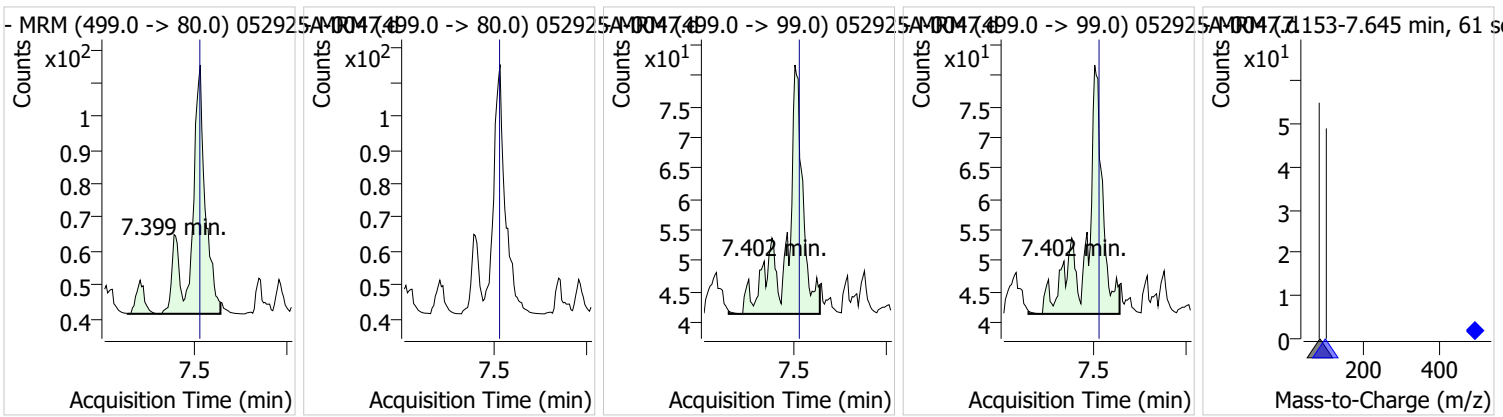
PFOA



D9-NEtFOSE_ISTD



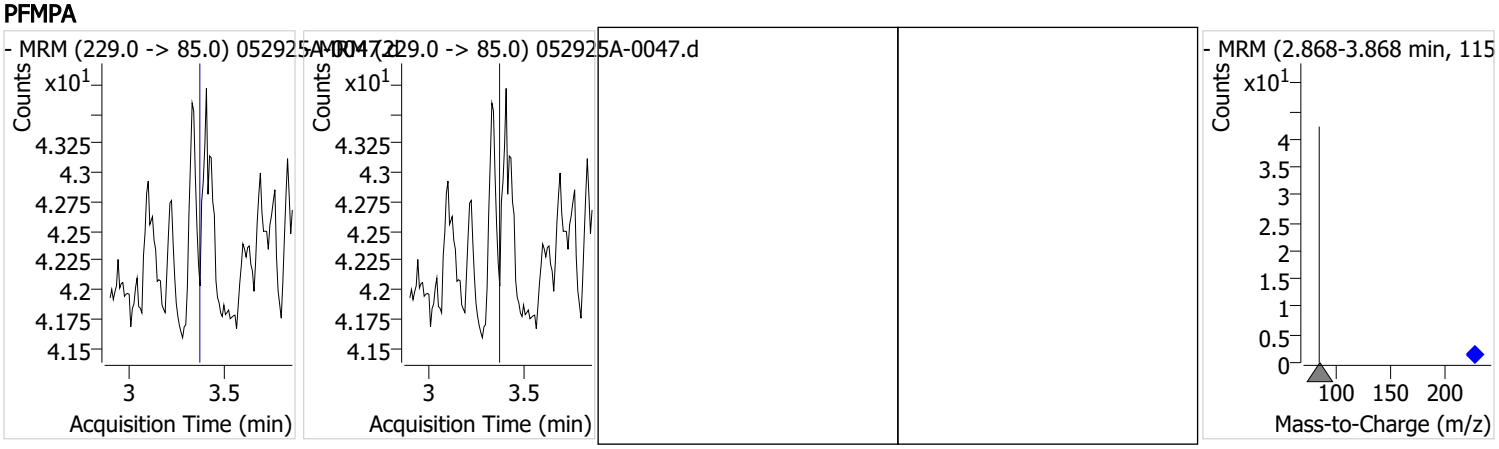
PFOS



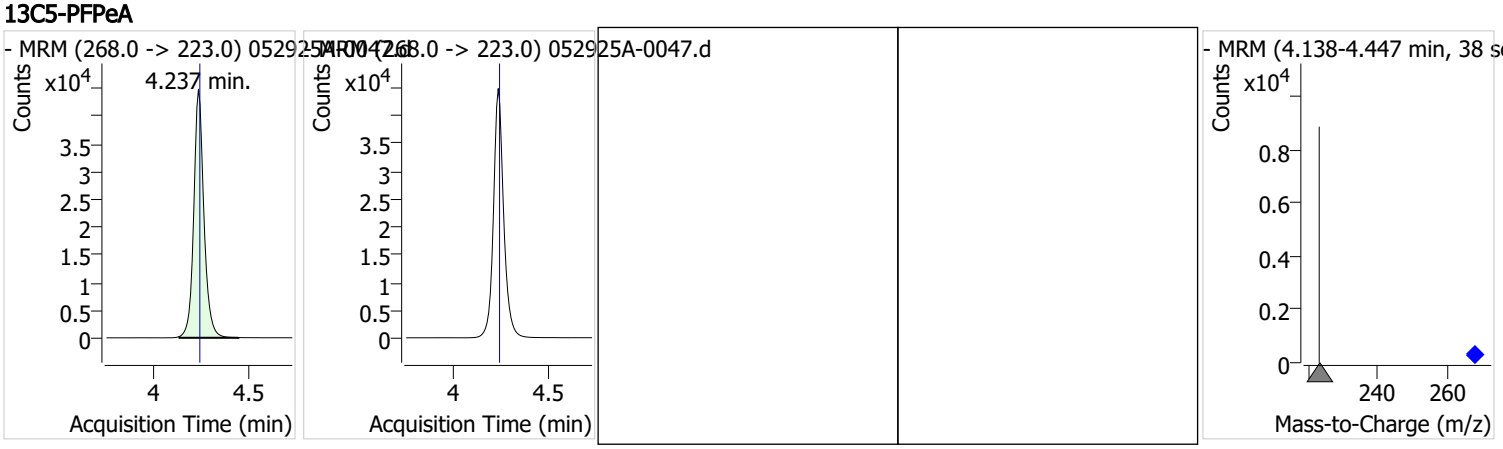
PFPeA



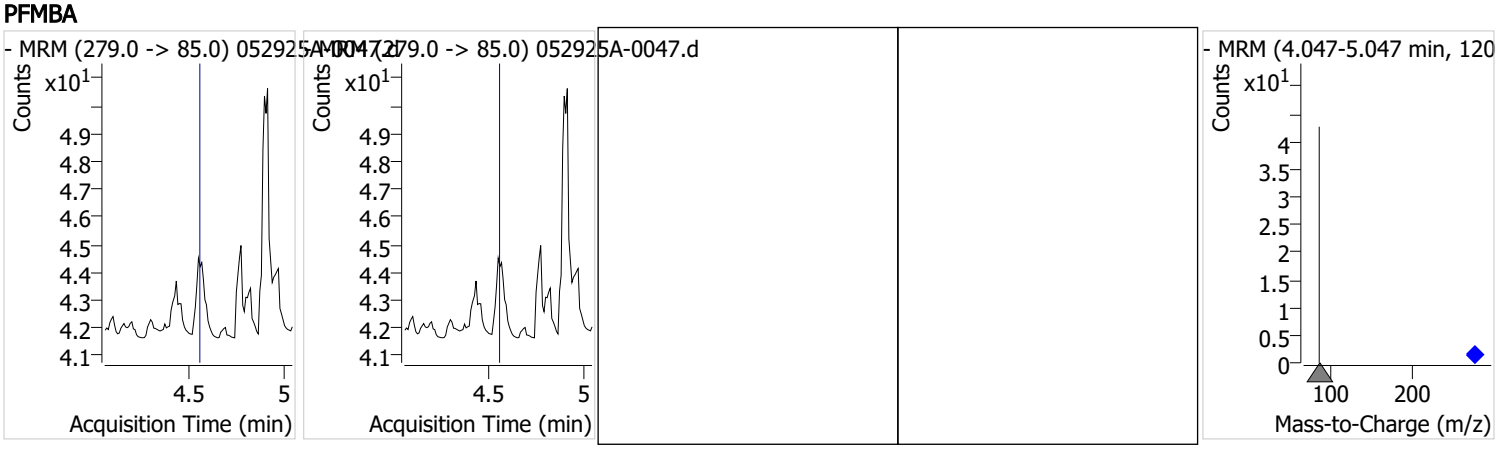
PFMPA



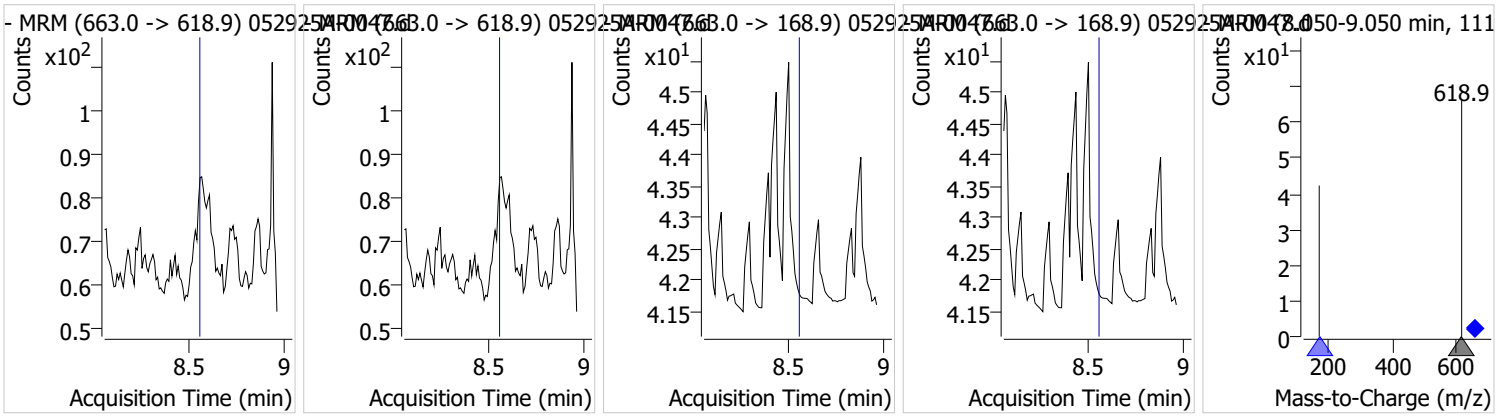
13C5-PFPeA



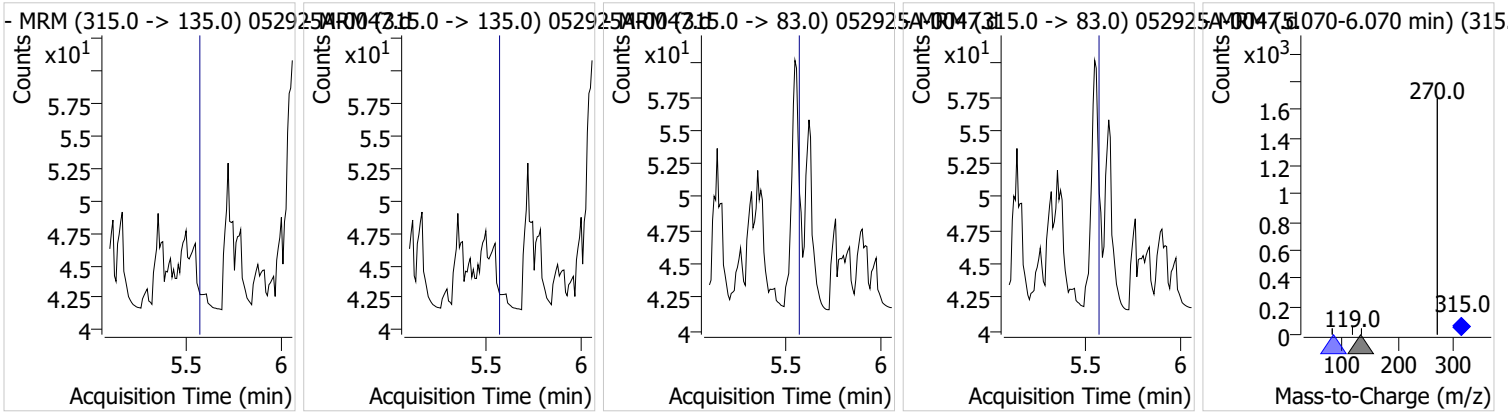
PFMBA



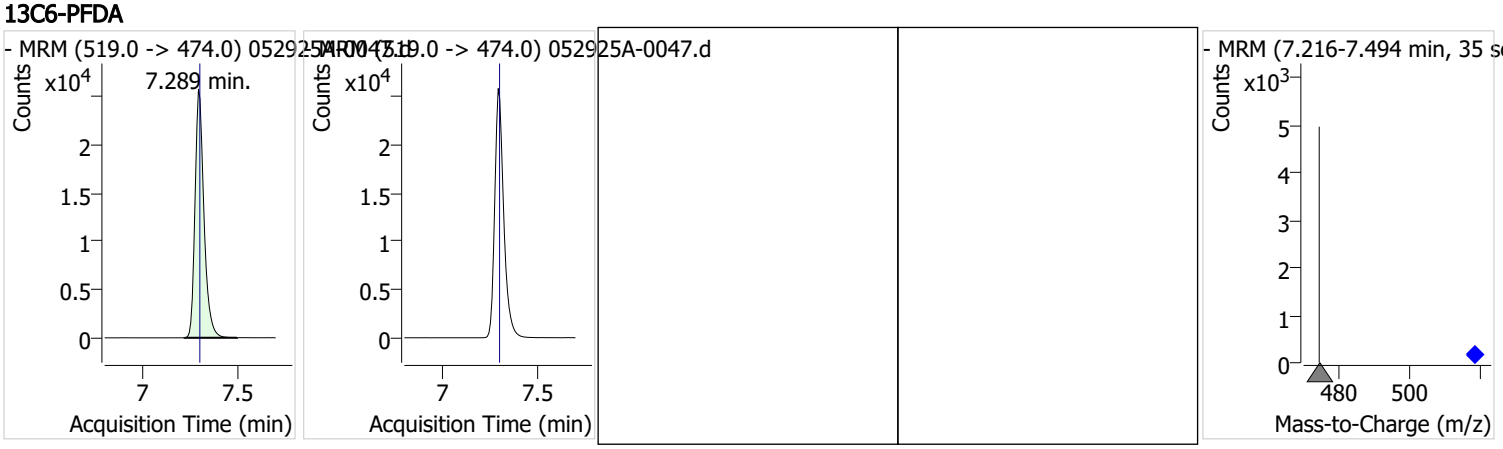
PFTrDA



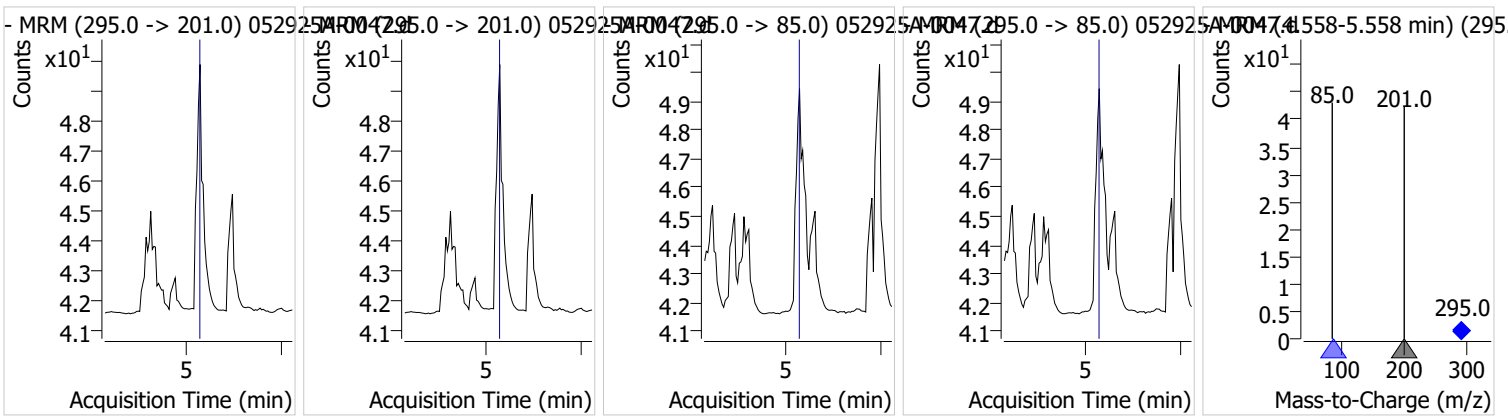
PFEESA



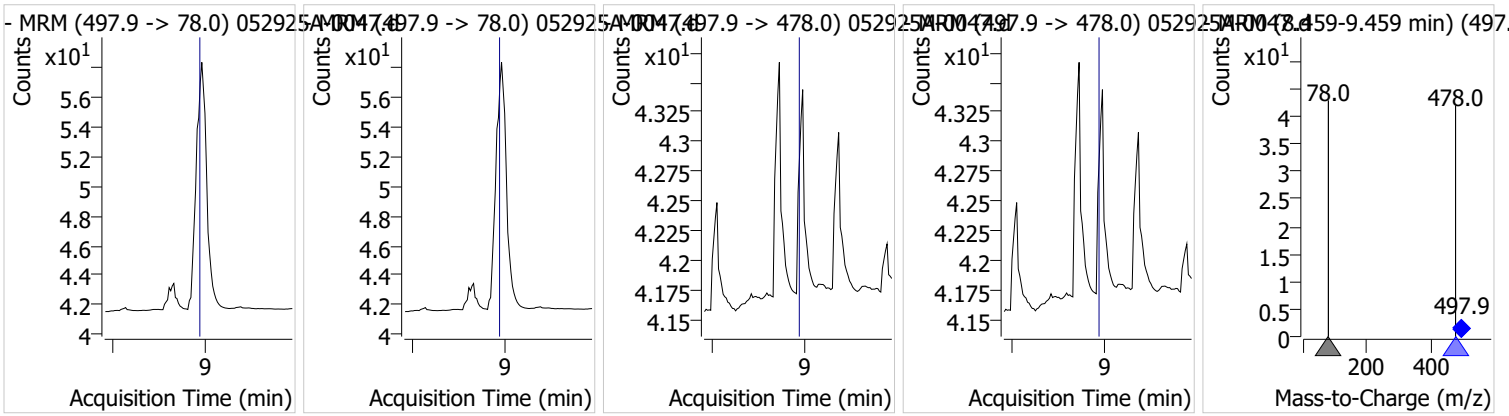
13C6-PFDA



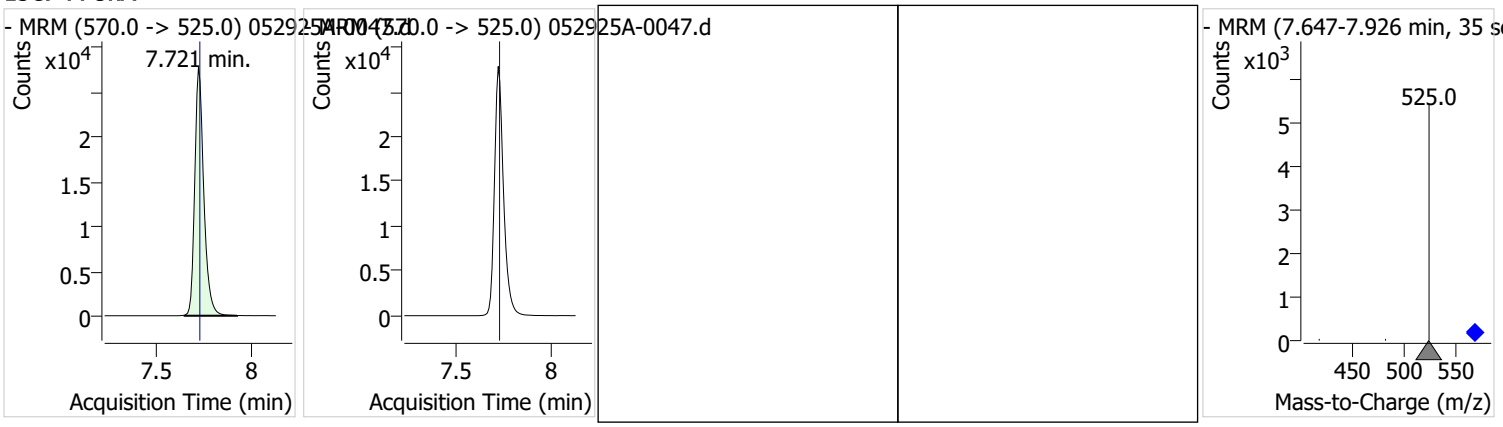
NFDHA



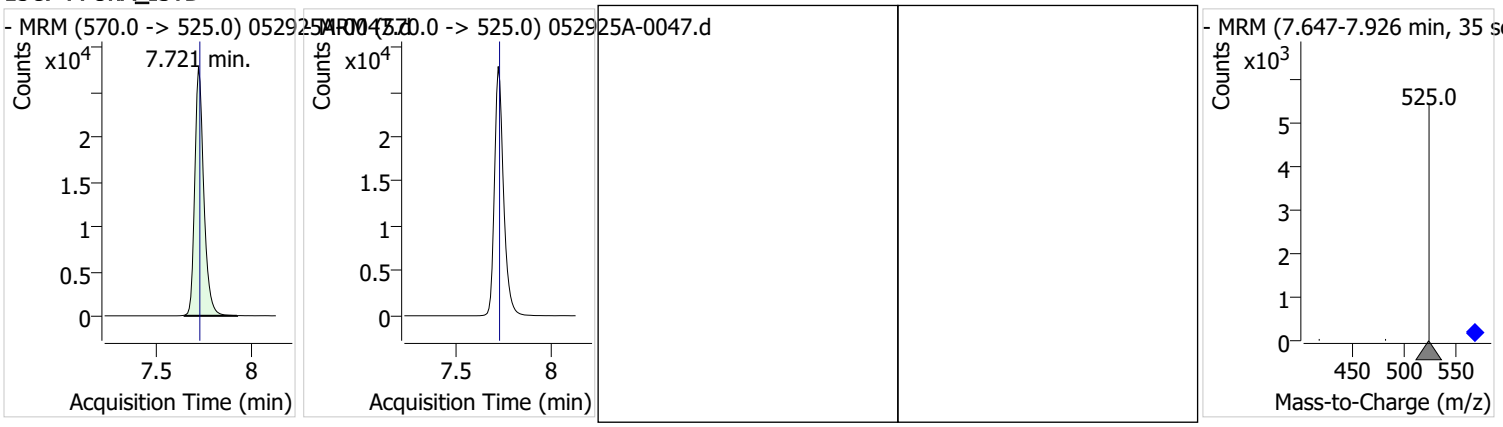
PFOSA



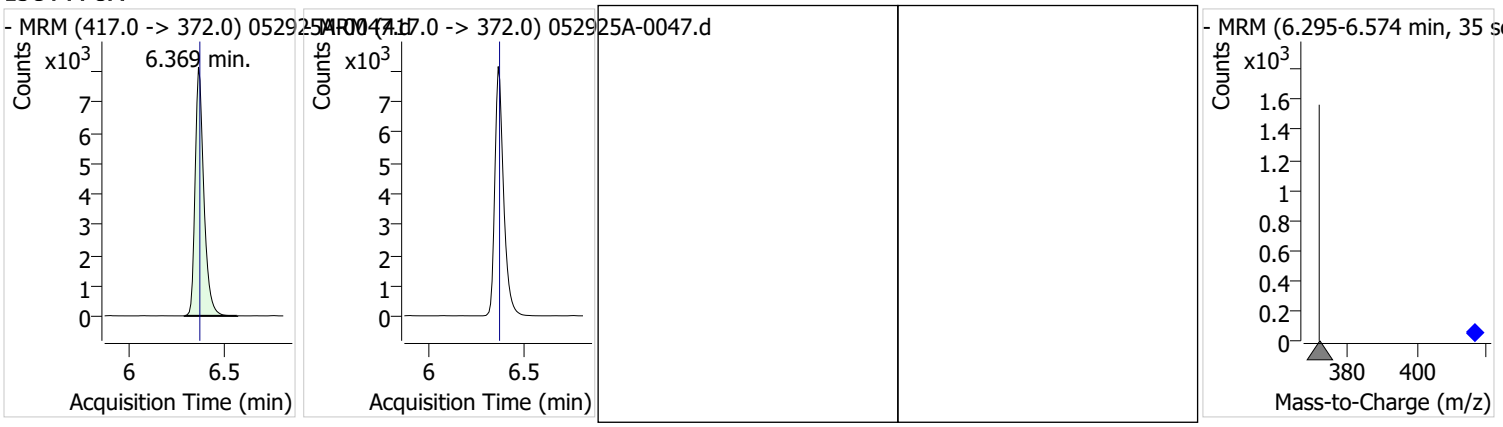
13C7-PFUnA



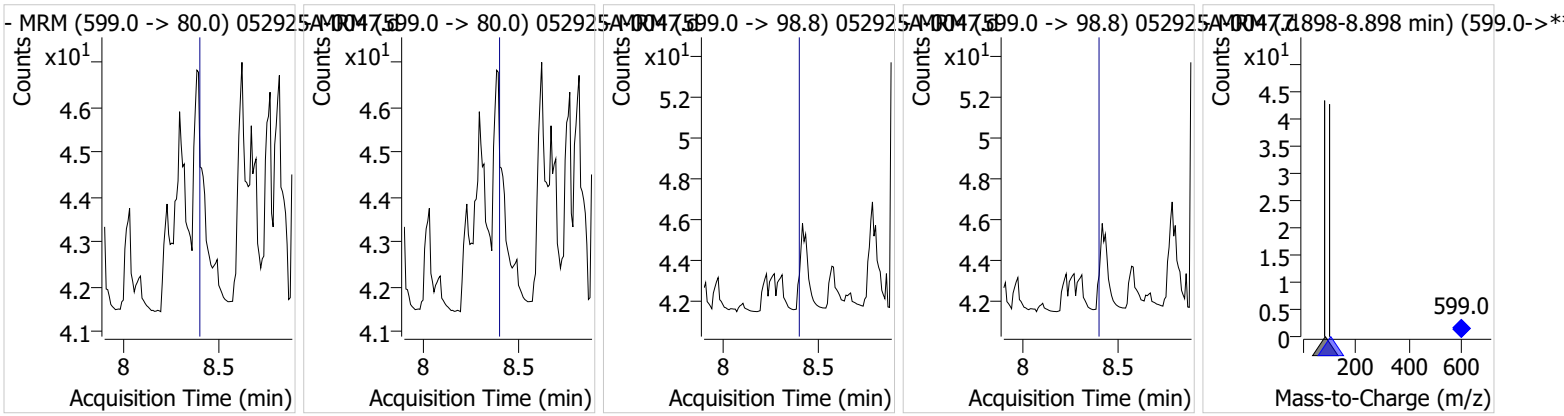
13C7-PFUnA_ISTD



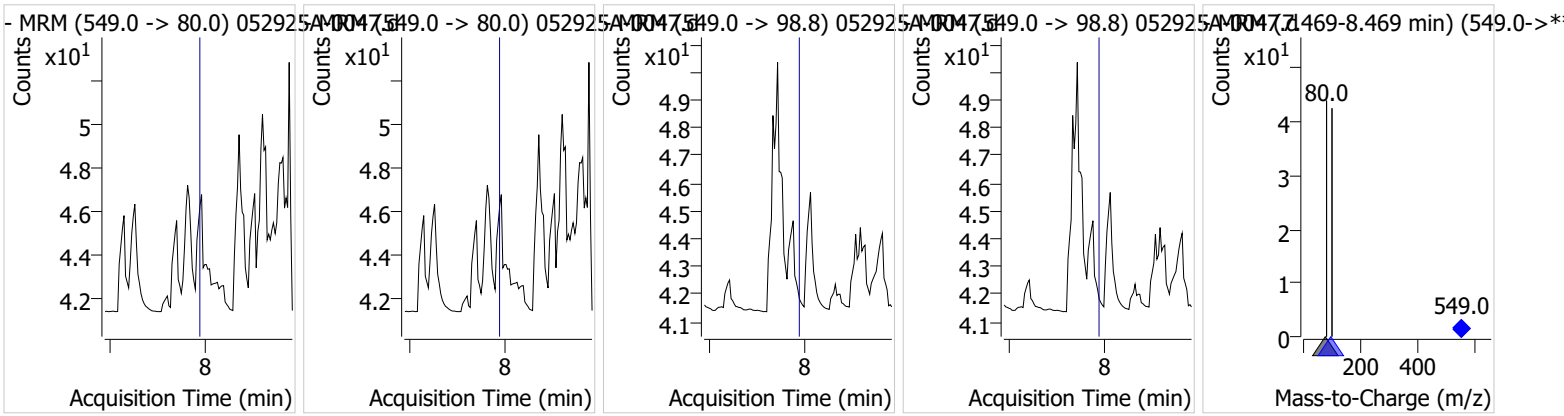
13C4-PFOA



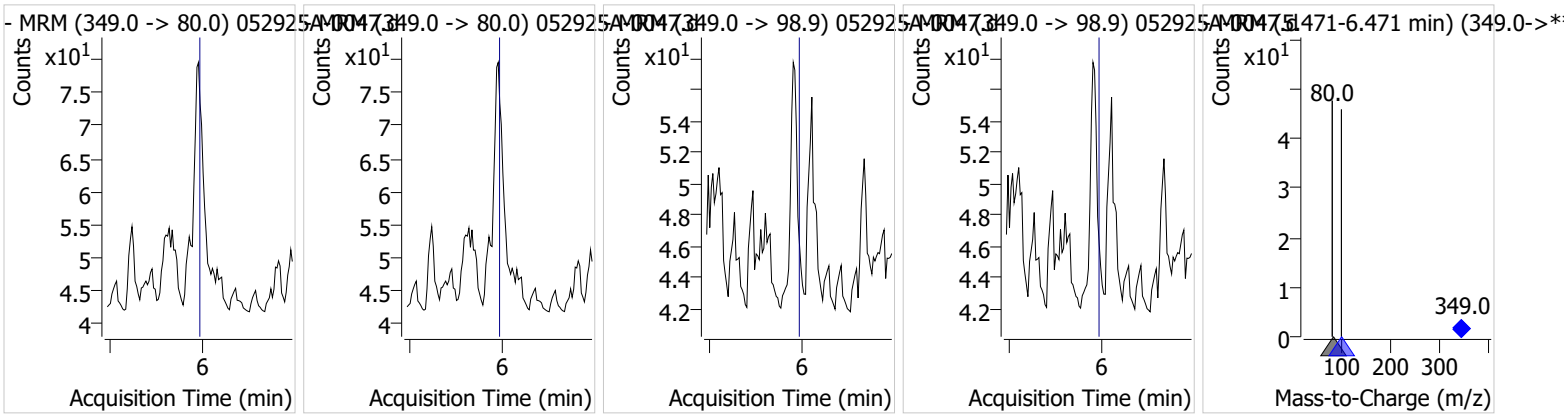
PFDS



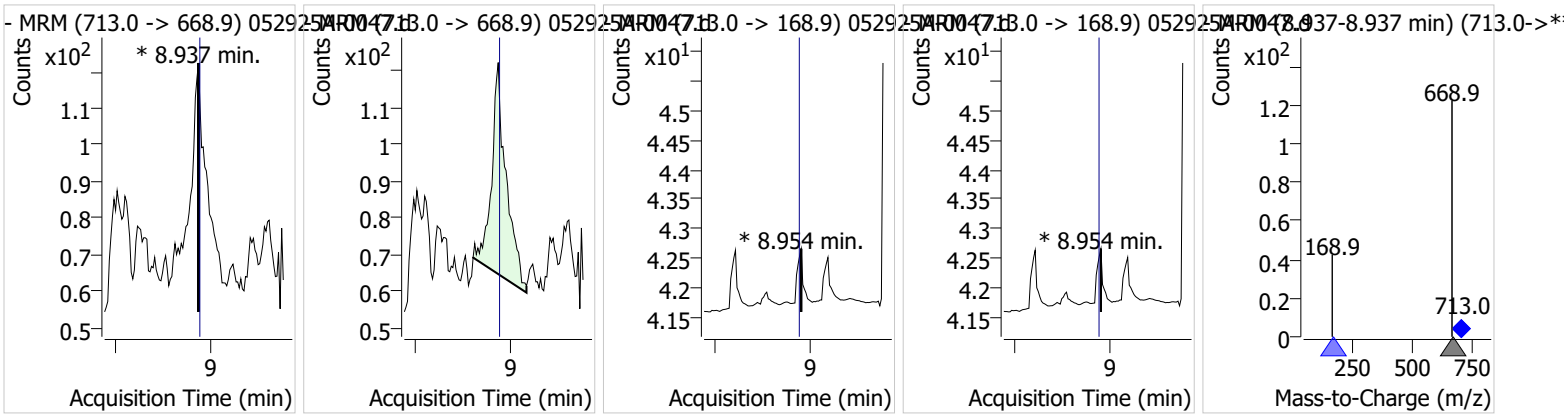
PFNS



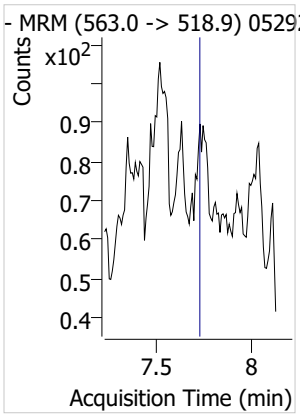
PFPeS

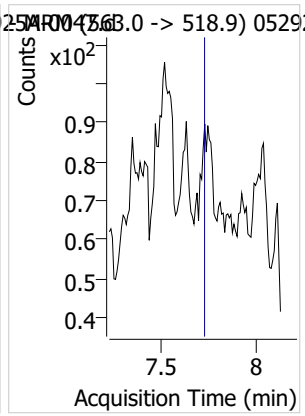


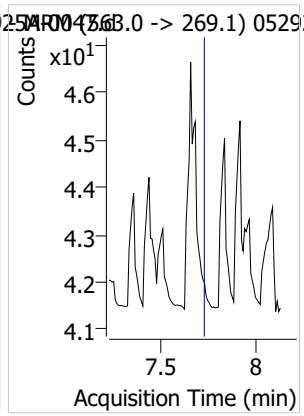
PFTeDA

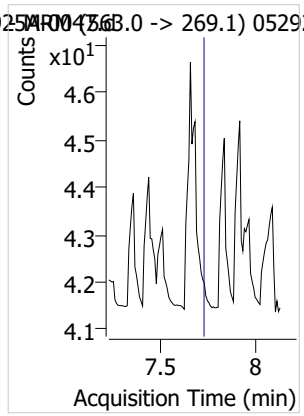


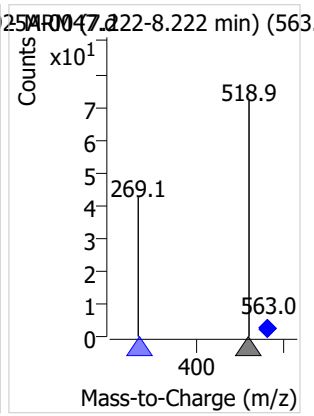
PFUnA



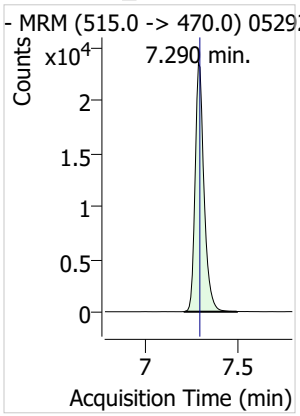


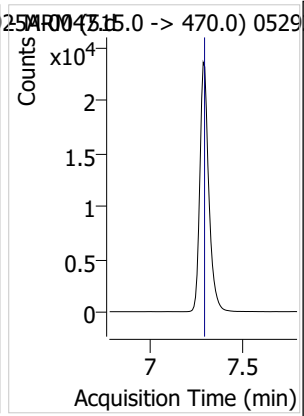


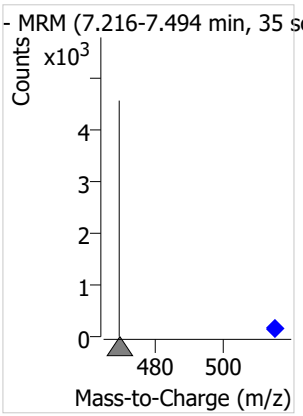




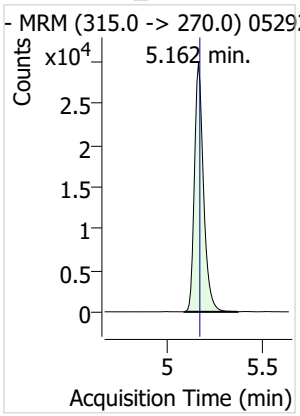
13C2-PFDA_ISTD

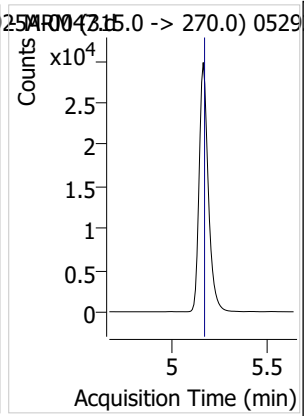


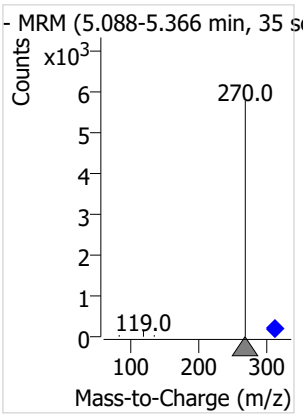




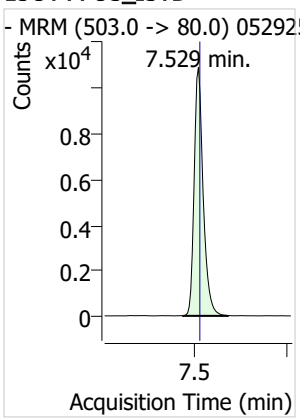
13C2-PFHxA_ISTD

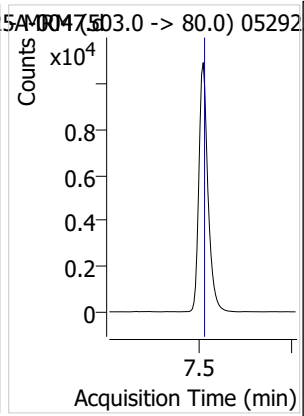


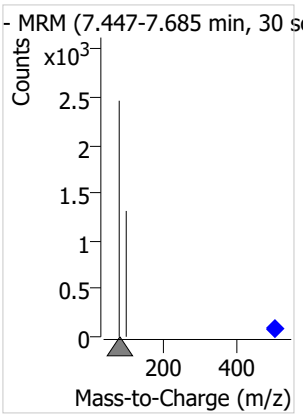




13C4-PFOS_ISTD



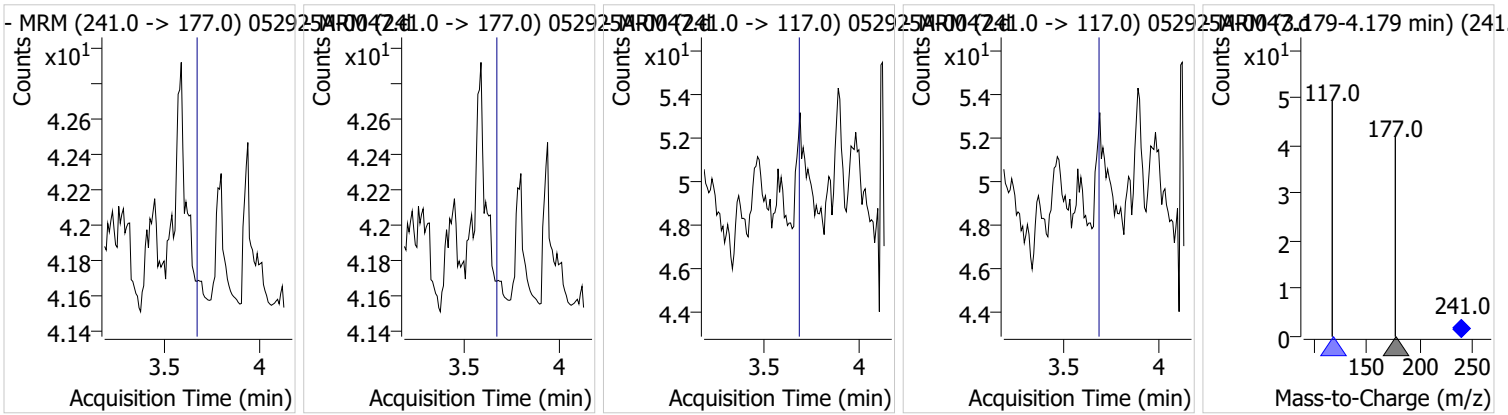




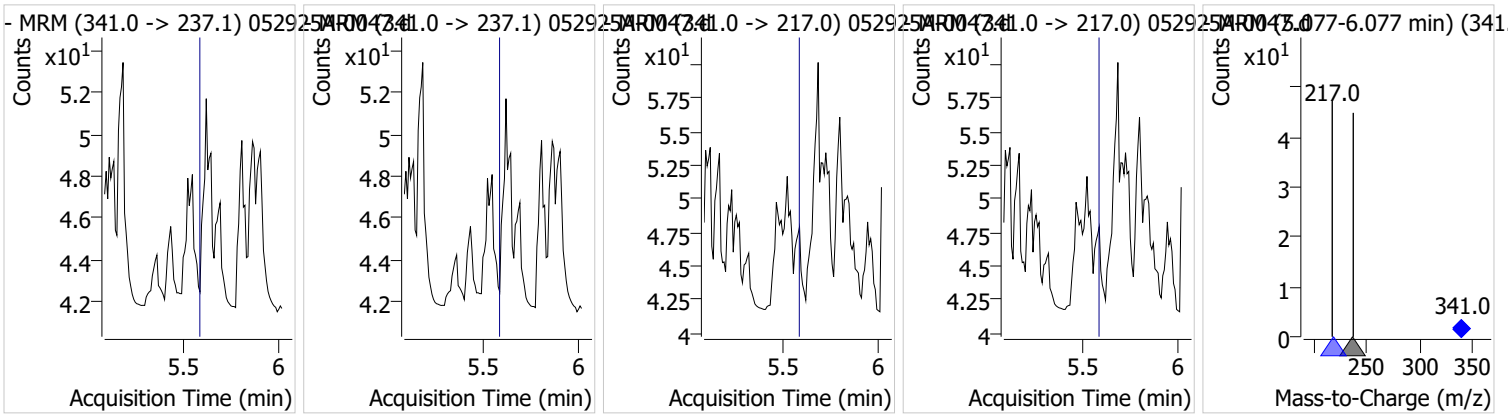
13C3-PFBA



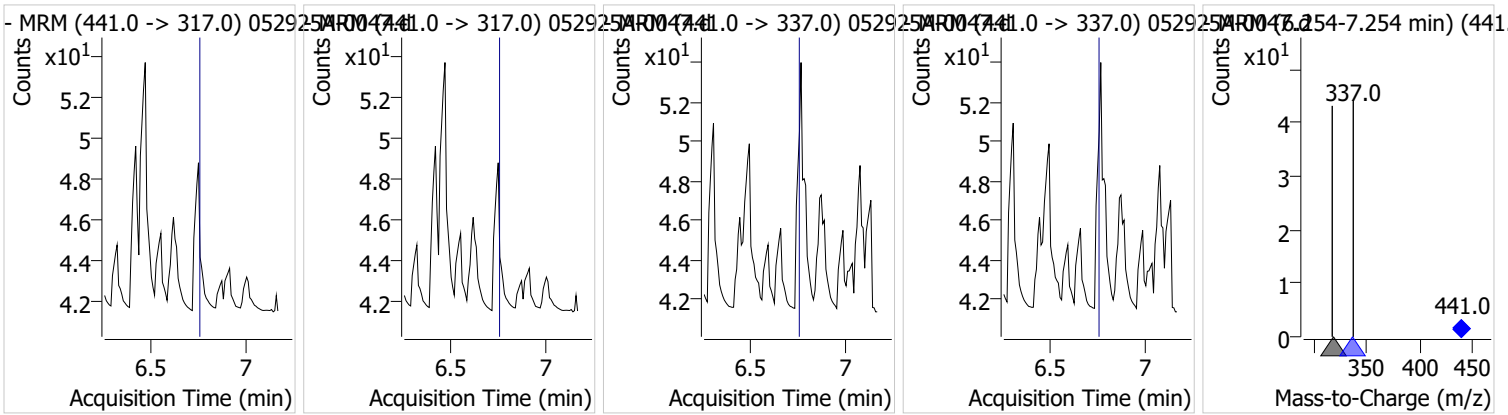
3:3FTCA



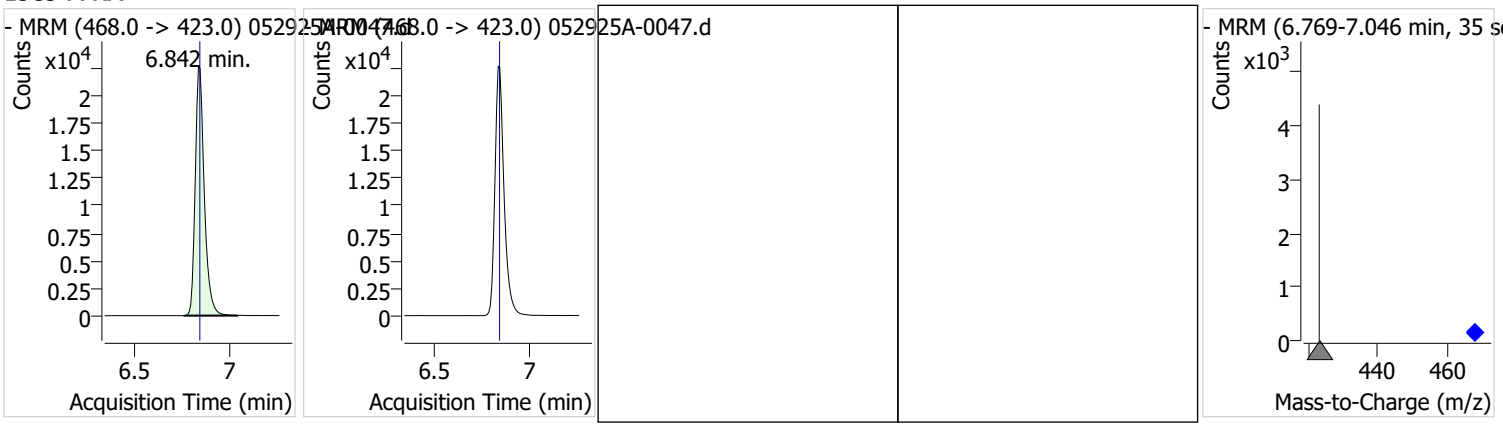
5:3FTCA



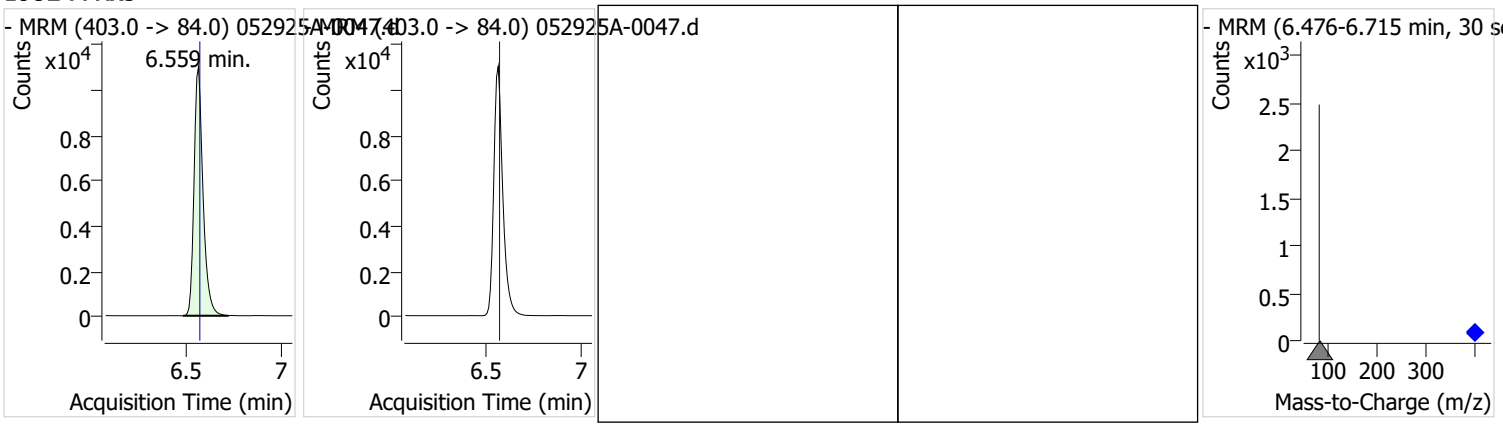
7:3FTCA



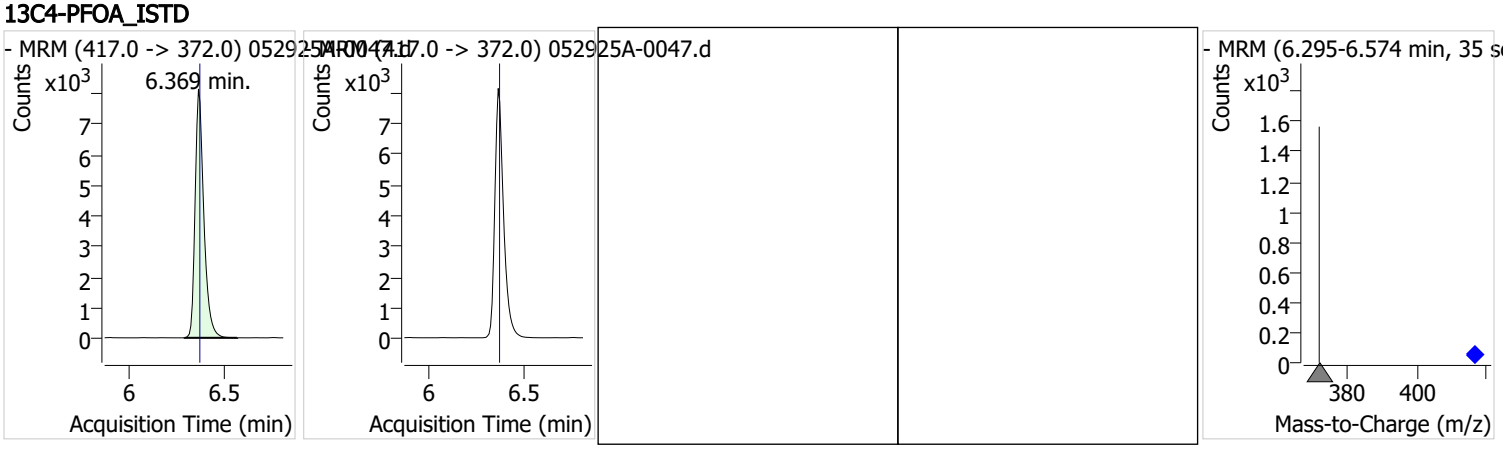
13C5-PFNA



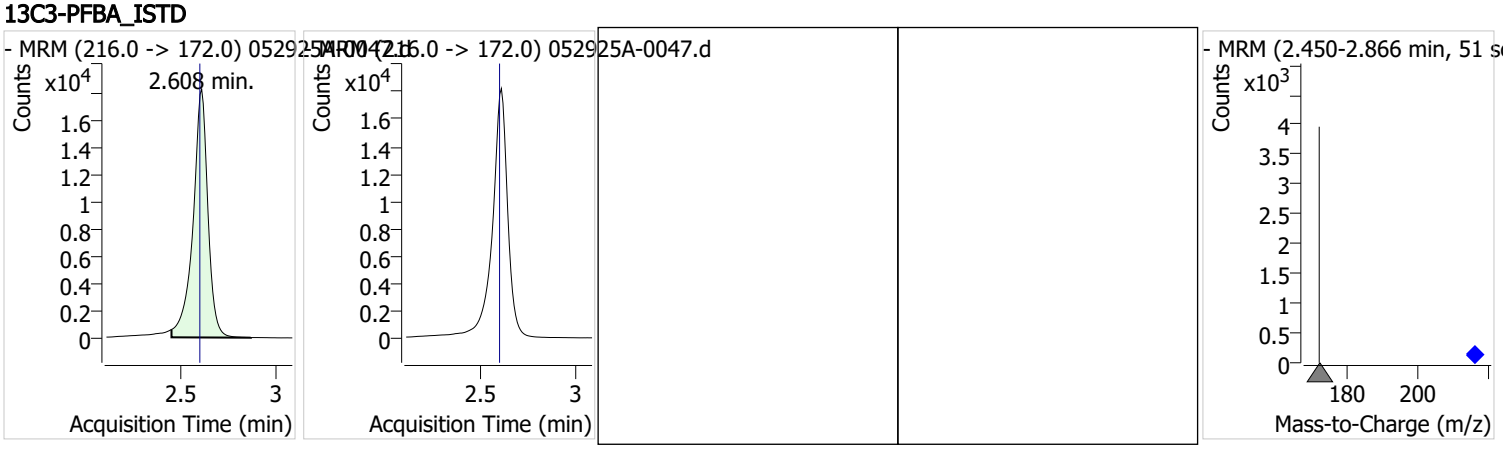
18O2-PFHxS



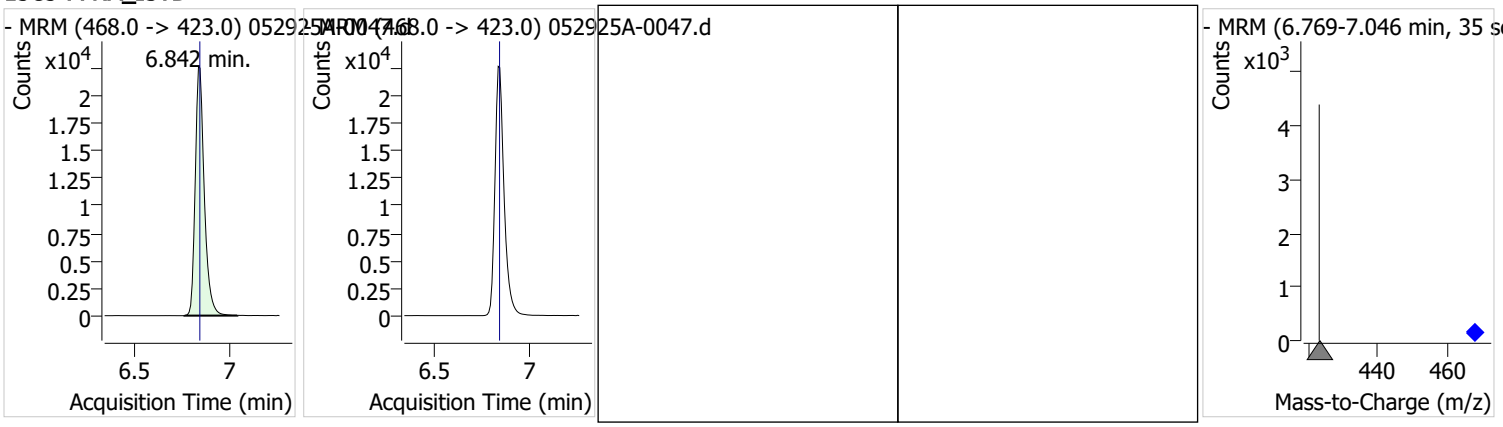
13C4-PFOA_ISTD



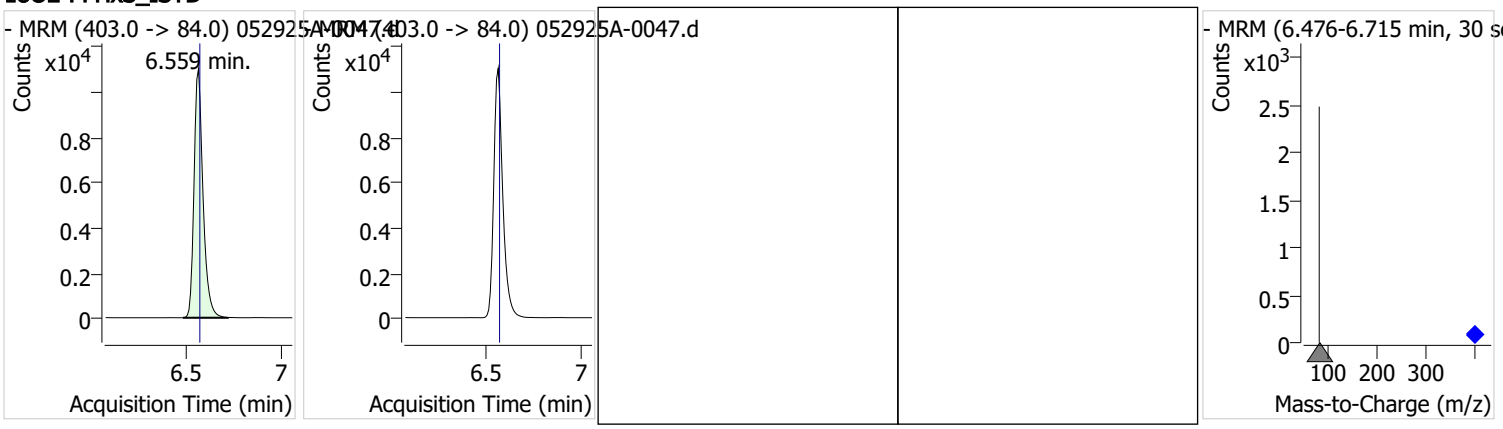
13C3-PFBA_ISTD



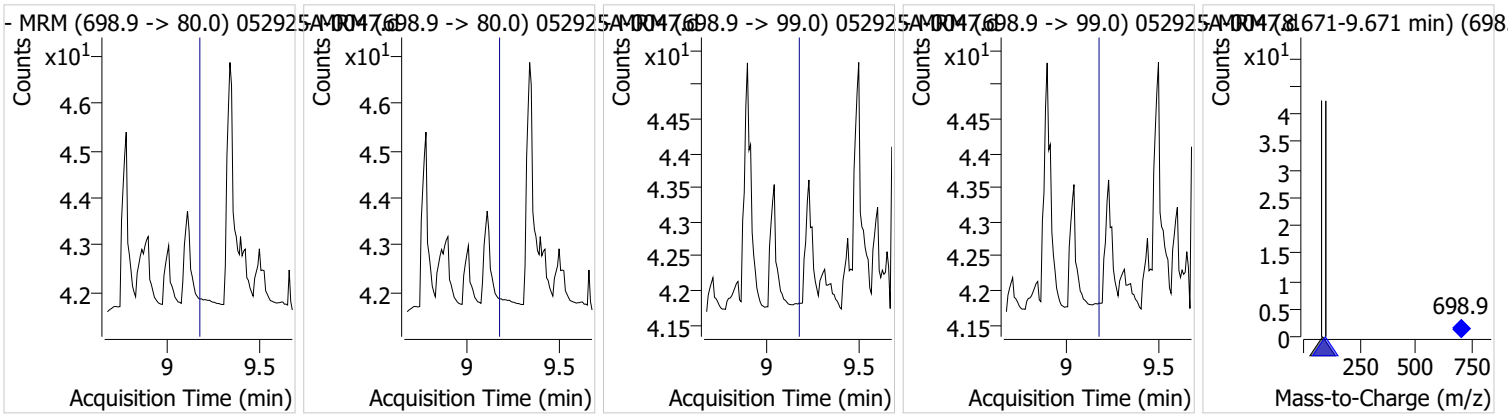
13C5-PFNA_ISTD



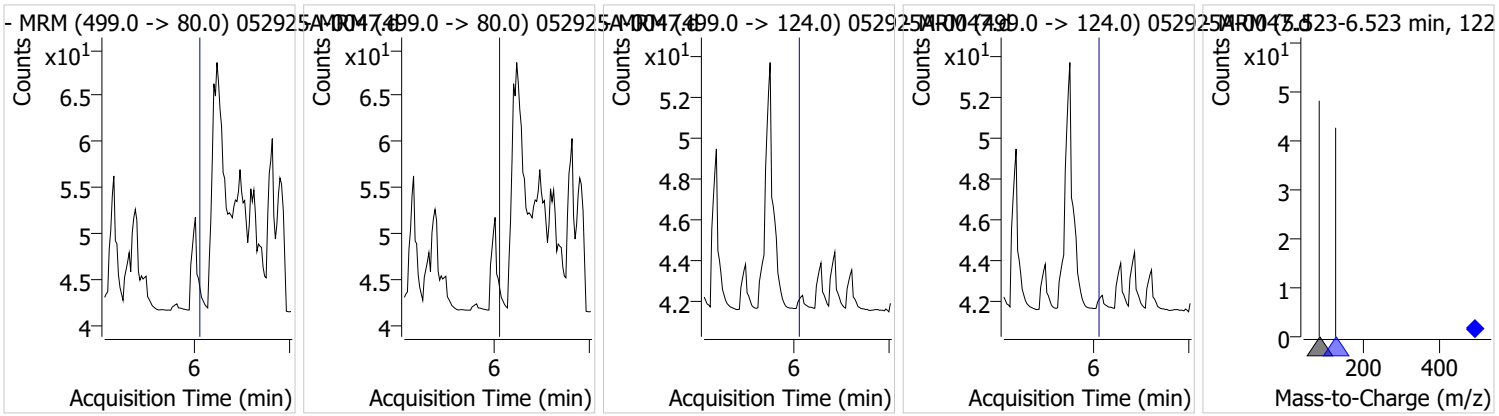
18O2-PFHxS_ISTD



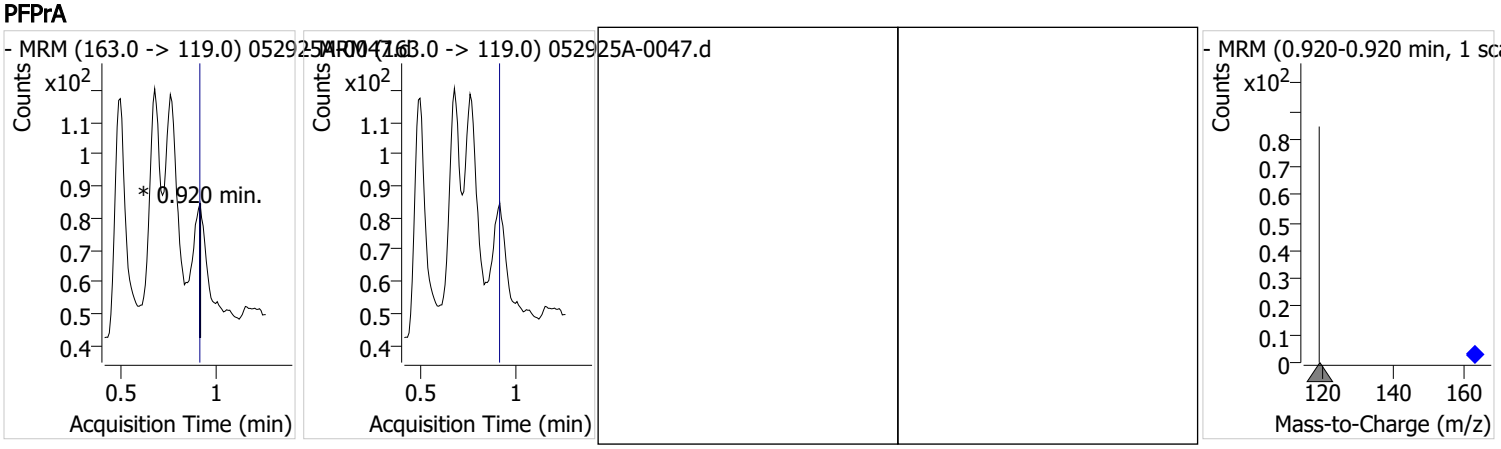
PFDoS



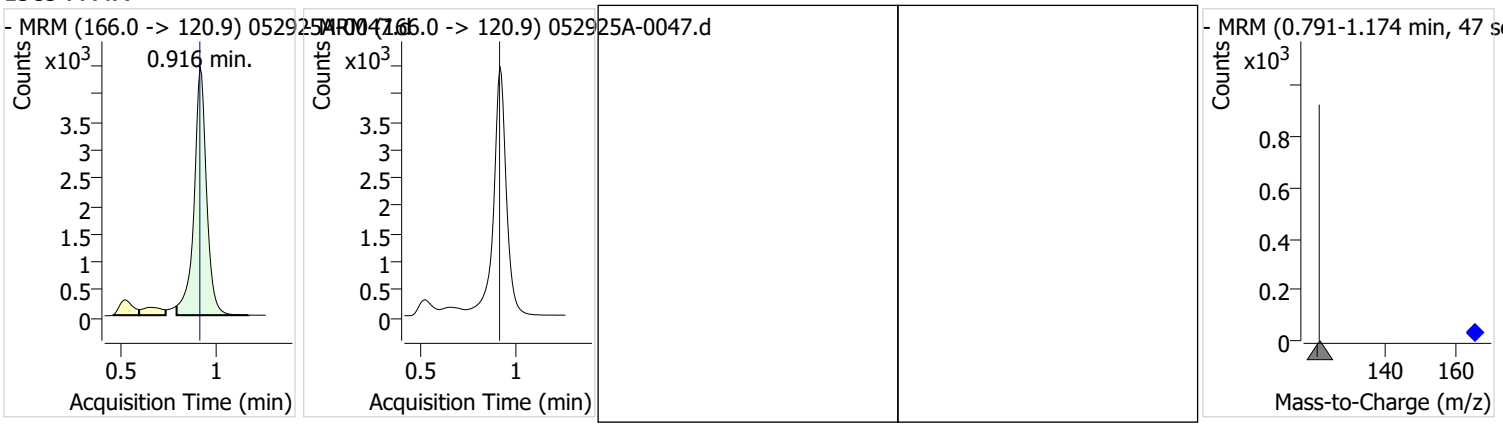
TDCA



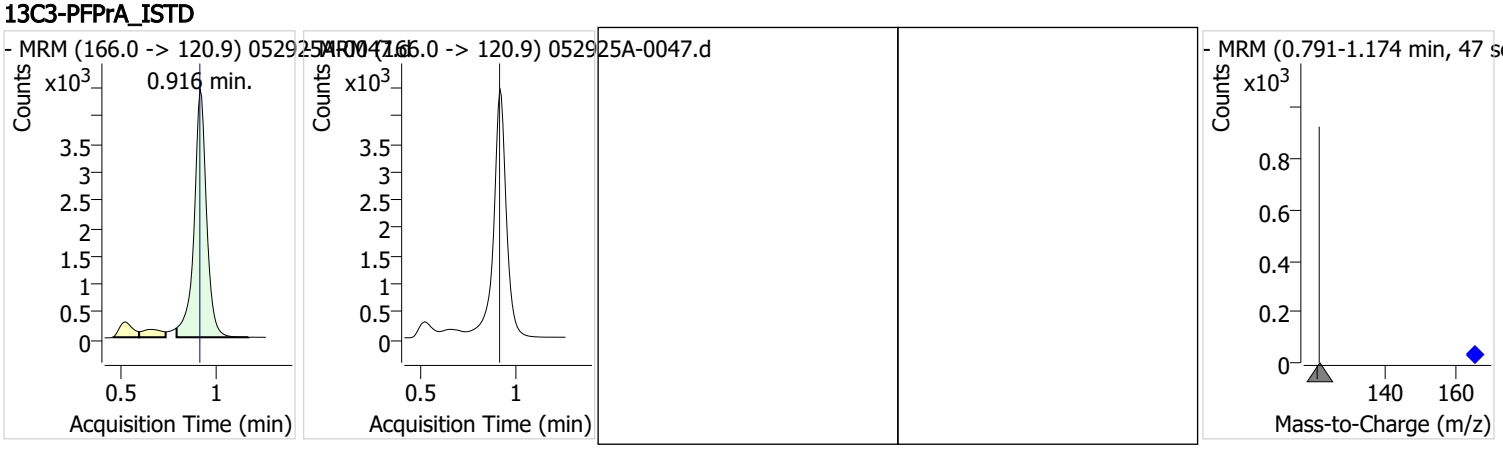
PFPrA



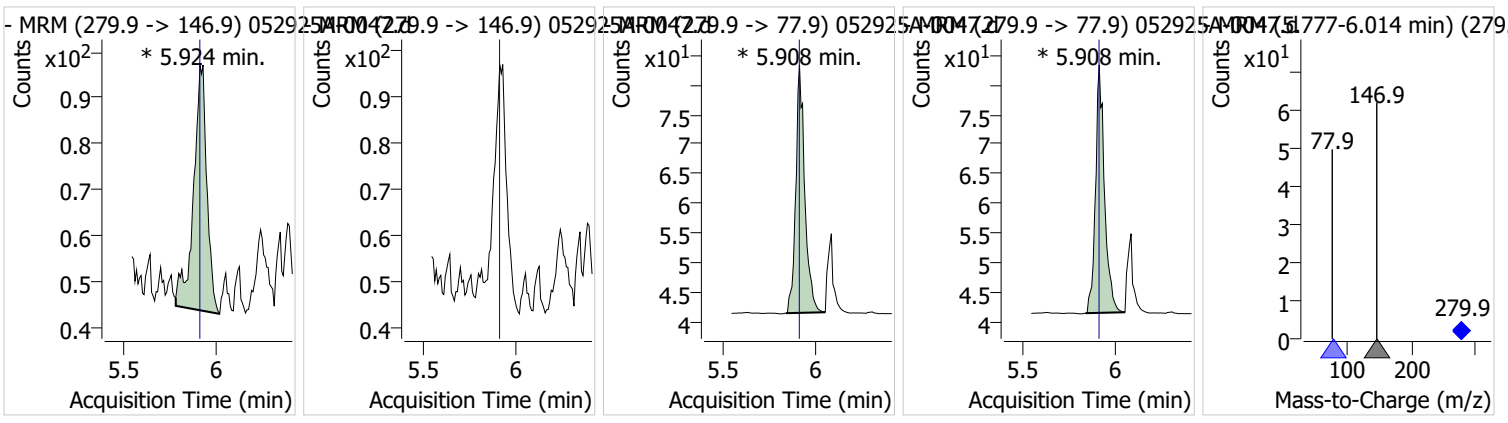
13C3-PFPrA



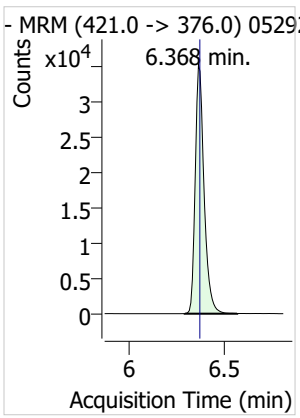
13C3-PFPrA_ISTD

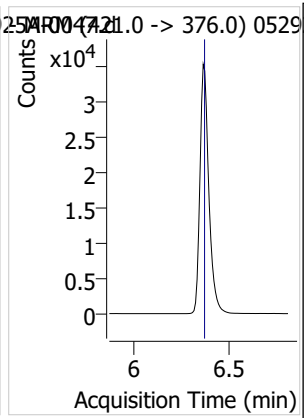


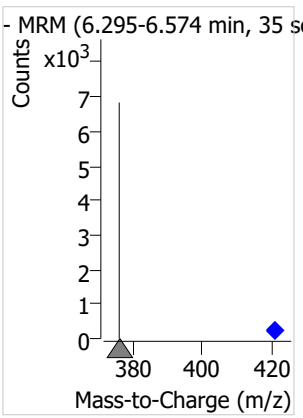
TFSI



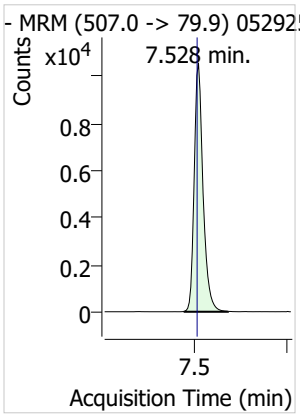
13C8-PFOA

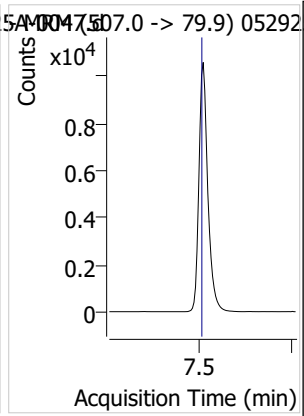


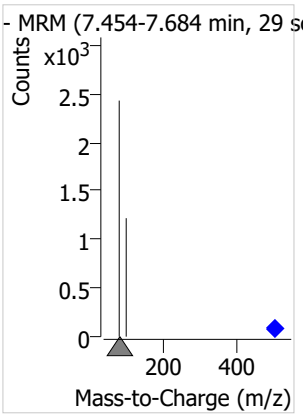




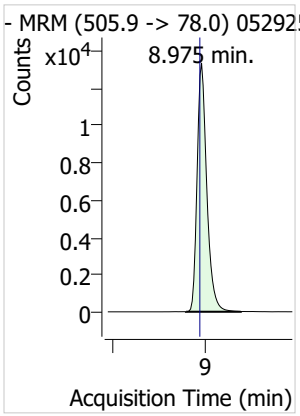
13C8-PFOS

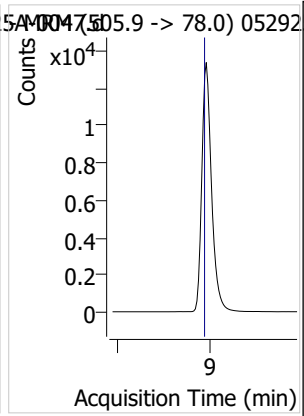


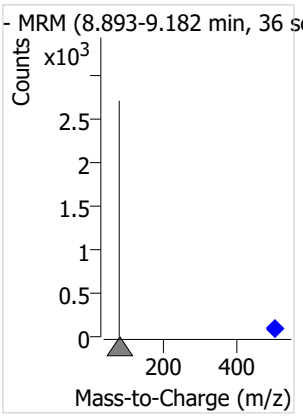




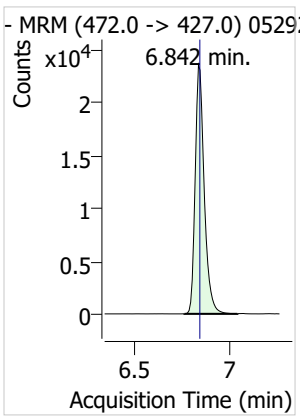
13C8-PFOSA

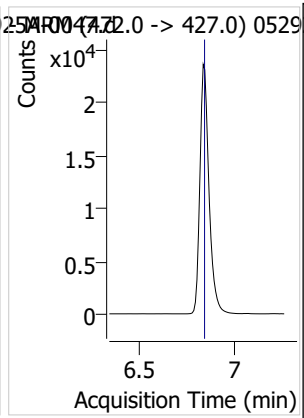


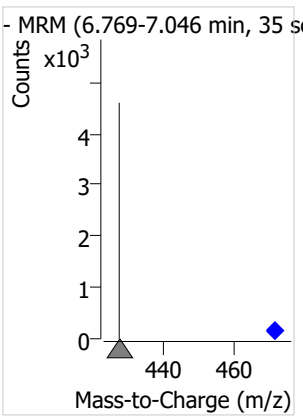




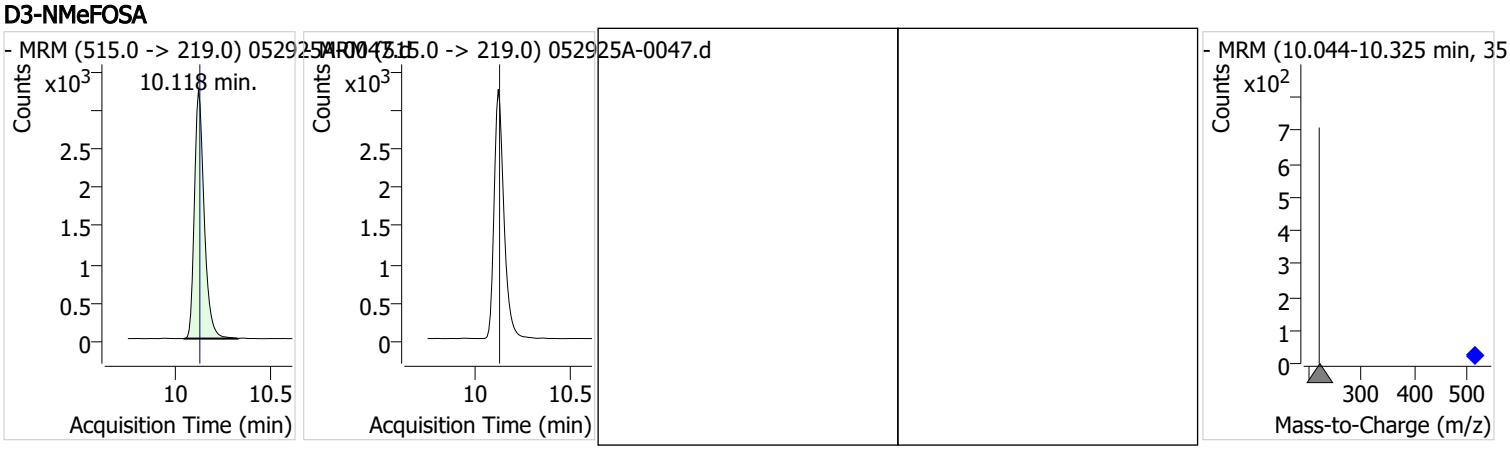
13C9-PFNA



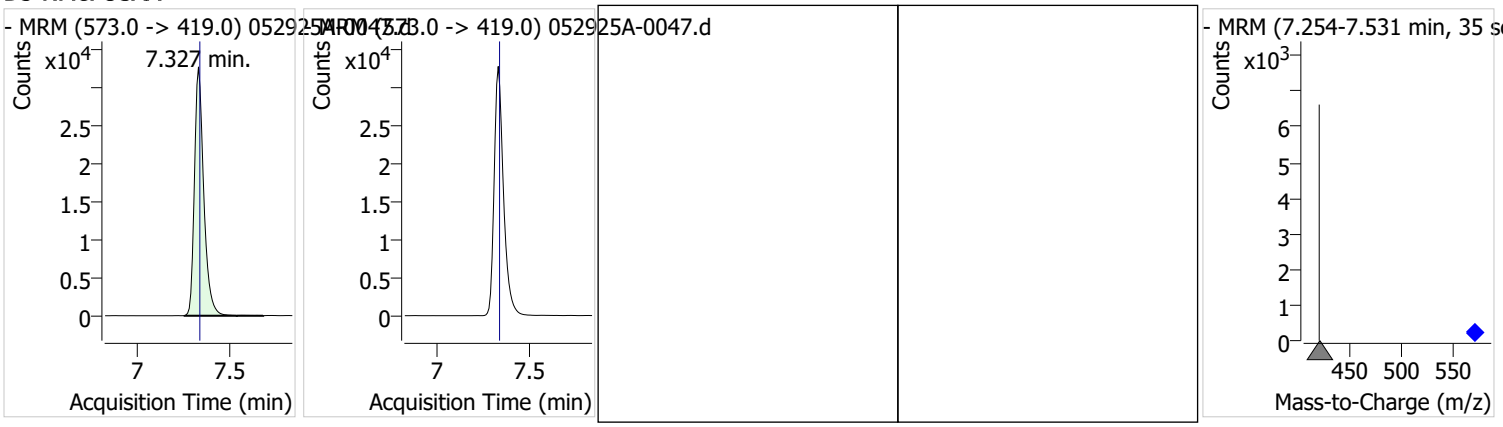




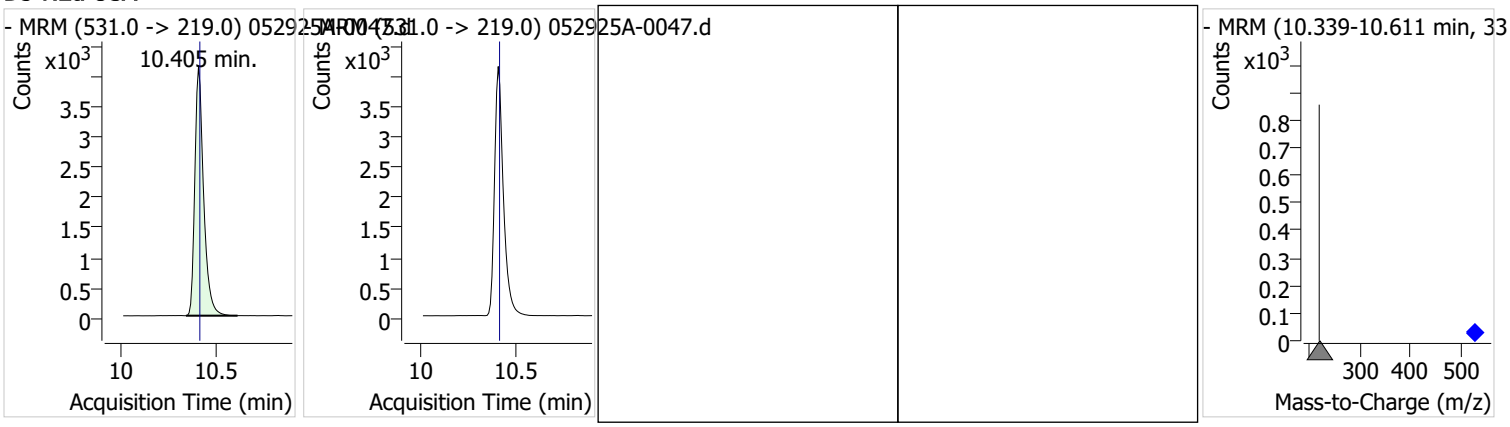
D3-NMeFOSA



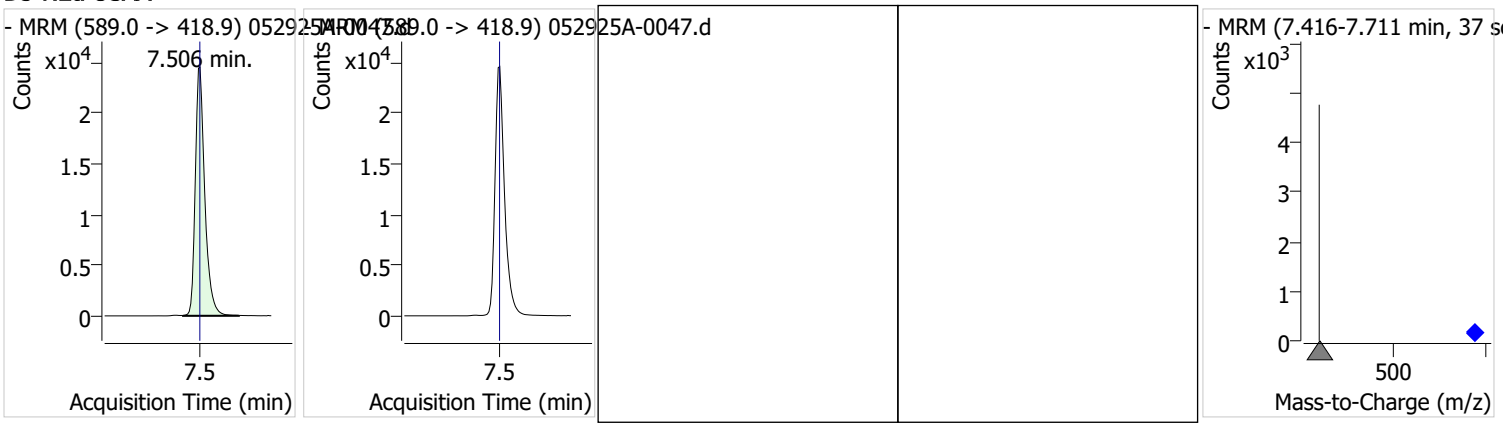
D3-NMeFOSAA



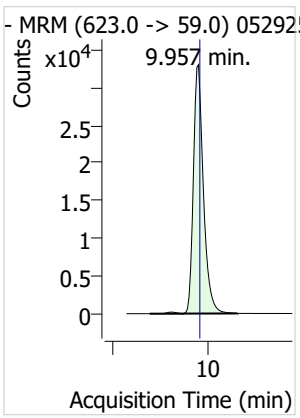
D5-NEtFOSA

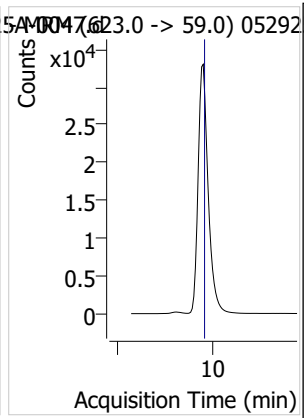


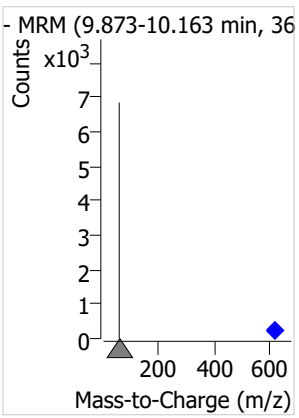
D5-NEtFOSAA



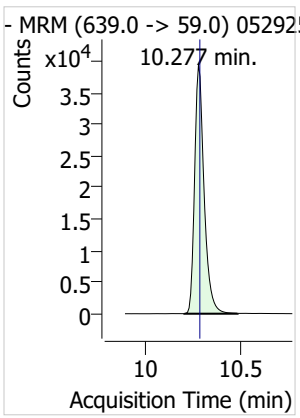
D7-NMeFOSE

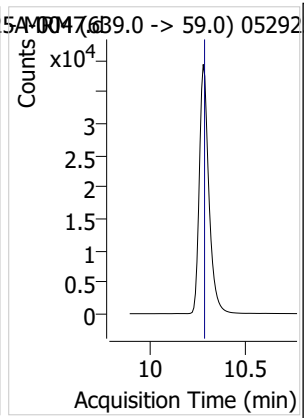


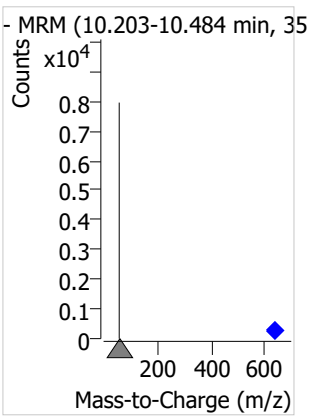




D9-NEtFOSE

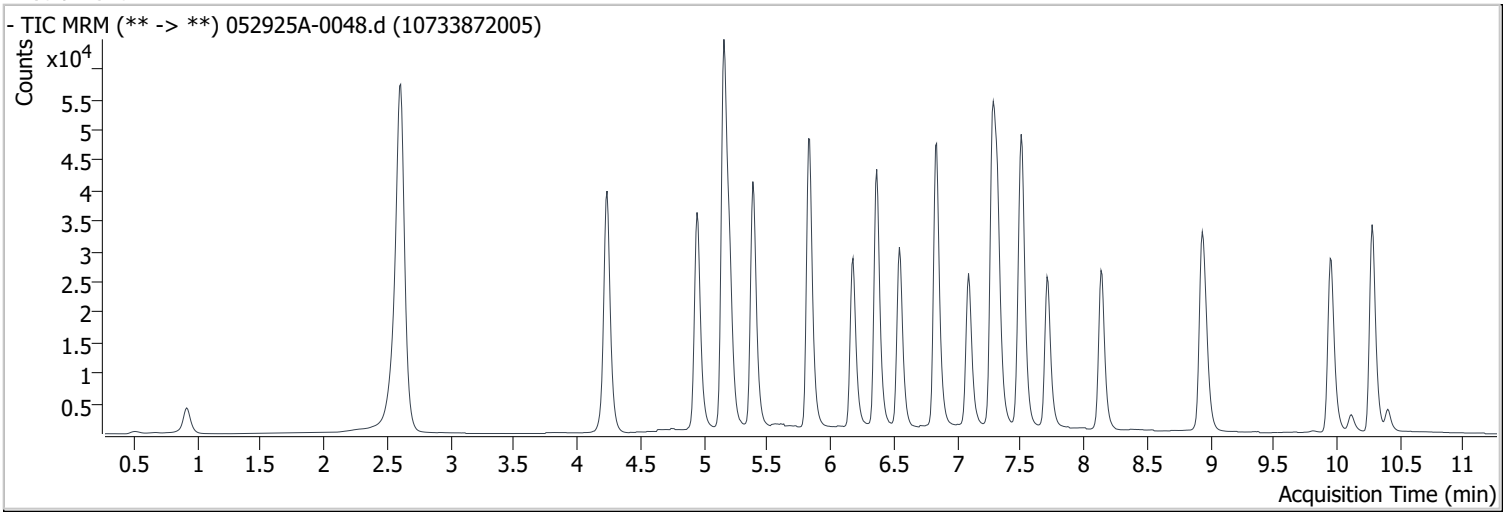






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 9:14 PM	**Data File**	052925A-0048.d
Sample Type	Sample	**Sample Name**	10733872005
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	85636	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	36291	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	26384	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.831	156817	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.092	23801	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	210519	38115.40		13C3-PFBA_ISTD	2.600	106030	8.1576	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.520	28226	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.520	28226	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.520	28226	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	36291	7746.92		18O2-PFHxS_ISTD	6.550	41220	5.1130	ng/ml			
13C2-6:2FTS	6.180	26384	7934.85		18O2-PFHxS_ISTD	6.550	41220	4.9335	ng/ml			
13C2-8:2FTS	7.092	23801	124940.15		18O2-PFHxS_ISTD	6.550	41220	4.4340	ng/ml			
13C2-PFDoA	8.138	89772	9878.91		13C2-PFDA_ISTD	7.281	85206	0.8433	ng/ml			
13C2-PFDA	7.281	85206	2497.54					1.7525	ng/ml			
13C2-PFHxA	5.162	106968	20406.93					3.4705	ng/ml			
13C2-PFTeDA	8.928	97397	12515.97		13C2-PFDA_ISTD	7.281	85206	0.8142	ng/ml			
13C4-PFOS	7.520	39873	12019.17					3.6172	ng/ml			
13C3-HFPODA	5.394	85636	25965.55		13C2-PFHxA_ISTD	5.162	106968	7.4930	ng/ml			
13C3-PFBS	5.205	52789	11905.30		18O2-PFHxS_ISTD	6.550	41220	1.8758	ng/ml			
13C3-PFHxS	6.551	37260	16253.58		18O2-PFHxS_ISTD	6.550	41220	1.9553	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	73740	-	ng/ml			
584.0 -> 526.0				*								

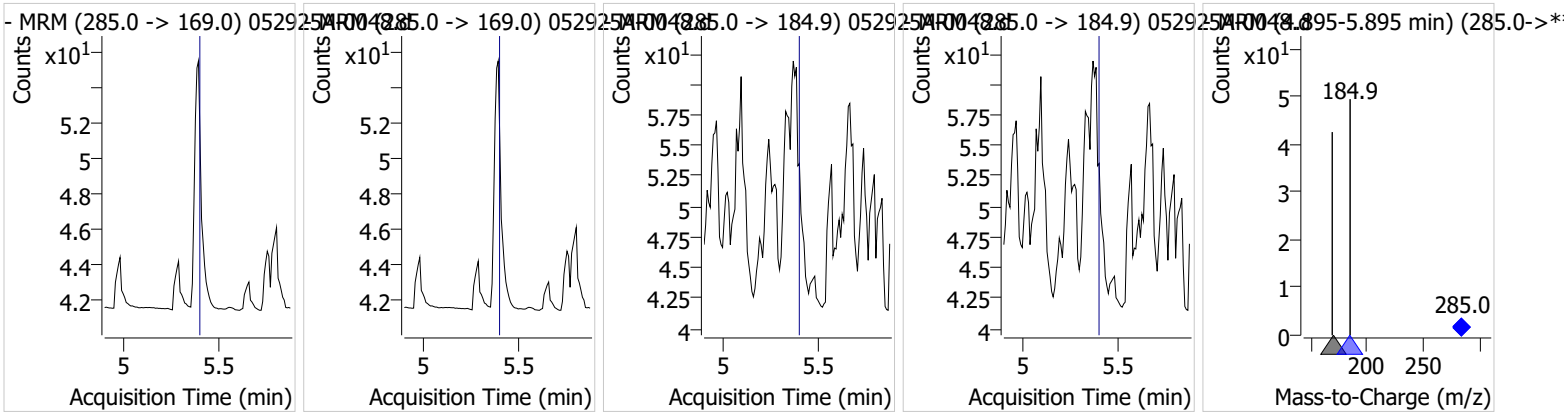
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	156817	7510.29		13C2-PFHxA_ISTD	5.162	106968	2.0644	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.319	99507	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.606	210519	-	ng/ml			
13C5-PFHxA	5.161	94986	46581.06		13C2-PFHxA_ISTD	5.162	106968	2.0003	ng/ml			
PFBS					13C3-PFBS_ISTD	5.205	52789	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	9580	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.281	75190	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.138	89772	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	10992	-	ng/ml			
526.0 -> 169.0				*								
PFHpA	5.847	0	0.00		13C4-PFHpA_ISTD	5.831	156817	-	ng/ml	✔	INT	MJL 5/30/25
362.9 -> 169.0	5.848	0		*								
PFHxA					13C5-PFHxA_ISTD	5.161	94986	-	ng/ml			
313.0 -> 118.9				*								
NMeFOSE					D7-NMeFOSE_ISTD	9.949	104263	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.551	37260	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	70142	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	118147	-	ng/ml			
PFOA	6.300	1029	16.63		13C8-PFOA_ISTD	6.368	105451	0.0207	ng/ml			
413.0 -> 169.0	6.361	117	29.38	**11.4								
PFOS	7.399	371	29.37		13C8-PFOS_ISTD	7.520	28226	0.0223	ng/ml			
499.0 -> 99.0	7.402	264	76.39	71.2								
PFPeA					13C5-PFPeA_ISTD	4.237	149144	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	210519	-	ng/ml			
13C5-PFPeA	4.237	149144	15588.78		13C2-PFHxA_ISTD	5.162	106968	3.9369	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	149144	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.138	89772	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	94986	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.281	75190	22758.20		13C2-PFDA_ISTD	7.281	85206	0.9372	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	94986	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.967	38330	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.713	81233	24600.41		13C2-PFDA_ISTD	7.281	85206	0.9066	ng/ml			
13C4-PFOA	6.369	29440	9098.39					3.5605	ng/ml			
PFDS					13C8-PFOS_ISTD	7.520	28226	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.520	28226	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.551	37260	-	ng/ml			
349.0 -> 98.9				*								

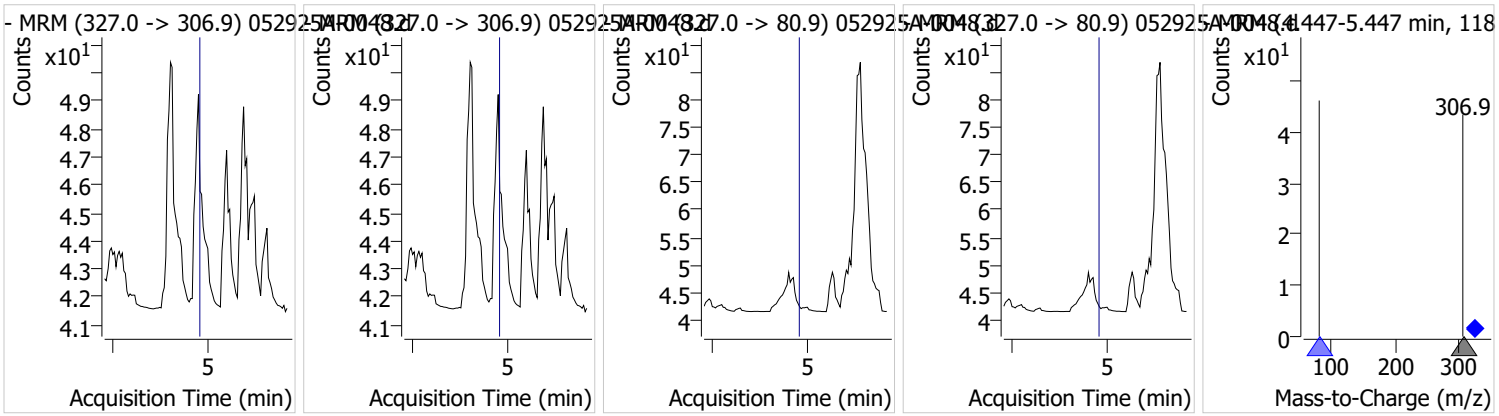
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA					13C2-PFTeDA_ISTD	8.928	97397	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.713	81233	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.600	106030	4528.35					6.9819	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	149144	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	94986	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	70142	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	83063	13816.04					1.7564	ng/ml			
18O2-PFHxS	6.550	41220	12587.84					3.6288	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.520	28226	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.520	28226	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.762	0	0.00		13C3-PFPrA_ISTD	0.916	19593	-	ng/ml	✔	INT	MJL 5/30/25
13C3-PFPrA	0.916	19593	4746.01		13C3-PFBA_ISTD	2.600	106030	1.7081	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	85636	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	105451	2979.78		13C4-PFOA_ISTD	6.369	29440	1.9118	ng/ml			
13C8-PFOS	7.520	28226	24837.35		13C4-PFOS_ISTD	7.520	39873	1.8100	ng/ml			
13C8-PFOSA	8.967	38330	10697.85		13C4-PFOS_ISTD	7.520	39873	1.7094	ng/ml			
13C9-PFNA	6.842	70142	10094.03		13C5-PFNA_ISTD	6.842	83063	0.9558	ng/ml			
D3-NMeFOSA	10.118	9580	982.10		13C4-PFOS_ISTD	7.520	39873	1.3410	ng/ml			
D3-NMeFOSAA	7.319	99507	29249.83		13C4-PFOS_ISTD	7.520	39873	4.0123	ng/ml			
D5-NEtFOSA	10.405	10992	2879.50		13C4-PFOS_ISTD	7.520	39873	1.2799	ng/ml			
D5-NEtFOSAA	7.498	73740	21116.74		13C4-PFOS_ISTD	7.520	39873	3.9151	ng/ml			
D7-NMeFOSE	9.949	104263	15044.13		13C4-PFOS_ISTD	7.520	39873	15.2019	ng/ml			
D9-NEtFOSE	10.277	118147	7455.16		13C4-PFOS_ISTD	7.520	39873	15.5132	ng/ml			

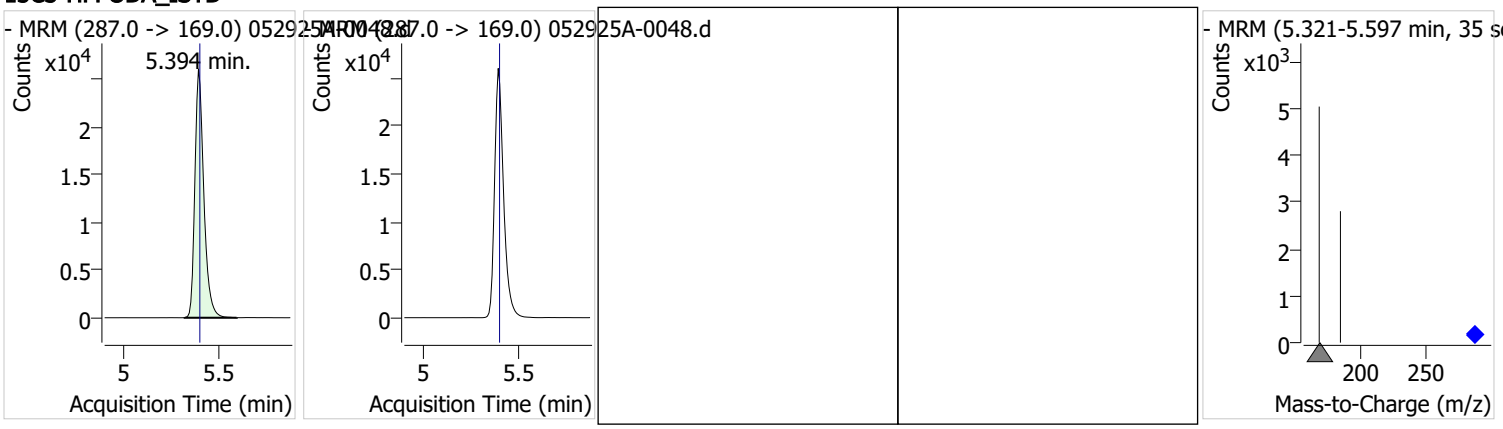
HFPO-DA



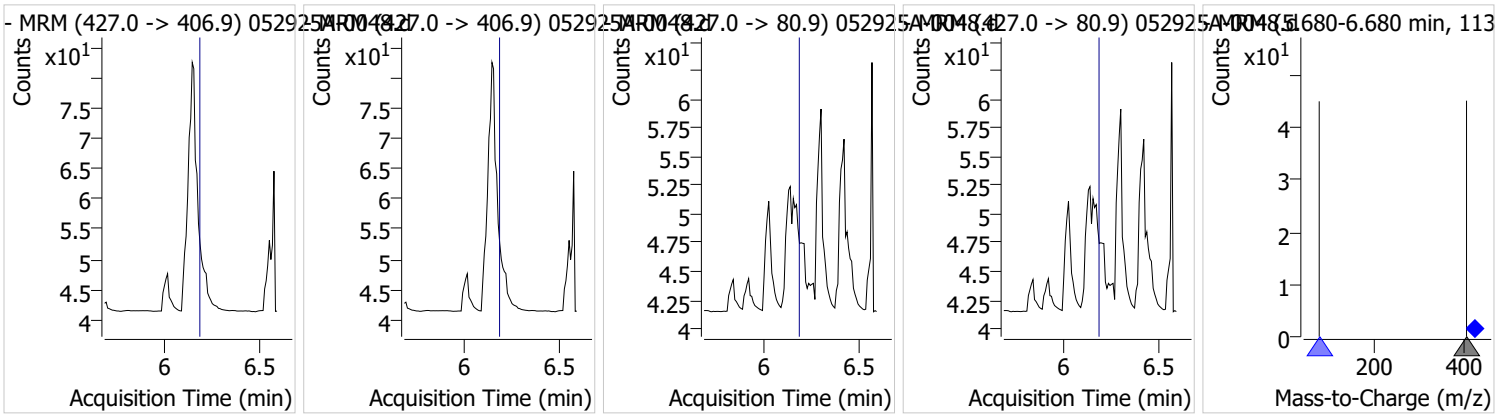
4:2FTS



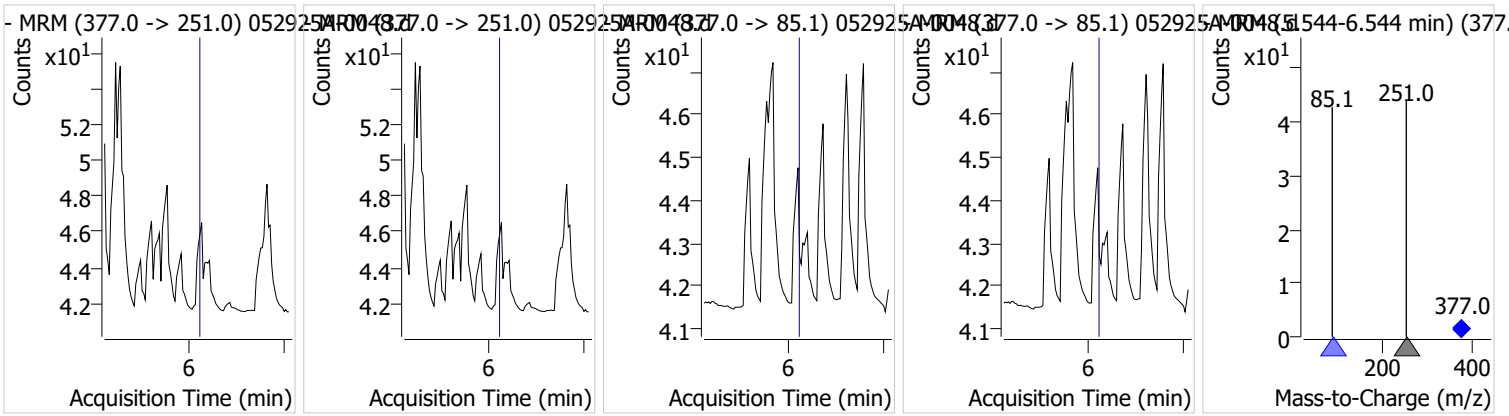
13C3-HFPODA_ISTD



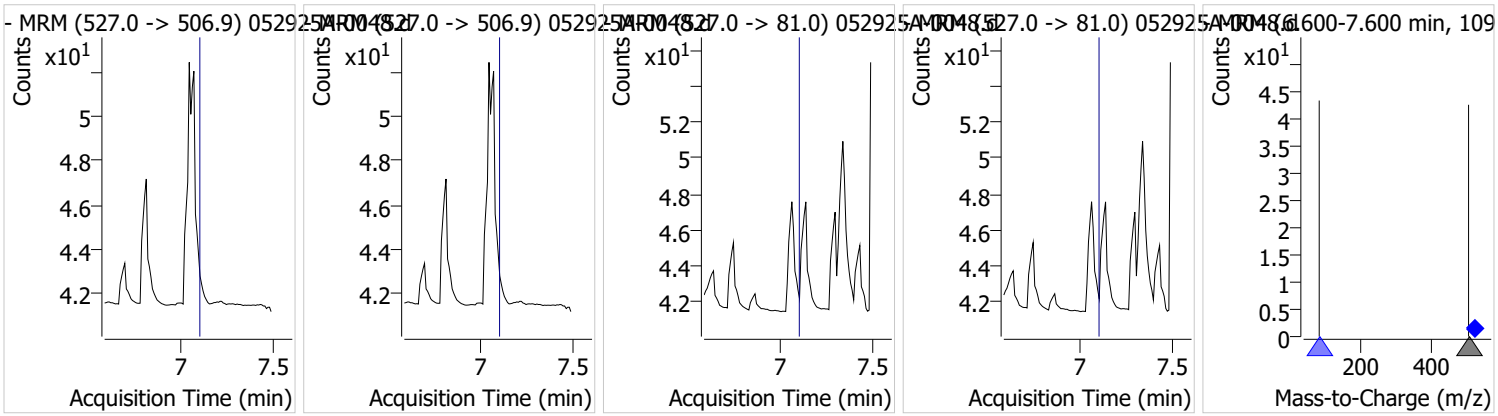
6:2FTS



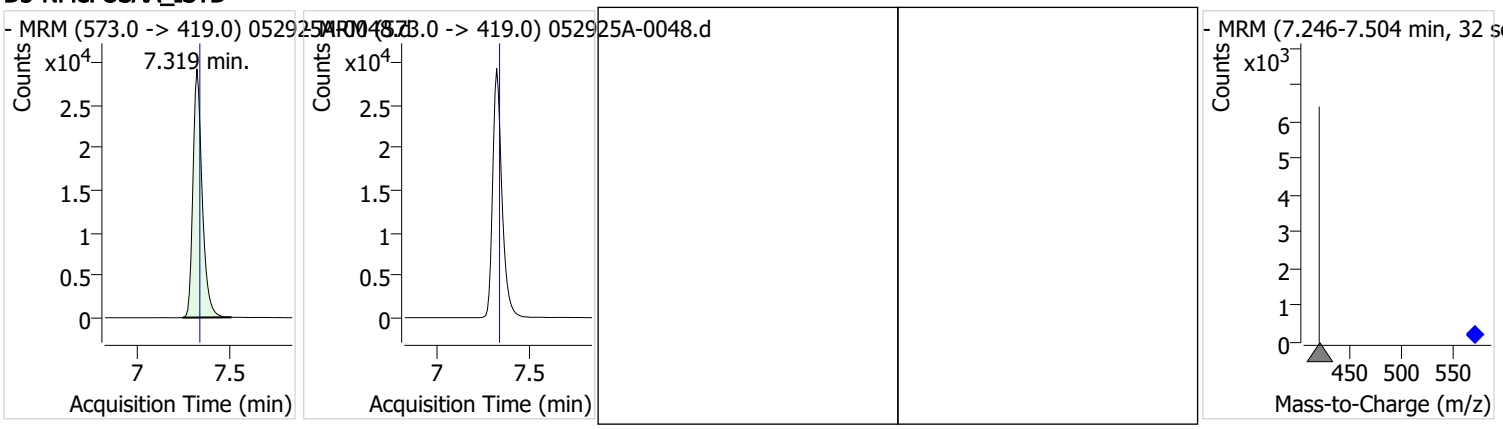
ADONA



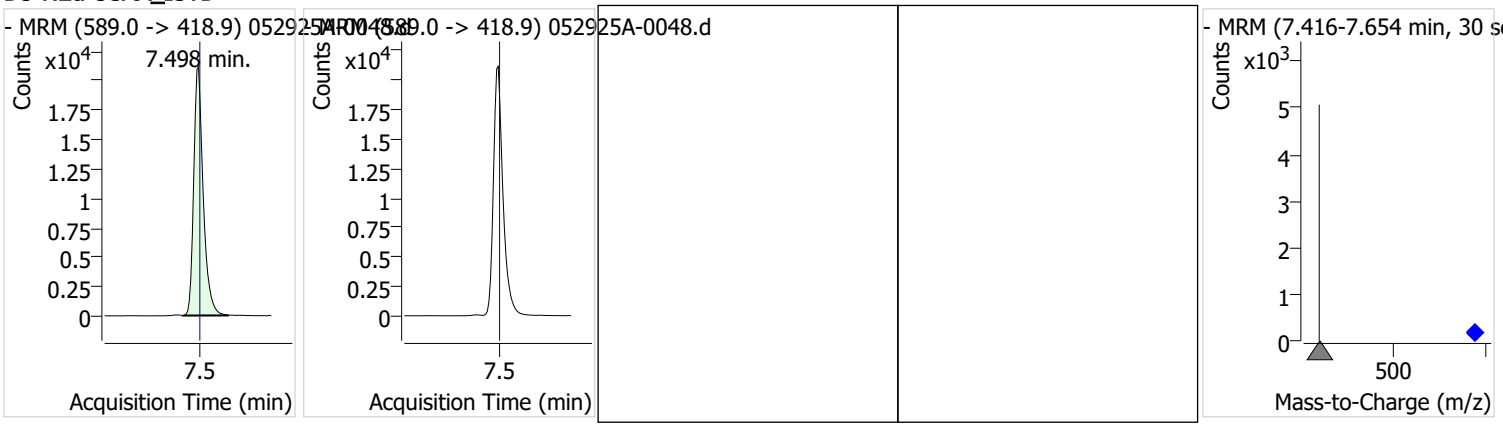
8:2FTS



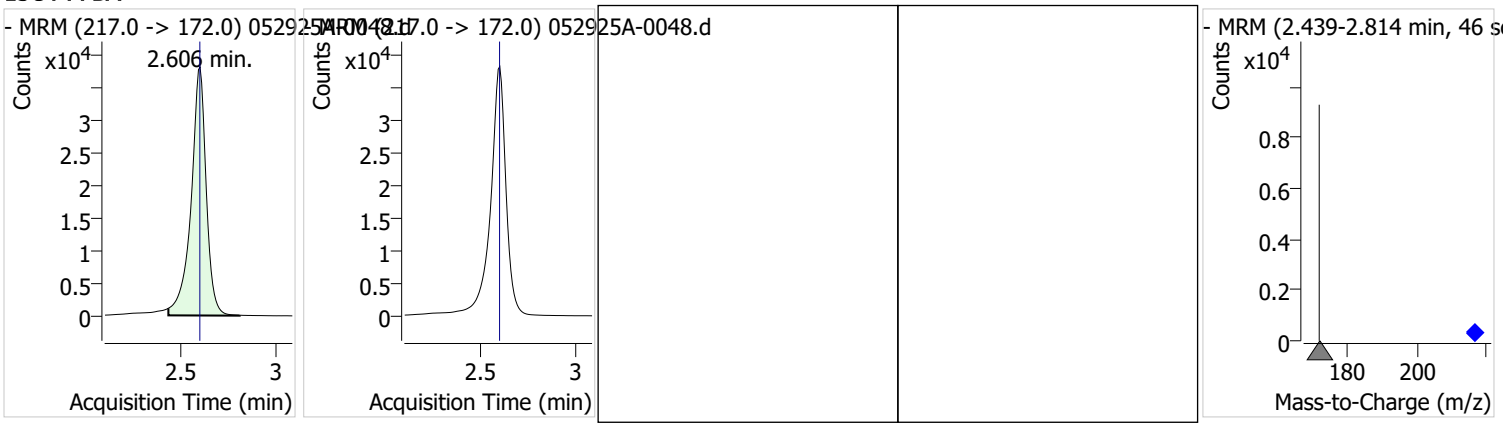
D3-NMeFOSAA_ISTD



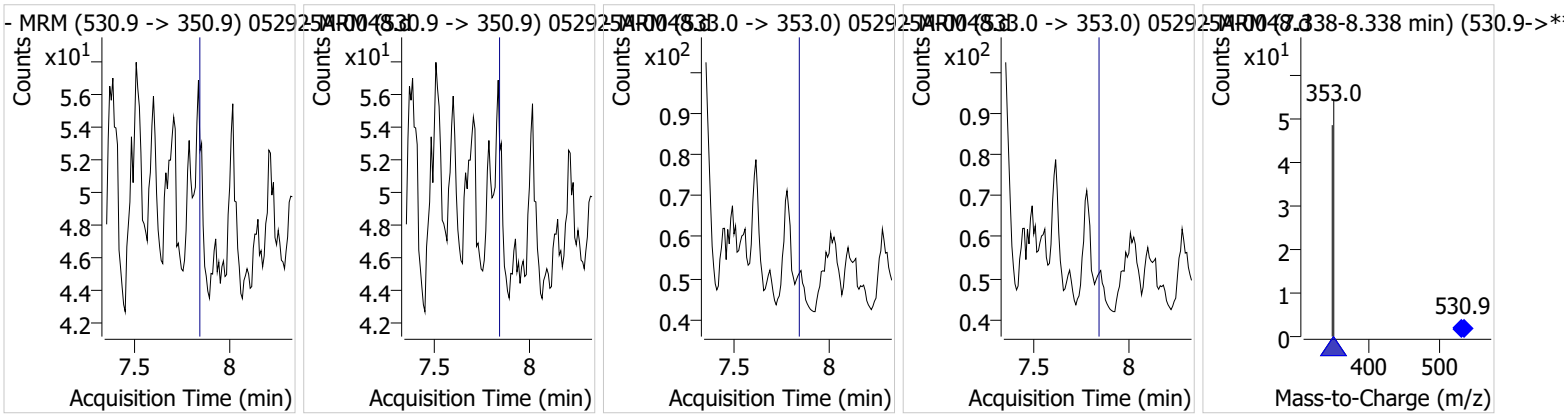
D5-NEtFOSAA_ISTD



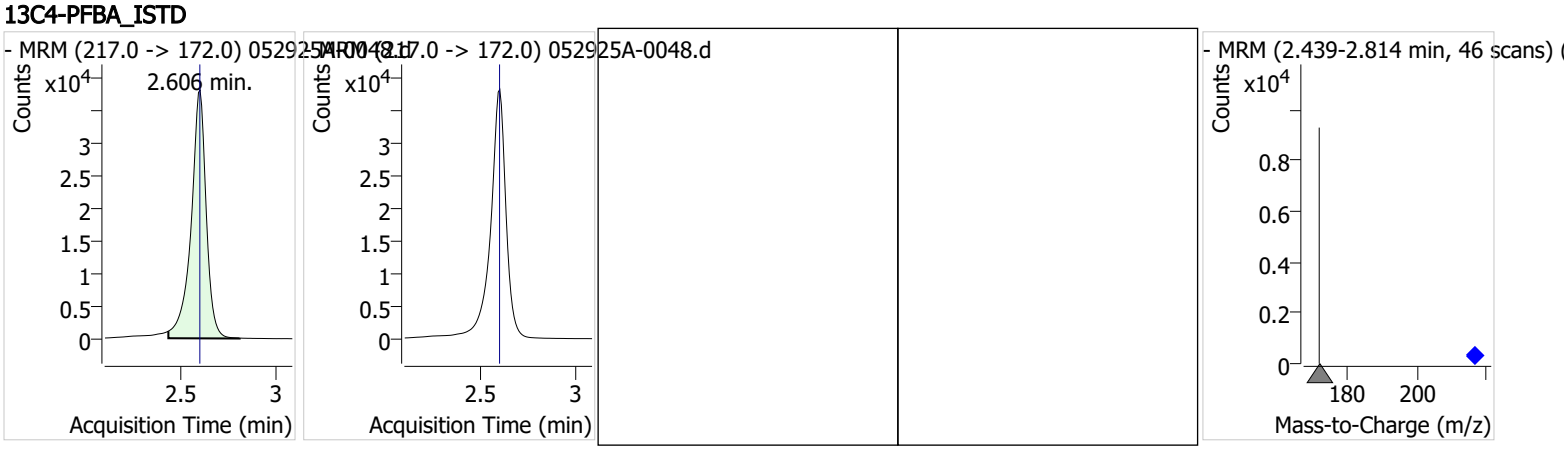
13C4-PFBA



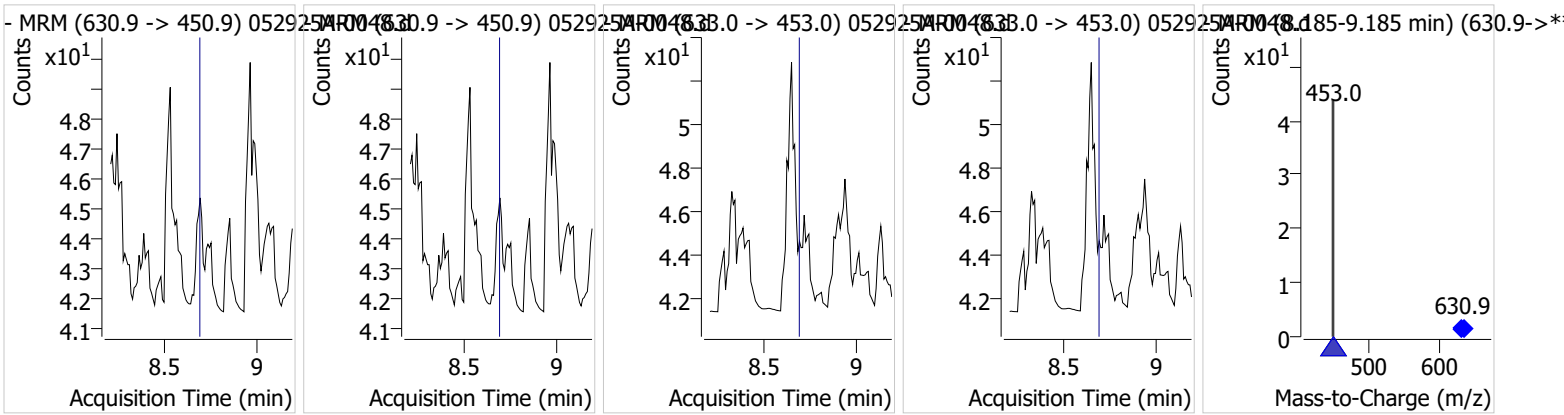
9Cl-PF3ONS



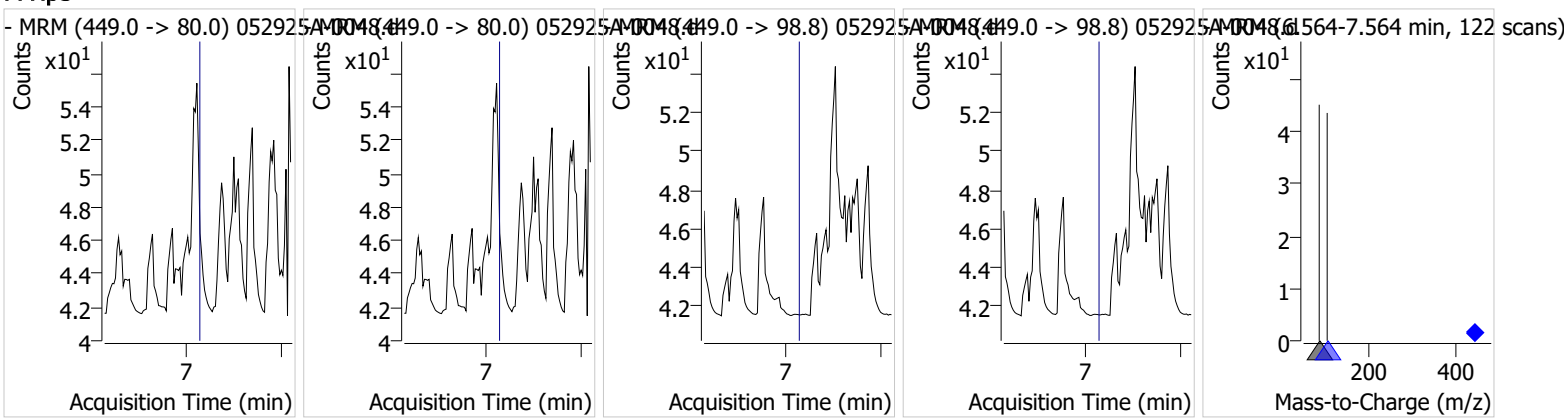
13C4-PFBA_ISTD



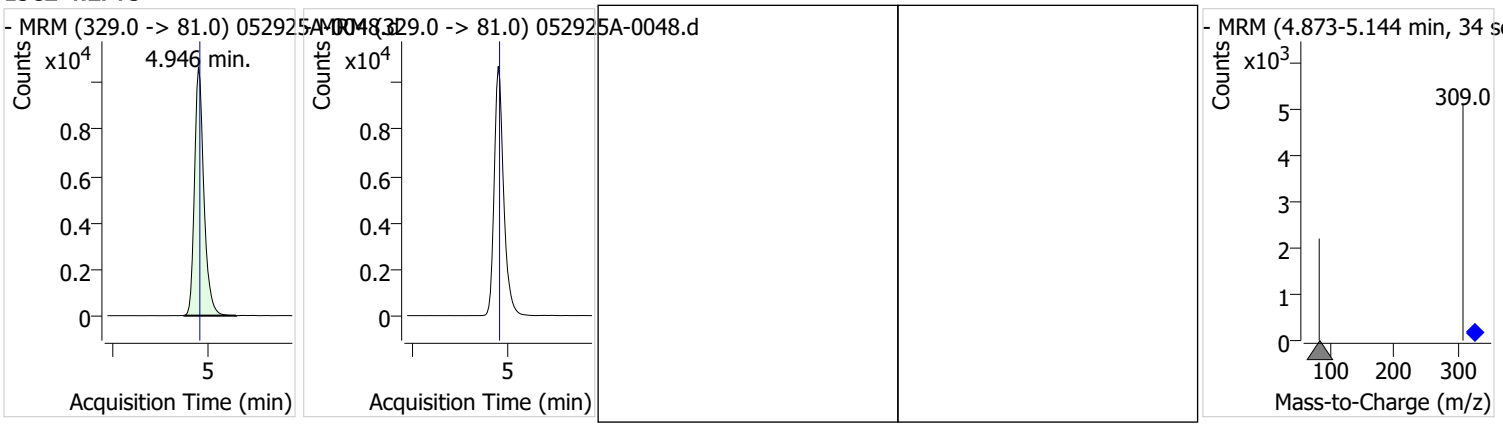
11Cl-PF3OUdS



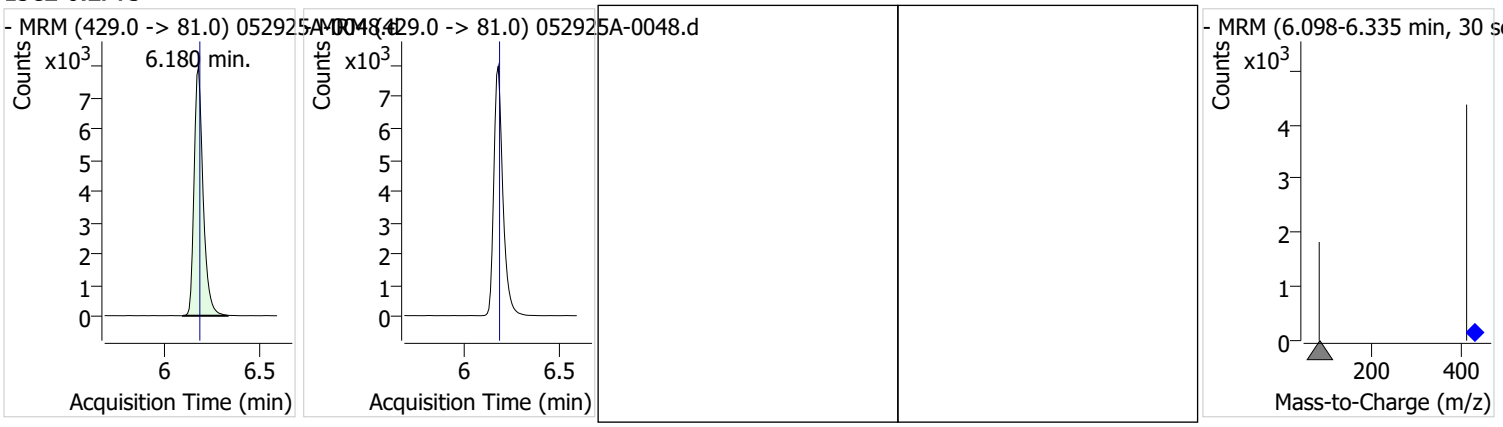
PFHpS



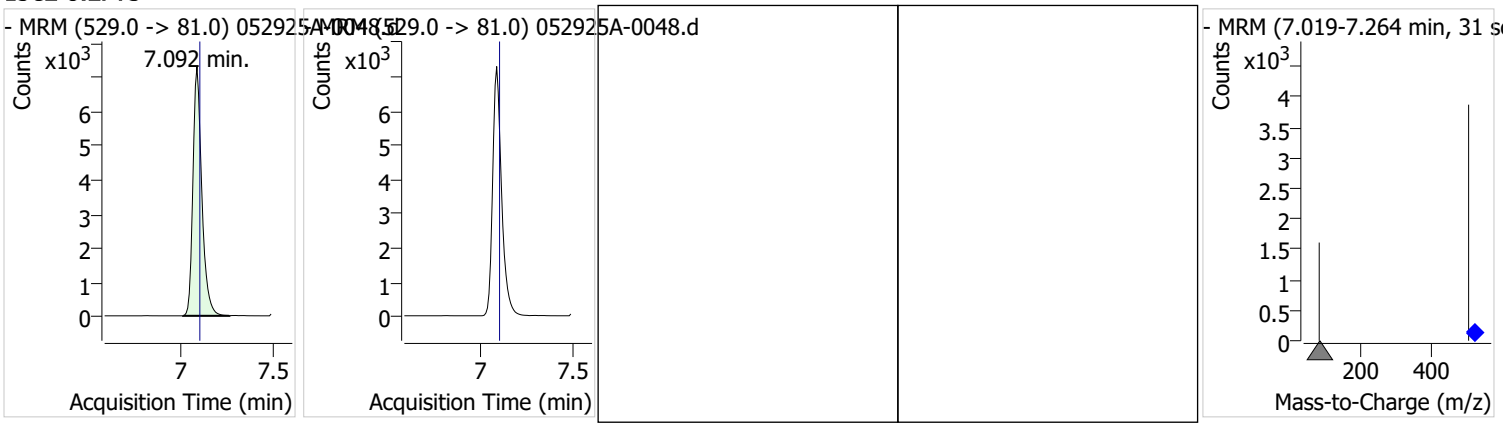
13C2-4:2FTS



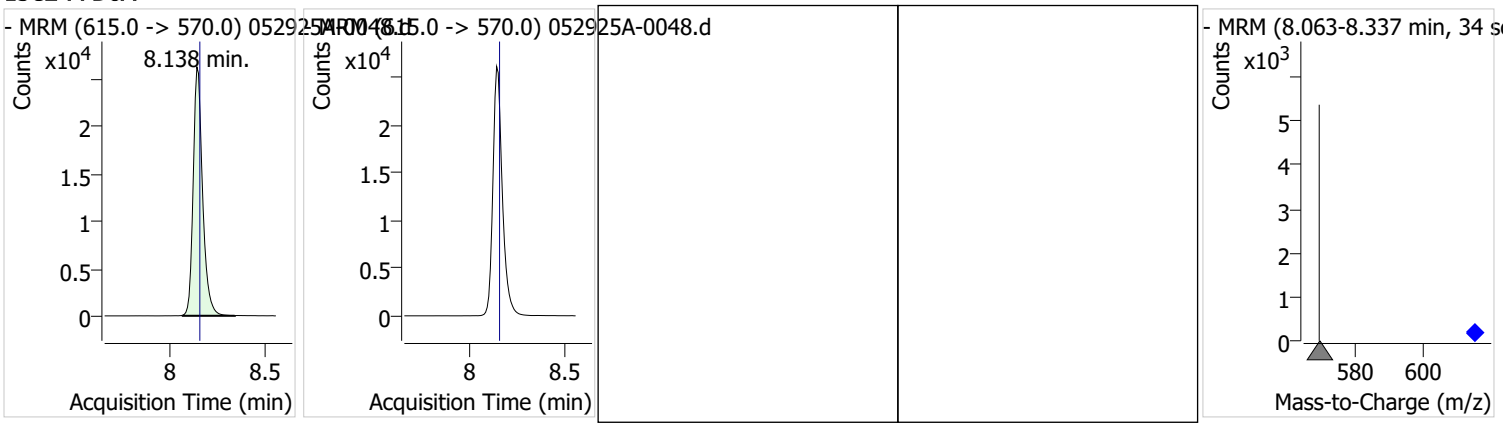
13C2-6:2FTS



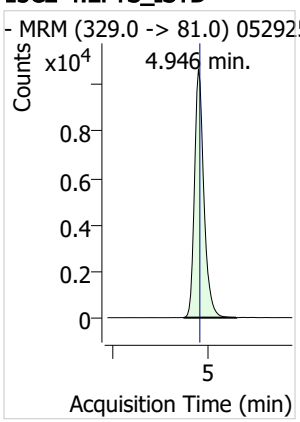
13C2-8:2FTS

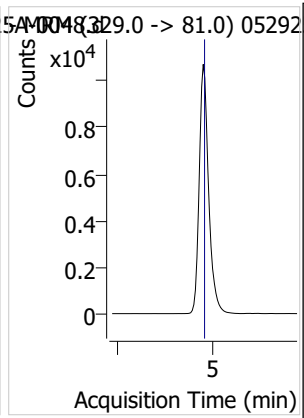


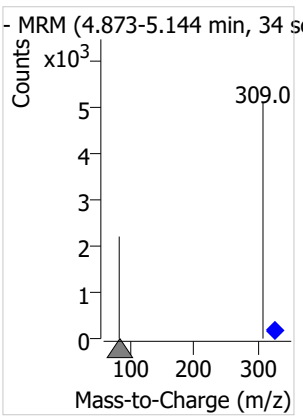
13C2-PFDoA



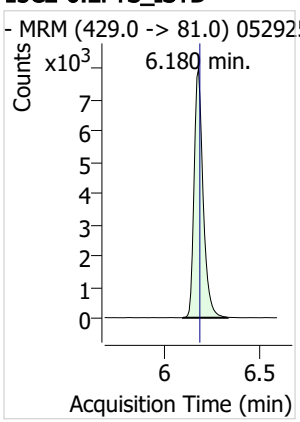
13C2-4:2FTS_ISTD

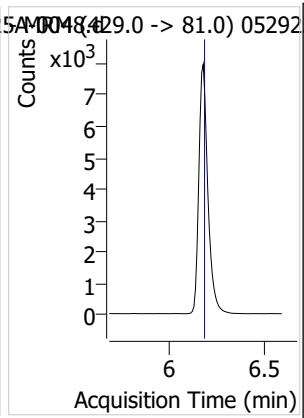


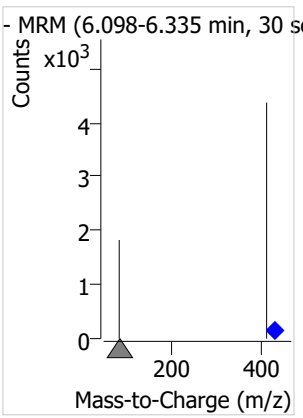




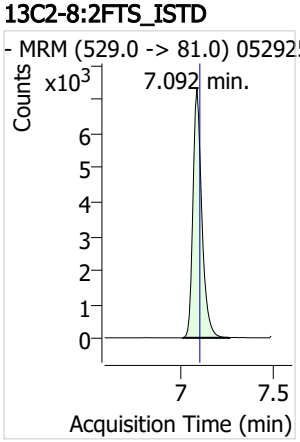
13C2-6:2FTS_ISTD

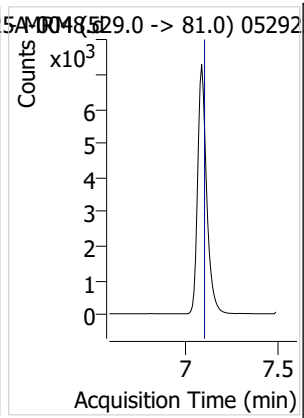


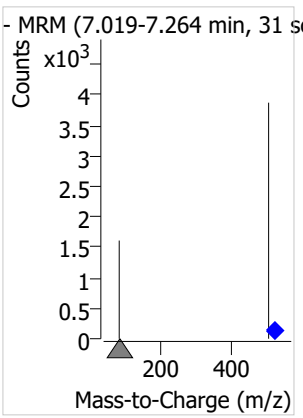




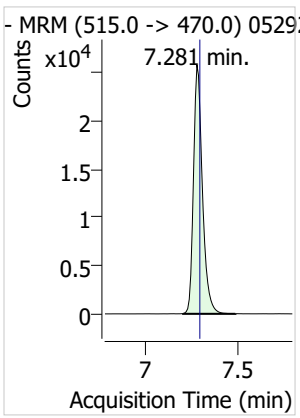
13C2-8:2FTS_ISTD

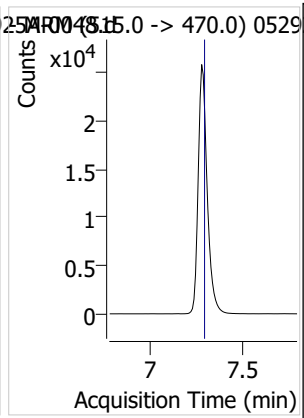


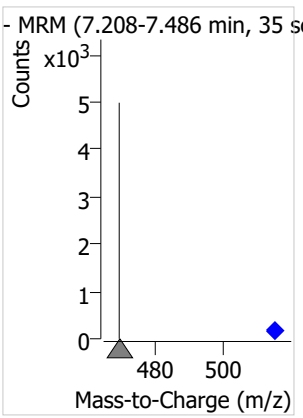




13C2-PFDA



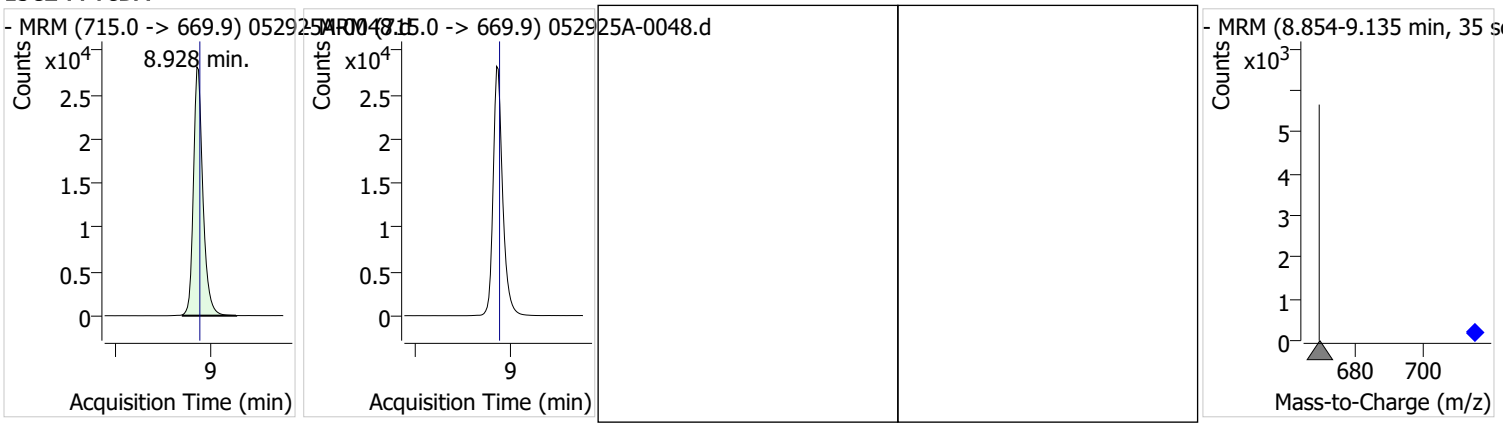




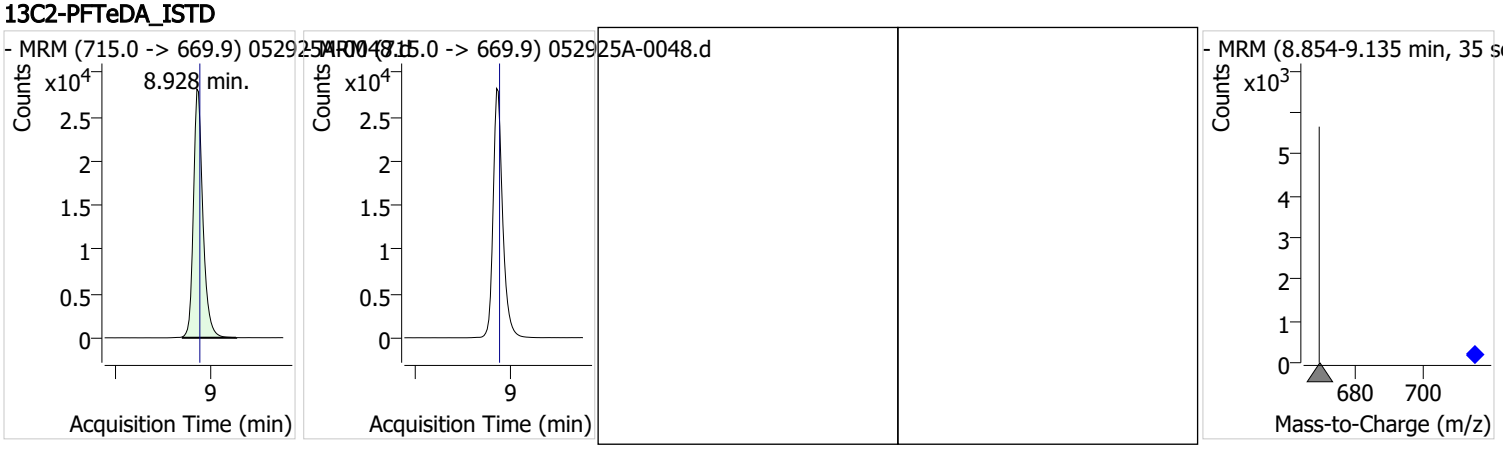
13C2-PFHxA



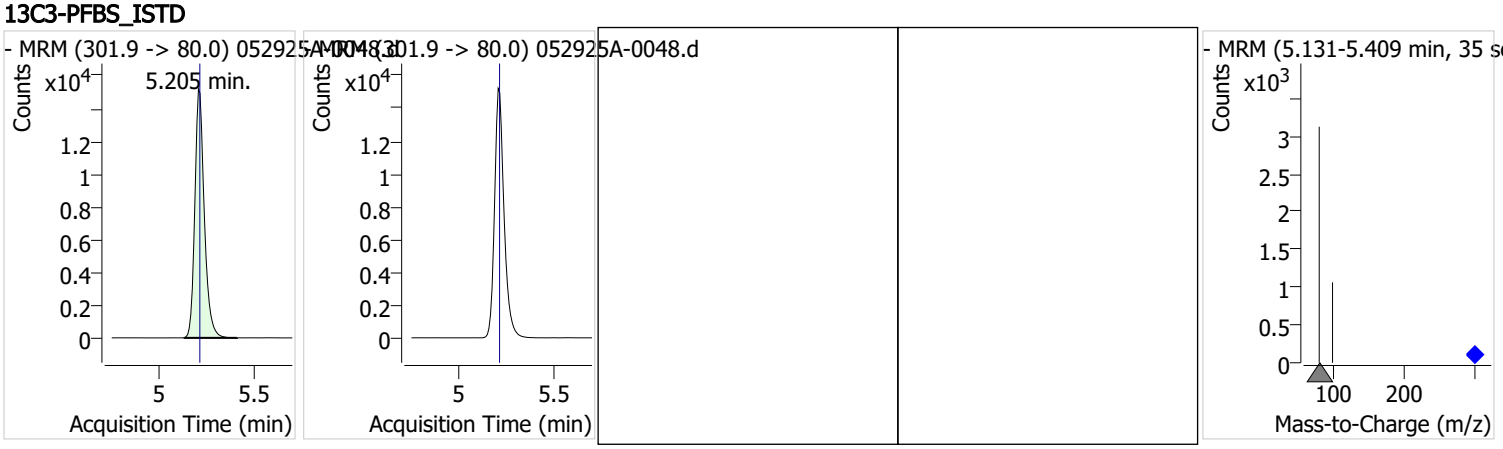
13C2-PFTeDA



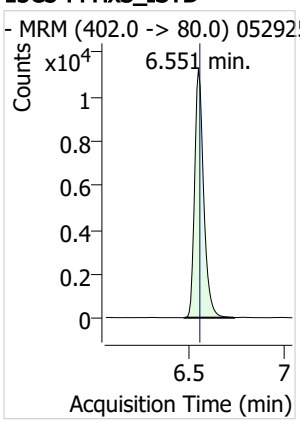
13C2-PFTeDA_ISTD

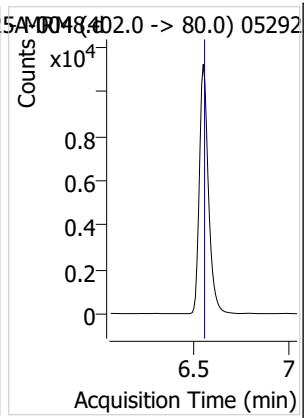


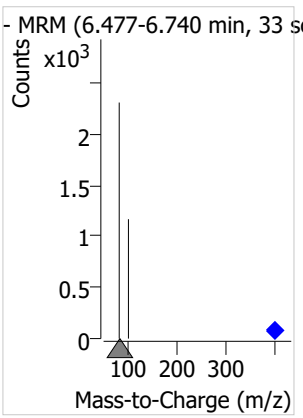
13C3-PFBS_ISTD



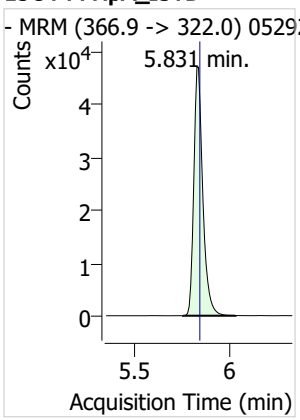
13C3-PFHxS_ISTD

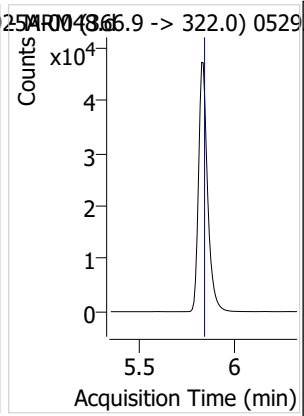


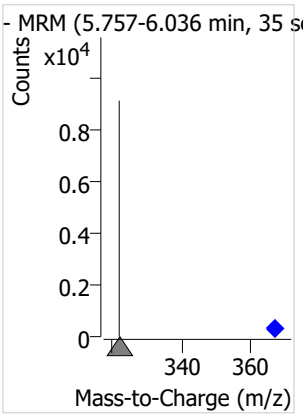




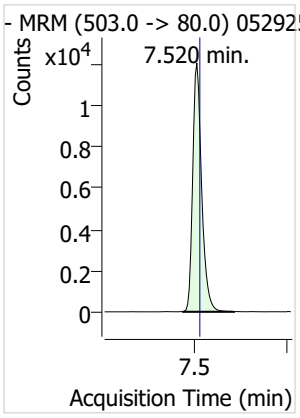
13C4-PFHpA_ISTD

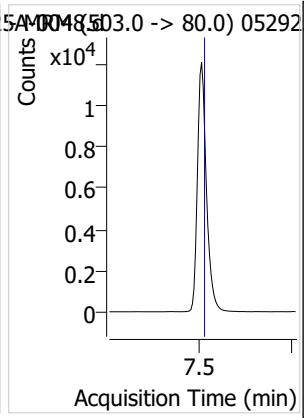


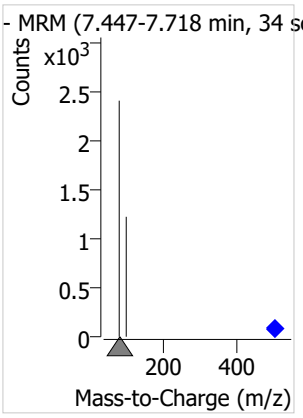




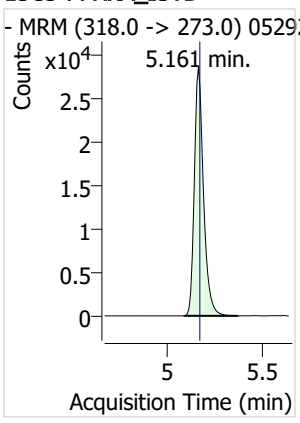
13C4-PFOS

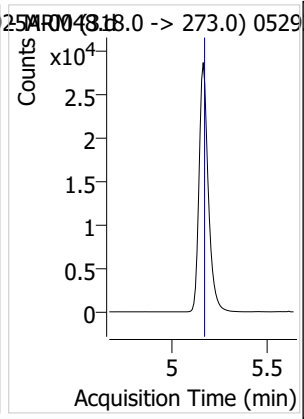


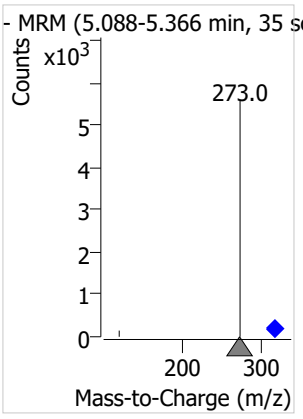




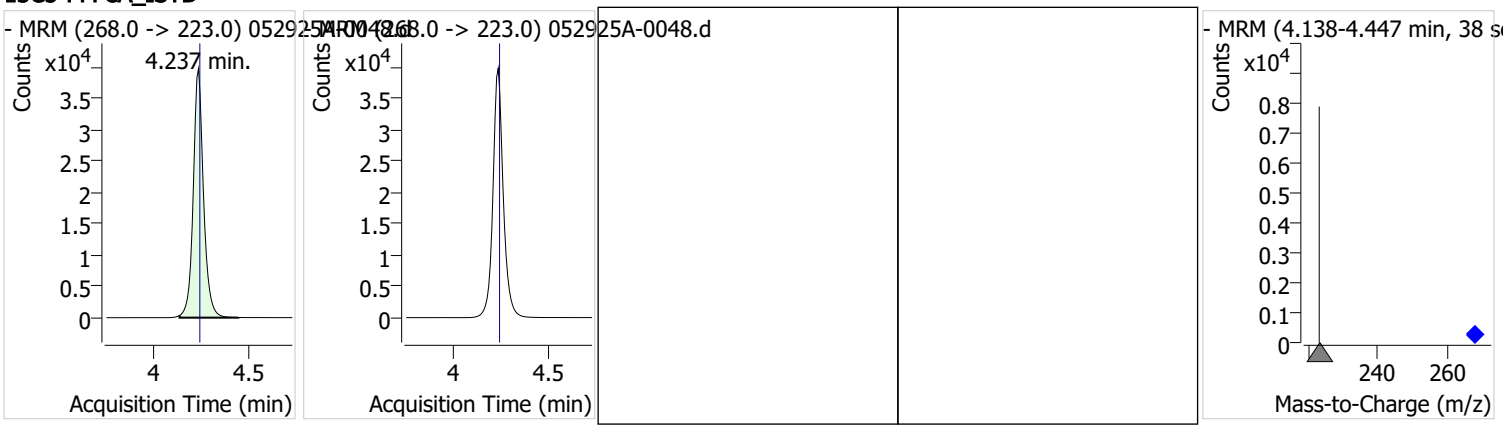
13C5-PFHxA_ISTD







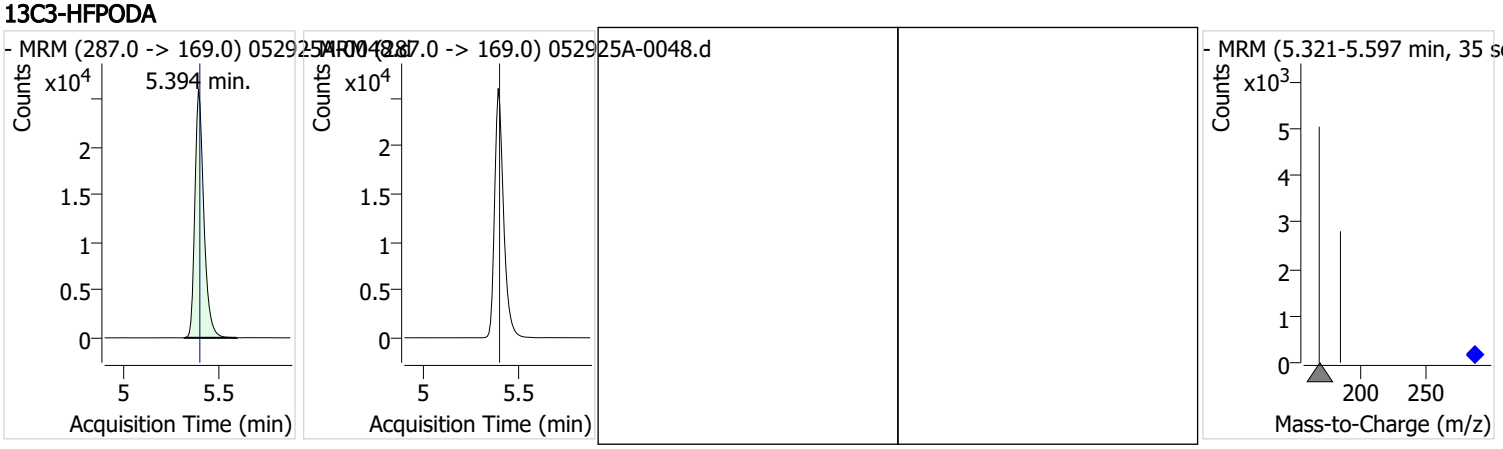
13C5-PFPeA_ISTD



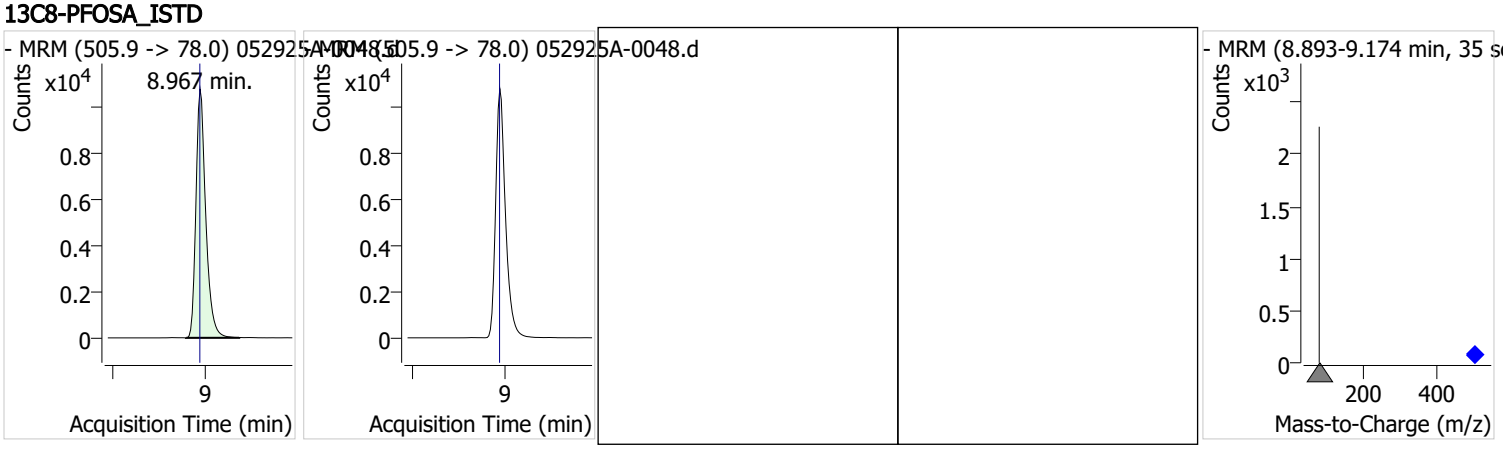
13C6-PFDA_ISTD



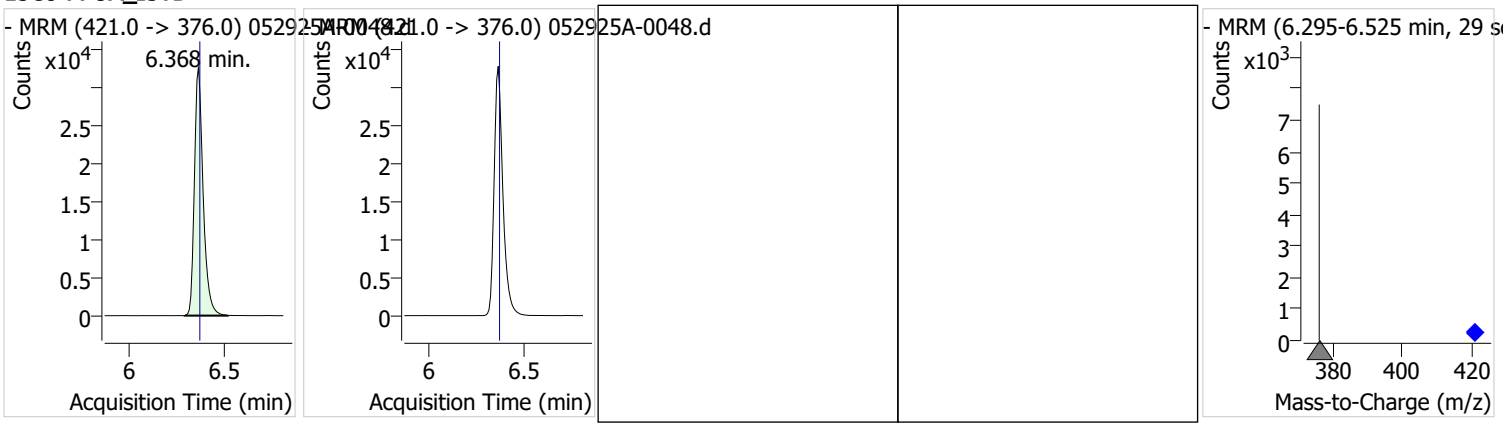
13C3-HFPODA



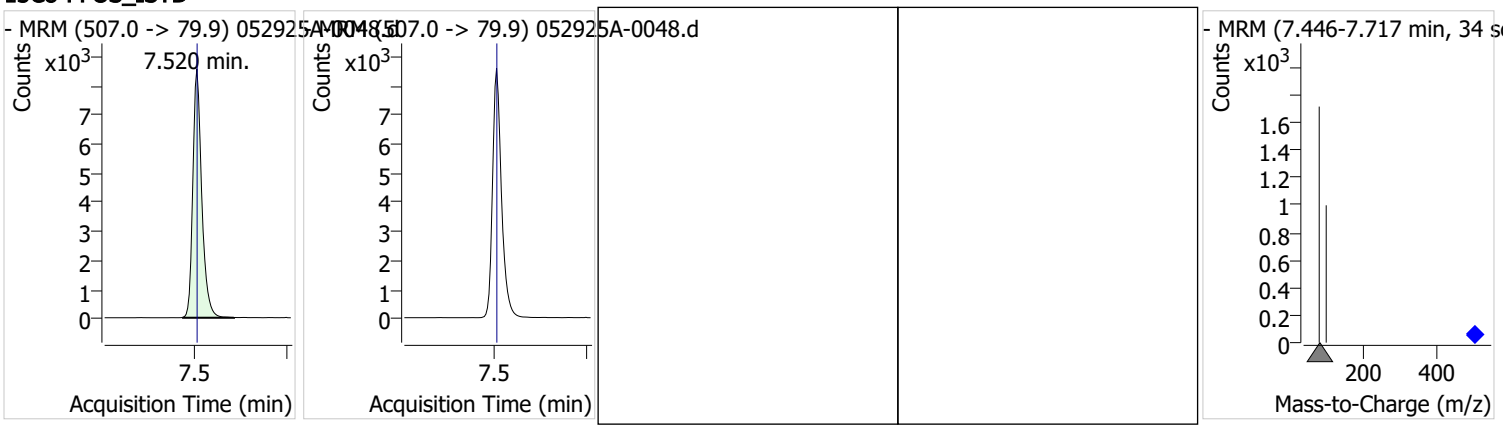
13C8-PFOSA_ISTD



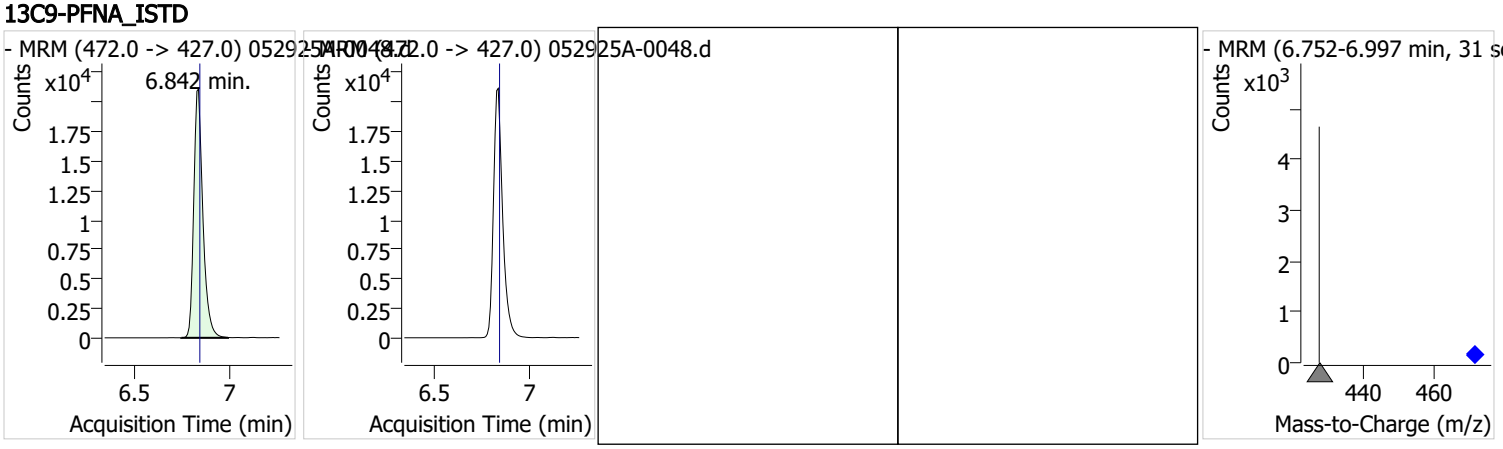
13C8-PFOA_ISTD



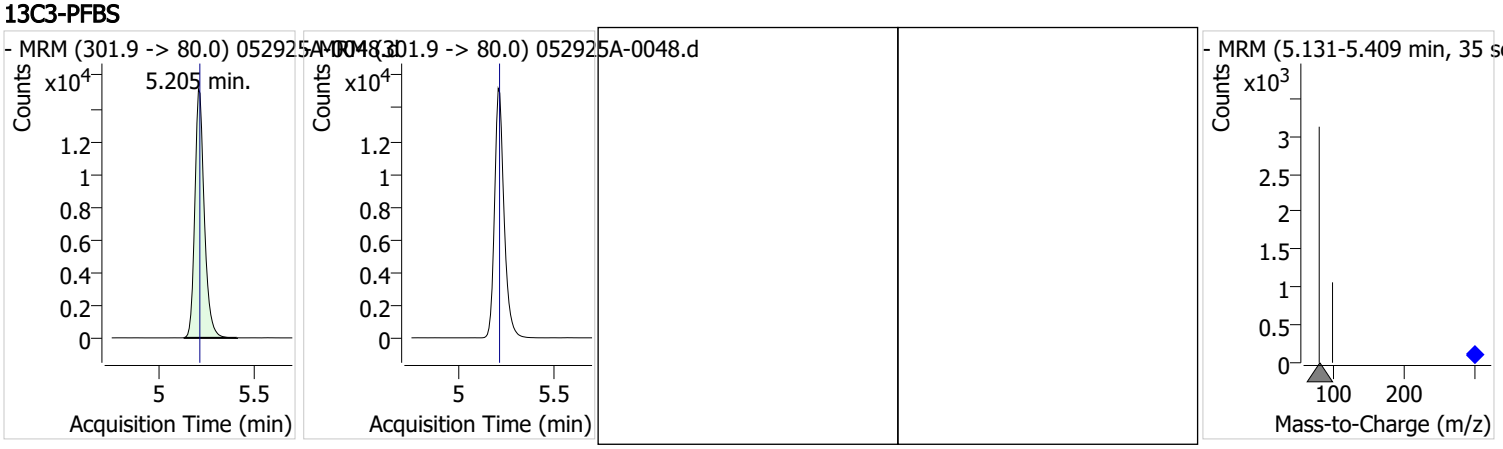
13C8-PFOS_ISTD



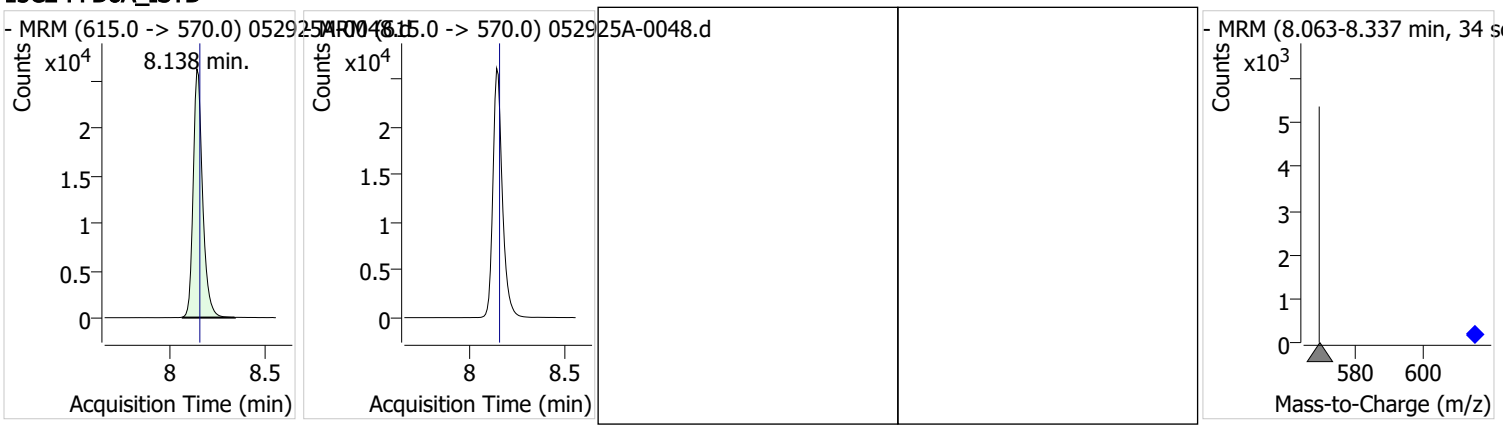
13C9-PFNA_ISTD



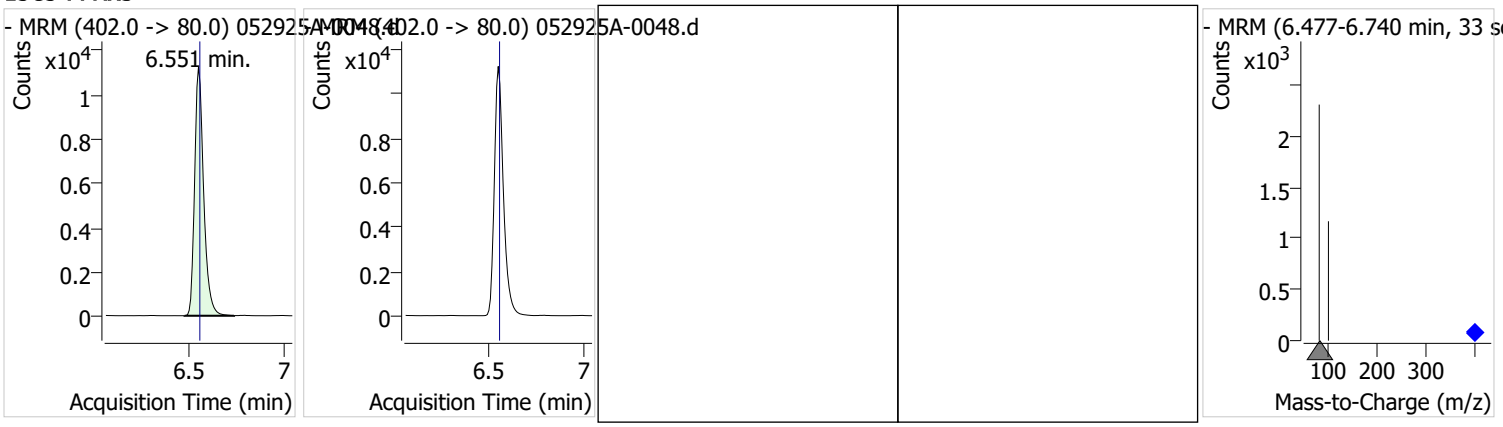
13C3-PFBS



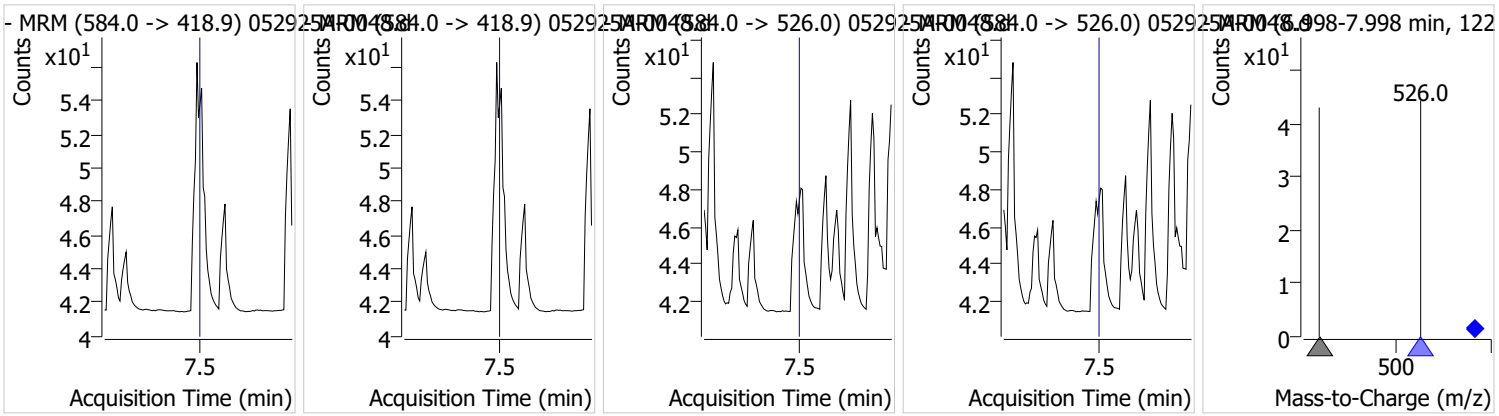
13C2-PFDoA_ISTD



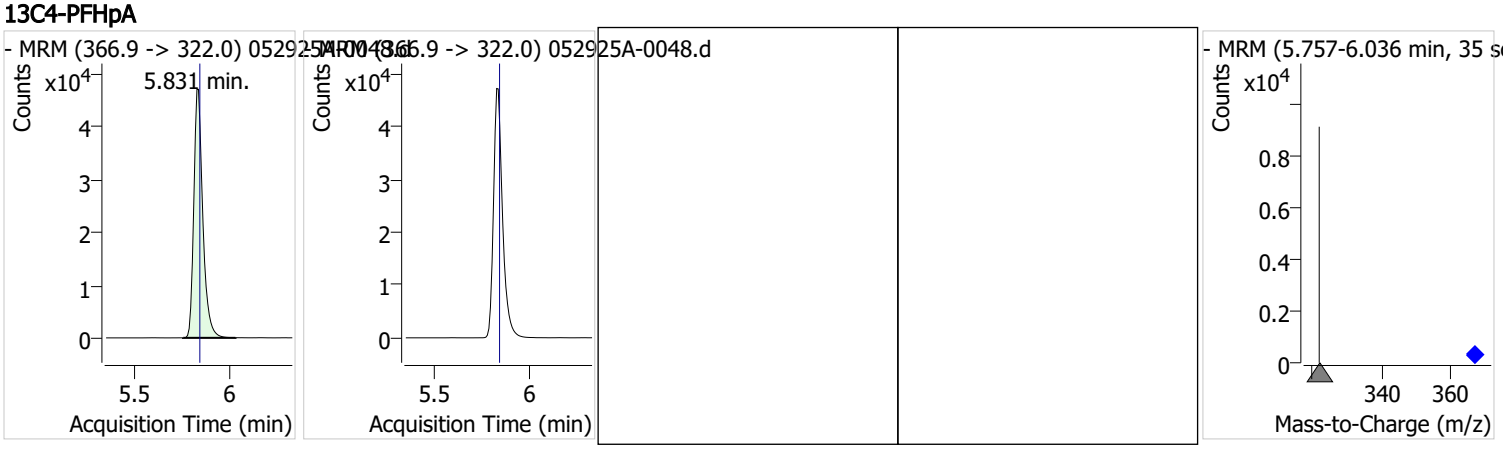
13C3-PFHxS



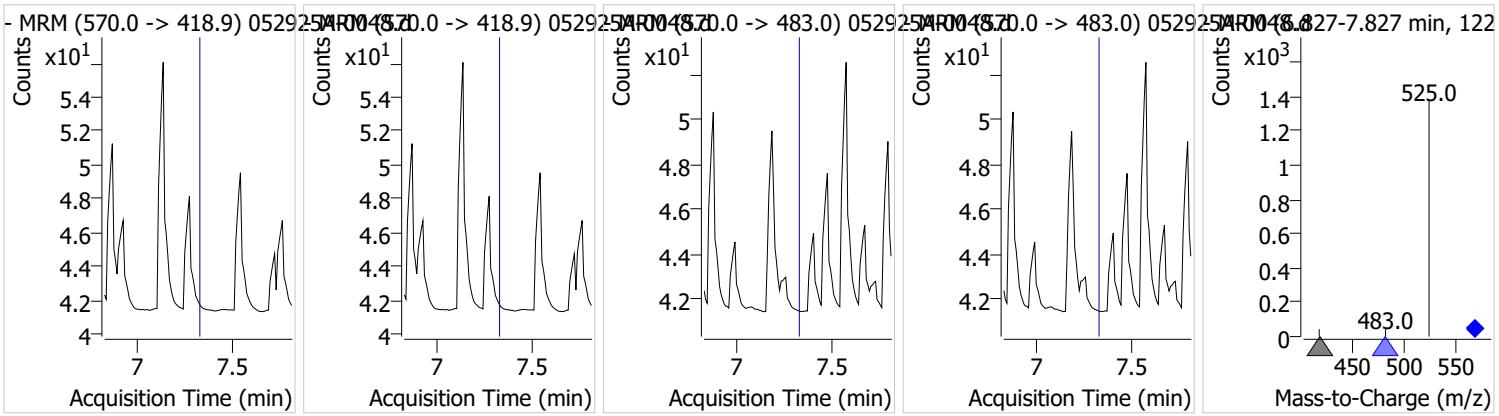
NEtFOSAA



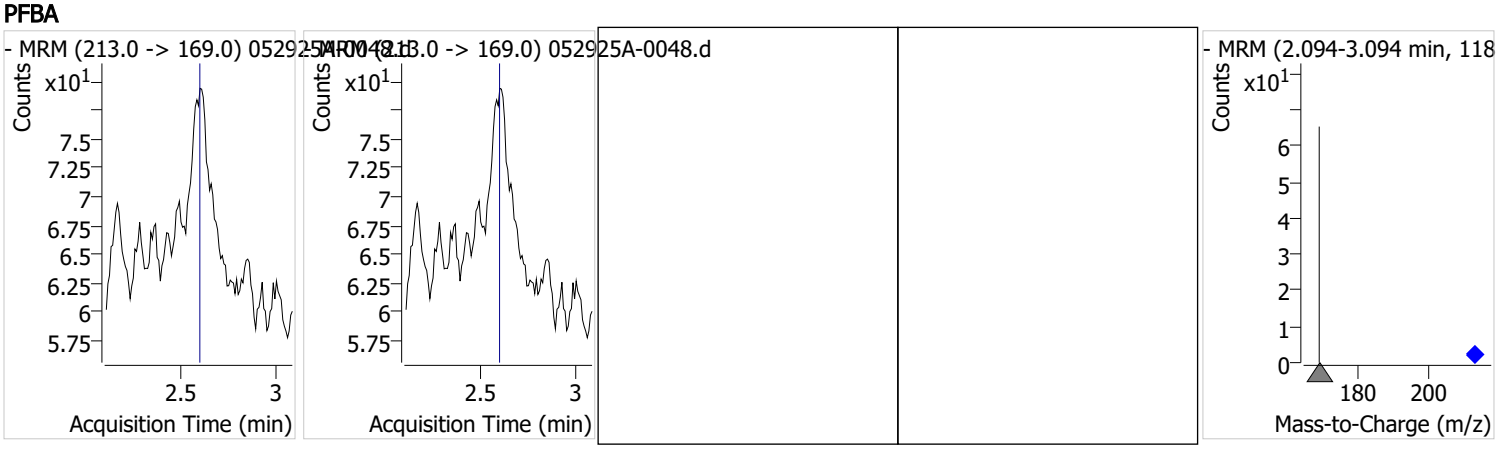
13C4-PFHpA



NMeFOSAA



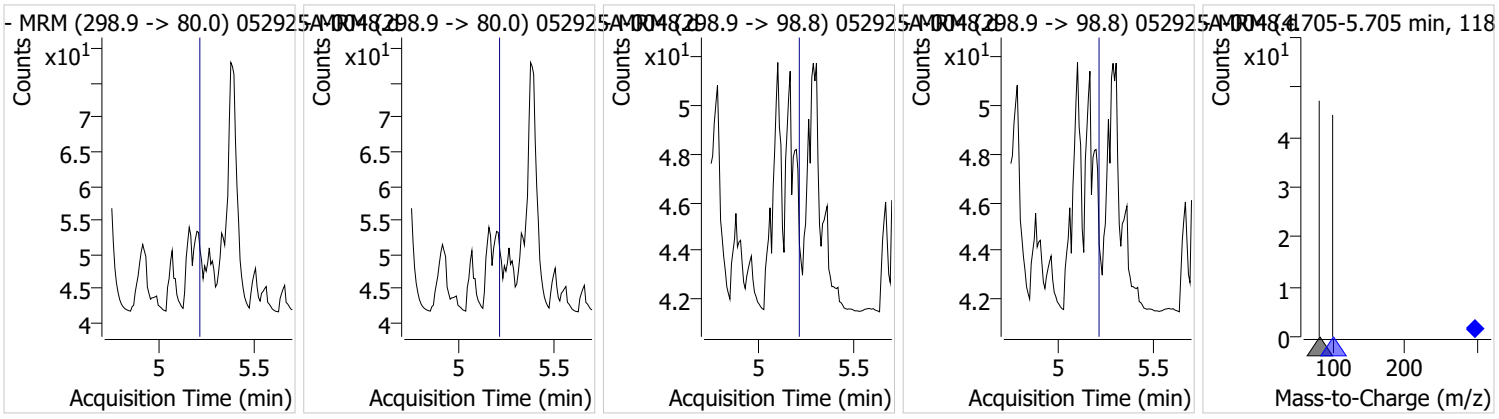
PFBA



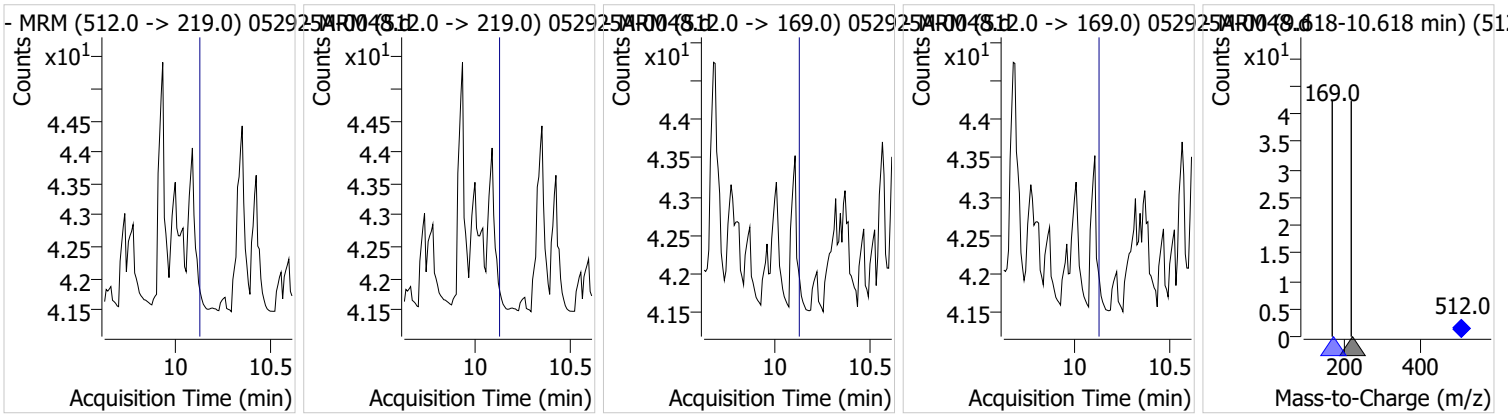
13C5-PFHxA



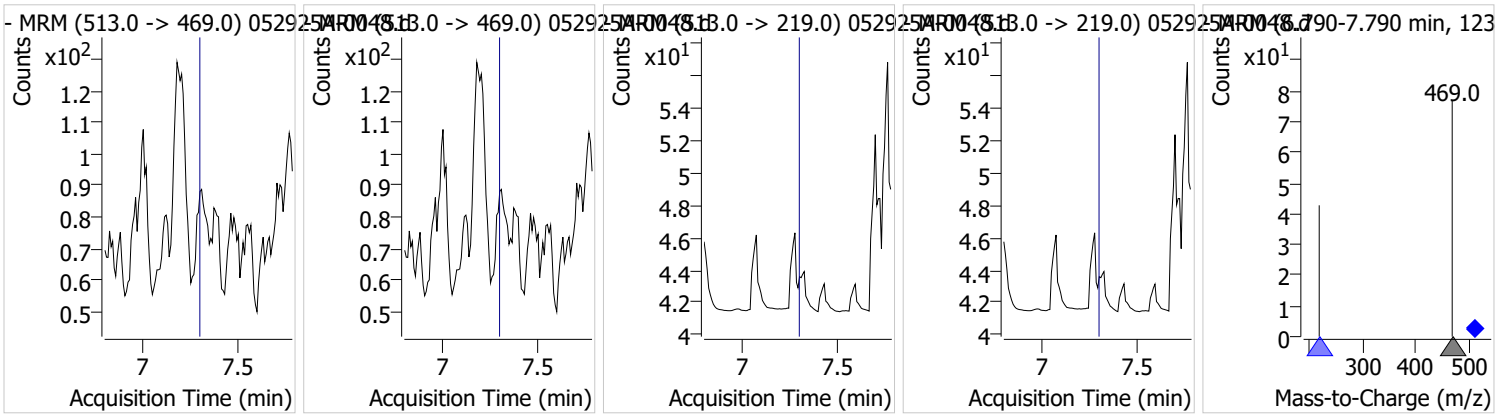
PFBS



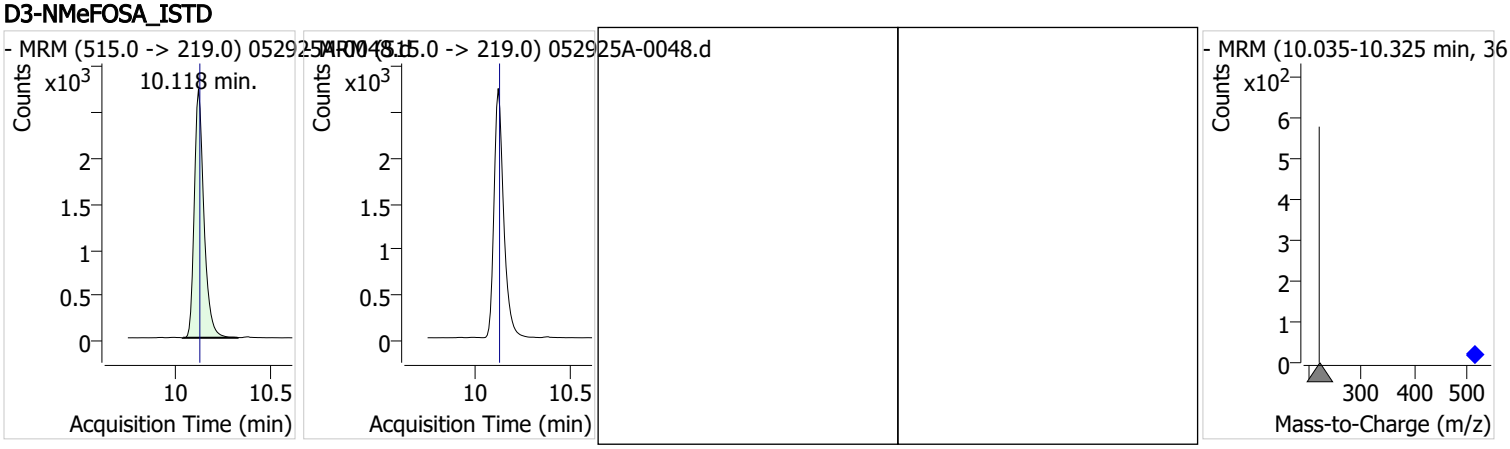
NMeFOSA



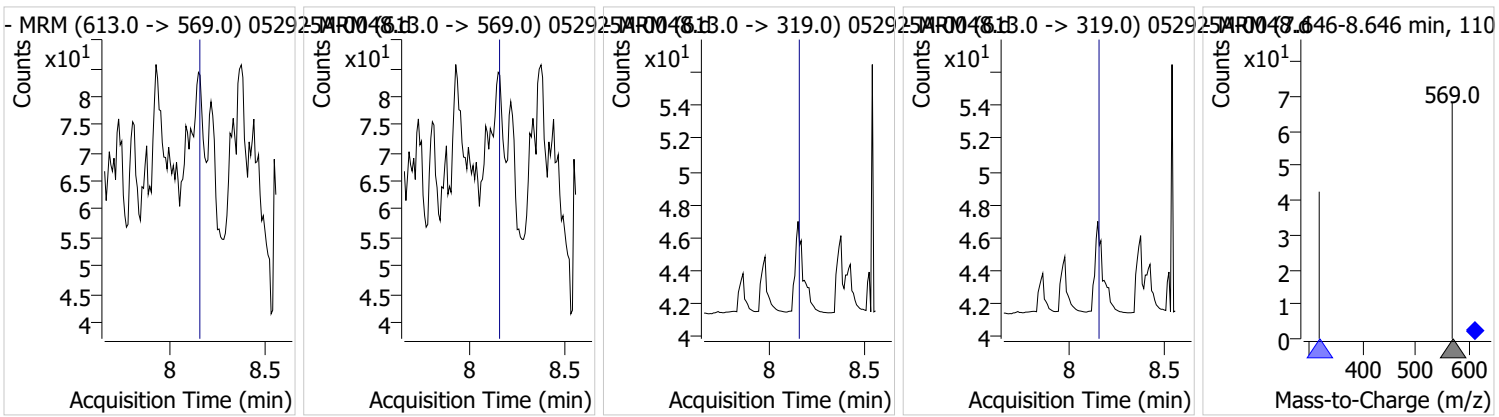
PFDA



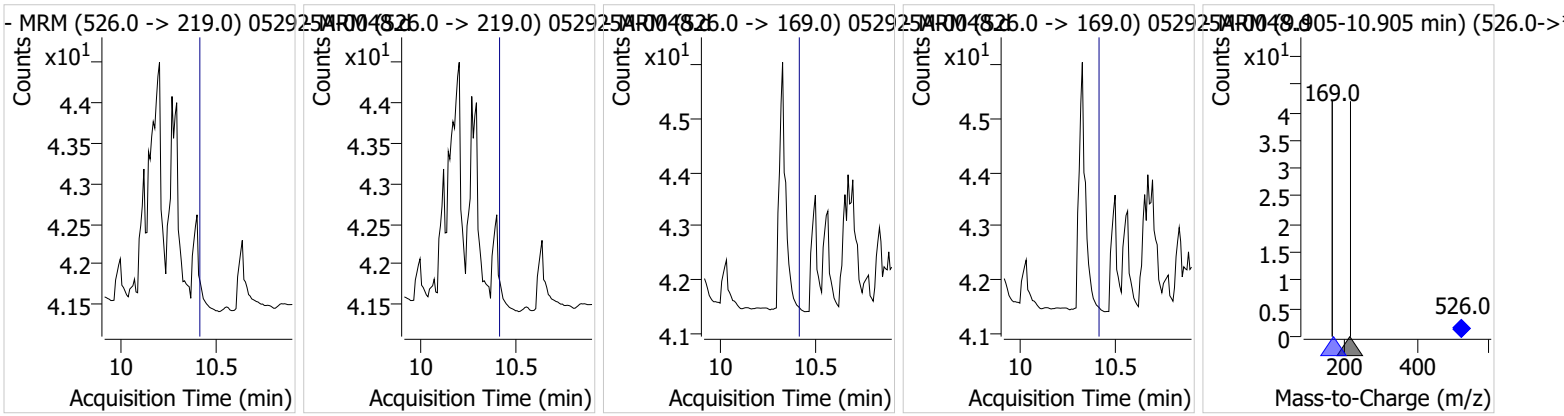
D3-NMeFOSA_ISTD



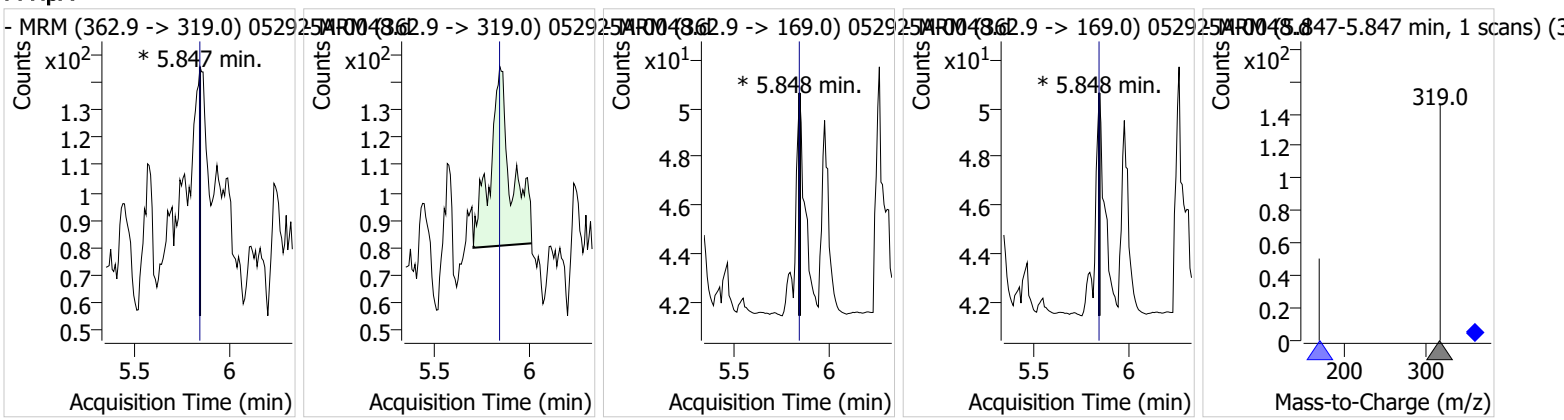
PFDoA



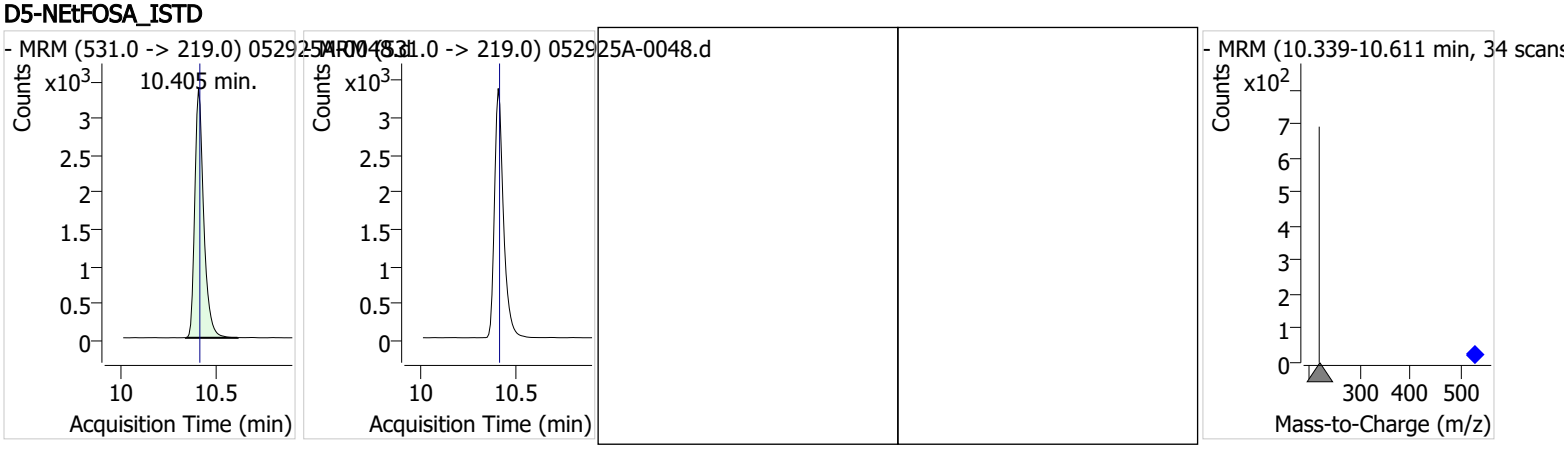
NEtFOSA



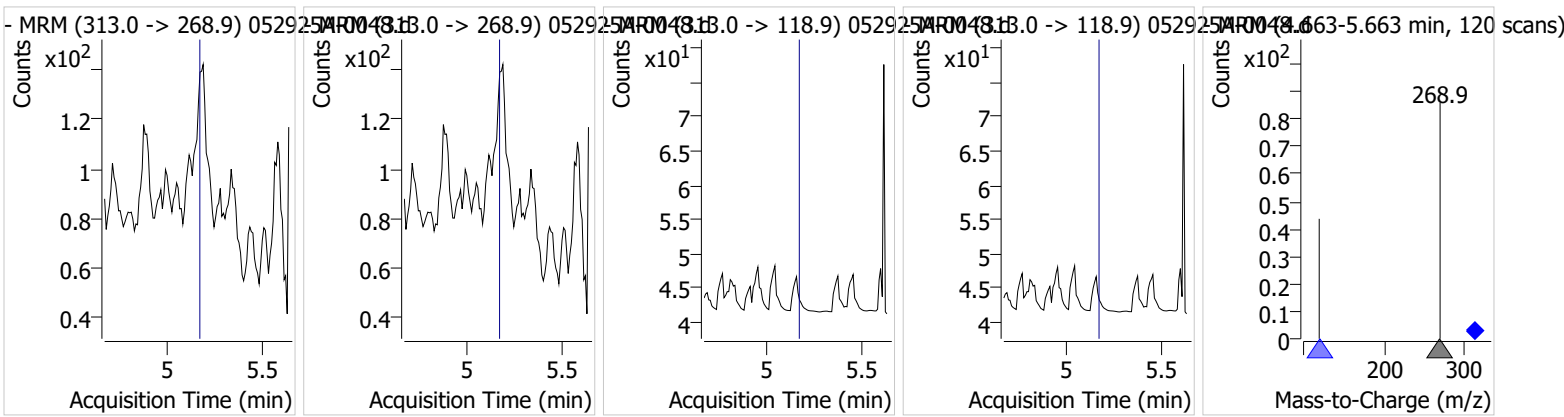
PFHpA



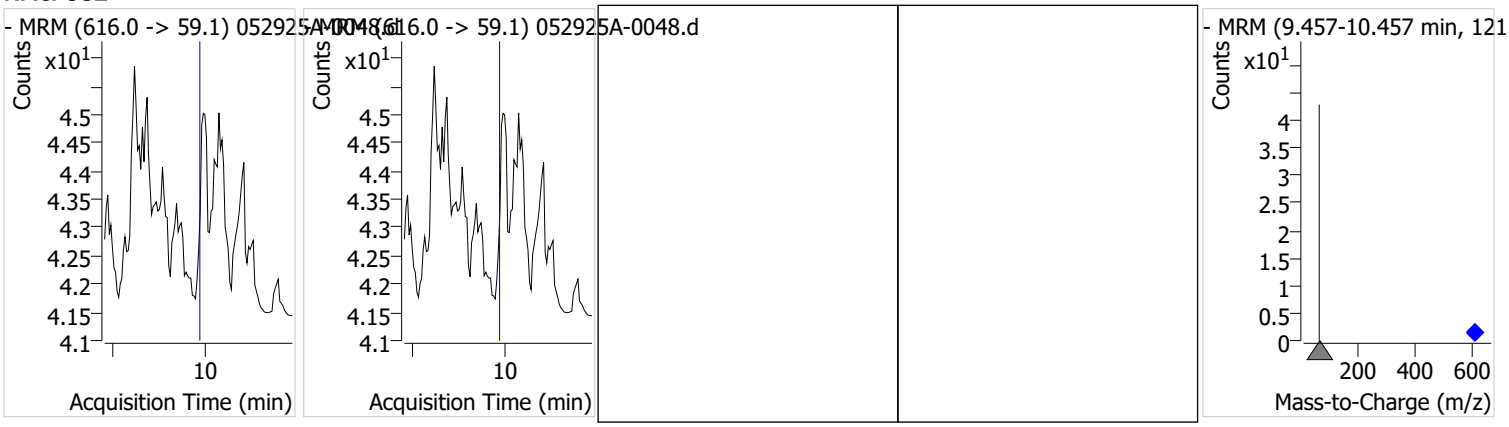
D5-NEtFOSA_ISTD



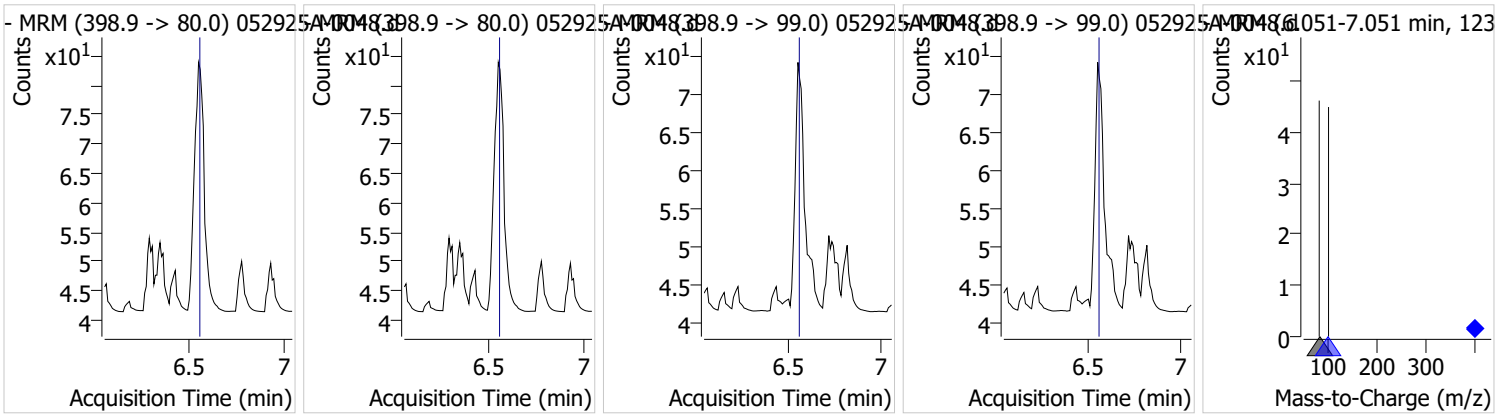
PFHxA



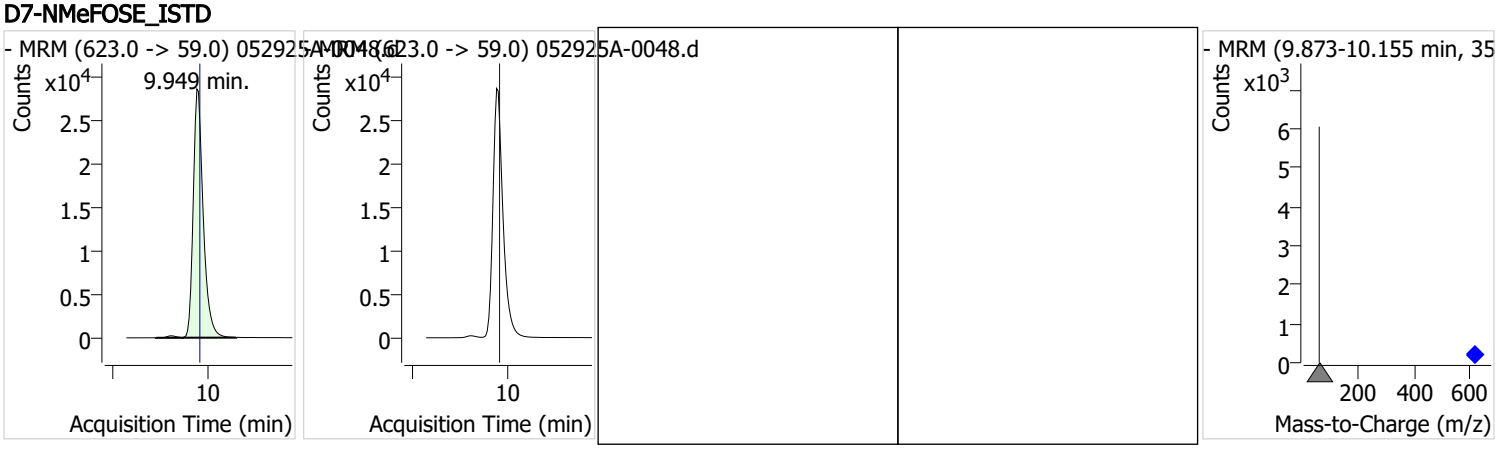
NMeFOSE



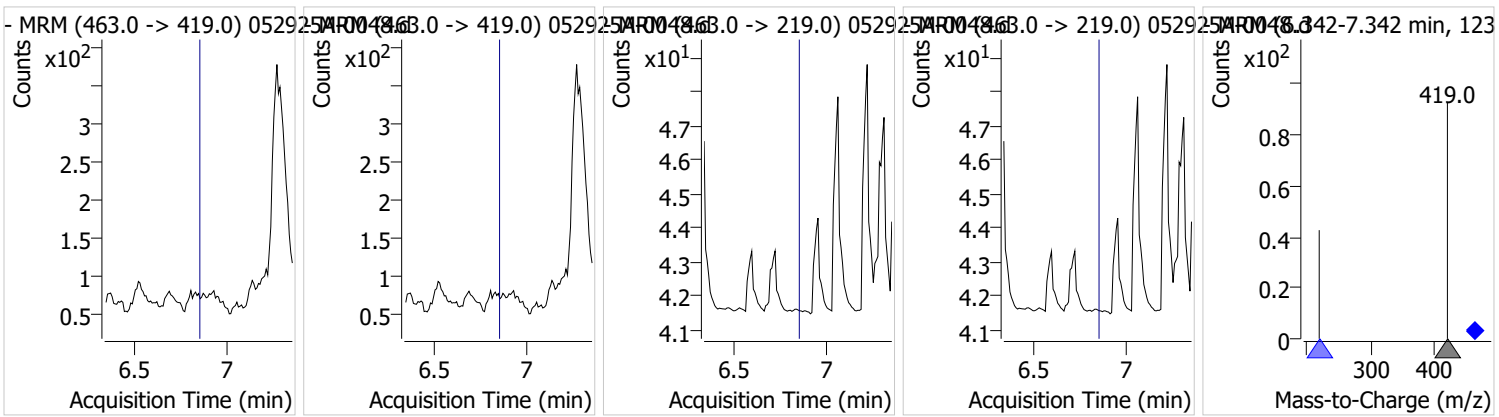
PFHxS



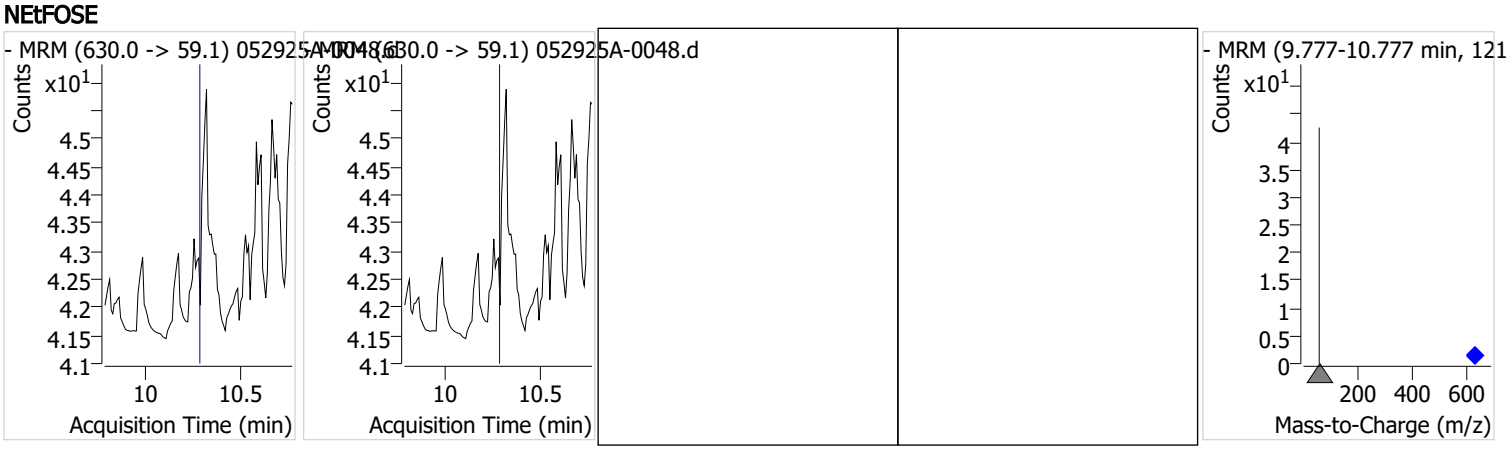
D7-NMeFOSE_ISTD



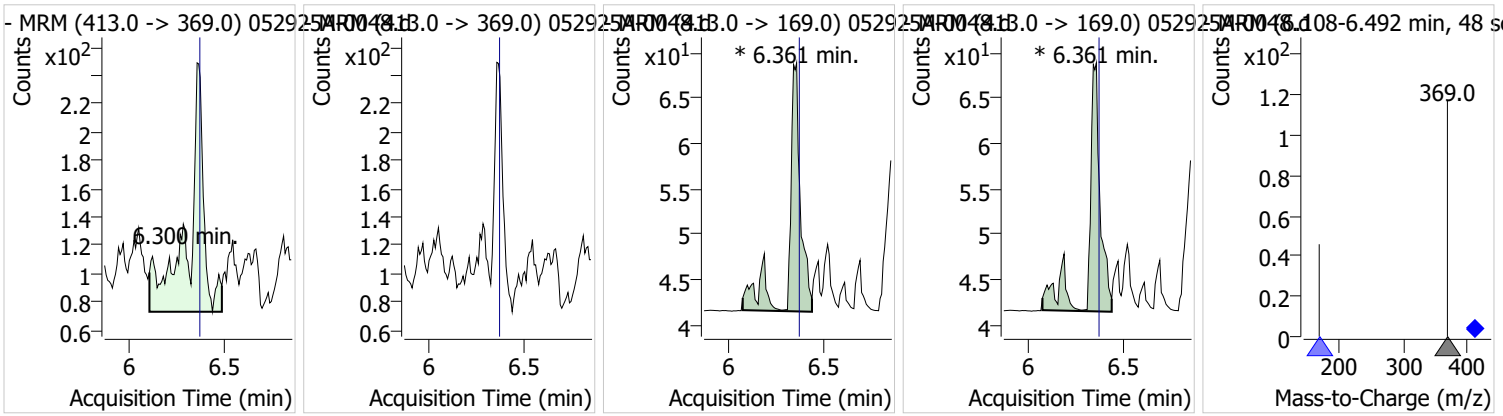
PFNA



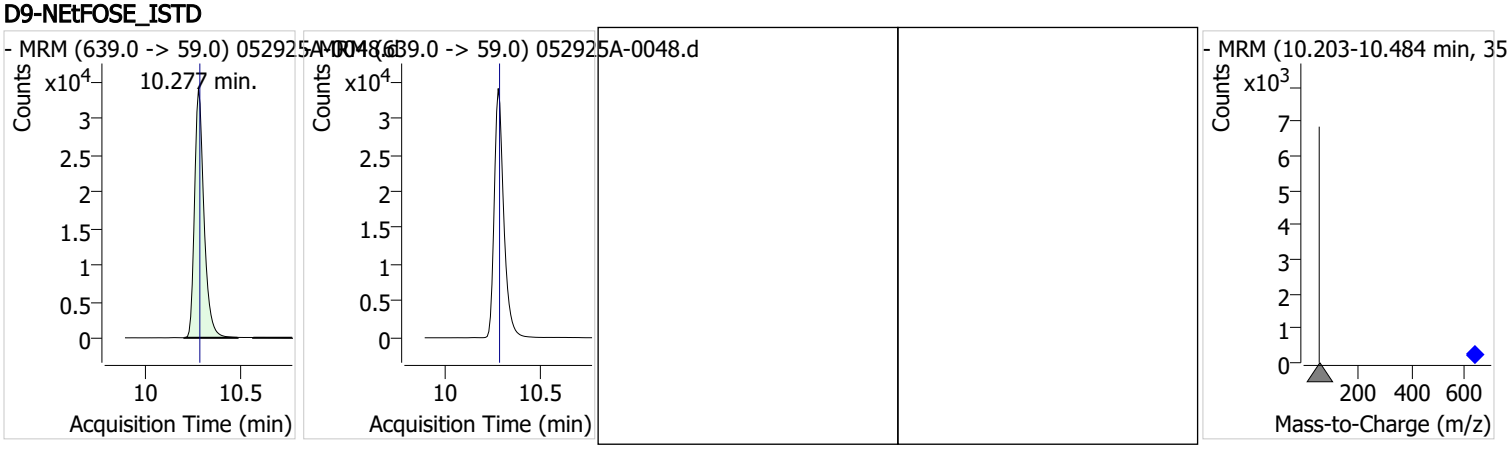
NEtFOSE



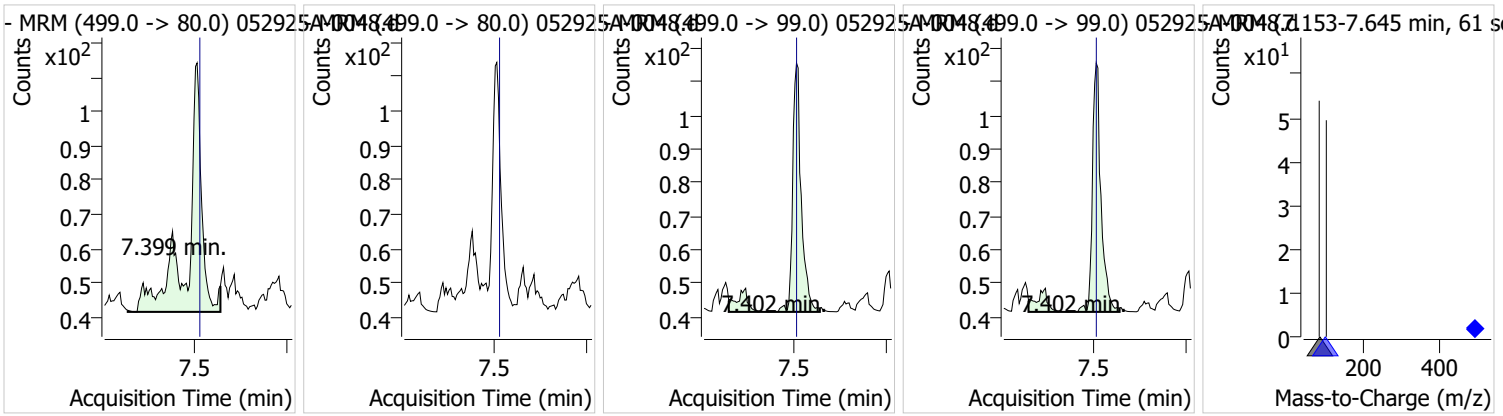
PFOA



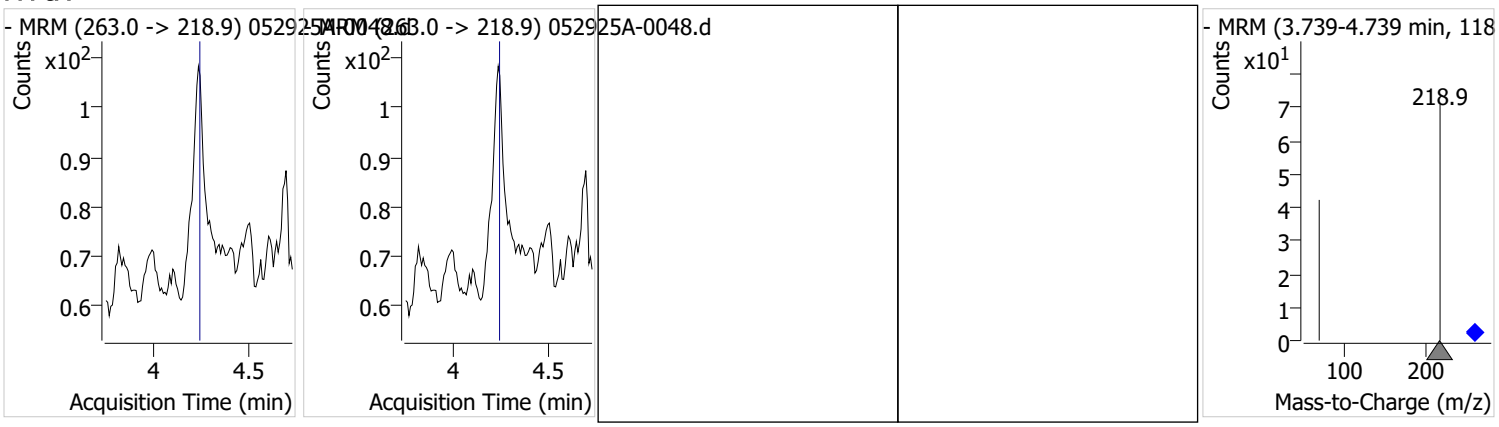
D9-NEtFOSE_ISTD



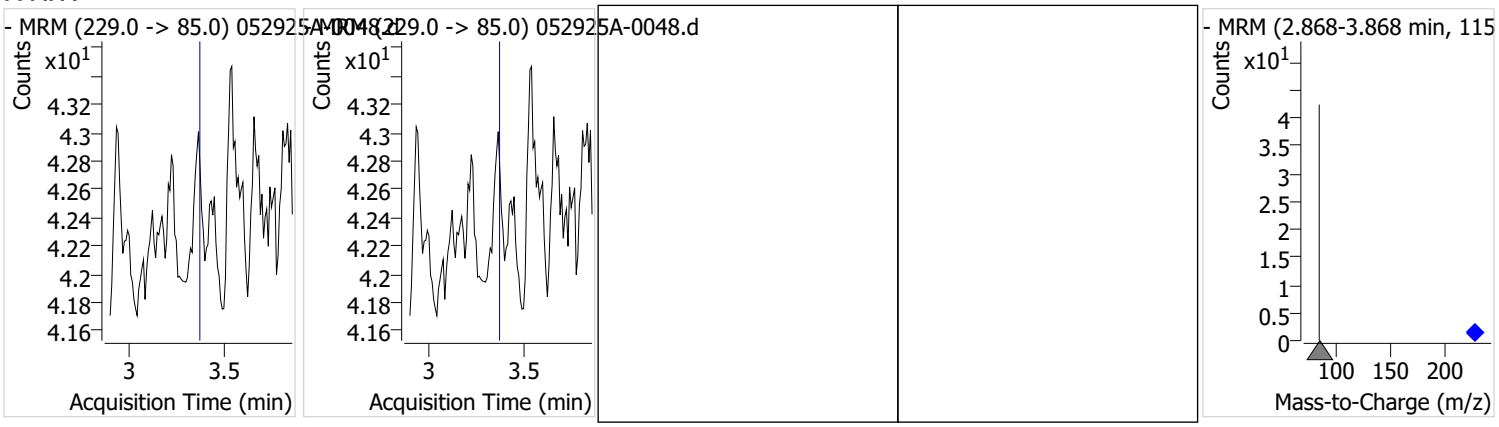
PFOS



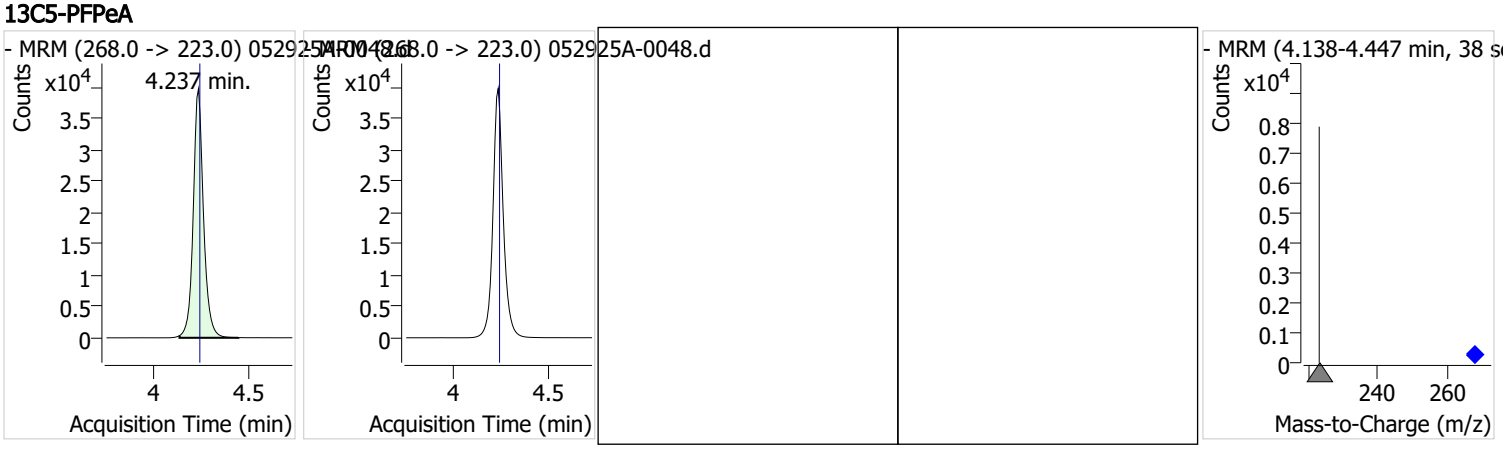
PFPeA



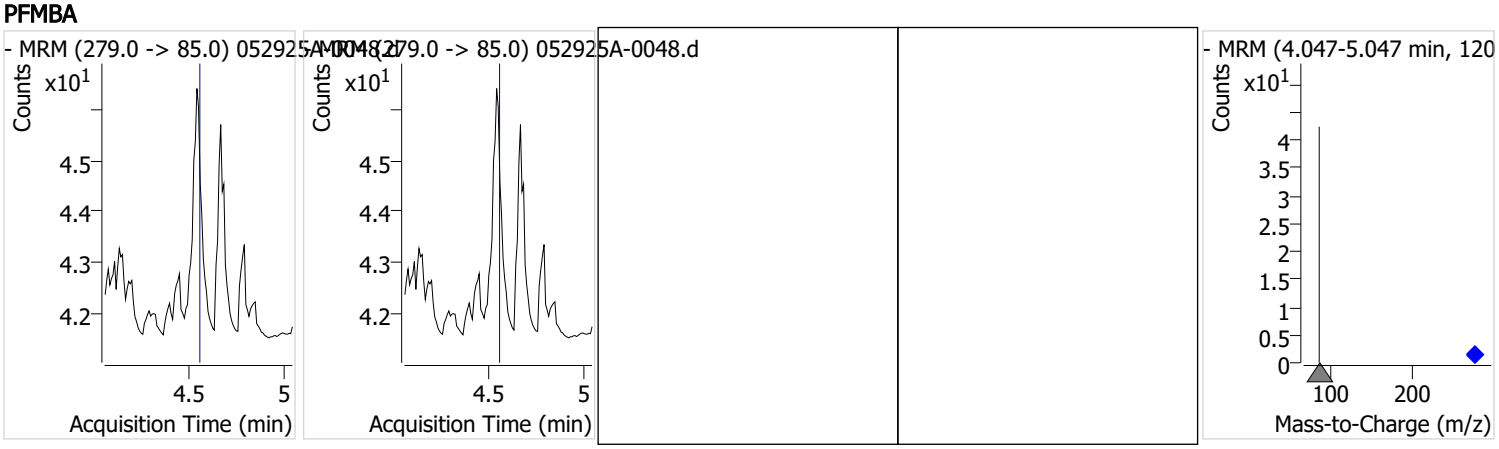
PFMPA



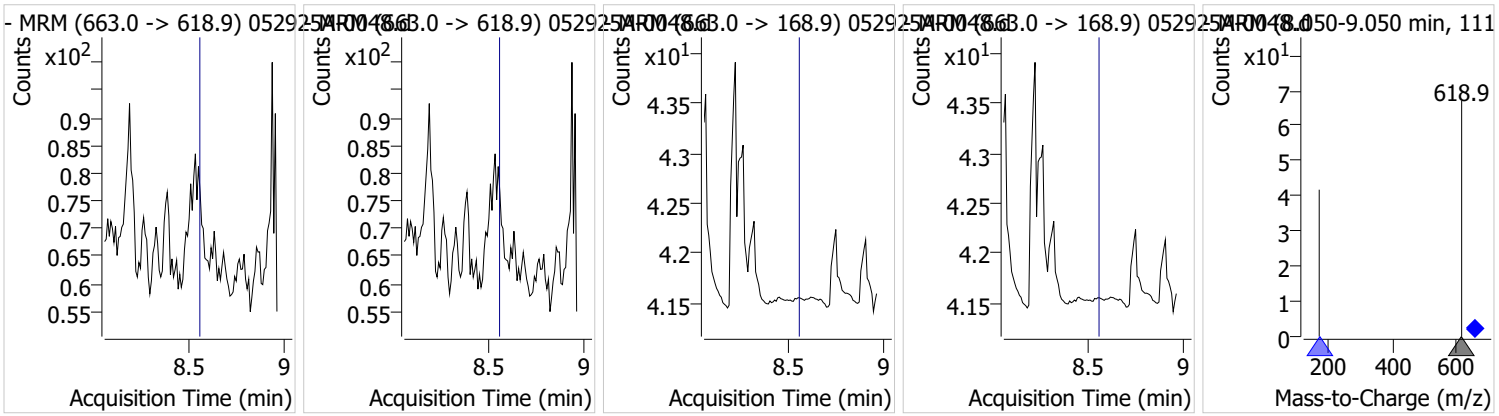
13C5-PFPeA



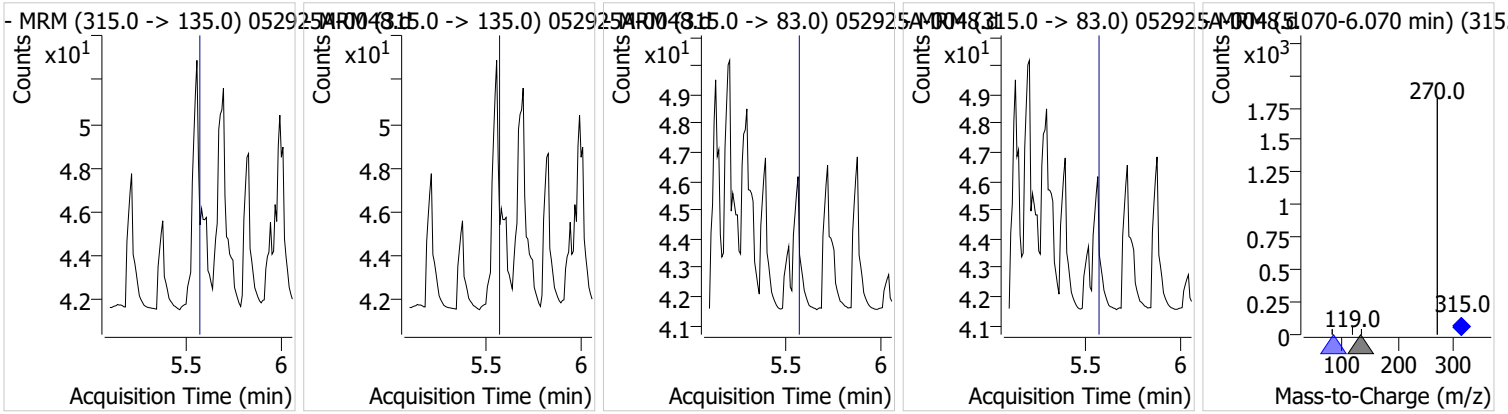
PFMBA



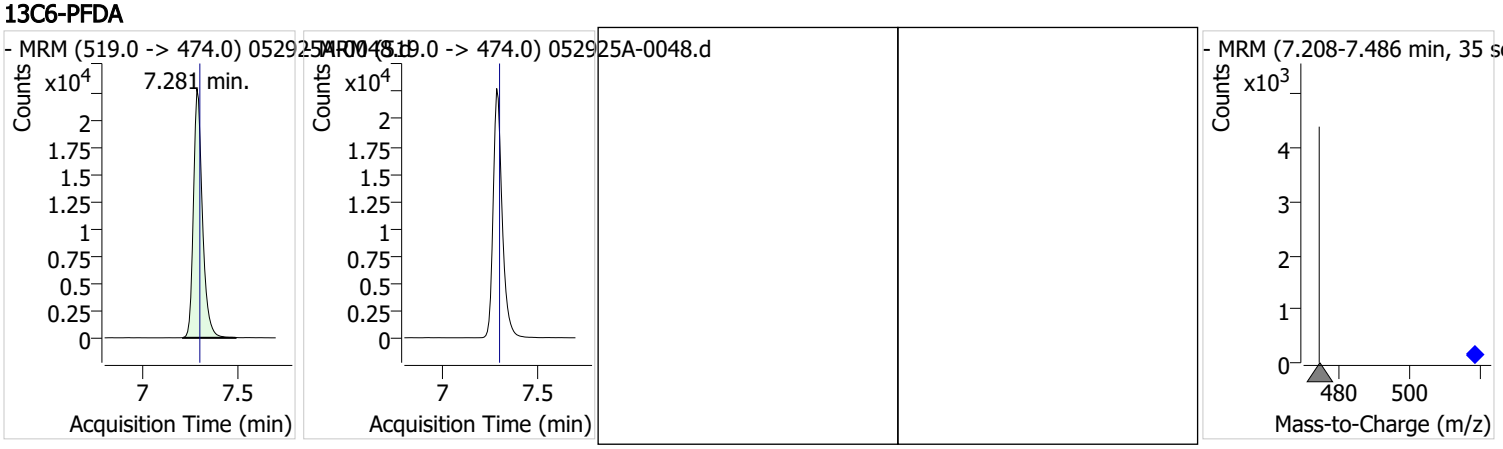
PFTrDA



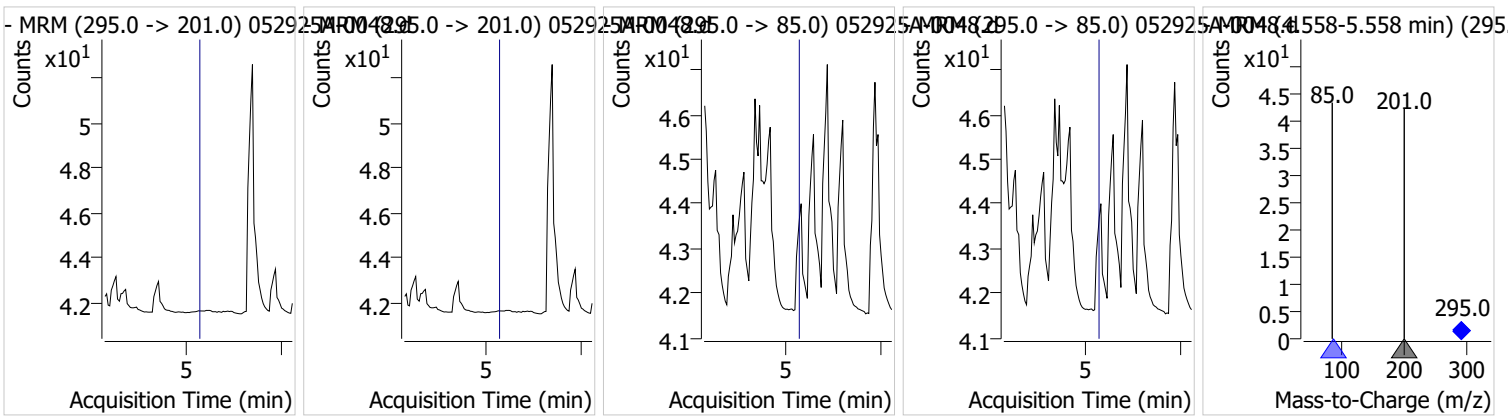
PFEESA



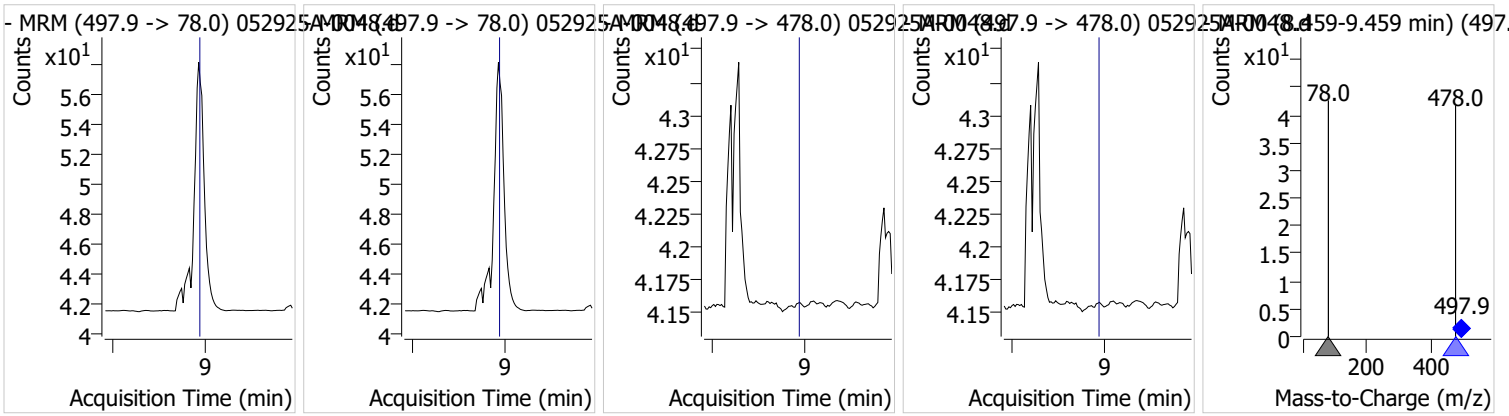
13C6-PFDA



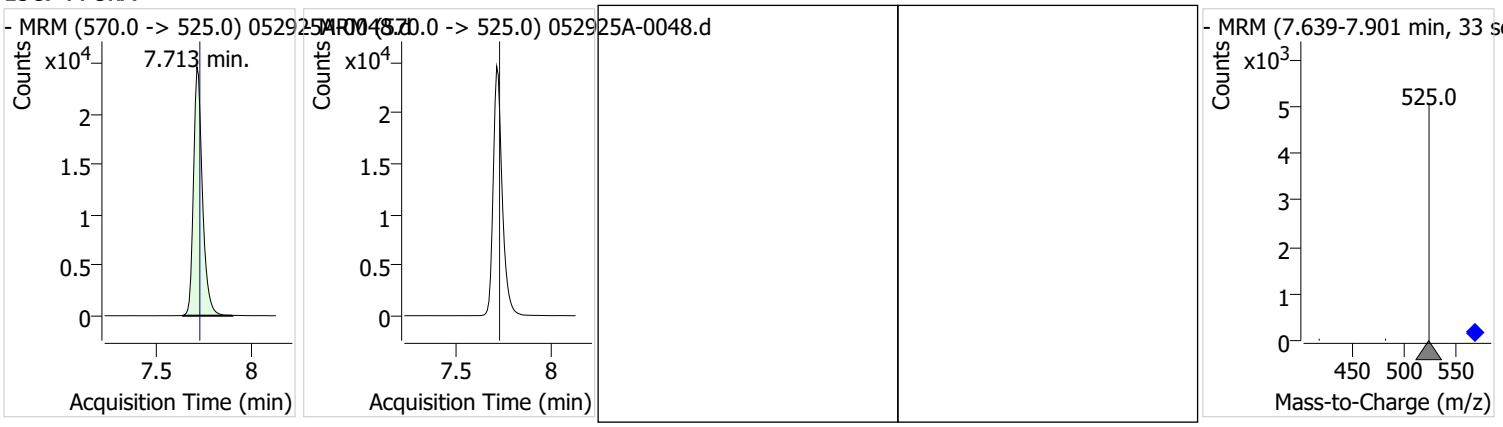
NFDHA



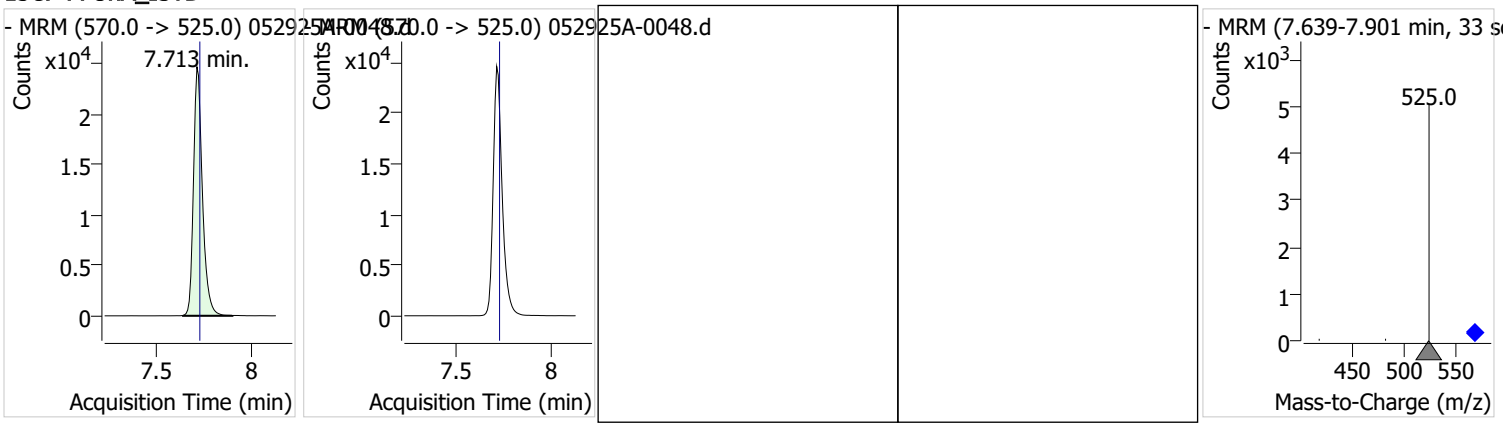
PFOSA



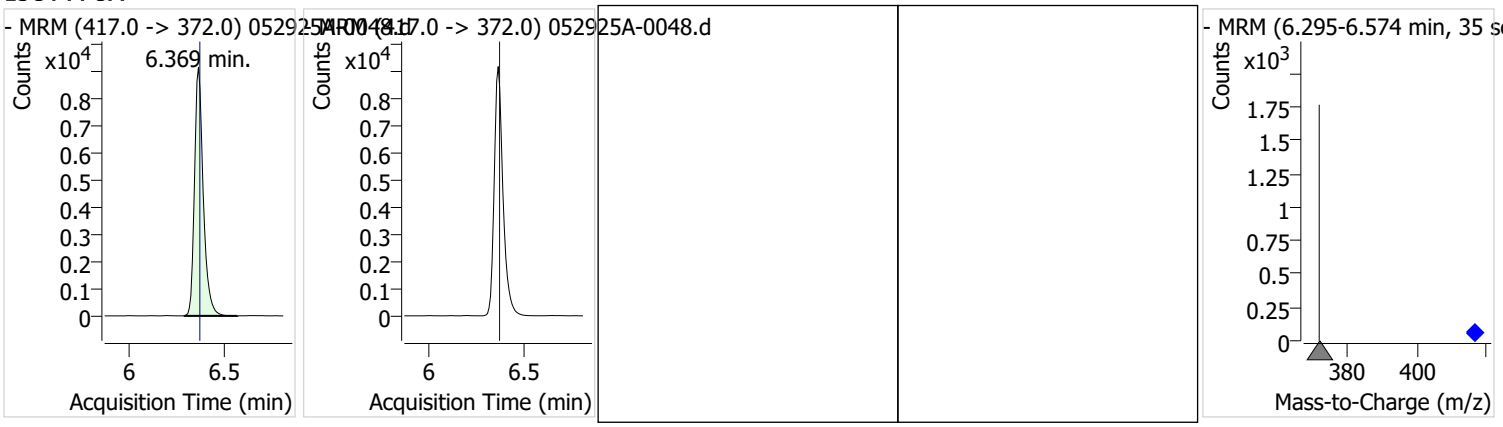
13C7-PFUnA



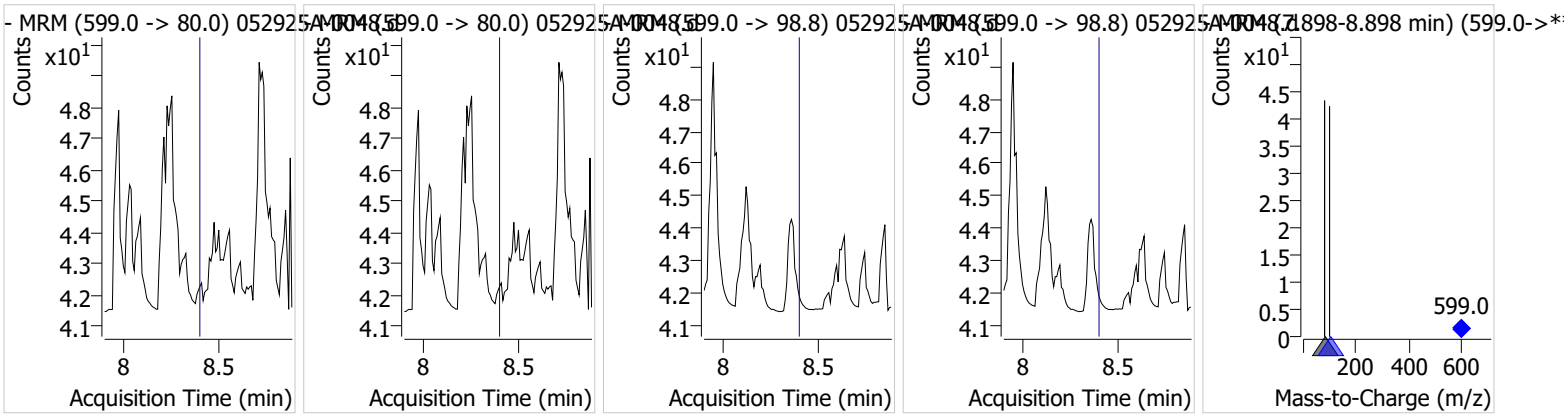
13C7-PFUnA_ISTD



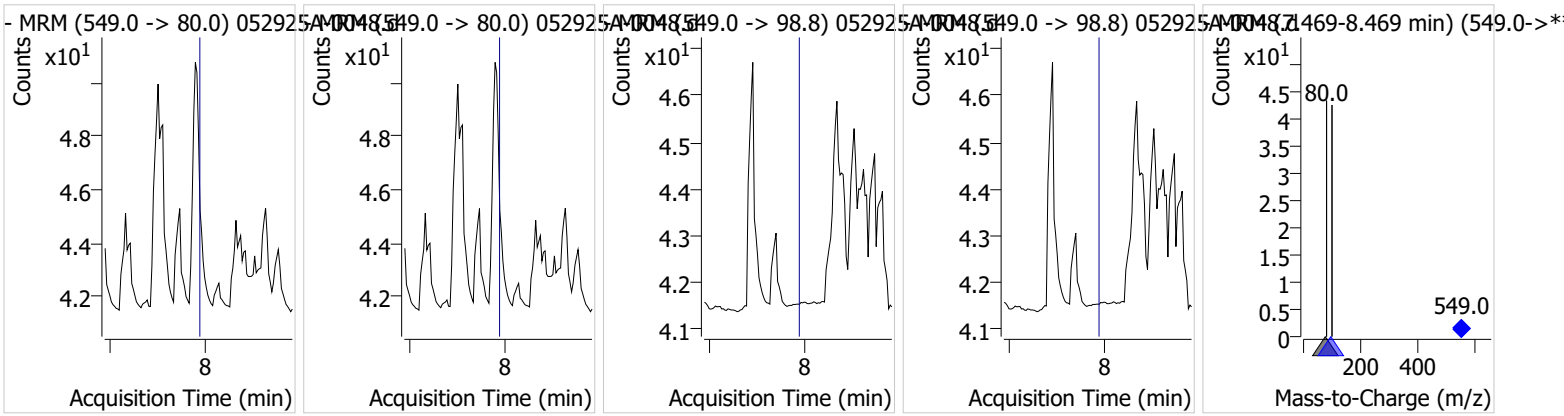
13C4-PFOA



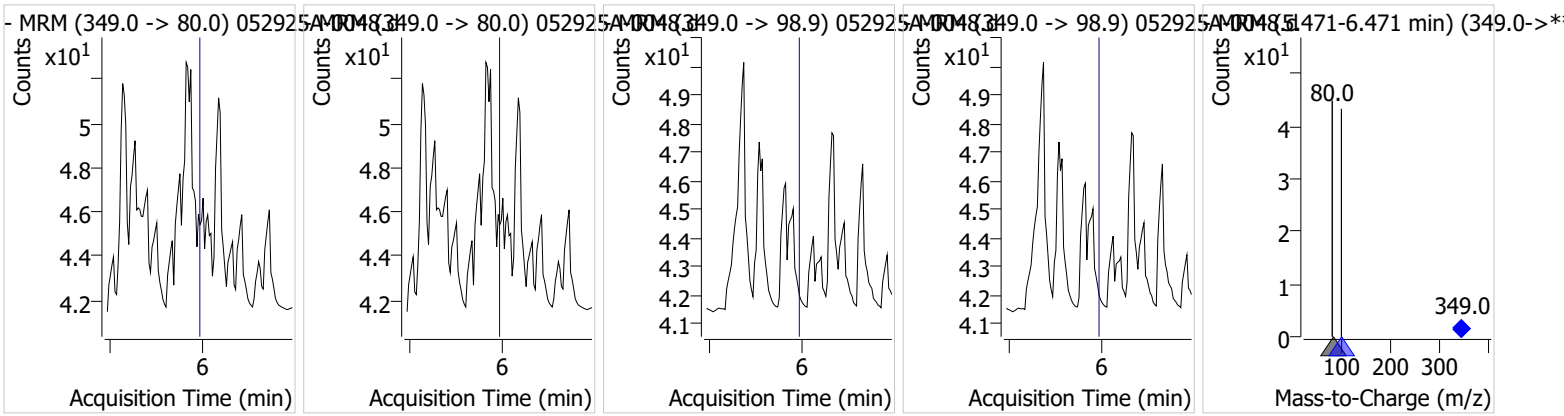
PFDS



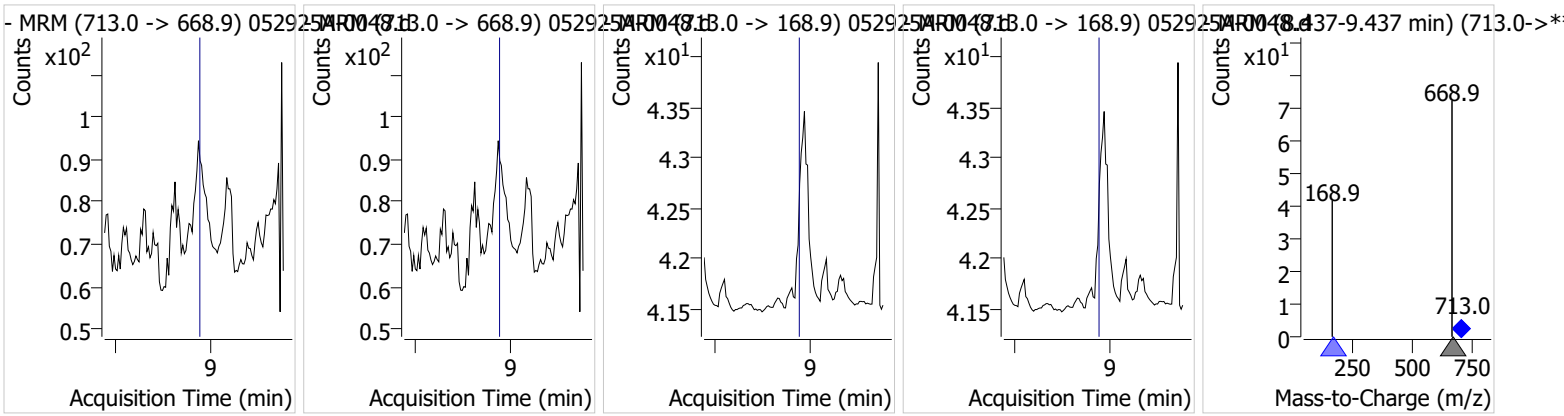
PFNS



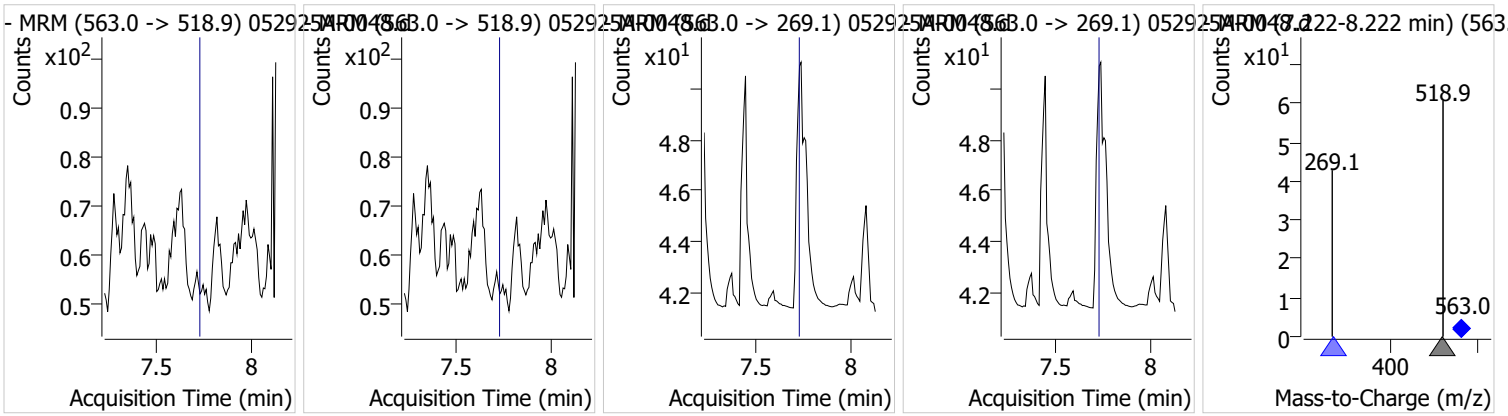
PFPeS



PFTeDA



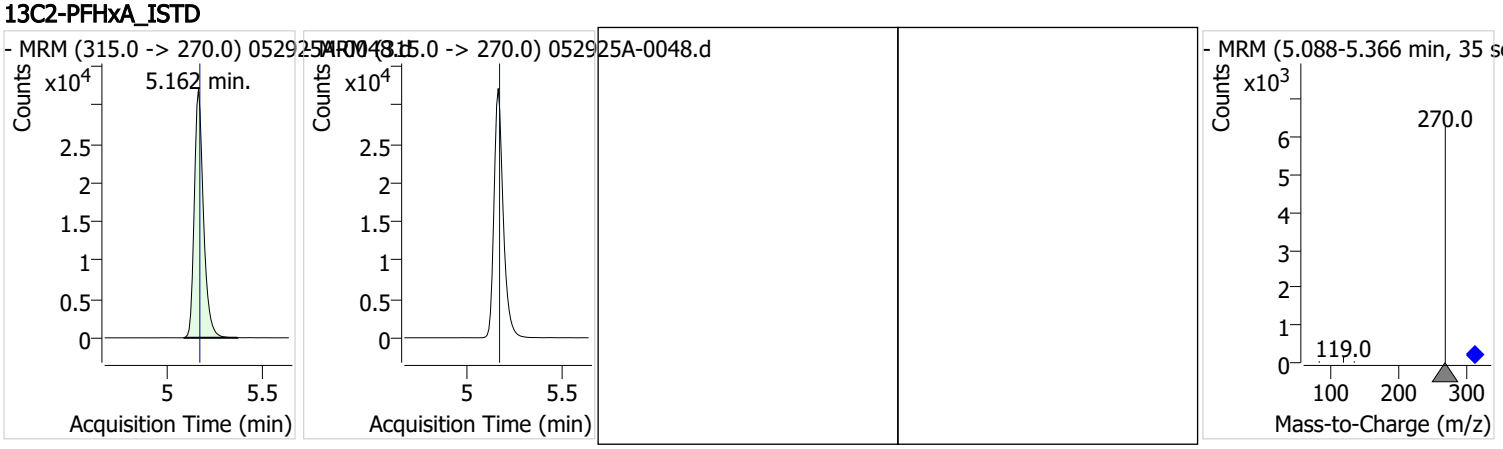
PFUnA



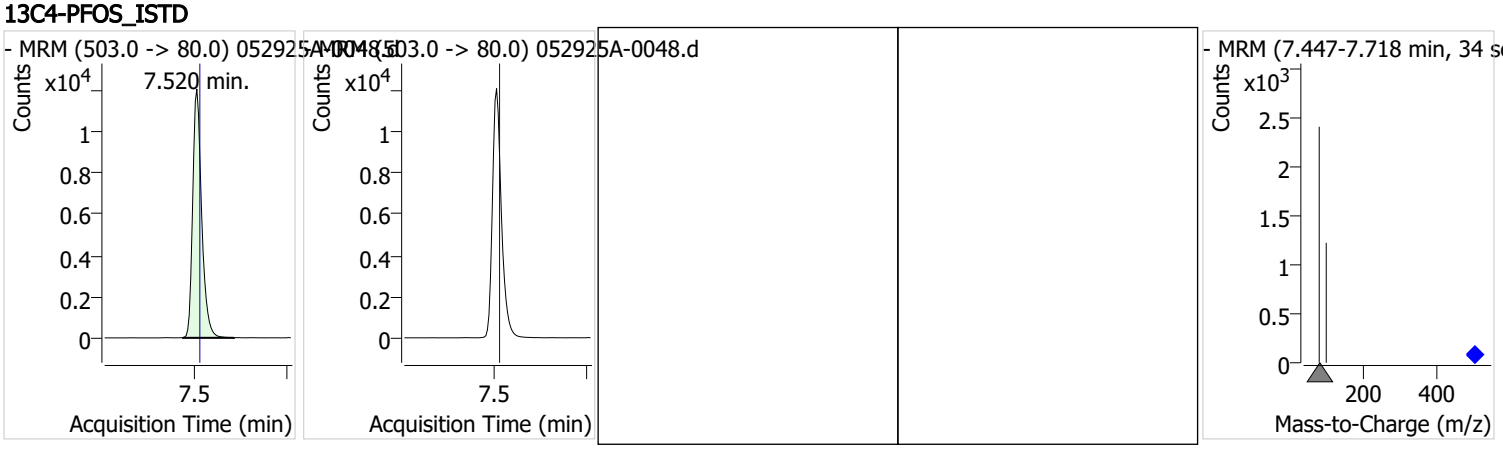
13C2-PFDA_ISTD



13C2-PFHxA_ISTD



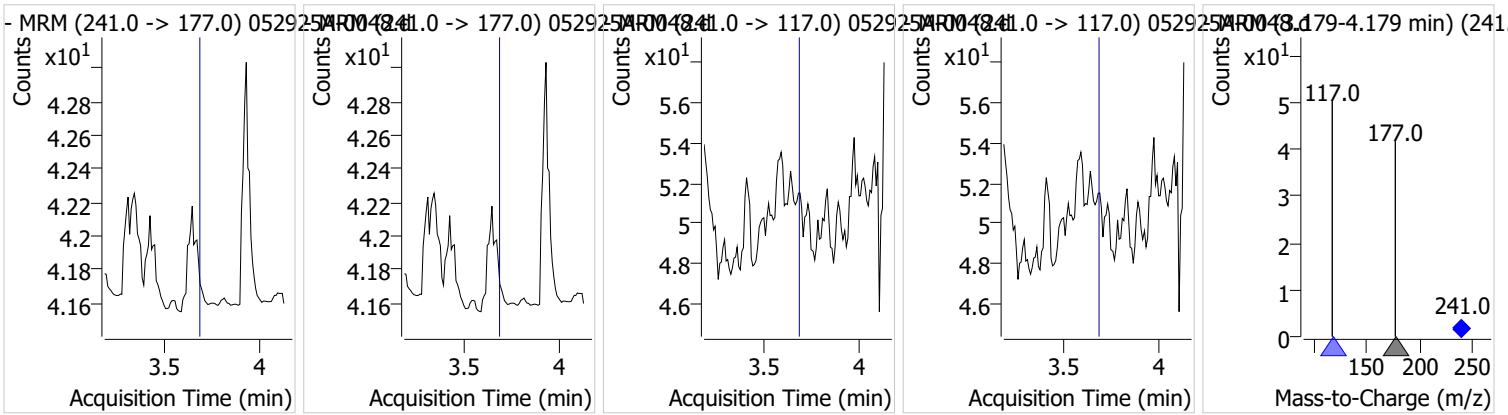
13C4-PFOS_ISTD



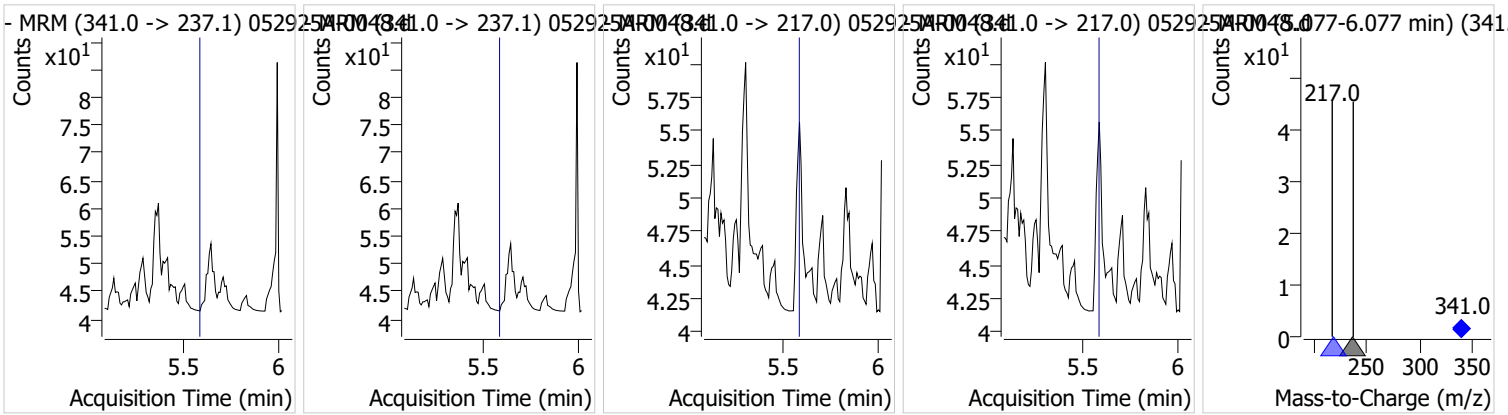
13C3-PFBA



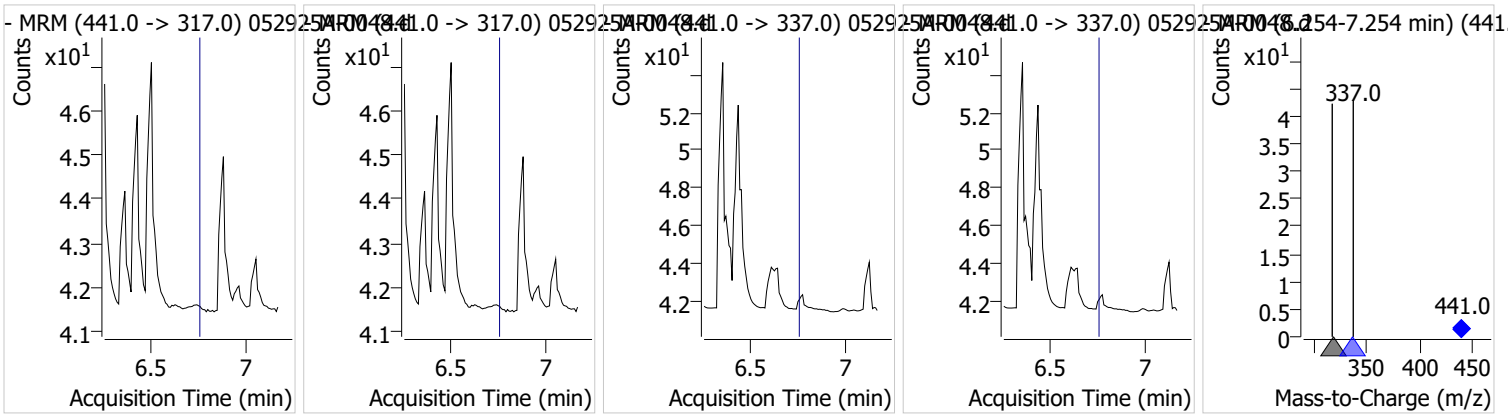
3:3FTCA



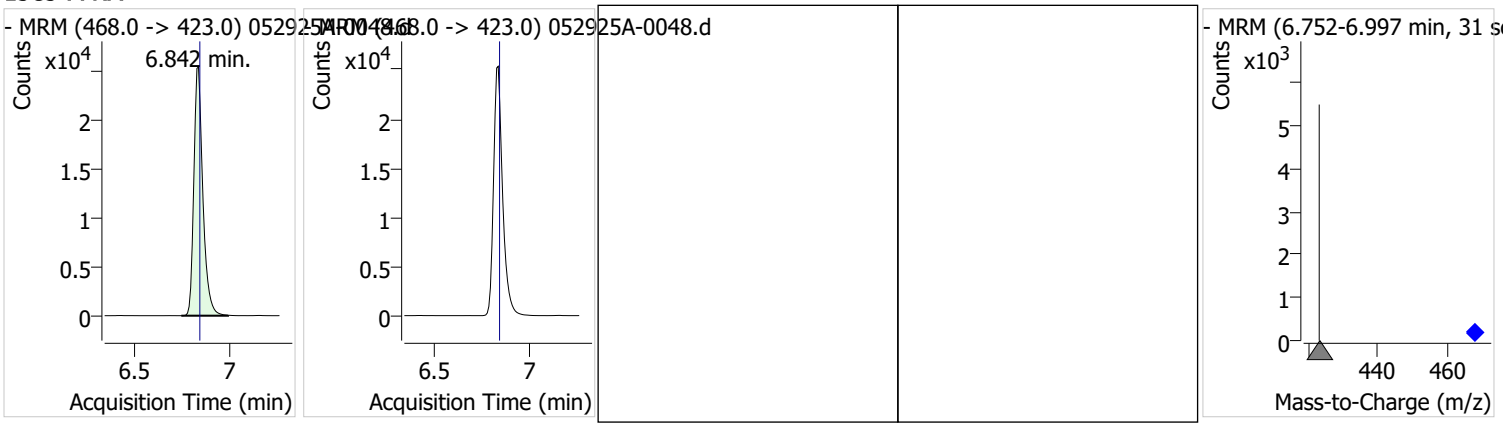
5:3FTCA



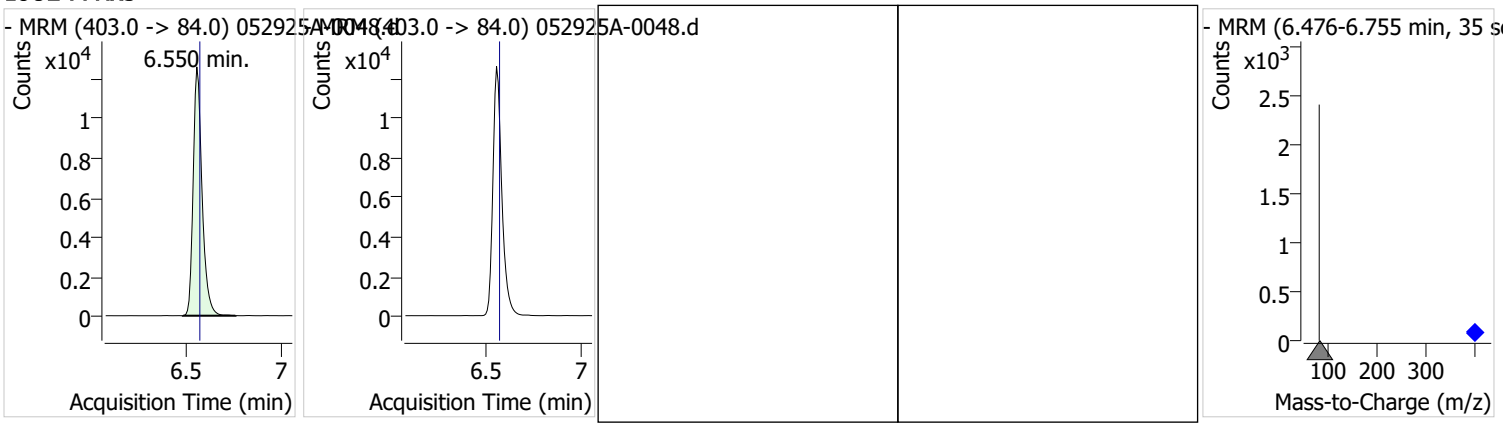
7:3FTCA



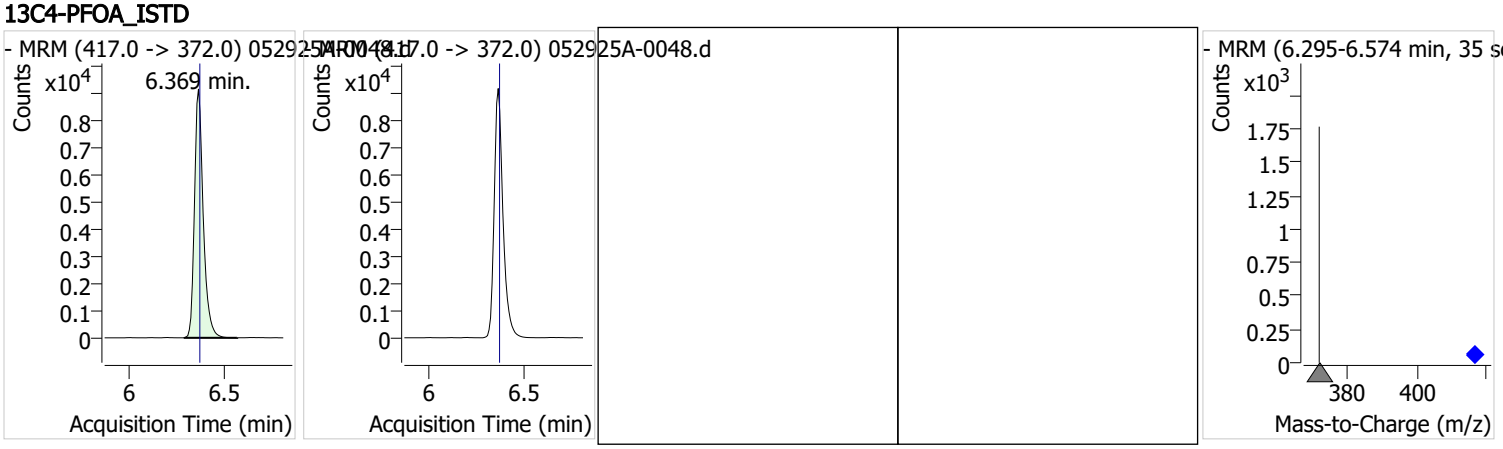
13C5-PFNA



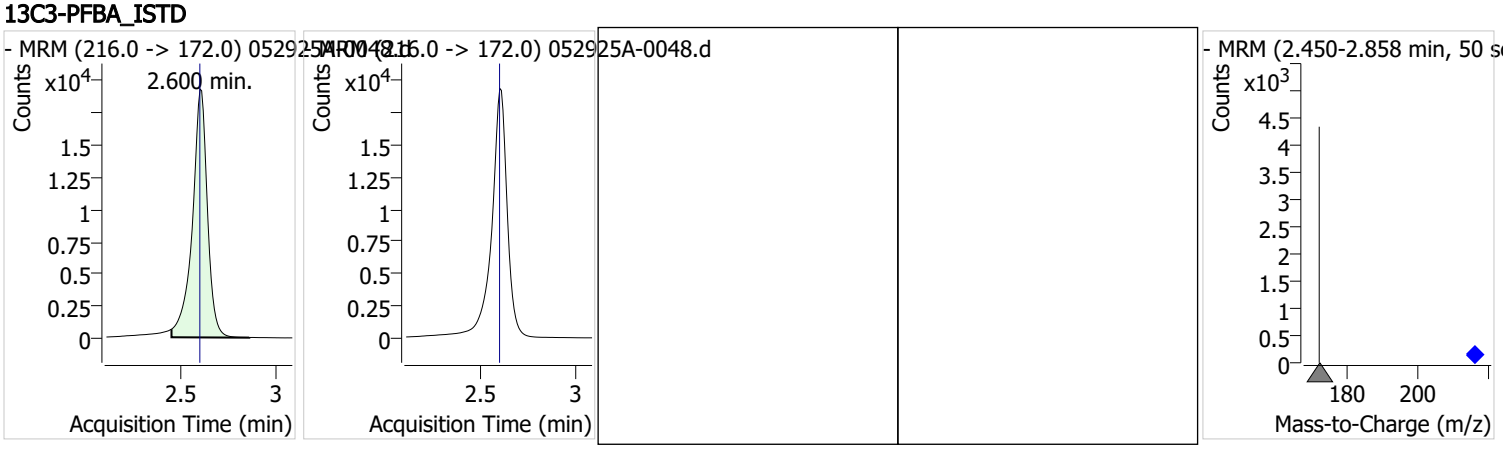
18O2-PFHxS



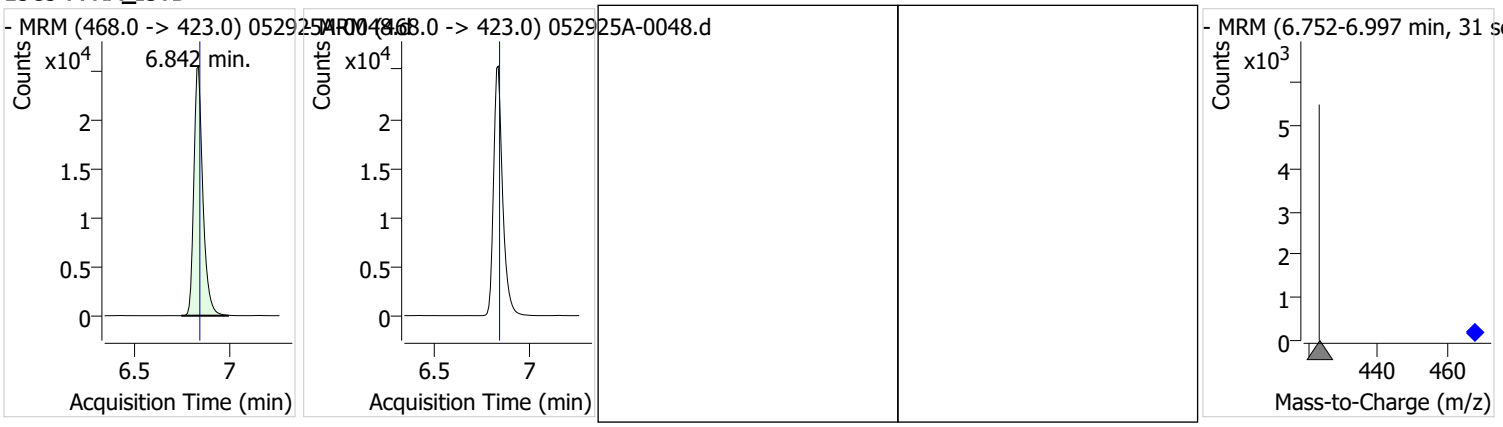
13C4-PFOA_ISTD



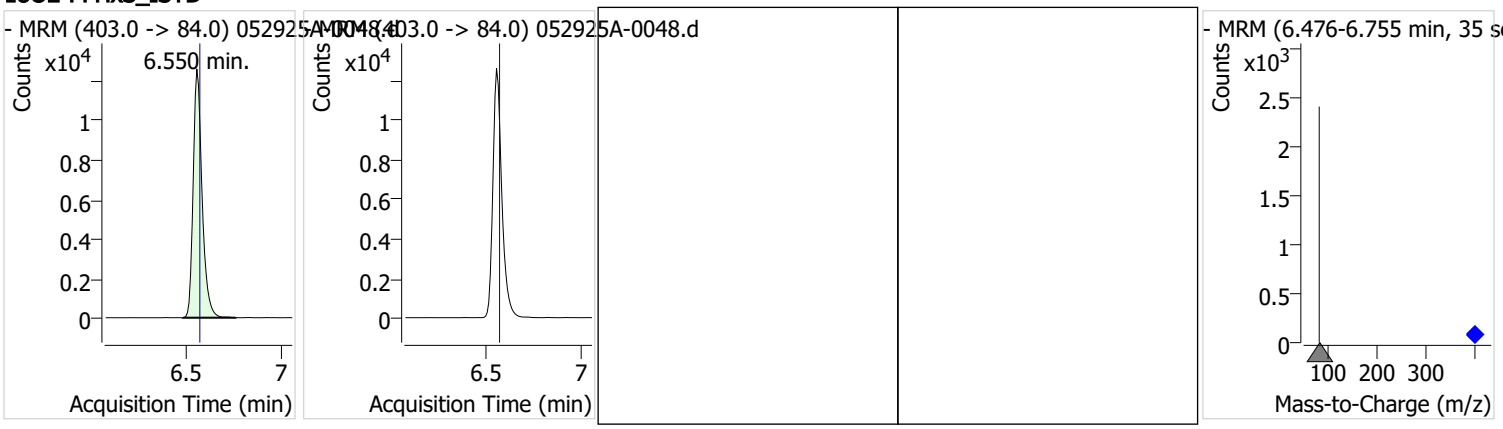
13C3-PFBA_ISTD



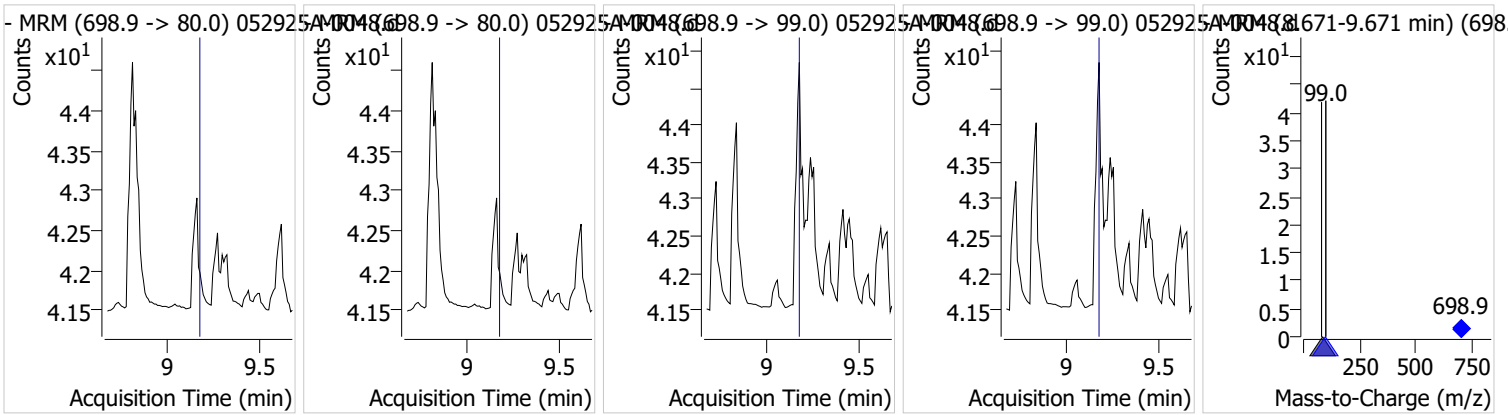
13C5-PFNA_ISTD



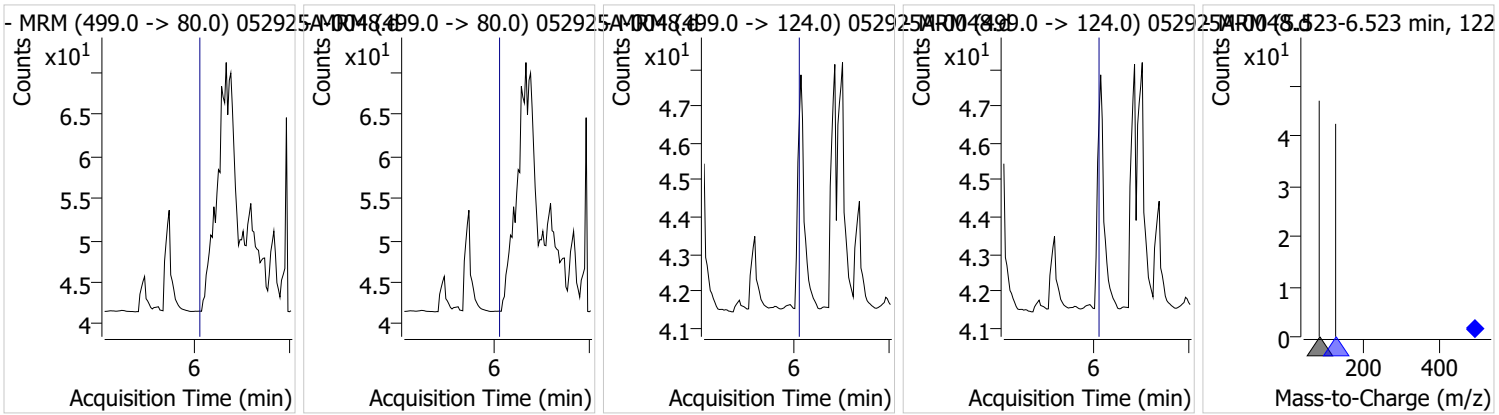
18O2-PFHxS_ISTD



PFDoS



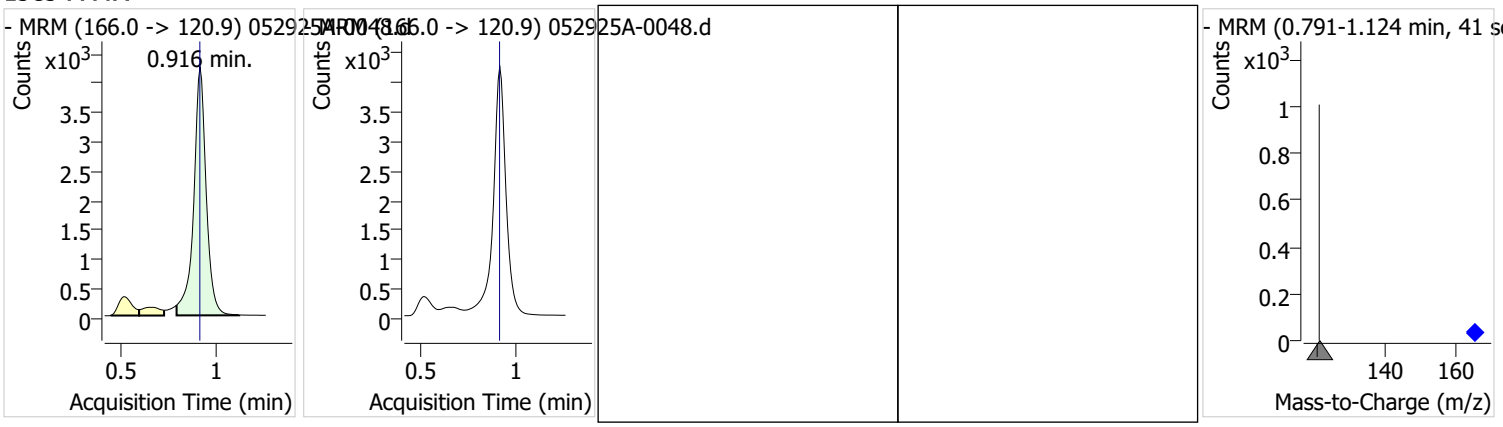
TDCA



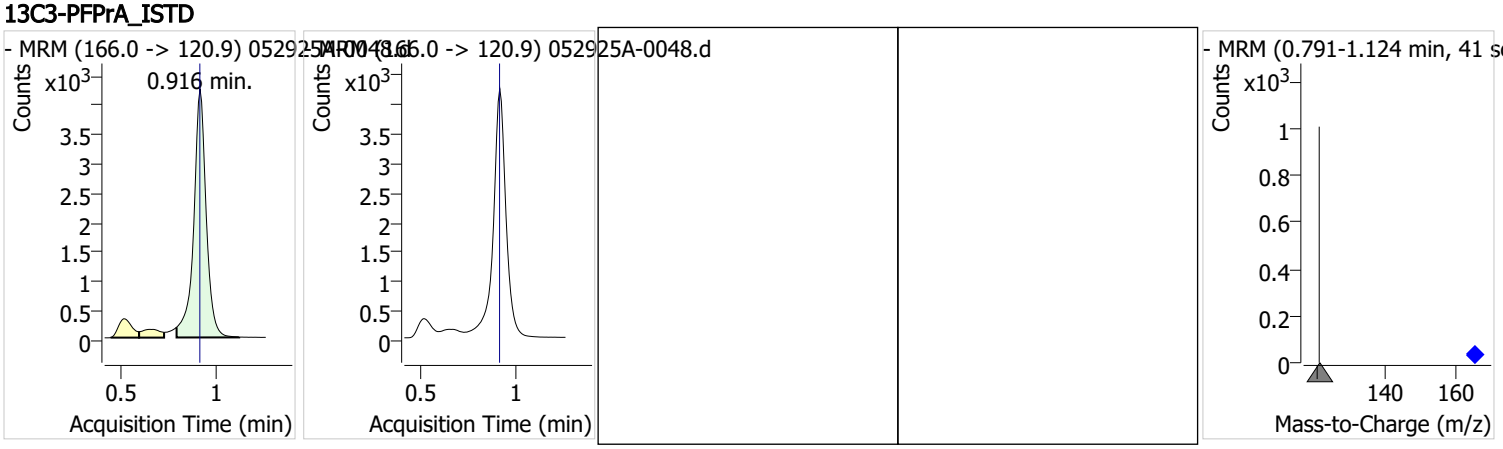
PFPrA



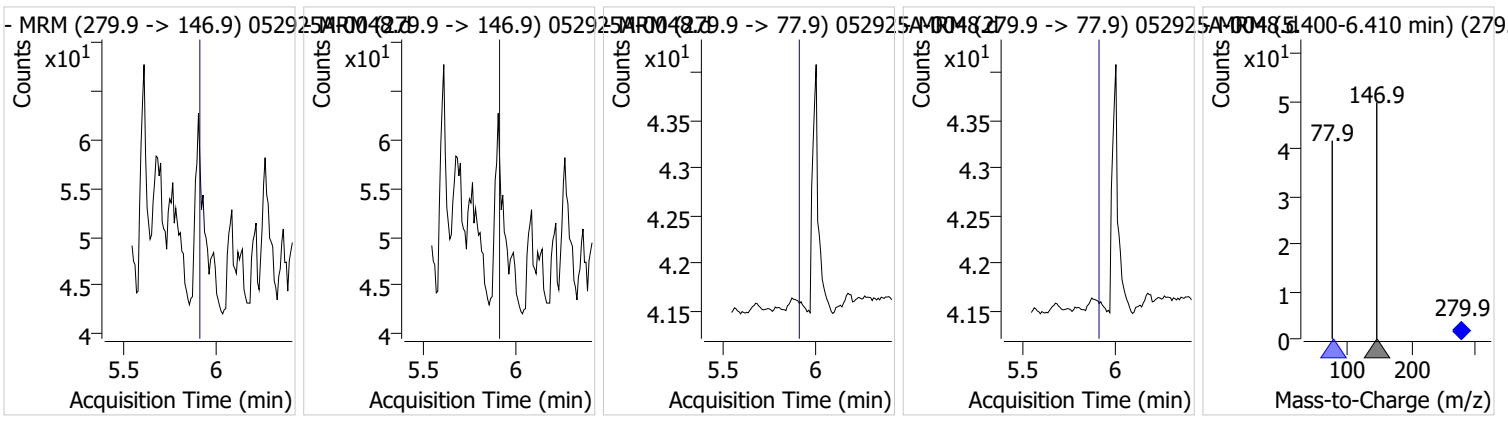
13C3-PFPrA



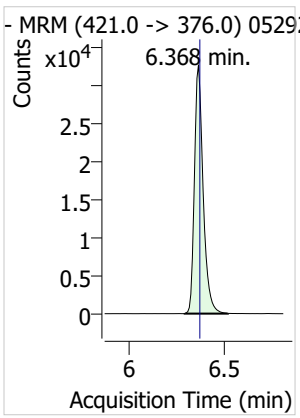
13C3-PFPrA_ISTD

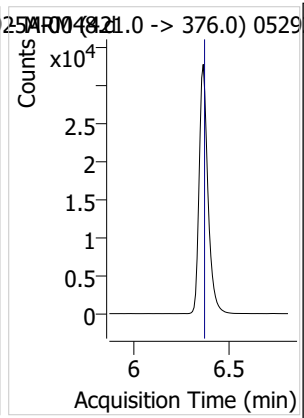


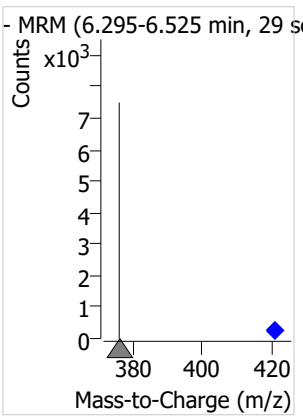
TFSI



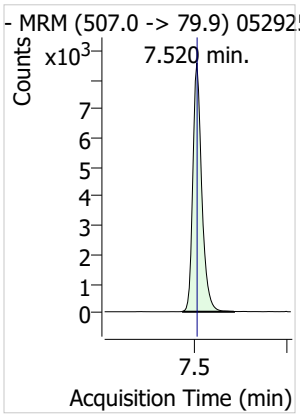
13C8-PFOA

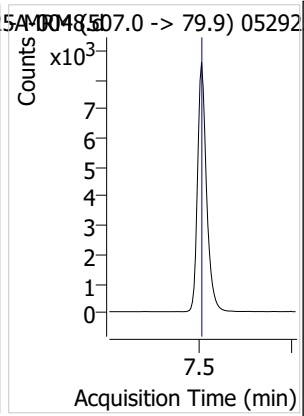


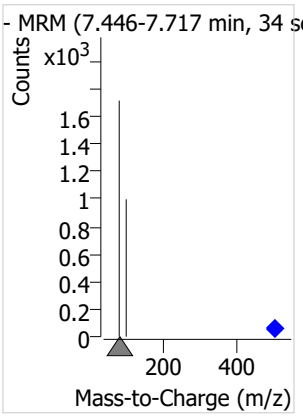




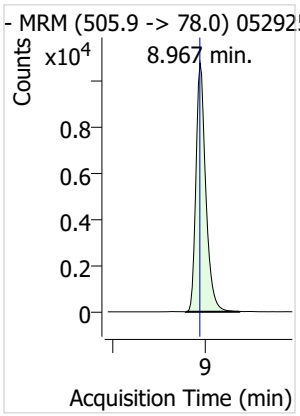
13C8-PFOS

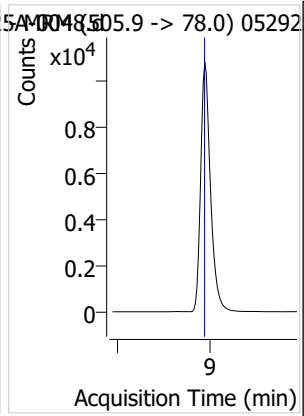


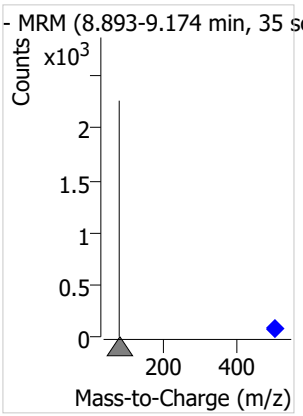




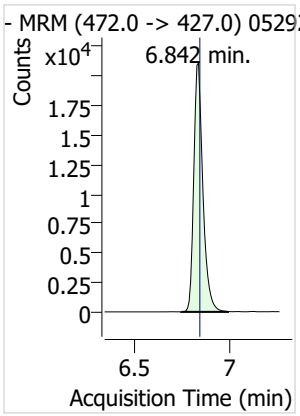
13C8-PFOSA

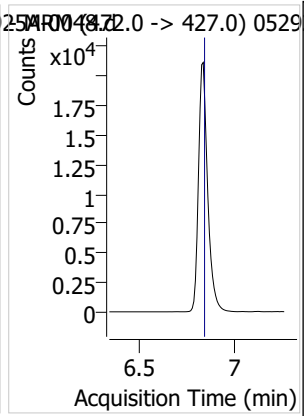


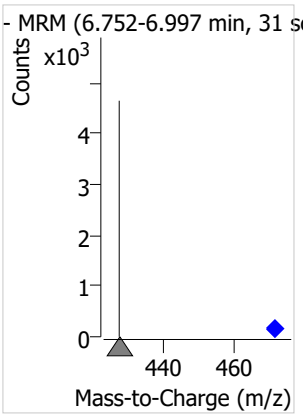




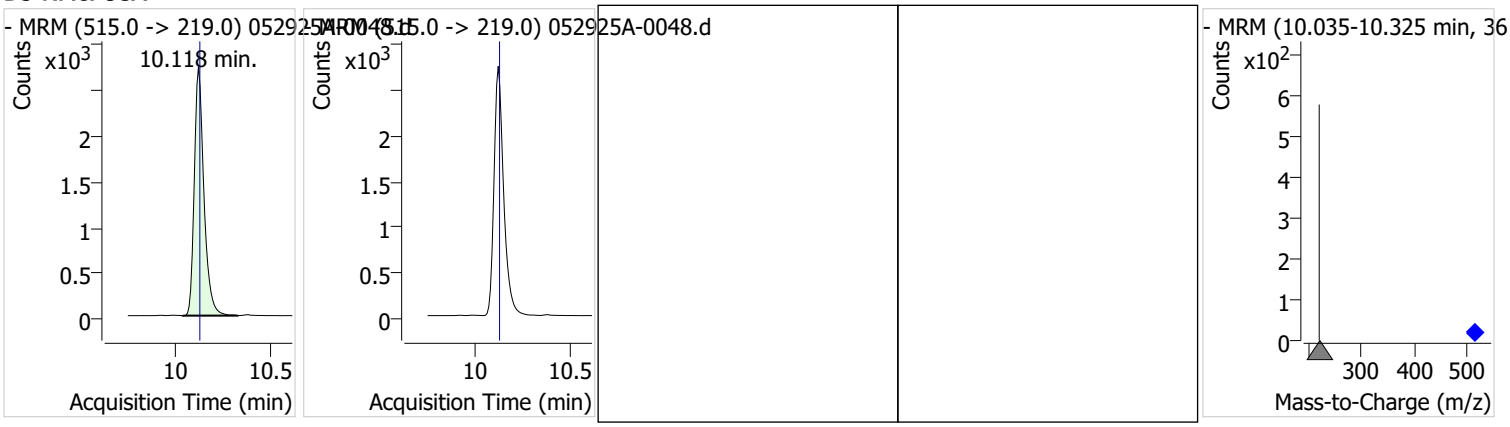
13C9-PFNA



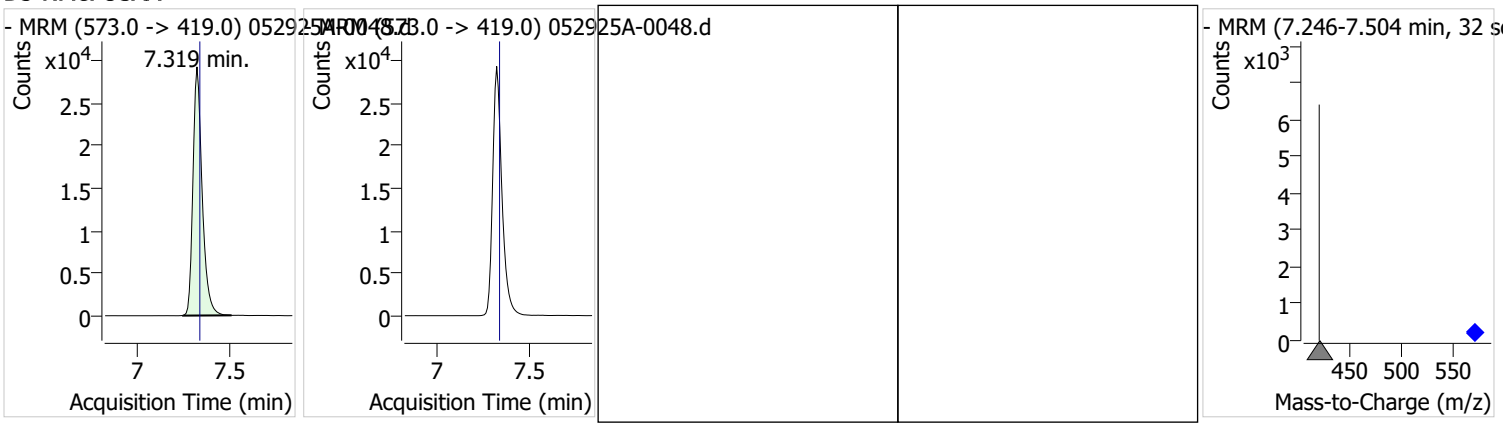




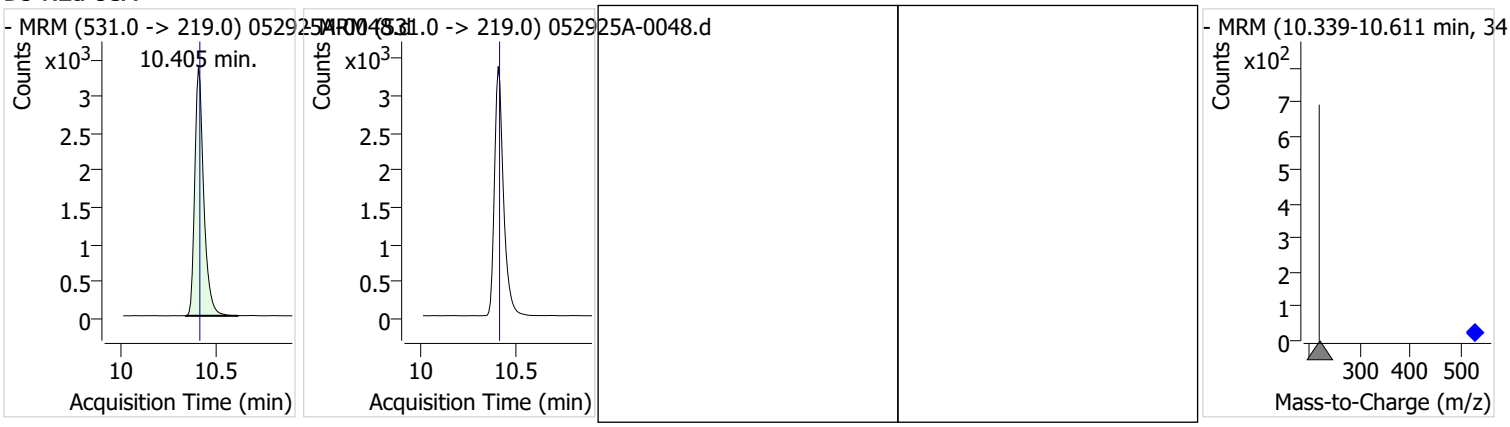
D3-NMeFOSA



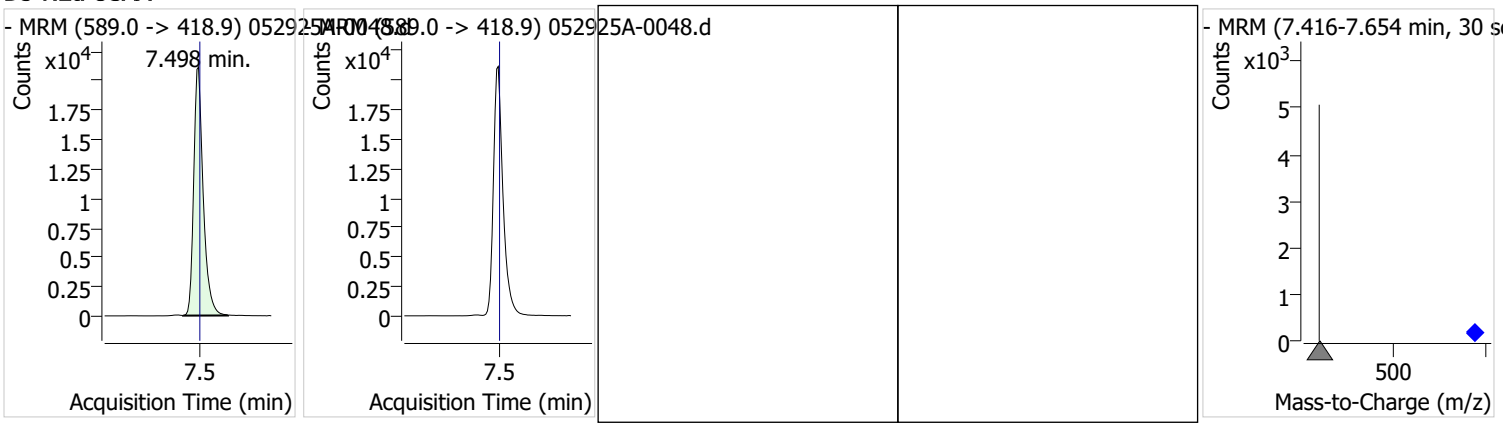
D3-NMeFOSAA



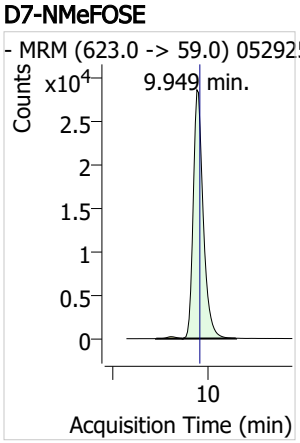
D5-NEtFOSA

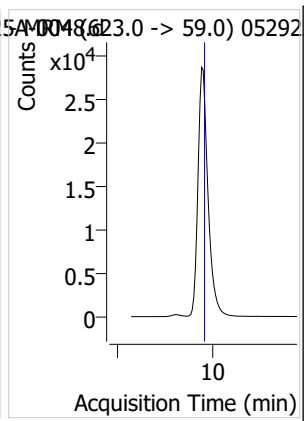


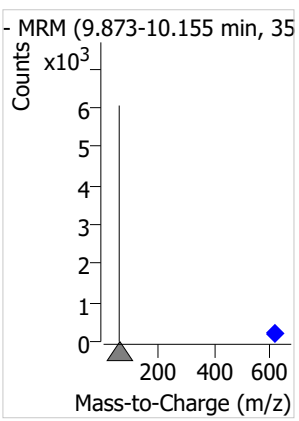
D5-NEtFOSAA



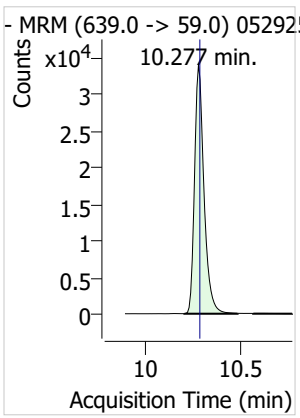
D7-NMeFOSE

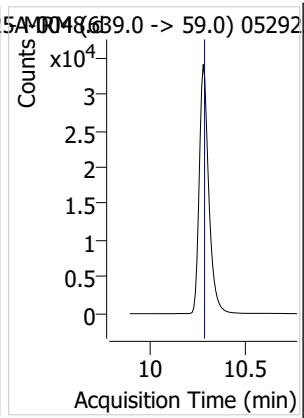


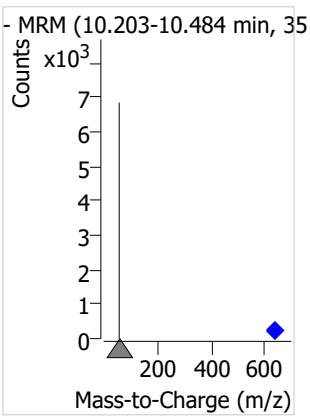




D9-NEtFOSE

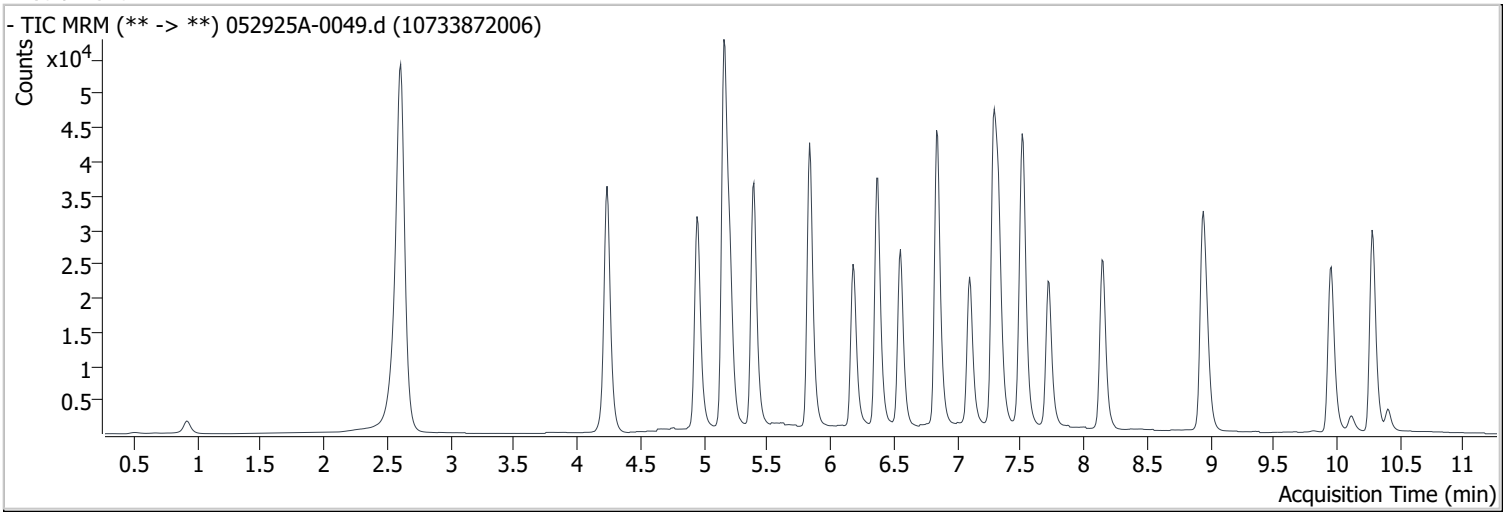






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 9:28 PM	**Data File**	052925A-0049.d
Sample Type	Sample	**Sample Name**	10733872006
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.402	76208	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	31884	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	23177	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	133505	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	21977	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	196594	2084.29		13C3-PFBA_ISTD	2.608	98904	8.1669	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.528	25565	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.528	25565	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.528	25565	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	31884	9383.84		18O2-PFHxS_ISTD	6.559	37537	4.9329	ng/ml			
13C2-6:2FTS	6.180	23177	15920.87		18O2-PFHxS_ISTD	6.559	37537	4.7592	ng/ml			
13C2-8:2FTS	7.100	21977	54088.97		18O2-PFHxS_ISTD	6.559	37537	4.4959	ng/ml			
13C2-PFDoA	8.146	85576	28202.44		13C2-PFDA_ISTD	7.290	78339	0.8743	ng/ml			
13C2-PFDA	7.290	78339	23813.34					1.6113	ng/ml			
13C2-PFHxA	5.162	98034	4426.12					3.1806	ng/ml			
13C2-PFTeDA	8.936	96031	2073.76		13C2-PFDA_ISTD	7.290	78339	0.8732	ng/ml			
13C4-PFOS	7.529	36396	11081.64					3.3018	ng/ml			
13C3-HFPODA	5.402	76208	71941.45		13C2-PFHxA_ISTD	5.162	98034	7.2757	ng/ml			
13C3-PFBS	5.213	47260	32399.71		18O2-PFHxS_ISTD	6.559	37537	1.8441	ng/ml			
13C3-PFHxS	6.560	31134	9431.78		18O2-PFHxS_ISTD	6.559	37537	1.7942	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.506	65116	-	ng/ml			
584.0 -> 526.0				*								

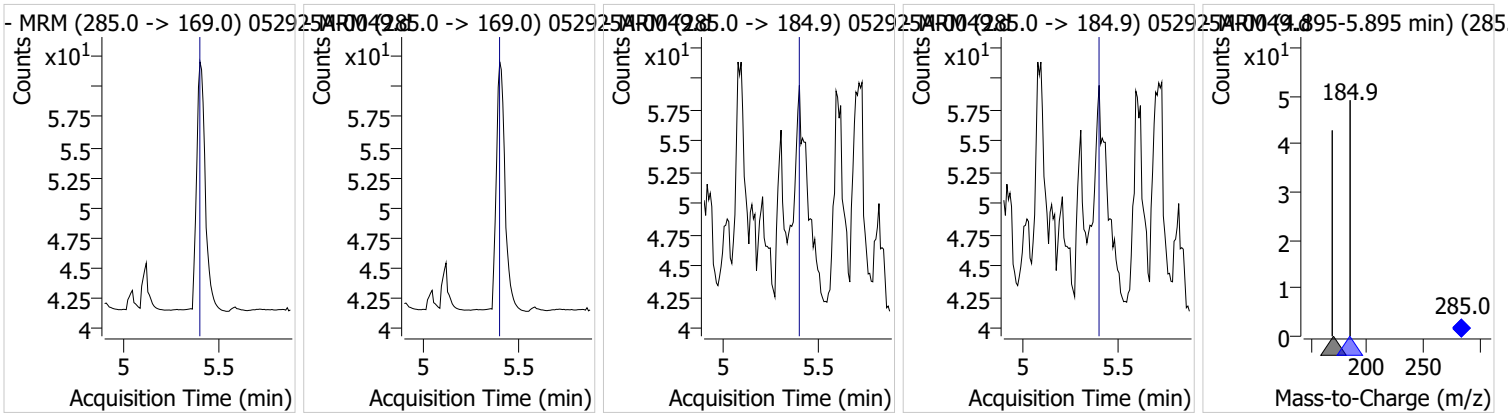
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	133505	109308.77		13C2-PFHxA_ISTD	5.162	98034	1.9177	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.327	83746	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.606	196594	-	ng/ml			
13C5-PFHxA	5.161	81925	24791.47		13C2-PFHxA_ISTD	5.162	98034	1.8825	ng/ml			
PFBS					13C3-PFBS_ISTD	5.213	47260	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	8031	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.289	63748	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.146	85576	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	9775	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.839	133505	-	ng/ml			
362.9 -> 169.0				*								
PFHxA					13C5-PFHxA_ISTD	5.161	81925	-	ng/ml			
313.0 -> 118.9				*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	89644	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.560	31134	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	60920	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	104054	-	ng/ml			
PFOA	6.377	810	11.75		13C8-PFOA_ISTD	6.377	91227	0.0188	ng/ml	✔	GT	MJL 5/30/25
413.0 -> 169.0	6.300	185	40.05	22.9								
PFOS	7.399	338	57.95		13C8-PFOS_ISTD	7.528	25565	0.0224	ng/ml			
499.0 -> 99.0	7.402	240	28.17	70.9								
PFPeA					13C5-PFPeA_ISTD	4.237	134277	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	196594	-	ng/ml			
13C5-PFPeA	4.237	134277	6913.17		13C2-PFHxA_ISTD	5.162	98034	3.8675	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	134277	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.146	85576	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	81925	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	63748	19154.64		13C2-PFDA_ISTD	7.290	78339	0.8642	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	81925	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	35885	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	71035	458354.72		13C2-PFDA_ISTD	7.290	78339	0.8622	ng/ml			
13C4-PFOA	6.369	26935	8209.35					3.2576	ng/ml			
PFDS					13C8-PFOS_ISTD	7.528	25565	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.528	25565	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.560	31134	-	ng/ml			
349.0 -> 98.9				*								

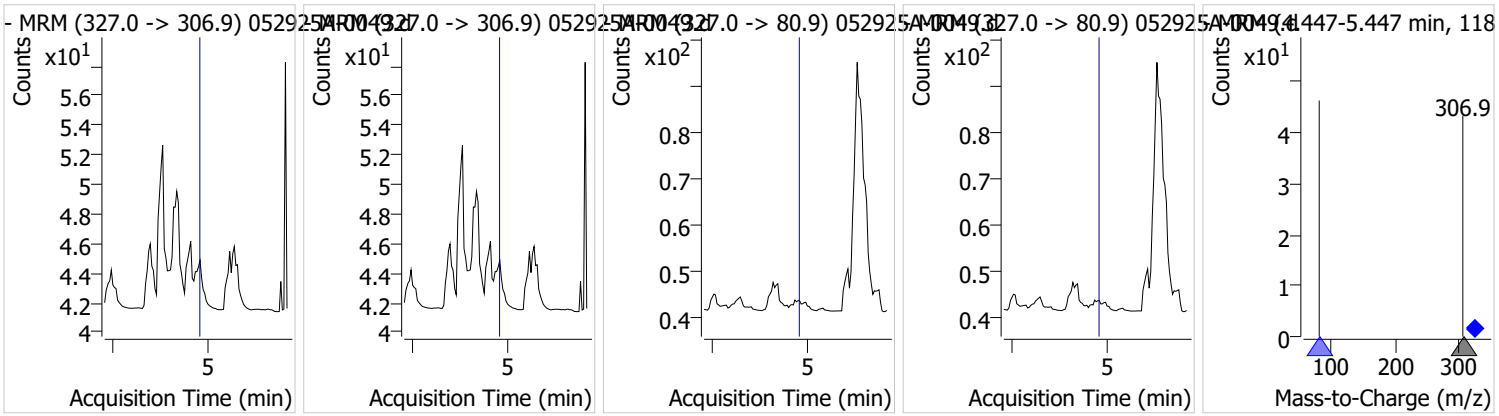
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA					13C2-PFTeDA_ISTD	8.936	96031	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	71035	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.608	98904	20909.35					6.5127	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	134277	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	81925	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	60920	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	79758	24541.86					1.6865	ng/ml			
18O2-PFHxS	6.559	37537	126558.62					3.3045	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.528	25565	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.528	25565	-	ng/ml			
499.0 -> 124.0				*								
PFPrA					13C3-PFPrA_ISTD	0.916	8607	-	ng/ml			
13C3-PFPrA	0.916	8607	7837.47		13C3-PFBA_ISTD	2.608	98904	0.8044	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.402	76208	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.377	91227	27903.33		13C4-PFOA_ISTD	6.369	26935	1.8077	ng/ml			
13C8-PFOS	7.528	25565	212530.96		13C4-PFOS_ISTD	7.529	36396	1.7960	ng/ml			
13C8-PFOSA	8.975	35885	4046.32		13C4-PFOS_ISTD	7.529	36396	1.7532	ng/ml			
13C9-PFNA	6.842	60920	18627.32		13C5-PFNA_ISTD	6.842	79758	0.8645	ng/ml			
D3-NMeFOSA	10.118	8031	10299.66		13C4-PFOS_ISTD	7.529	36396	1.2316	ng/ml			
D3-NMeFOSAA	7.327	83746	2972.48		13C4-PFOS_ISTD	7.529	36396	3.6994	ng/ml			
D5-NEtFOSA	10.405	9775	882.75		13C4-PFOS_ISTD	7.529	36396	1.2470	ng/ml			
D5-NEtFOSAA	7.506	65116	2929.19		13C4-PFOS_ISTD	7.529	36396	3.7875	ng/ml			
D7-NMeFOSE	9.957	89644	31720.67		13C4-PFOS_ISTD	7.529	36396	14.3189	ng/ml			
D9-NEtFOSE	10.277	104054	9182.40		13C4-PFOS_ISTD	7.529	36396	14.9679	ng/ml			

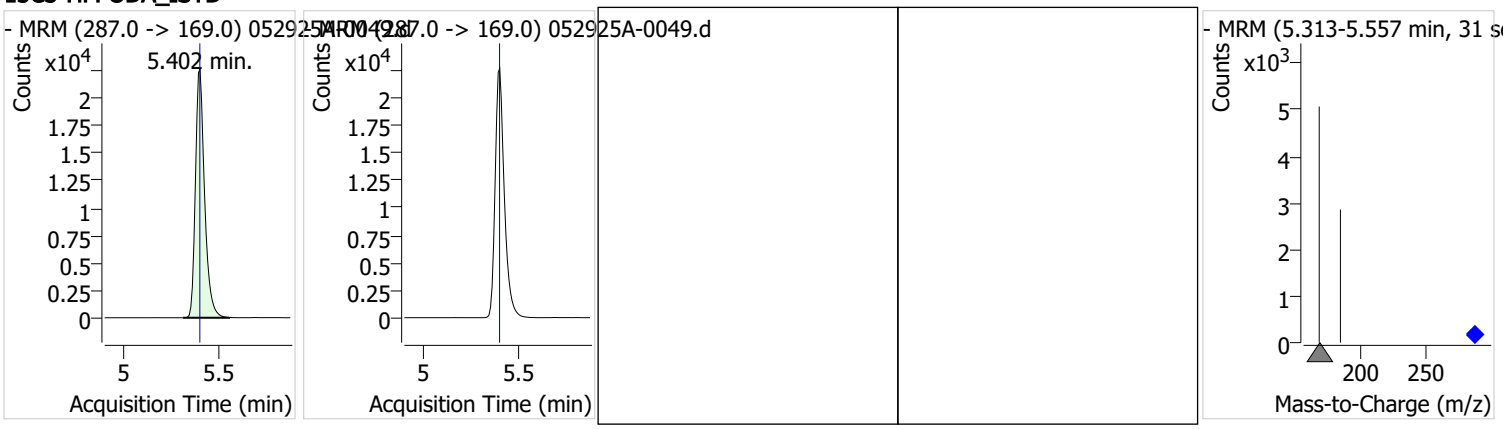
HFPO-DA



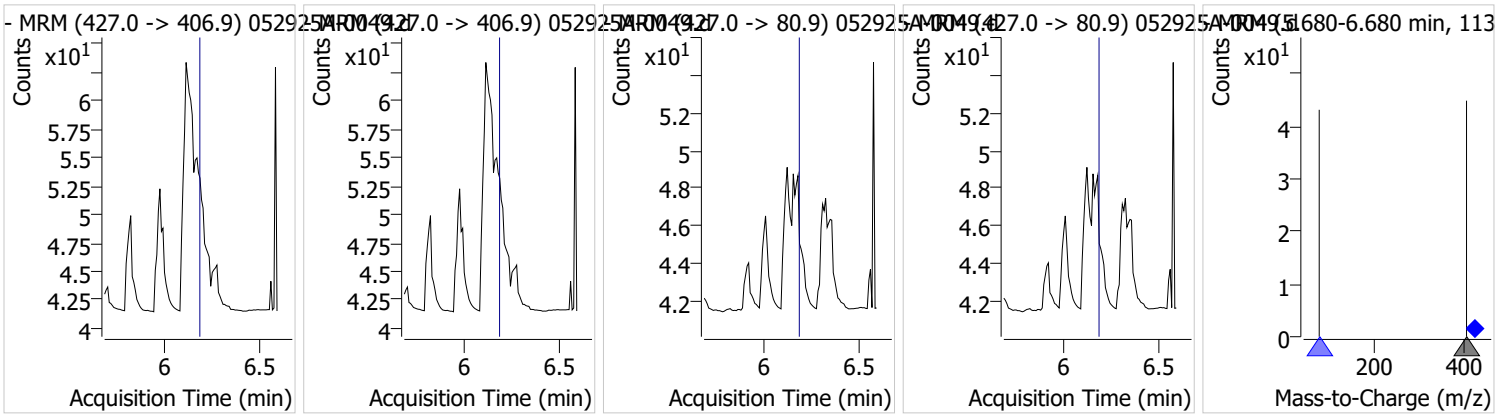
4:2FTS



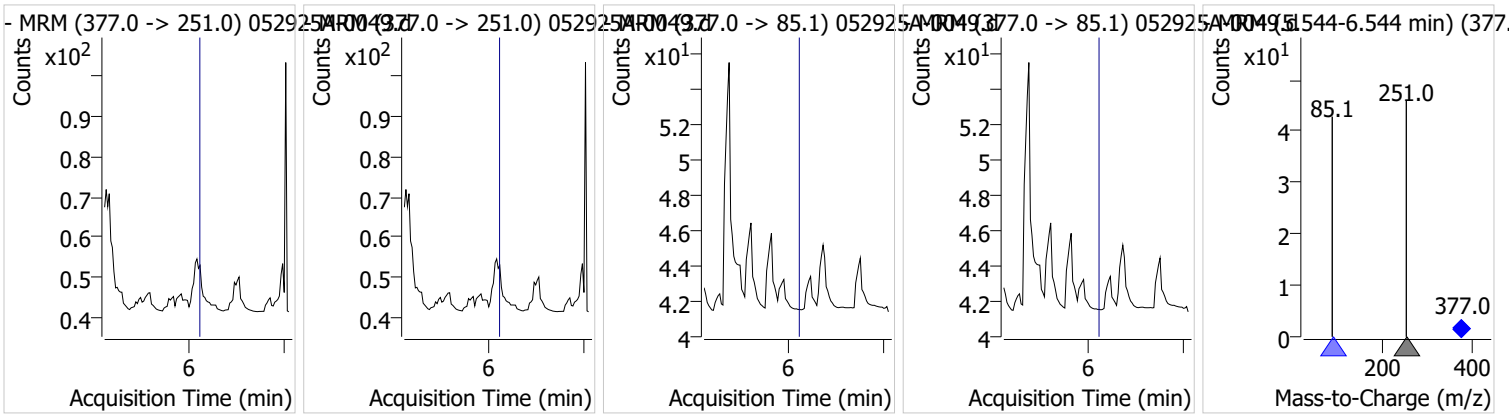
13C3-HFPODA_ISTD



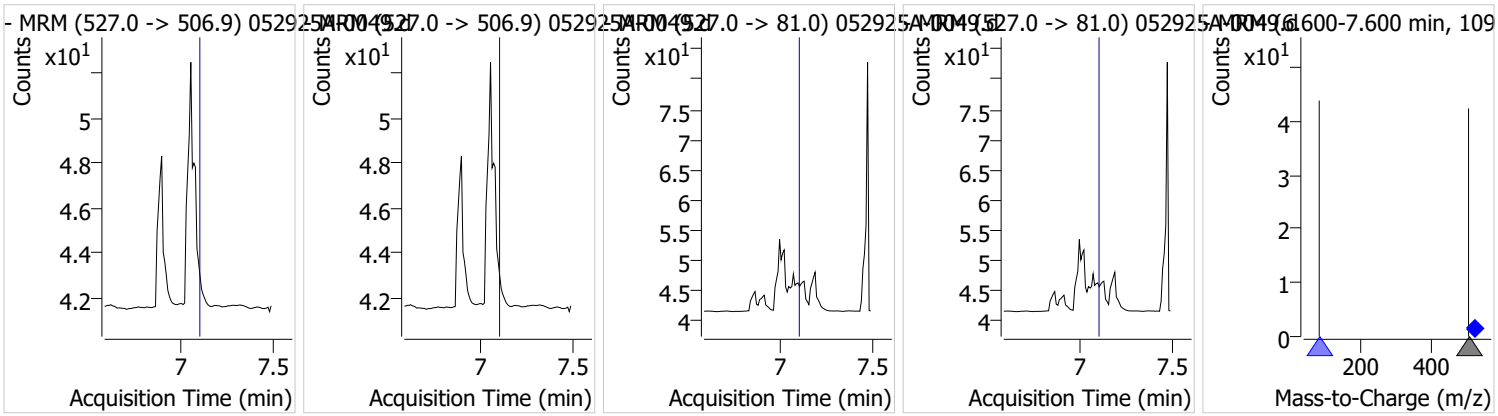
6:2FTS



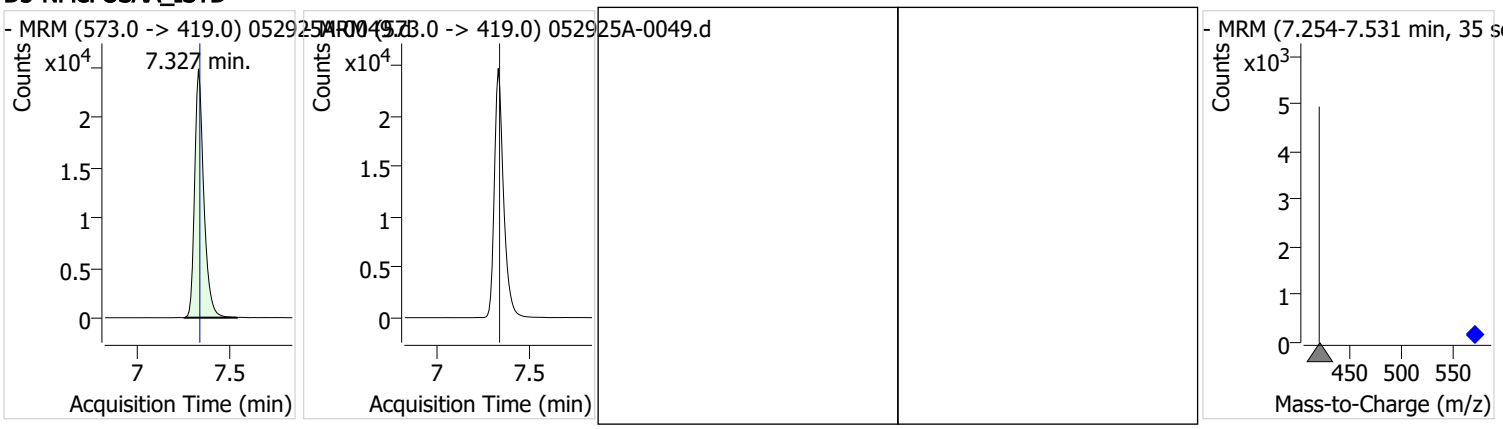
ADONA



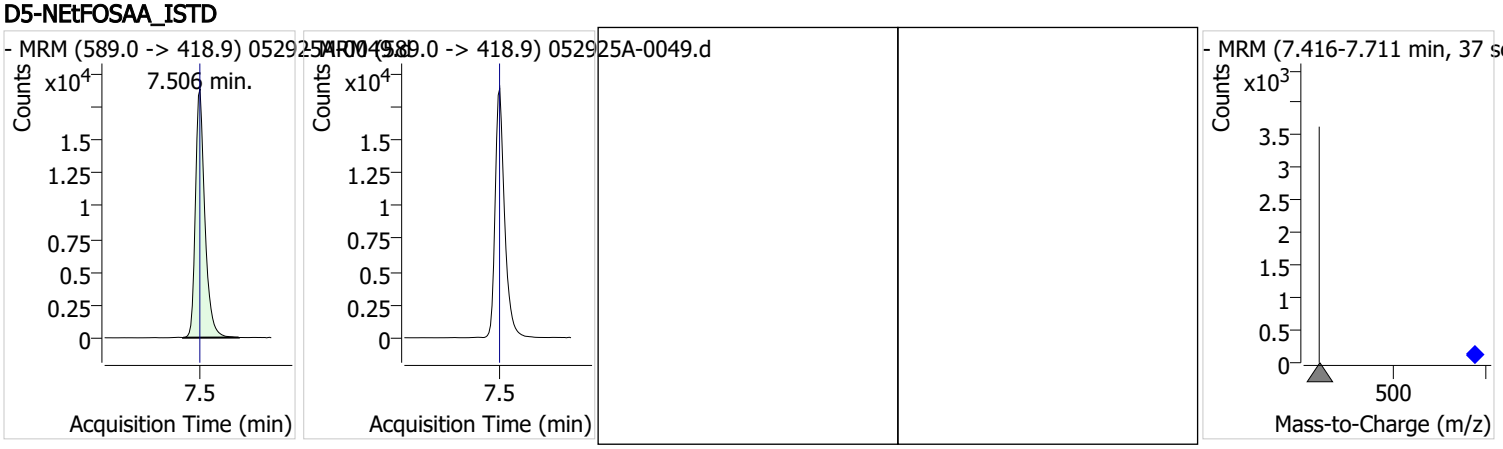
8:2FTS



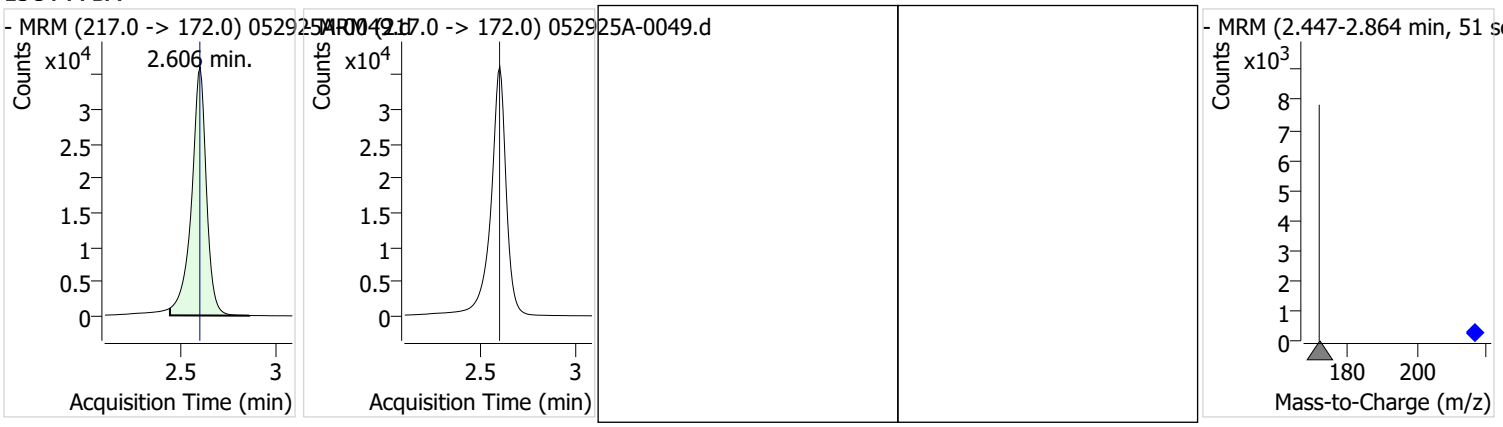
D3-NMeFOSAA_ISTD



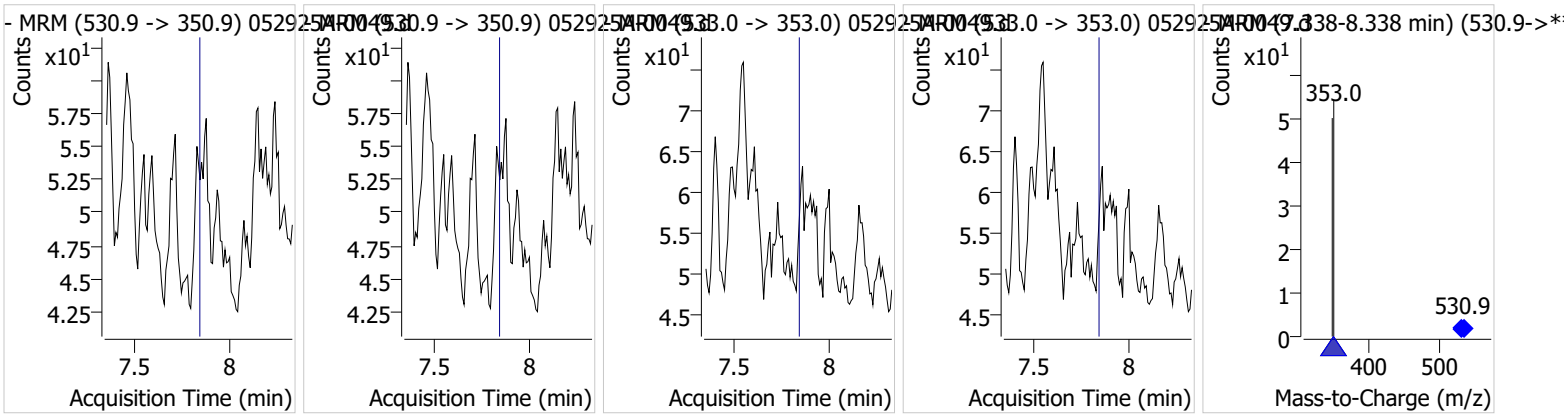
D5-NEtFOSAA_ISTD



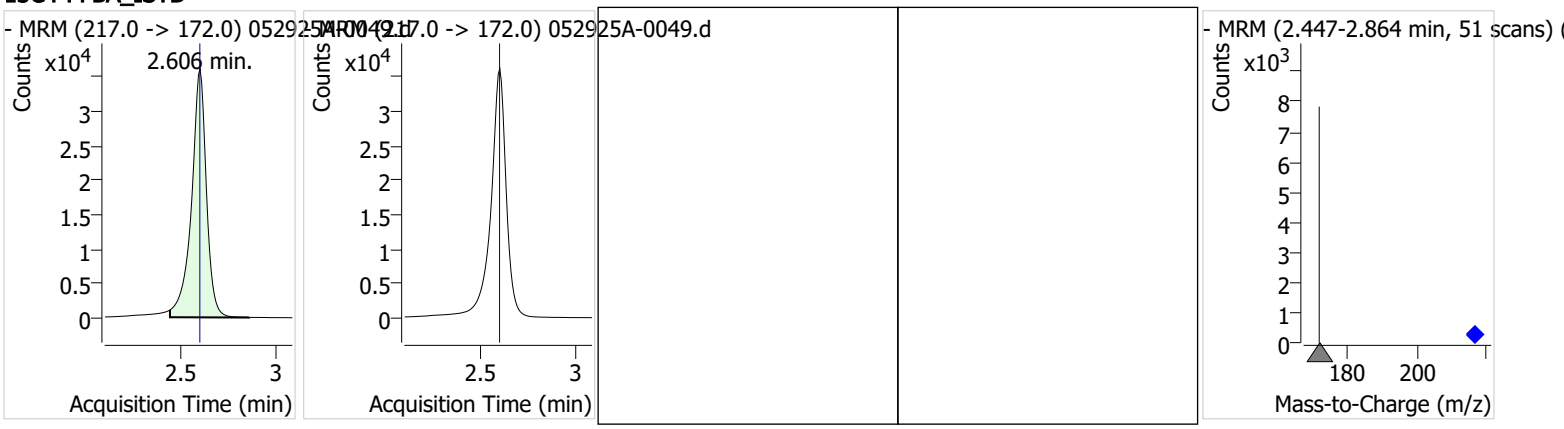
13C4-PFBA



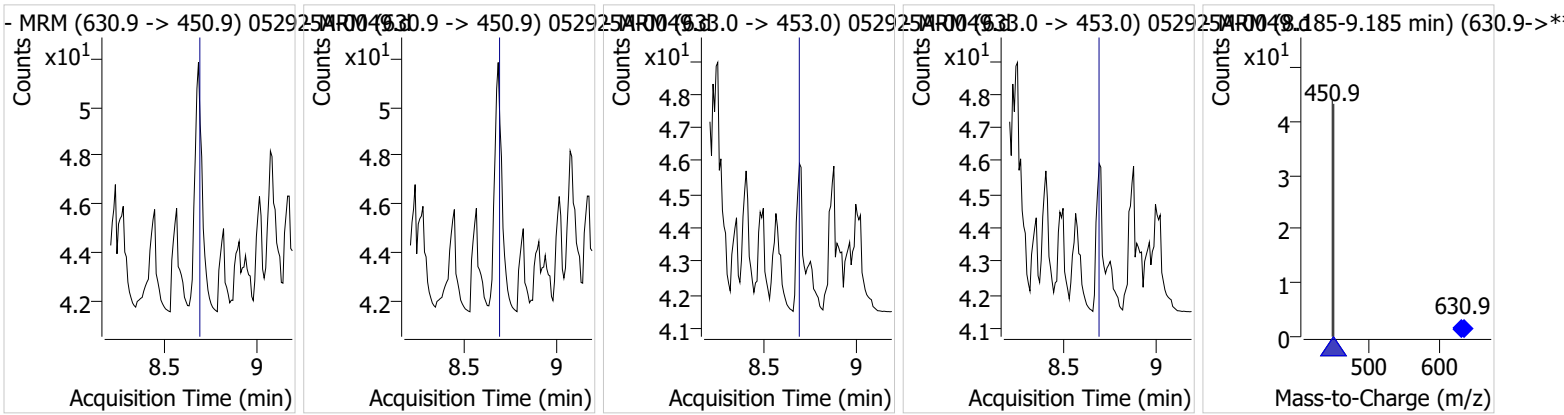
9Cl-PF3ONS



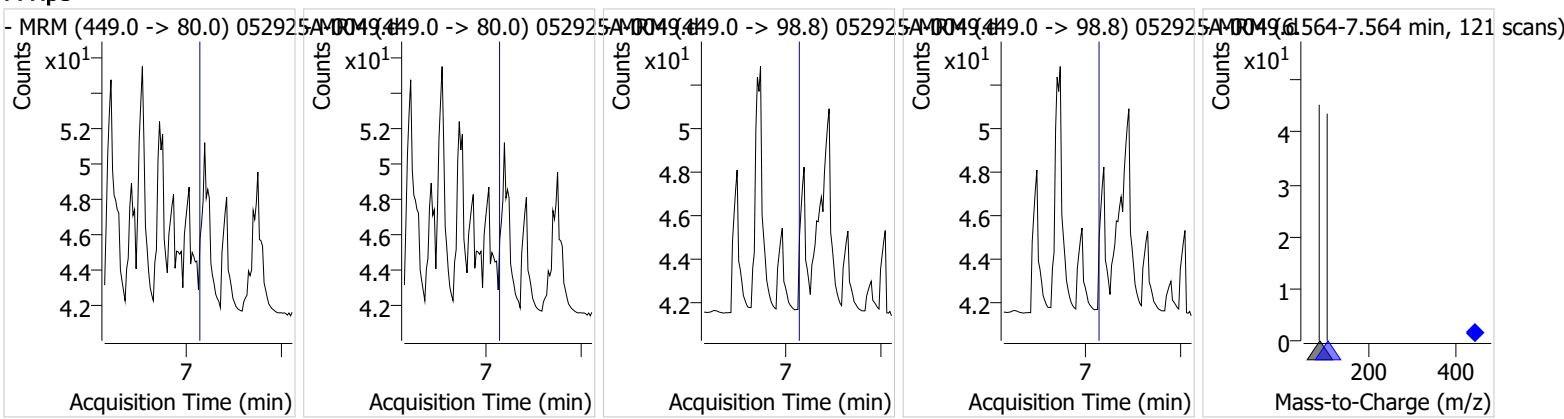
13C4-PFBA_ISTD



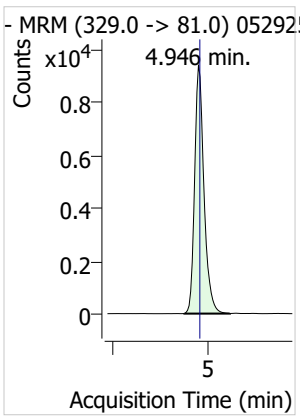
11Cl-PF3OUdS

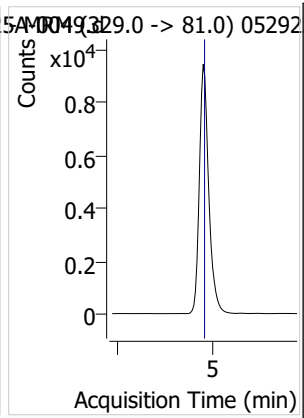


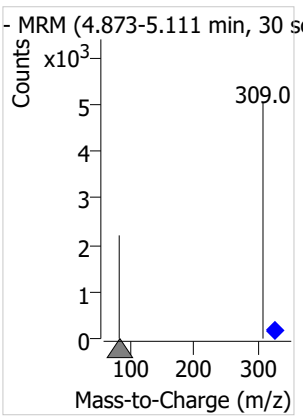
PFHpS



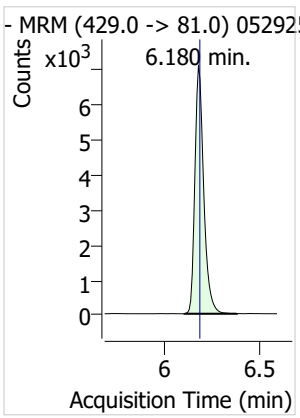
13C2-4:2FTS

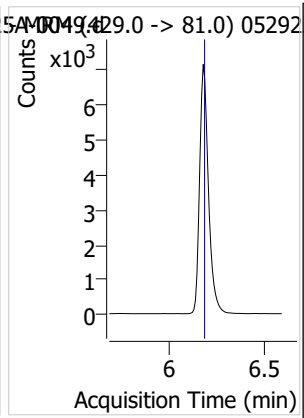


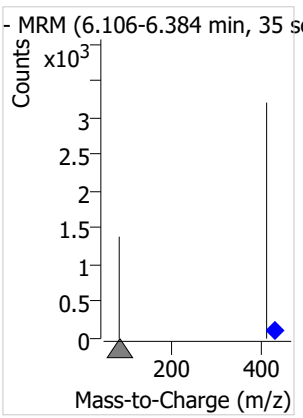




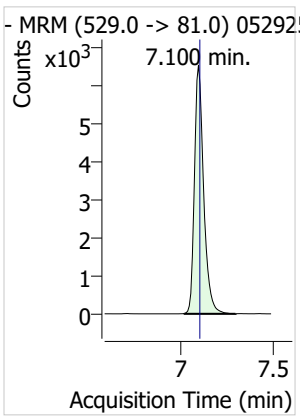
13C2-6:2FTS

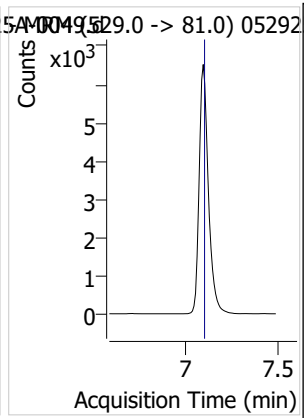


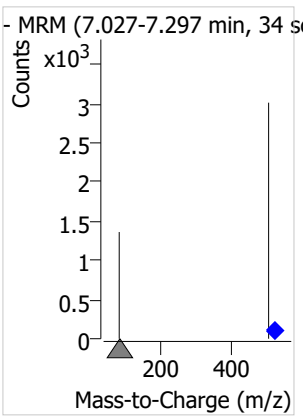




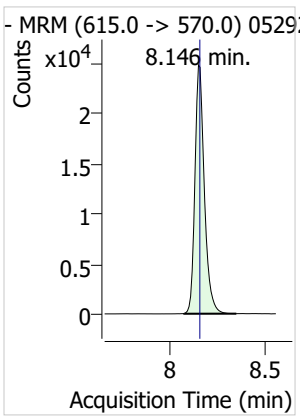
13C2-8:2FTS

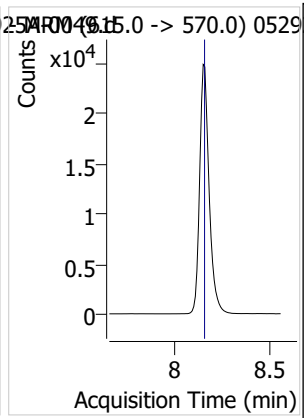


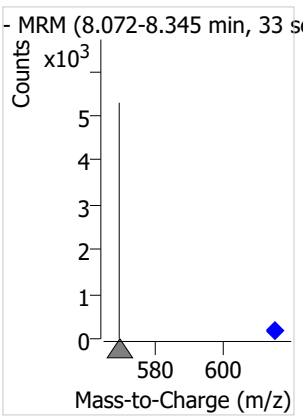




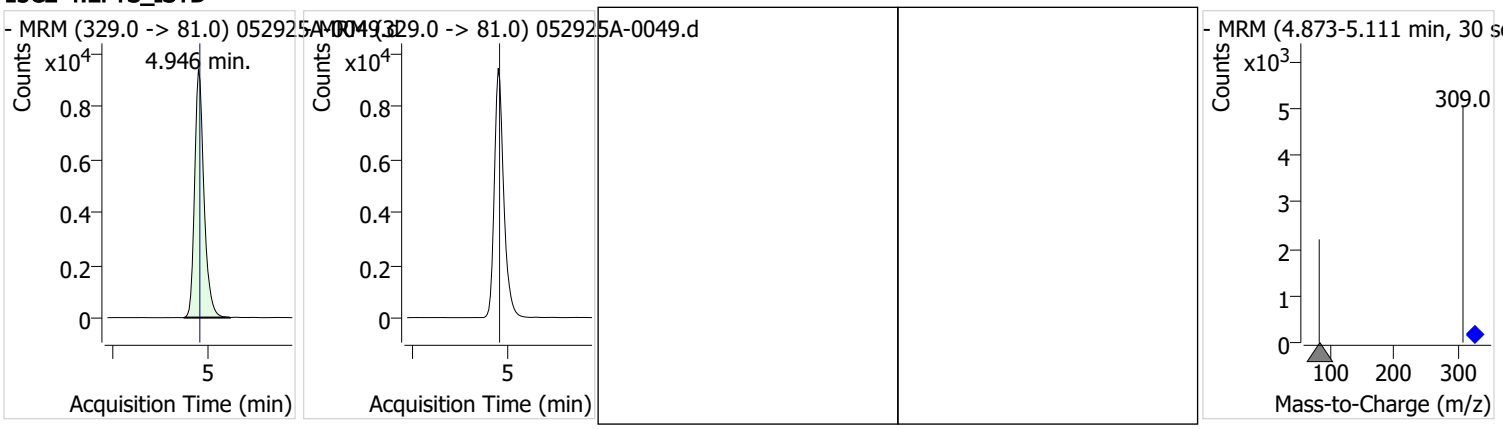
13C2-PFDoA







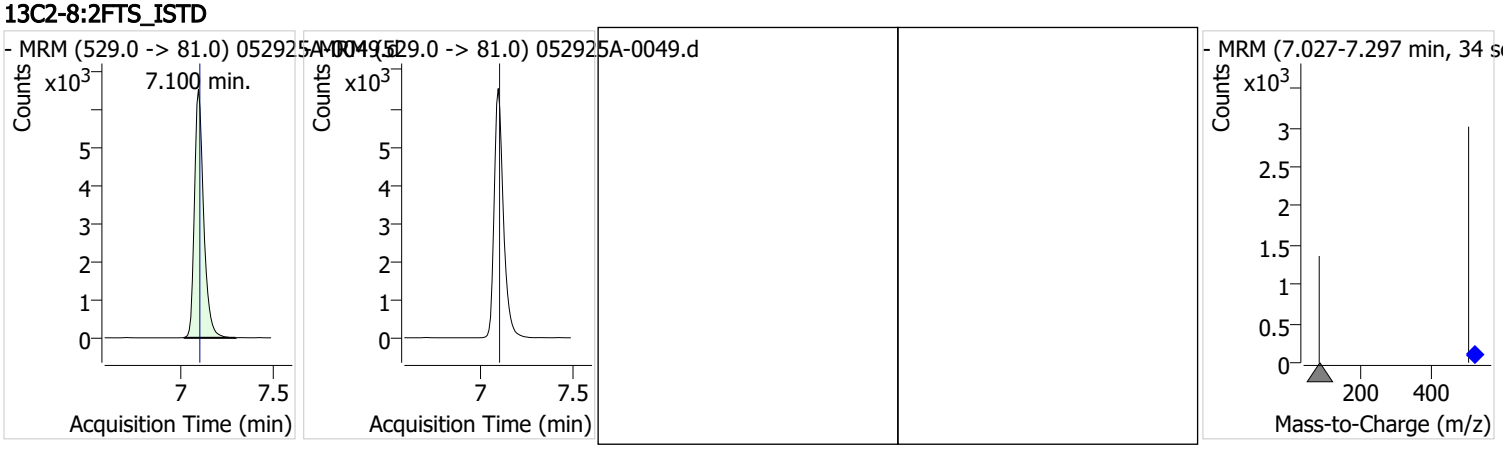
13C2-4:2FTS_ISTD



13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



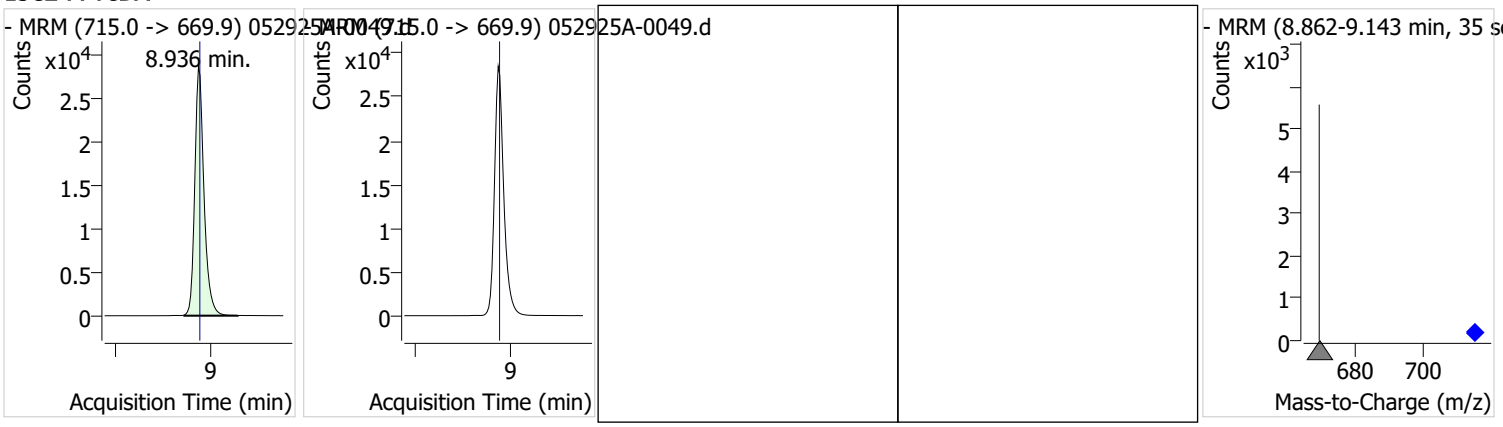
13C2-PFDA



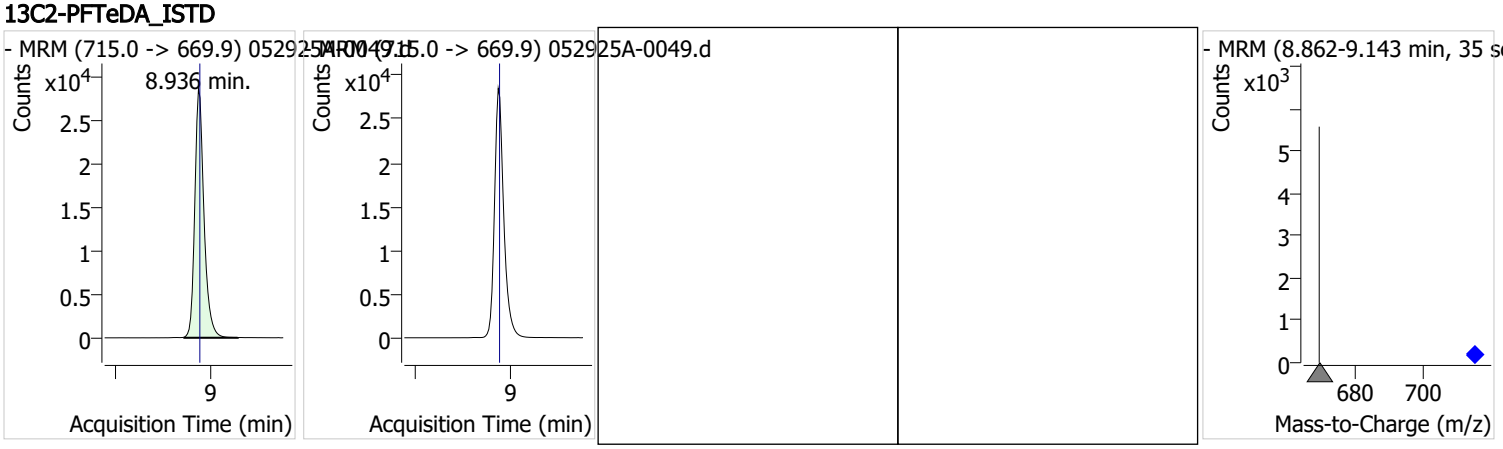
13C2-PFHxA



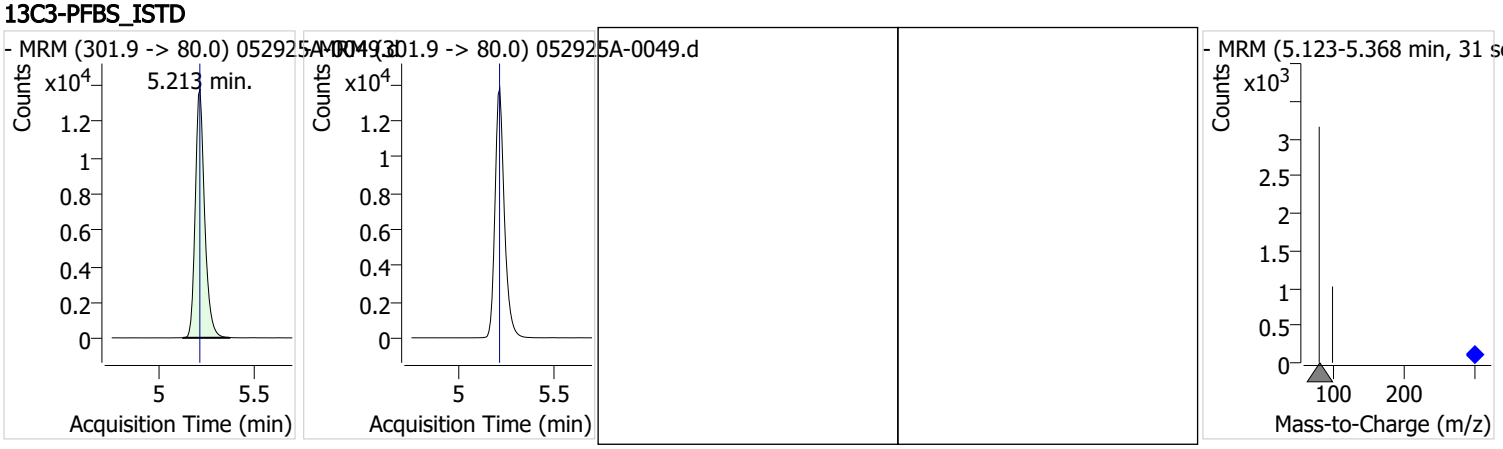
13C2-PFTeDA



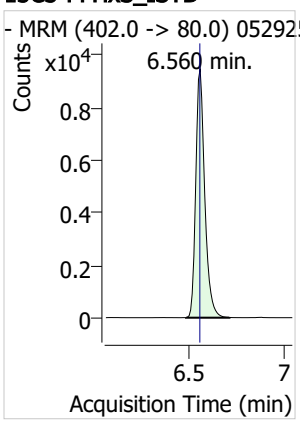
13C2-PFTeDA_ISTD

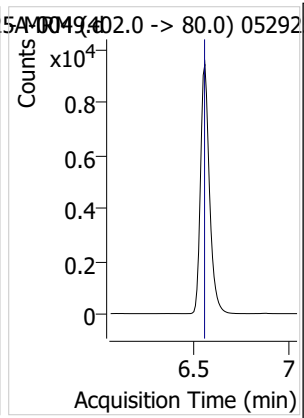


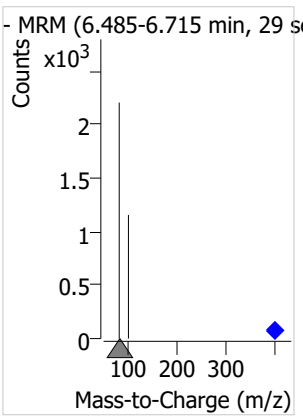
13C3-PFBS_ISTD



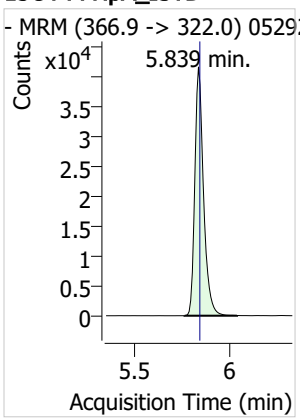
13C3-PFHxS_ISTD

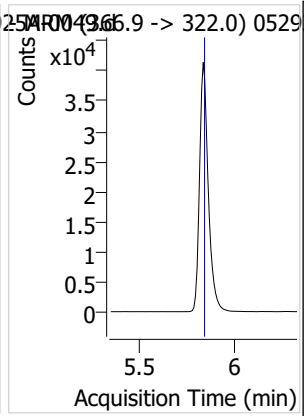


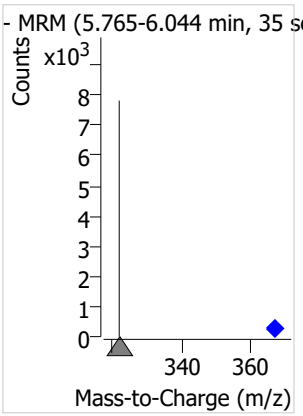




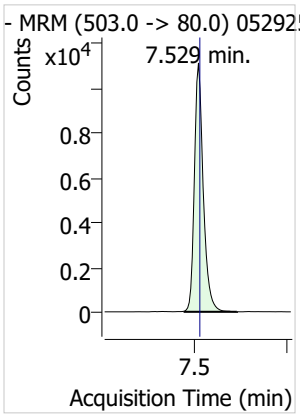
13C4-PFHpA_ISTD

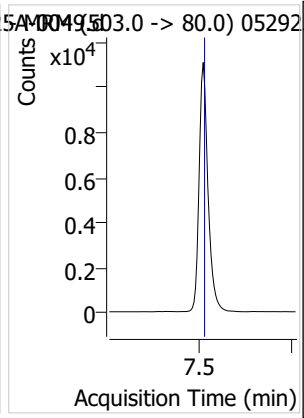


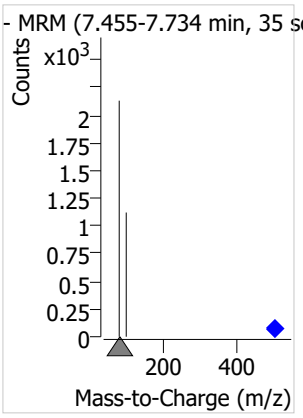




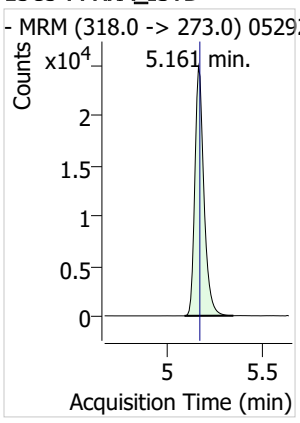
13C4-PFOS

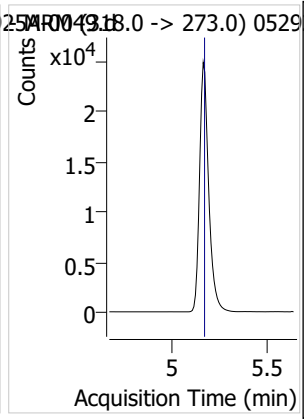


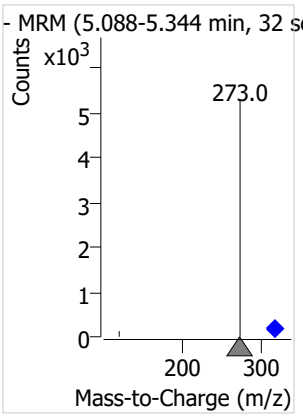




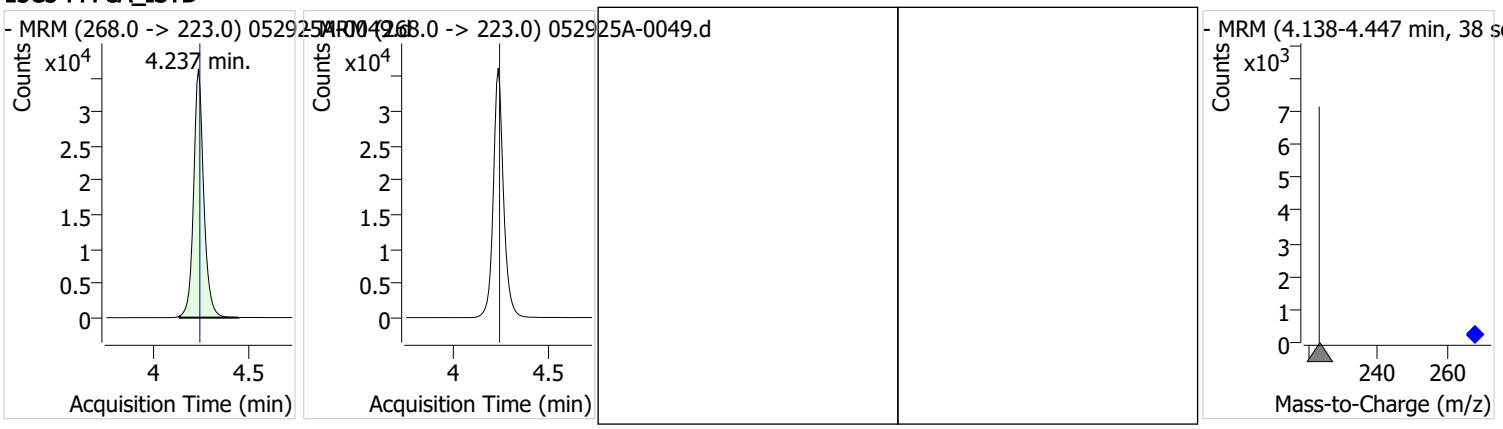
13C5-PFHxA_ISTD







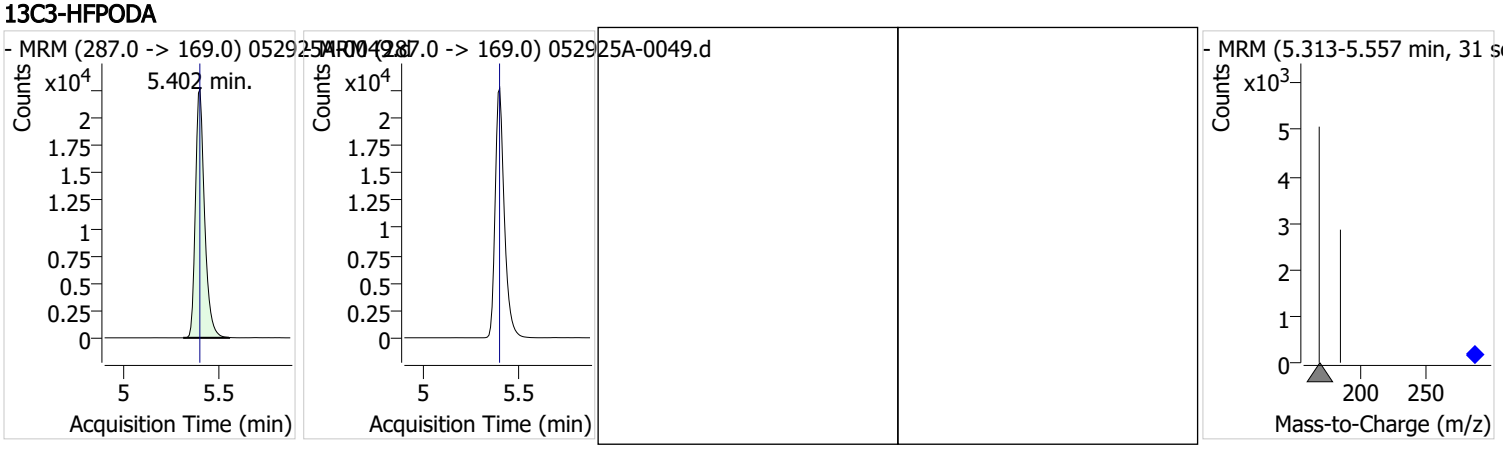
13C5-PFPeA_ISTD



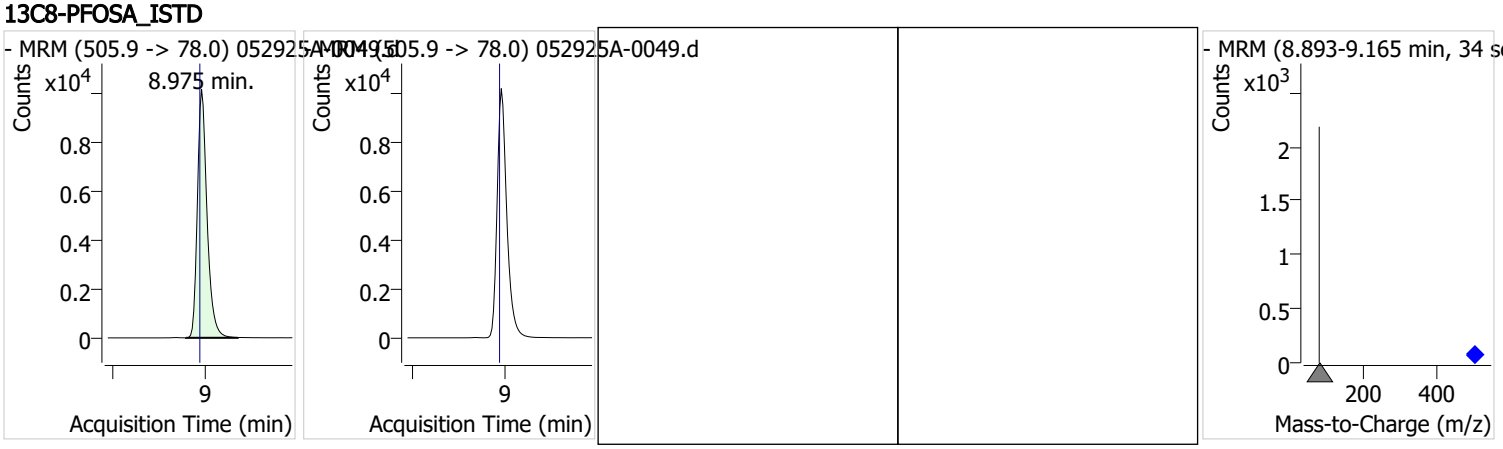
13C6-PFDA_ISTD



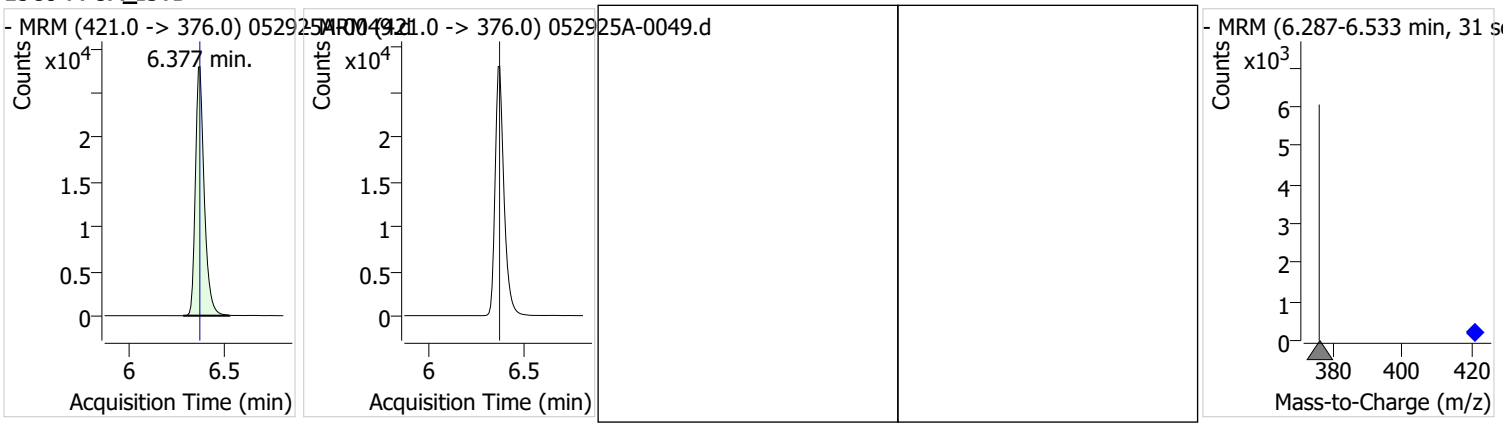
13C3-HFPODA



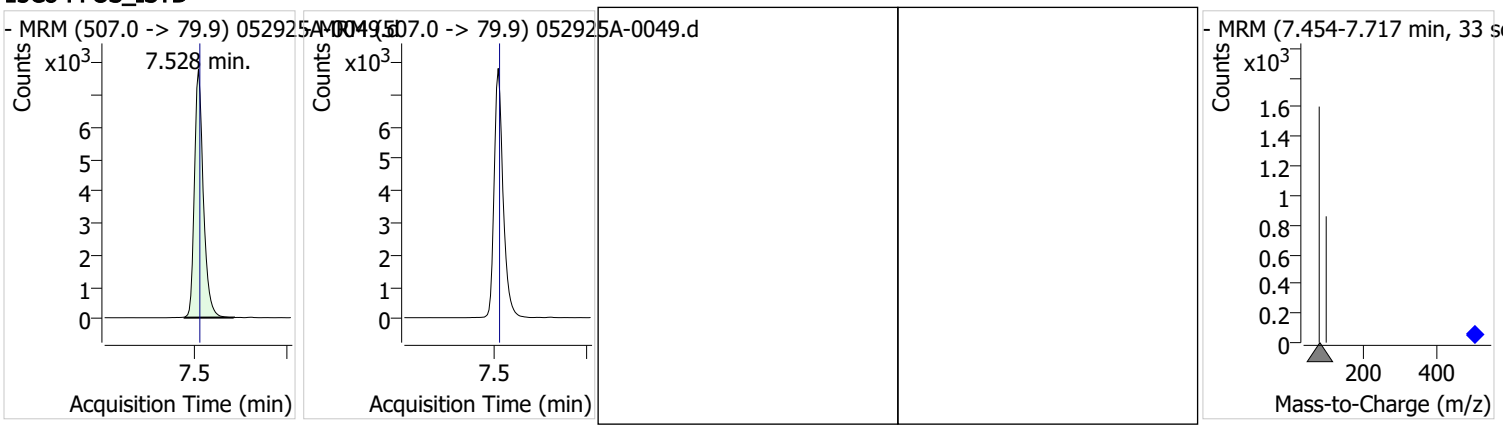
13C8-PFOSA_ISTD



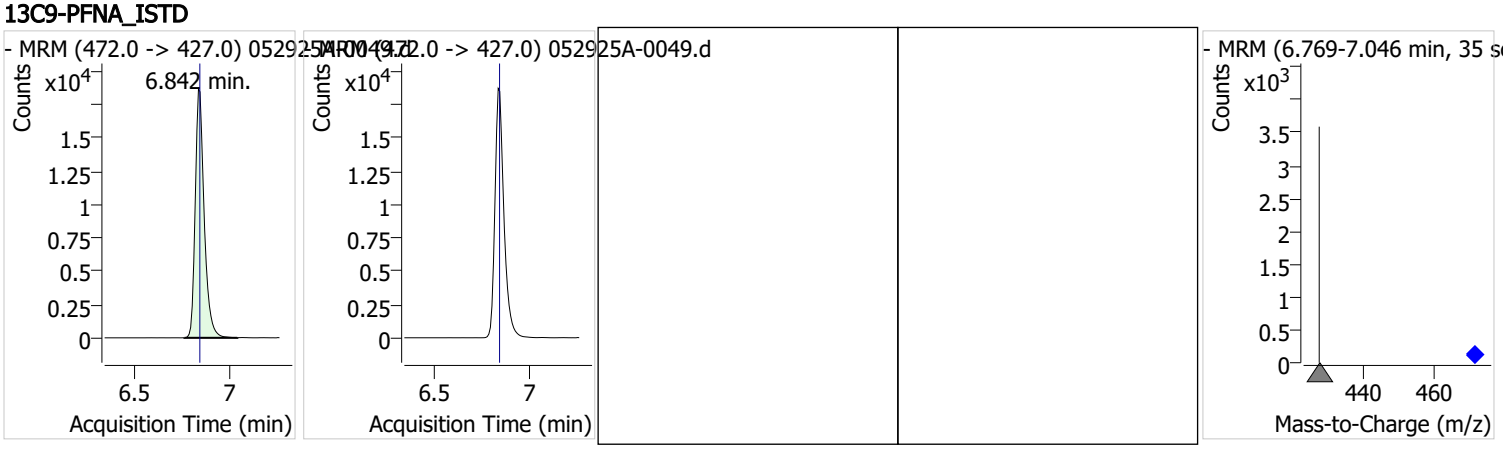
13C8-PFOA_ISTD



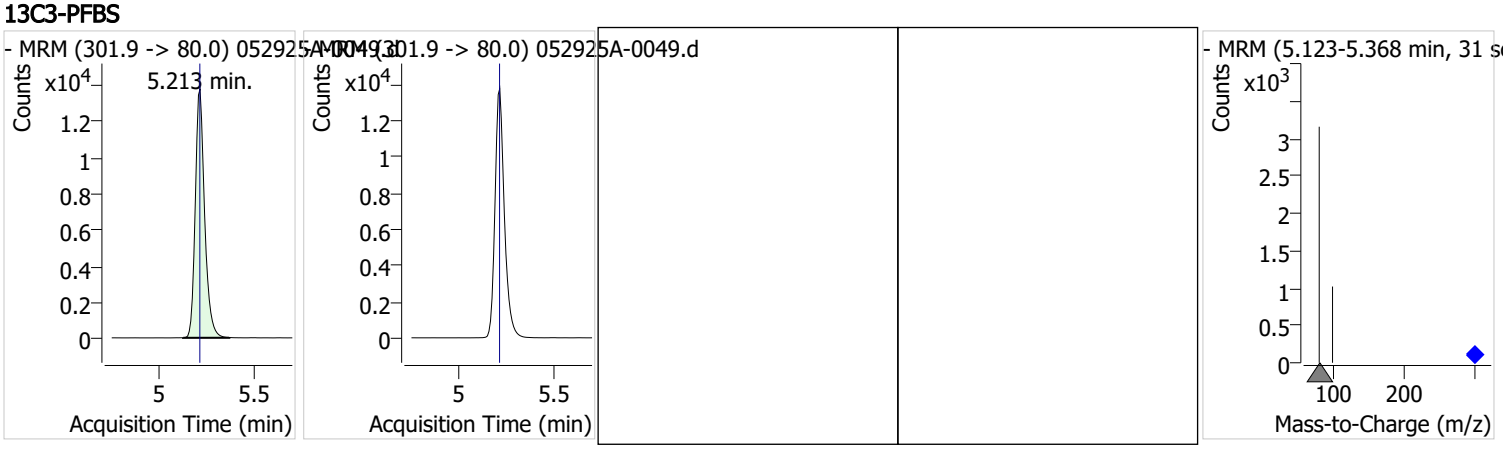
13C8-PFOS_ISTD



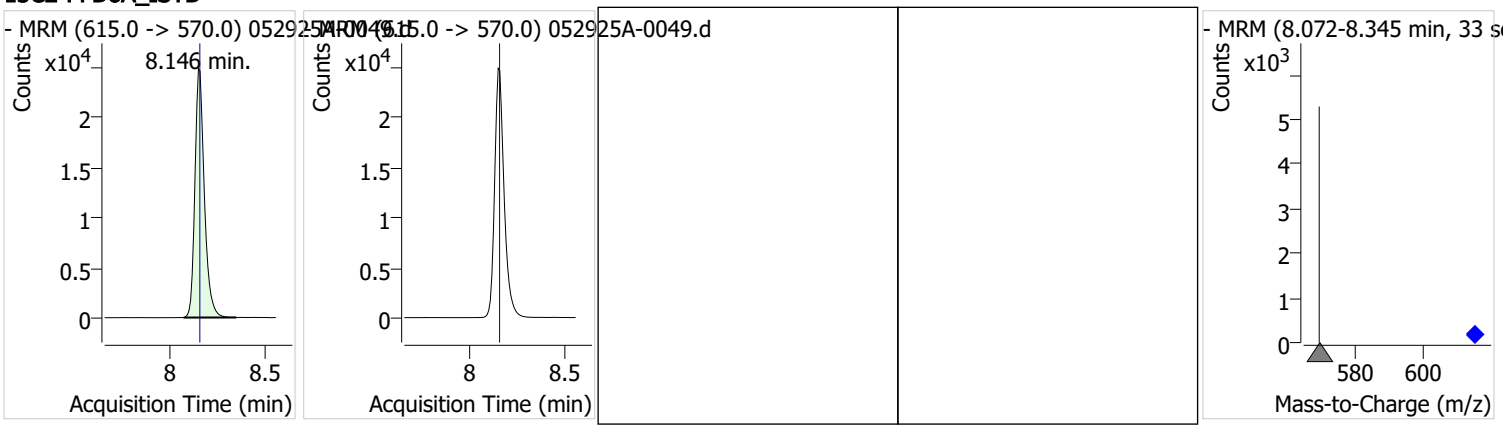
13C9-PFNA_ISTD



13C3-PFBS



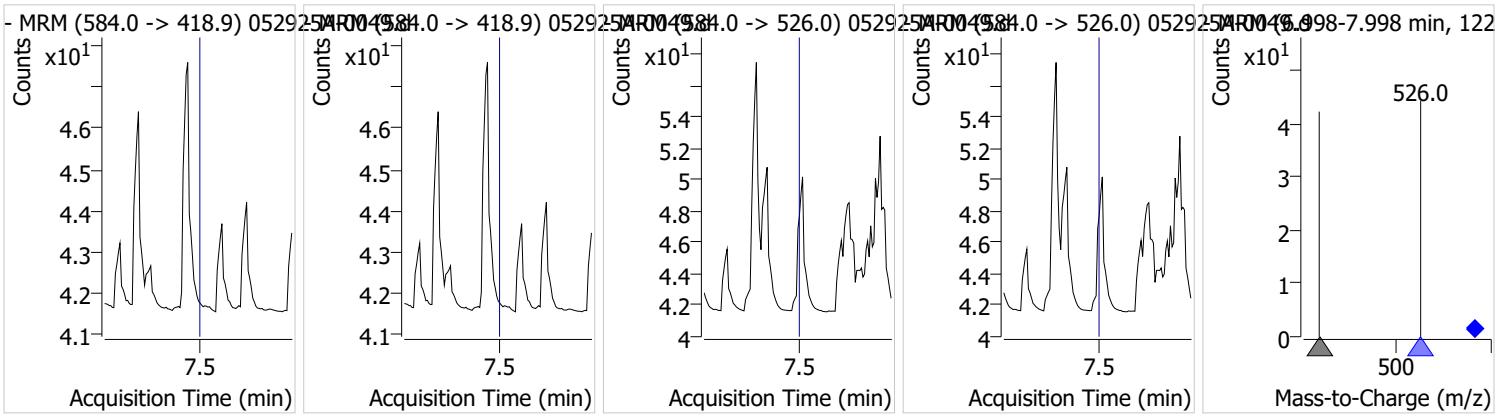
13C2-PFDoA_ISTD



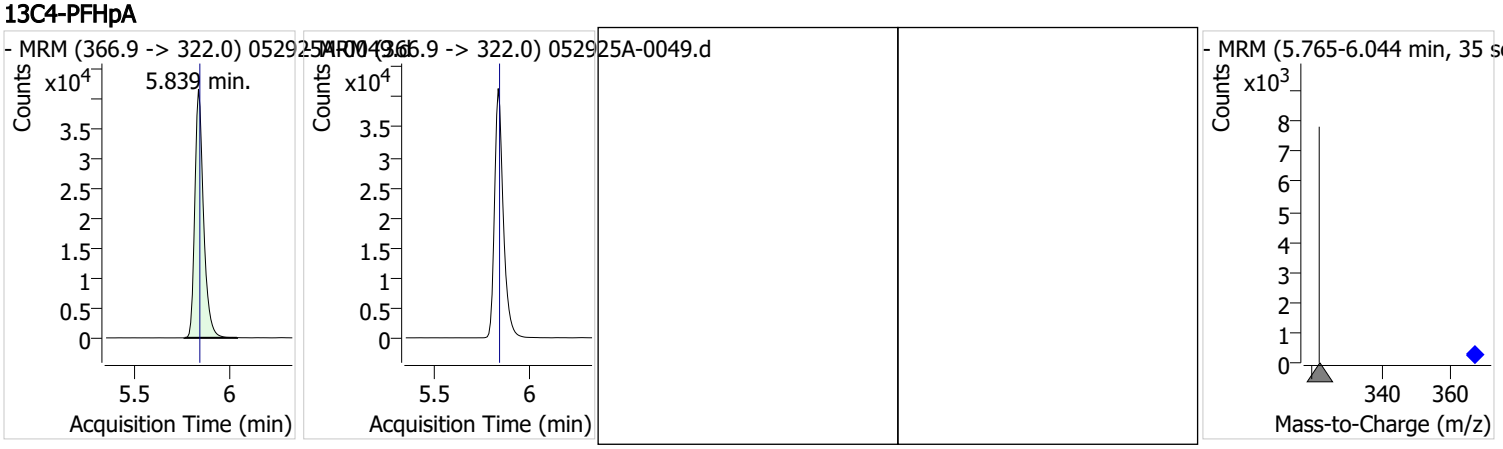
13C3-PFHxS



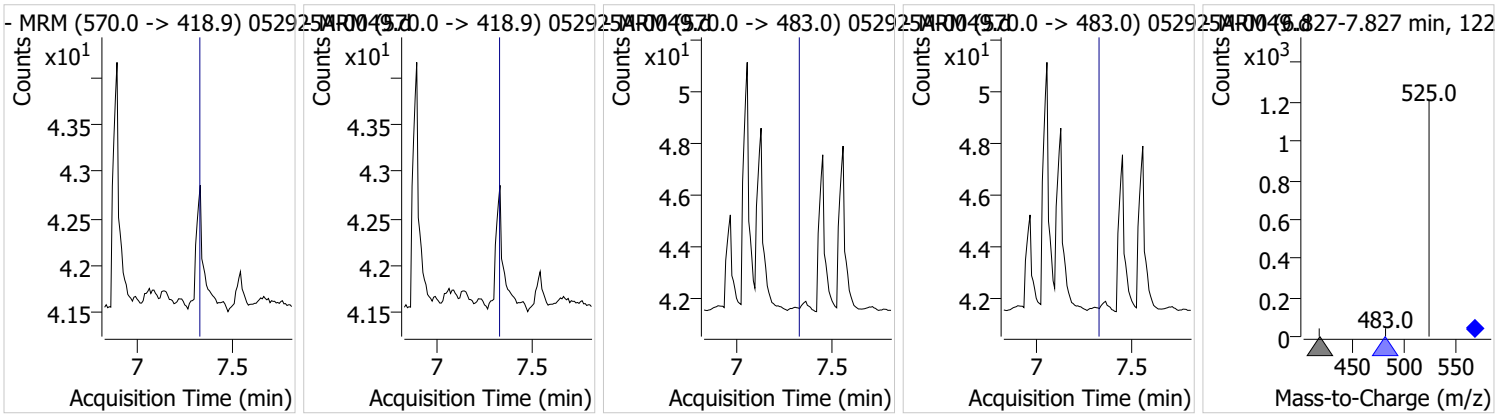
NEtFOSAA



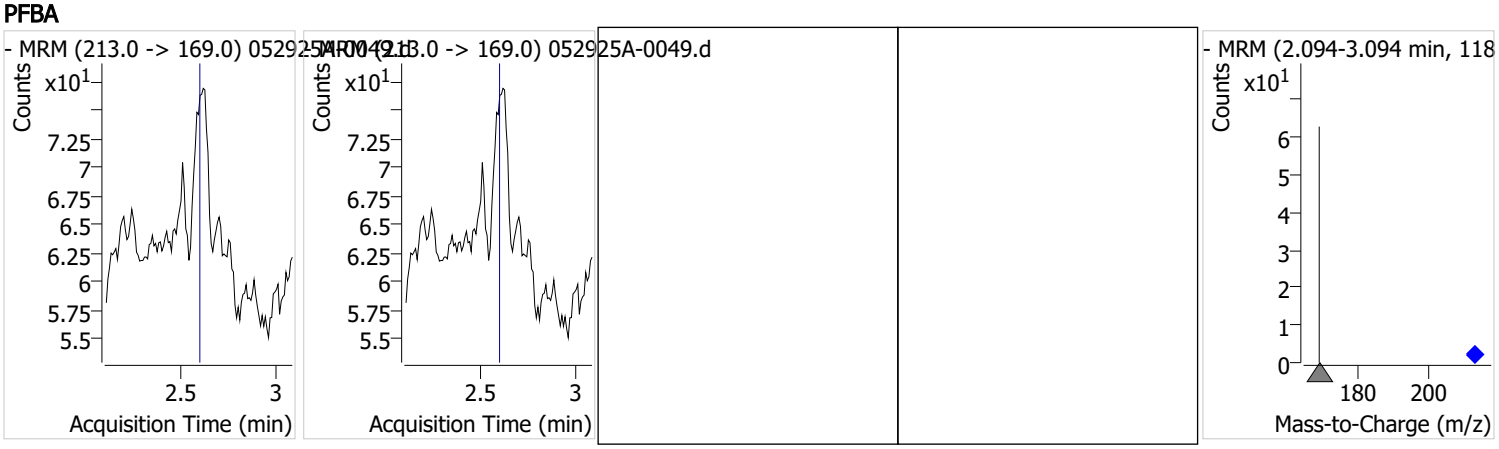
13C4-PFHpA



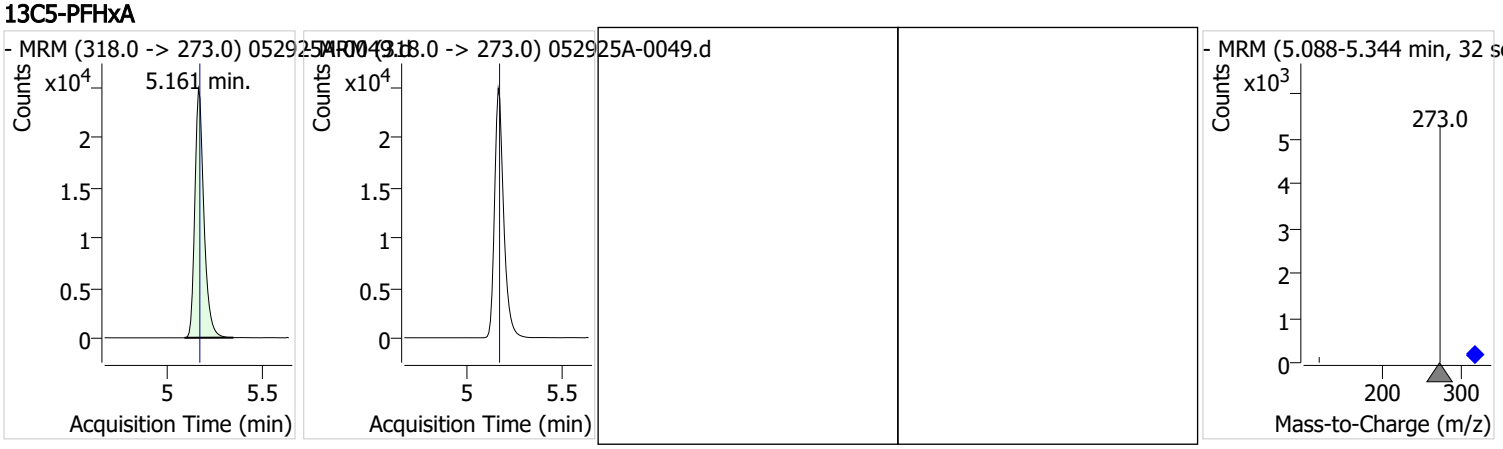
NMeFOSAA



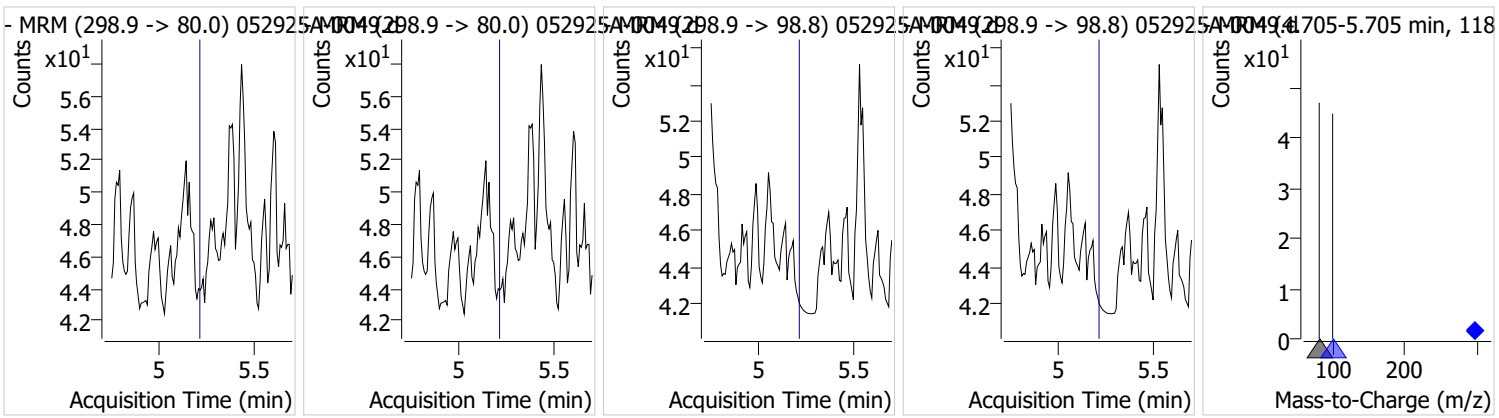
PFBA



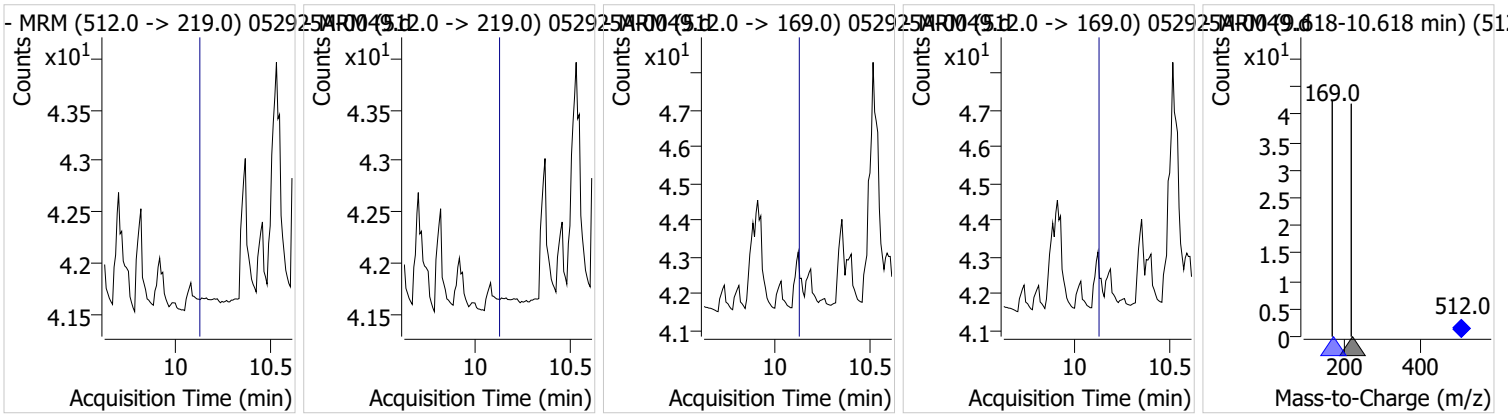
13C5-PFHxA



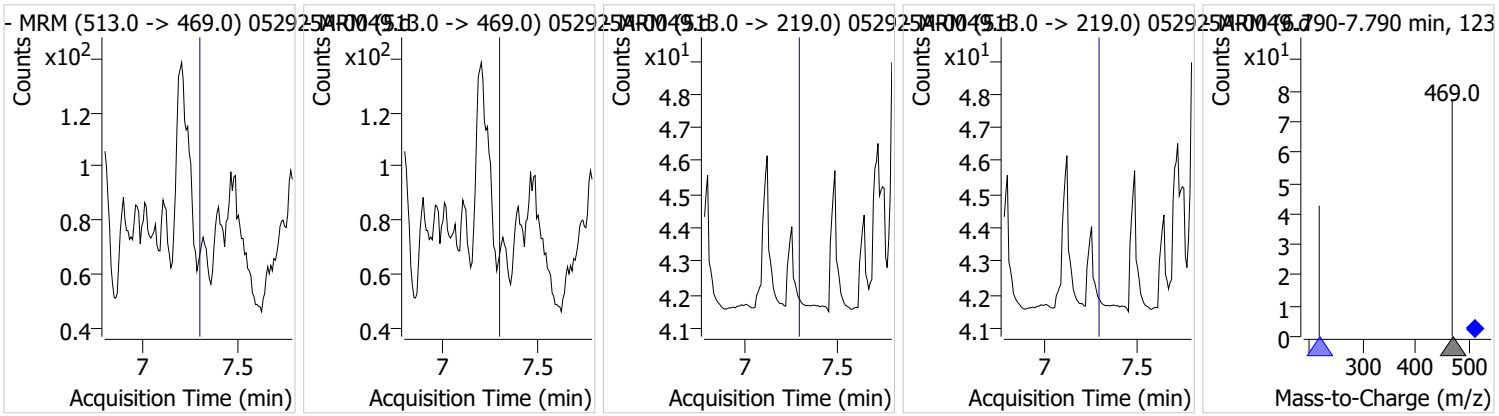
PFBS



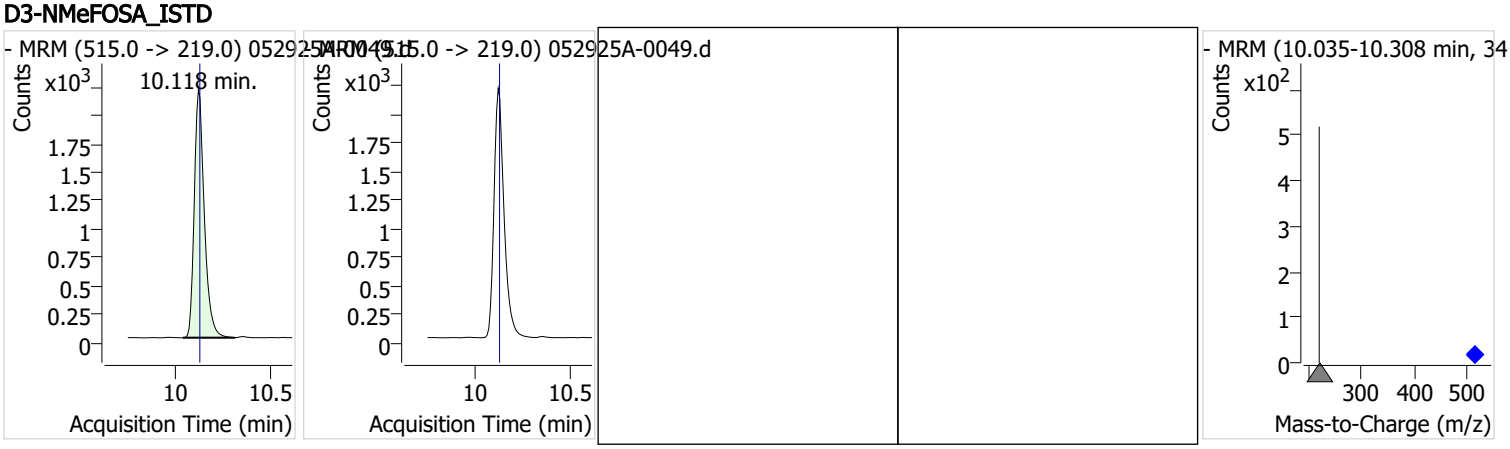
NMeFOSA



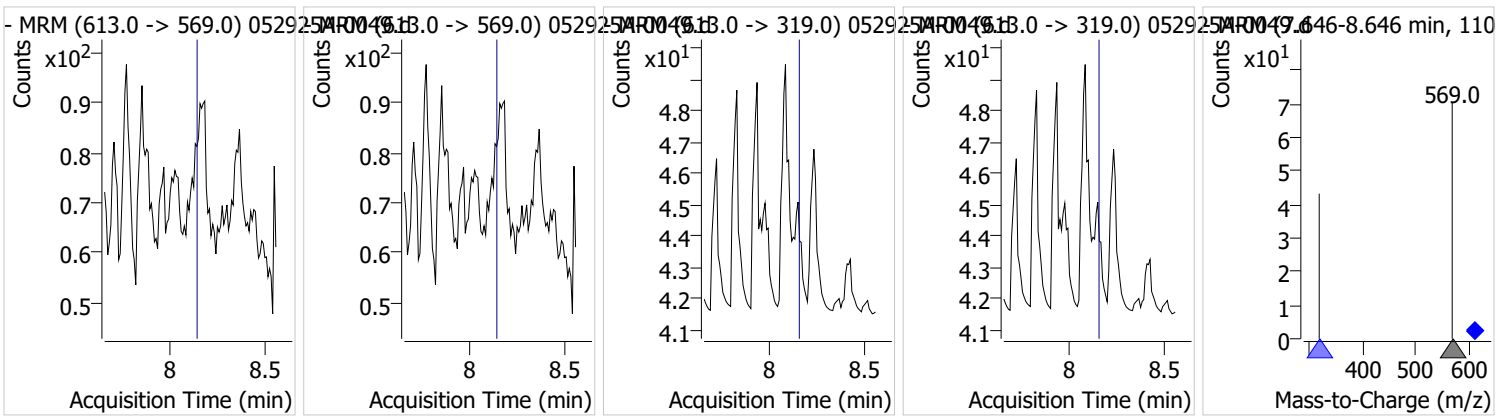
PFDA



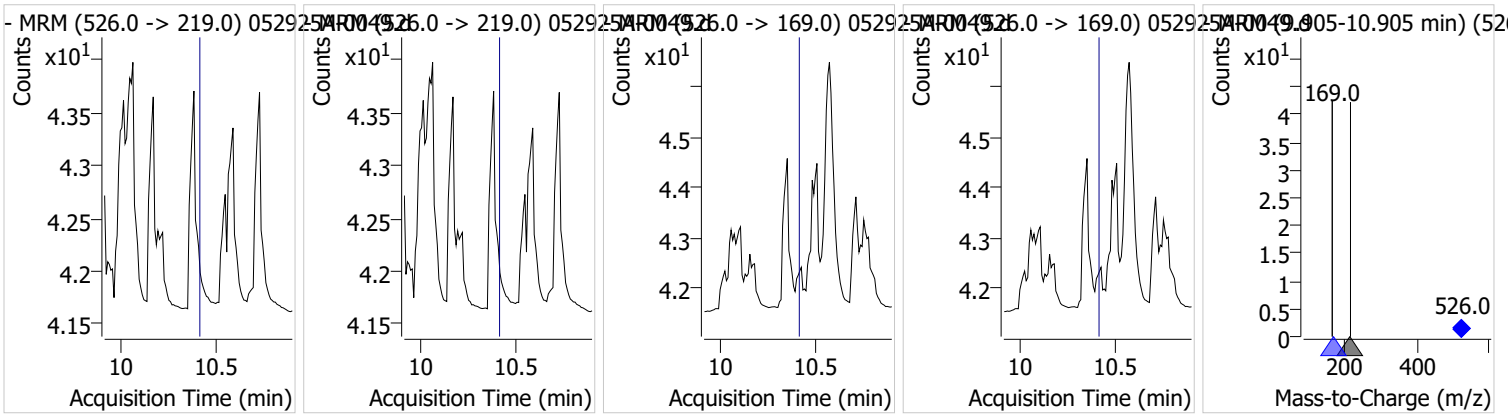
D3-NMeFOSA_ISTD



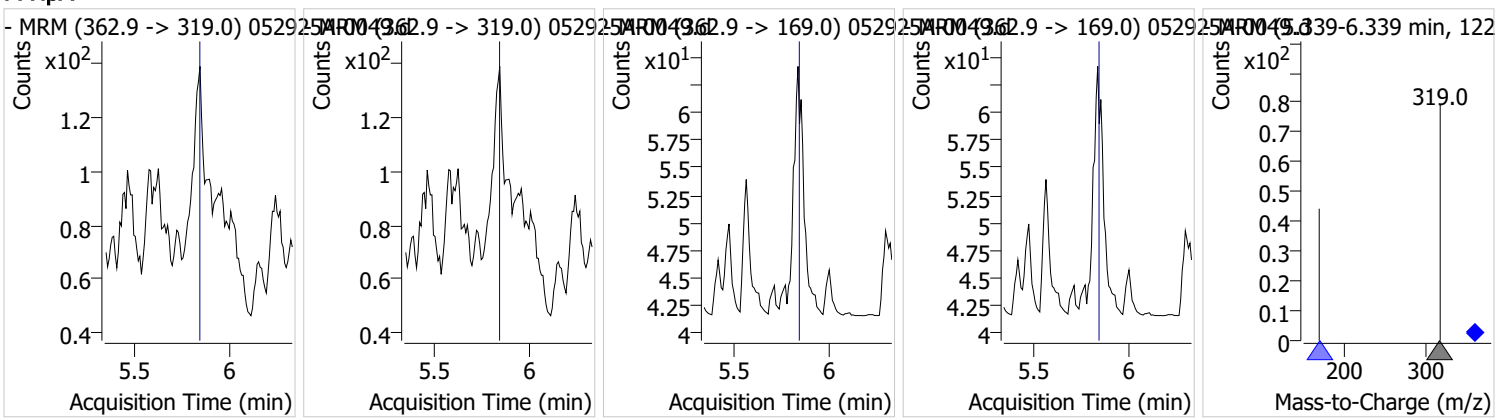
PFDoA



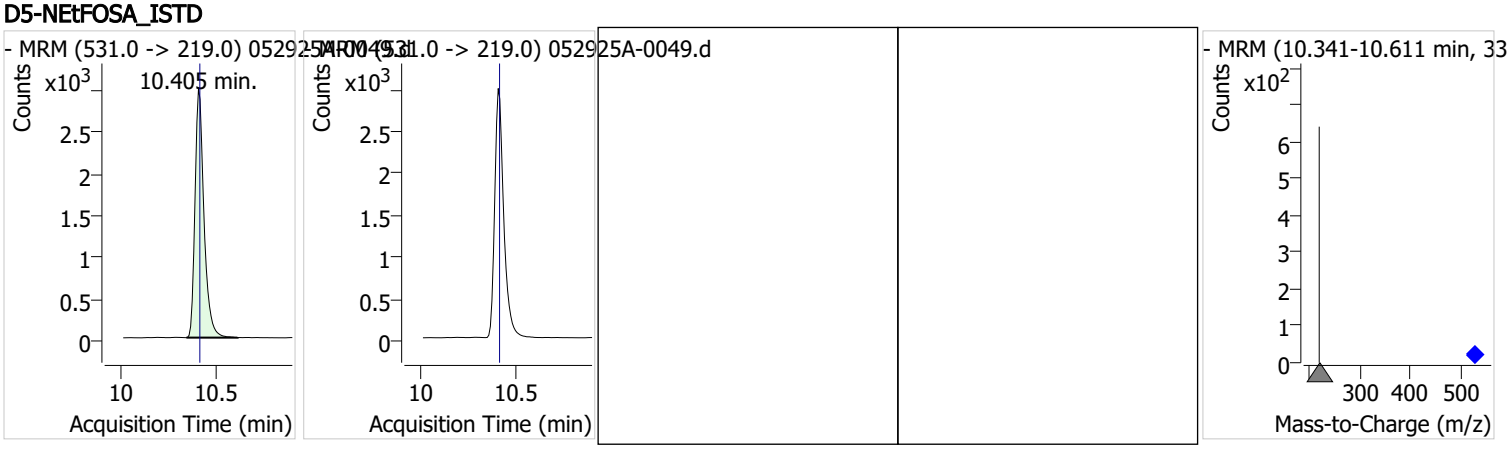
NEtFOSA



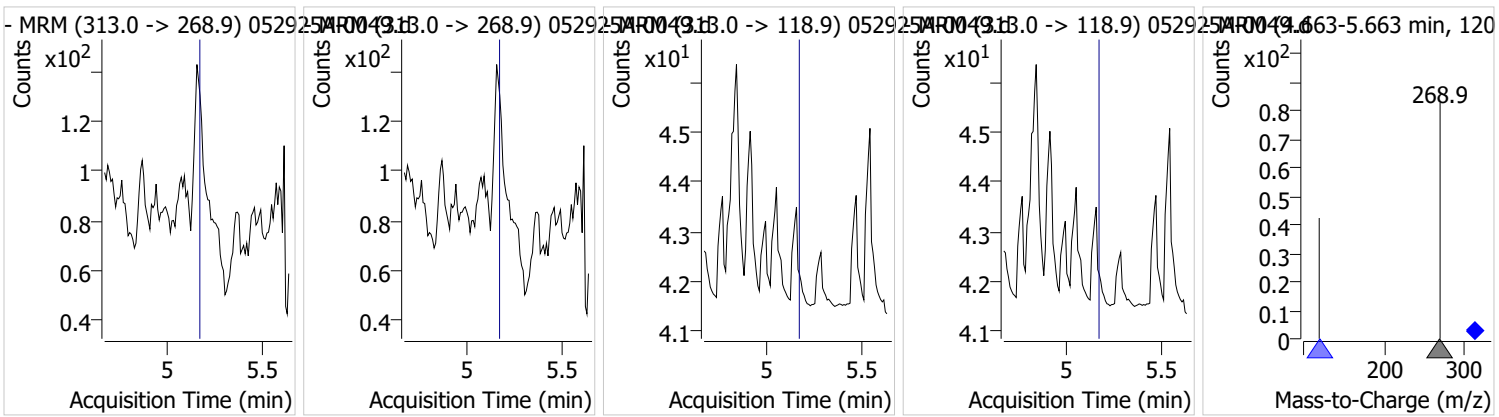
PFHpA



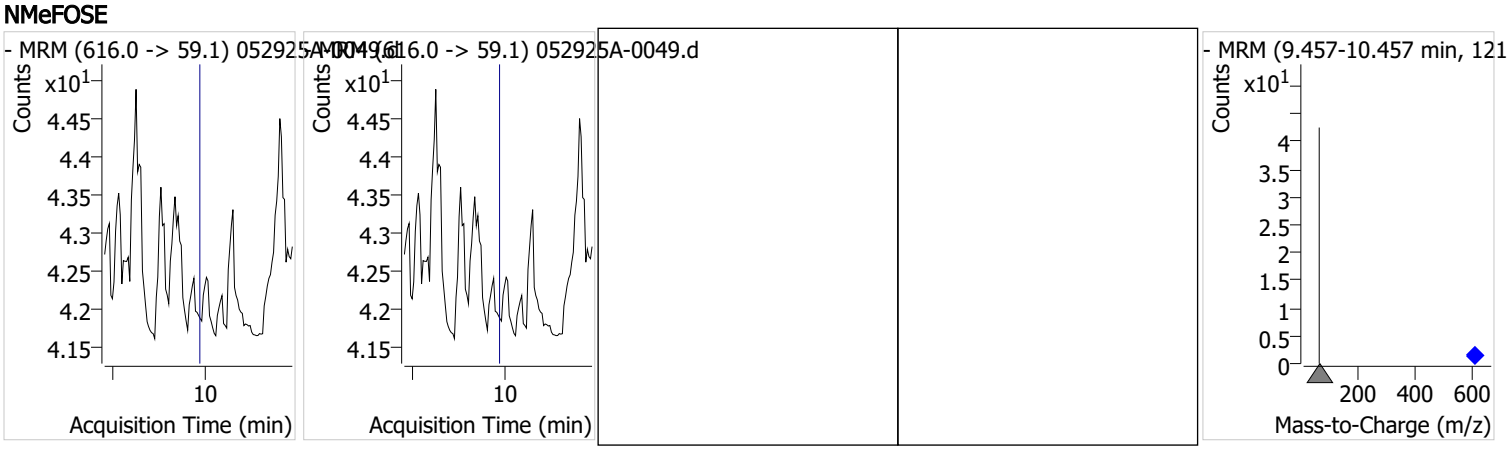
D5-NEtFOSA_ISTD



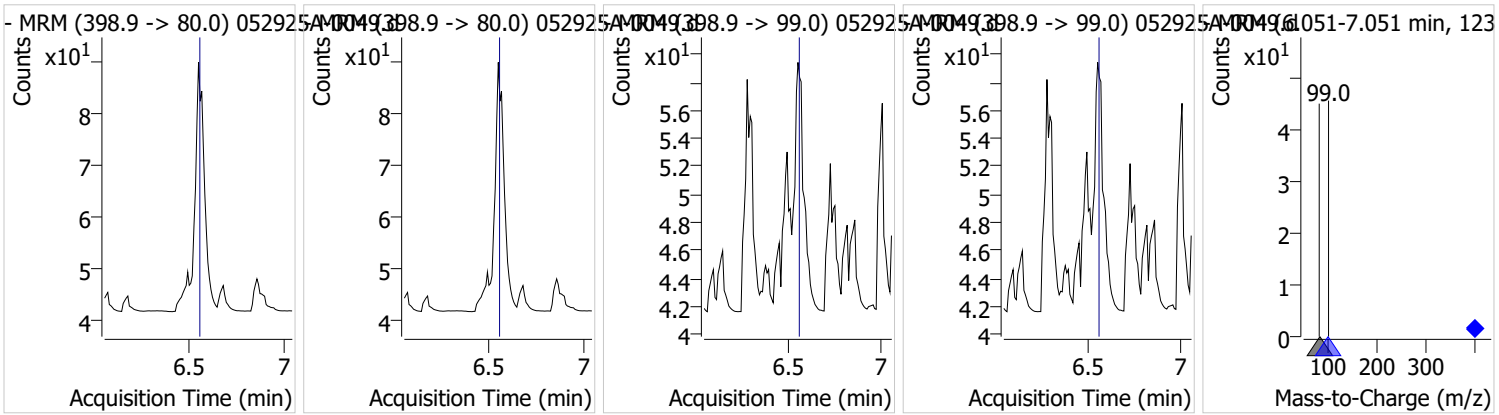
PFHxA



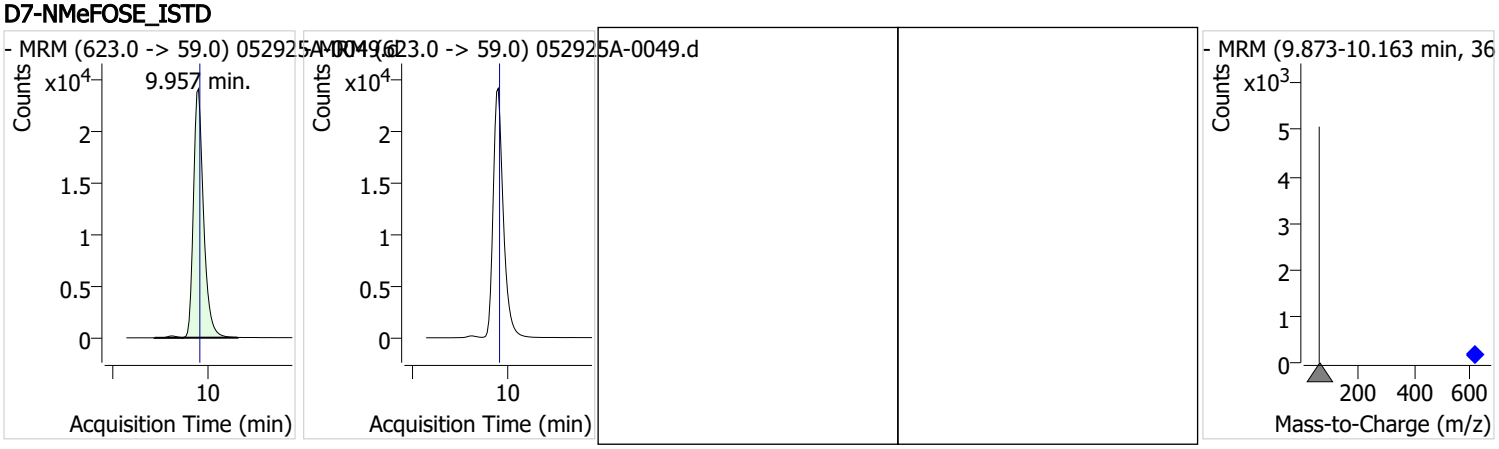
NMeFOSE



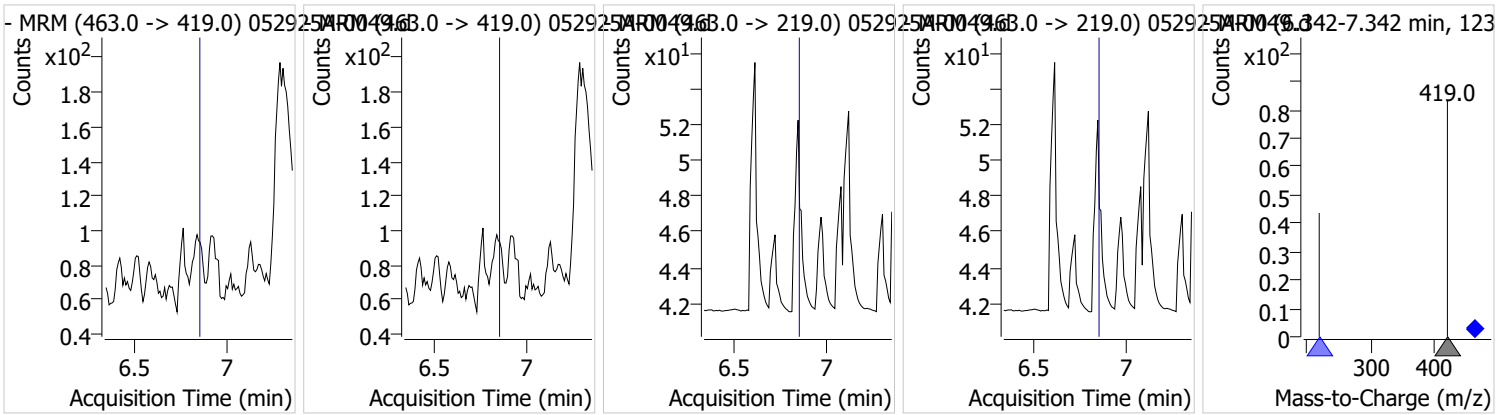
PFHxS



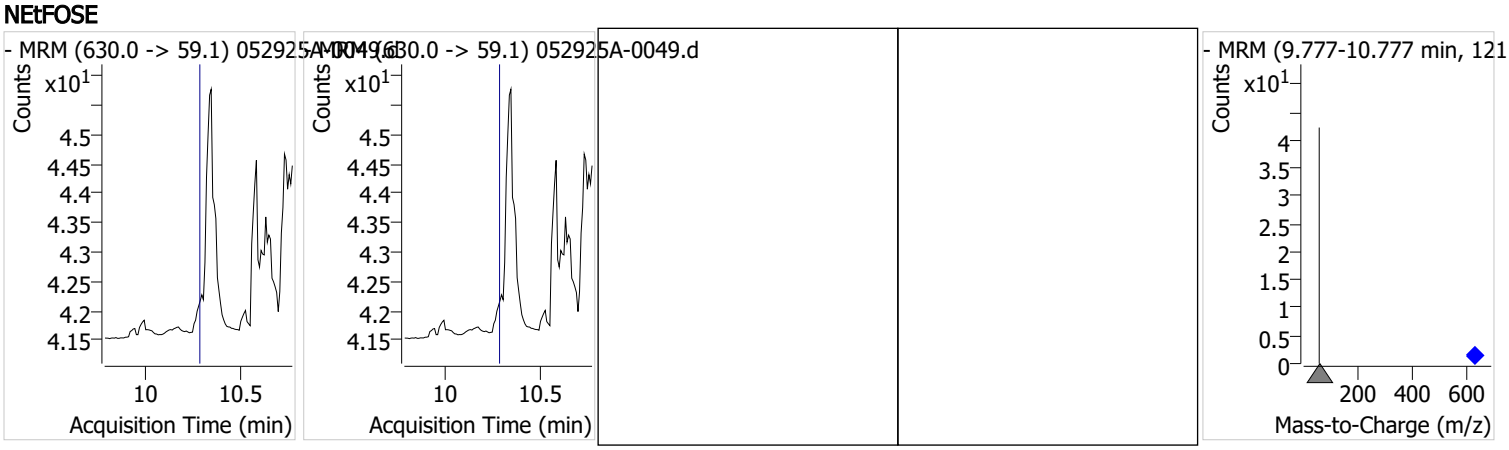
D7-NMeFOSE_ISTD



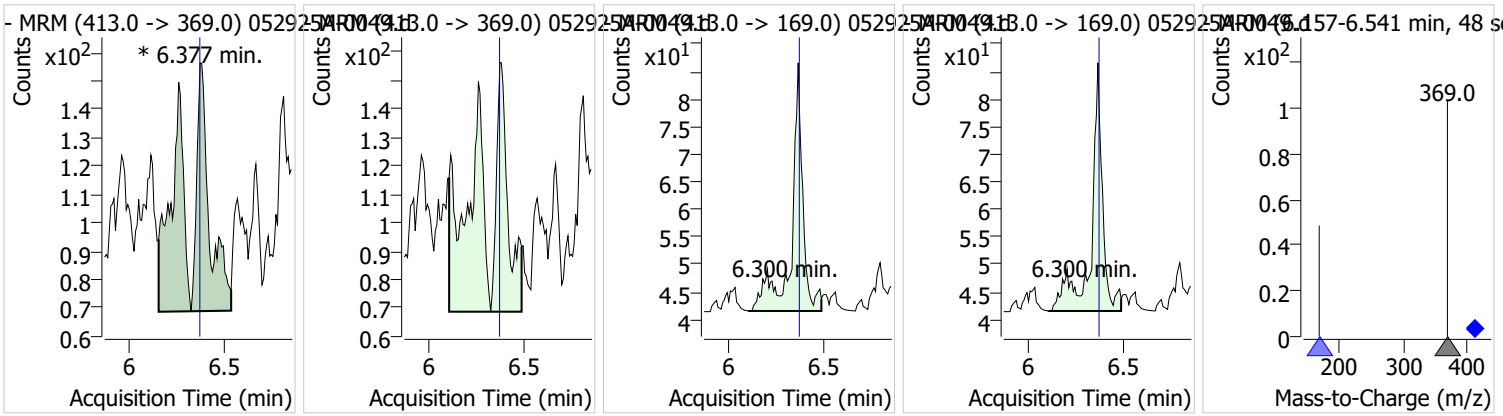
PFNA



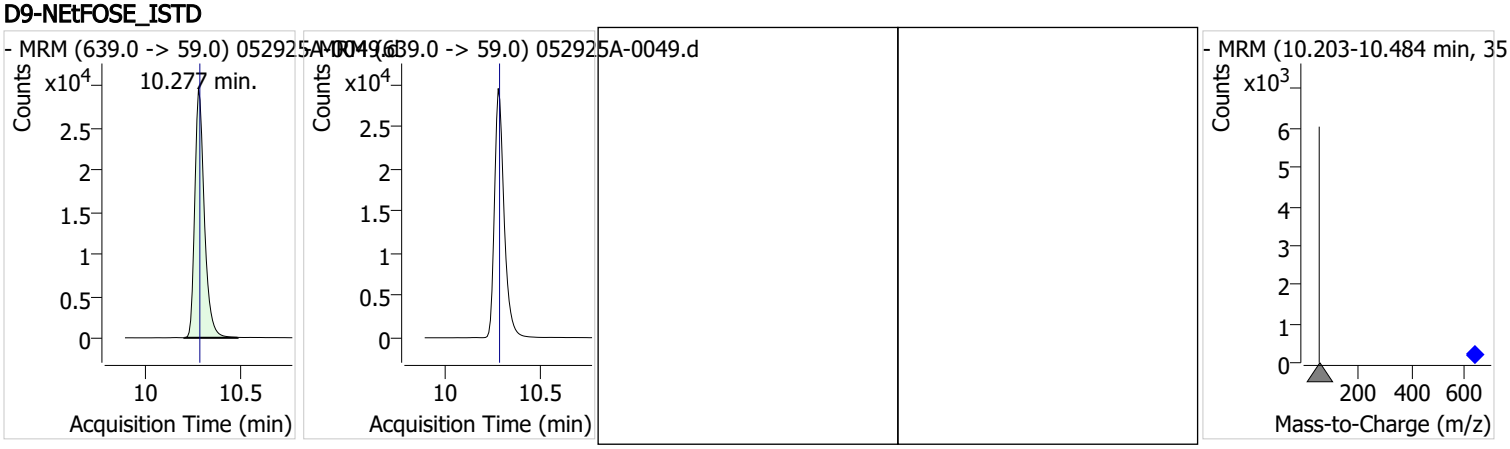
NEtFOSE



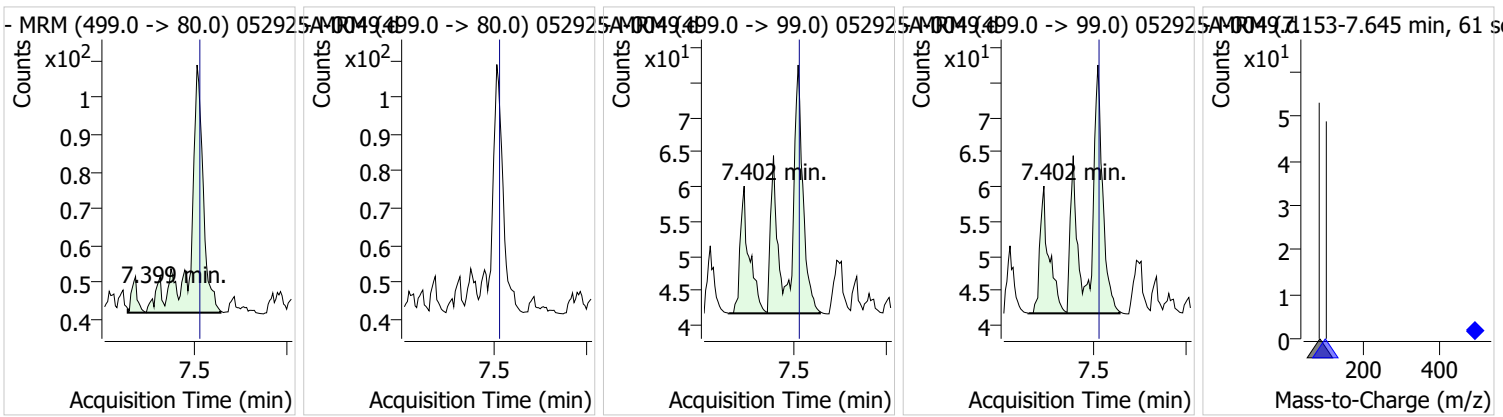
PFOA



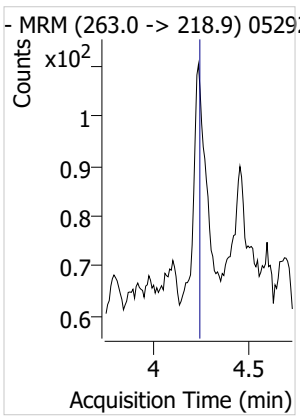
D9-NEtFOSE_ISTD

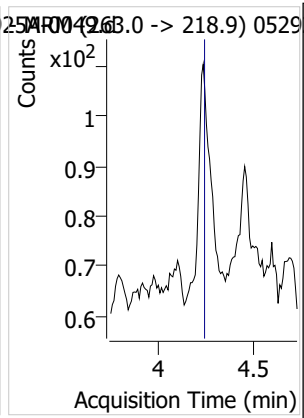


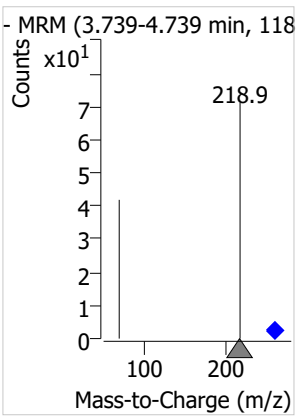
PFOS



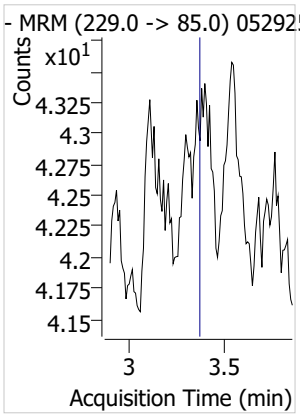
PFPeA

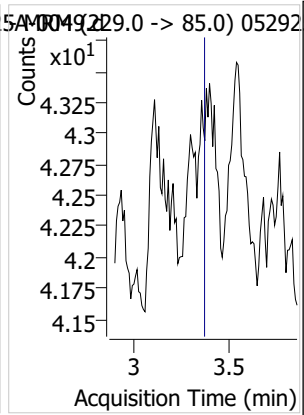


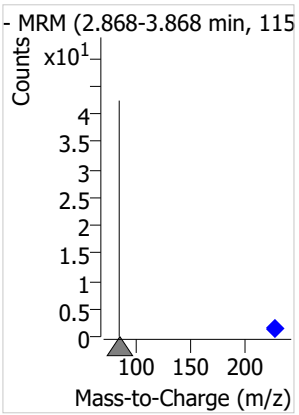




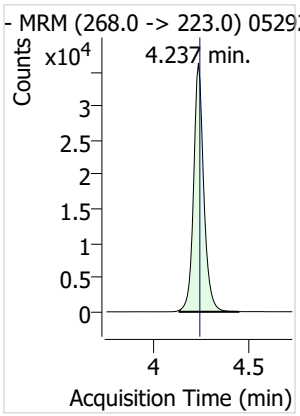
PFMPA

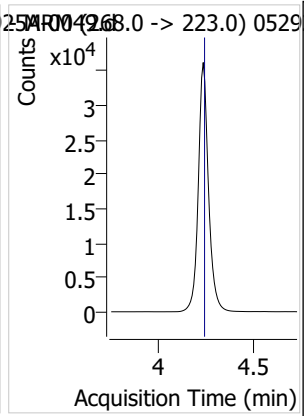


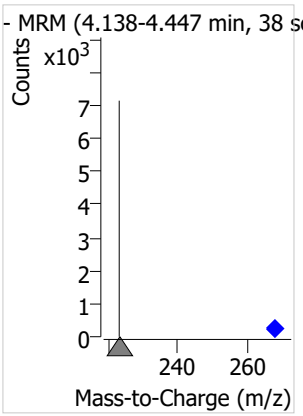




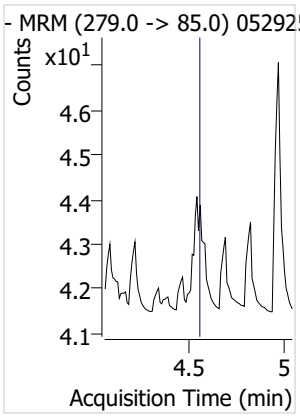
13C5-PFPeA

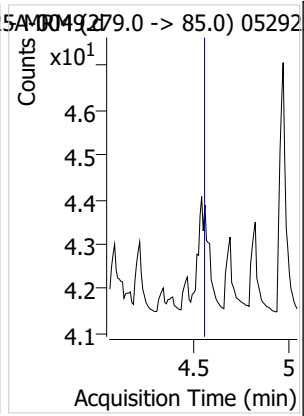


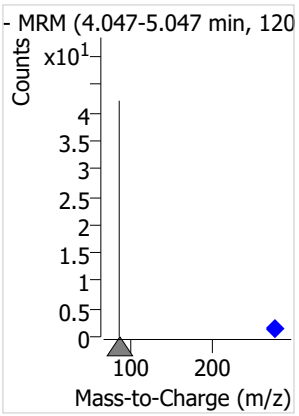




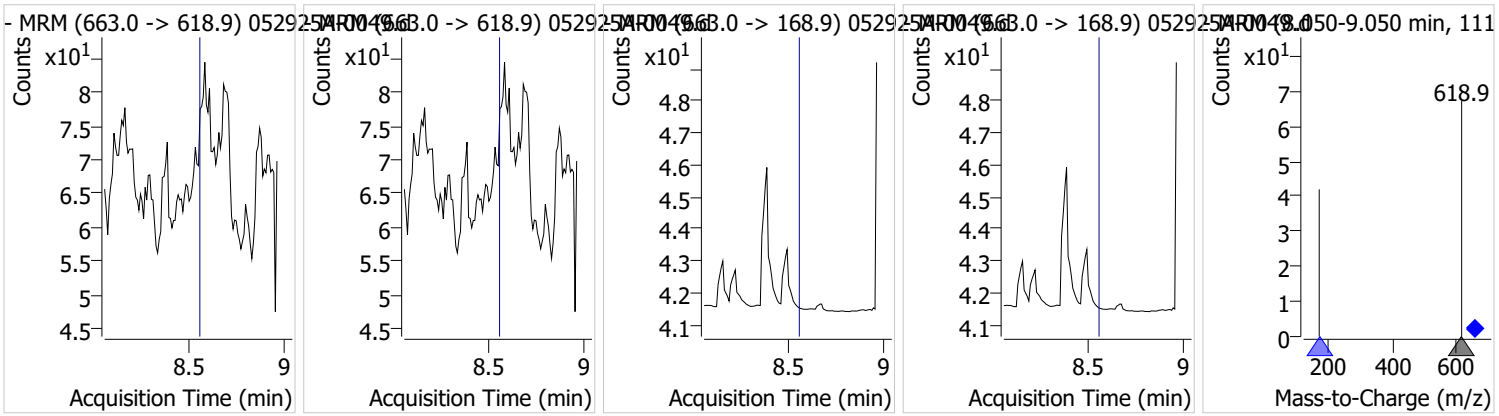
PFMBA



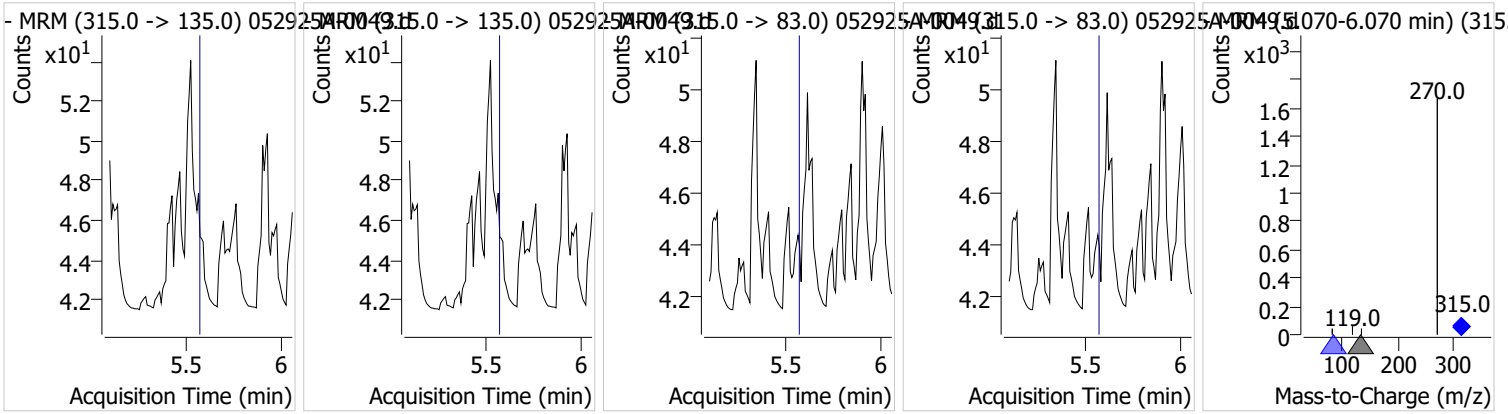




PFTrDA



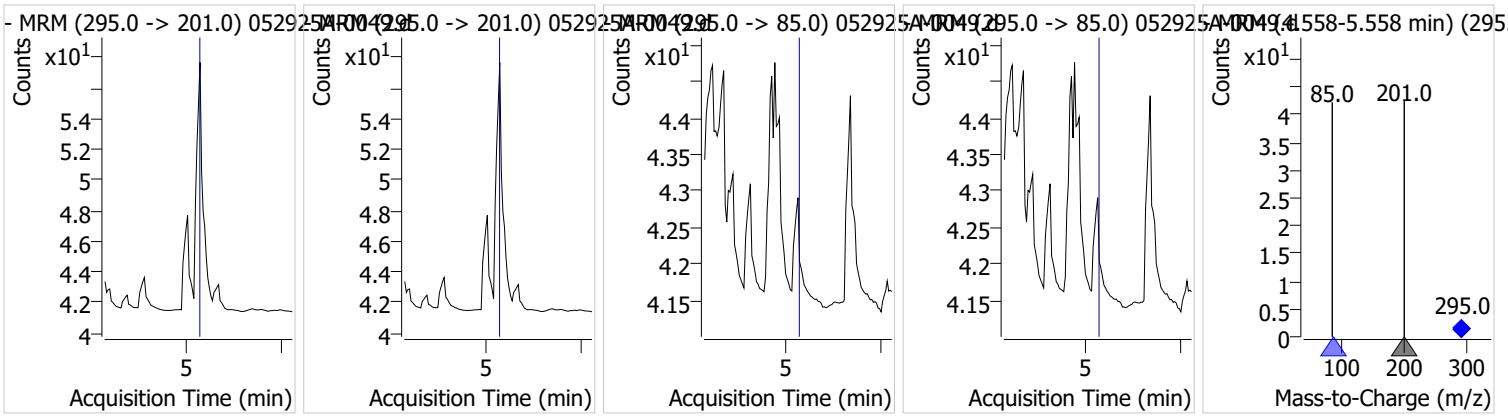
PFEESA



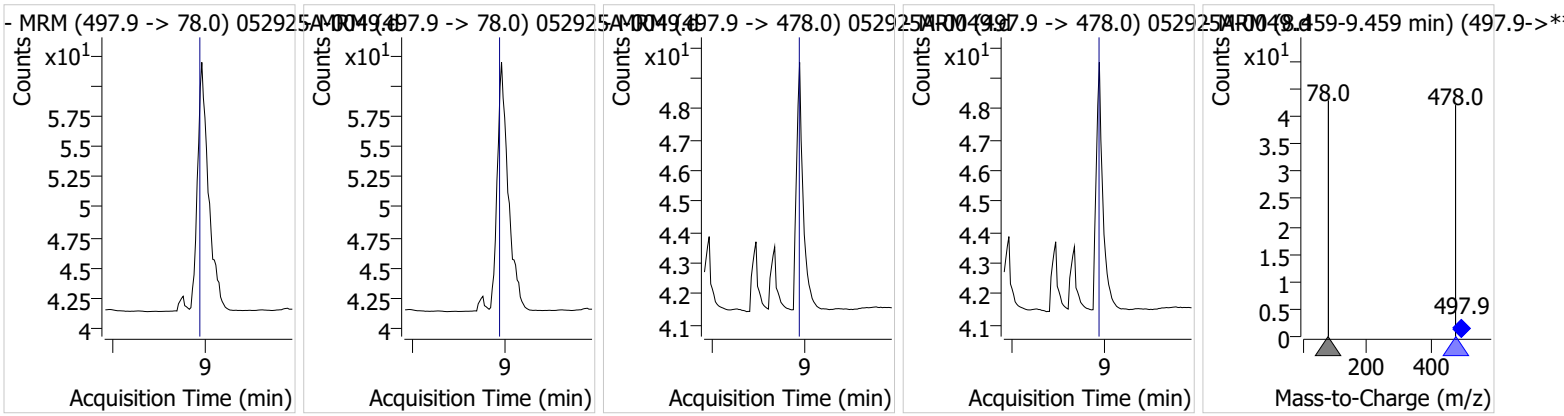
13C6-PFDA



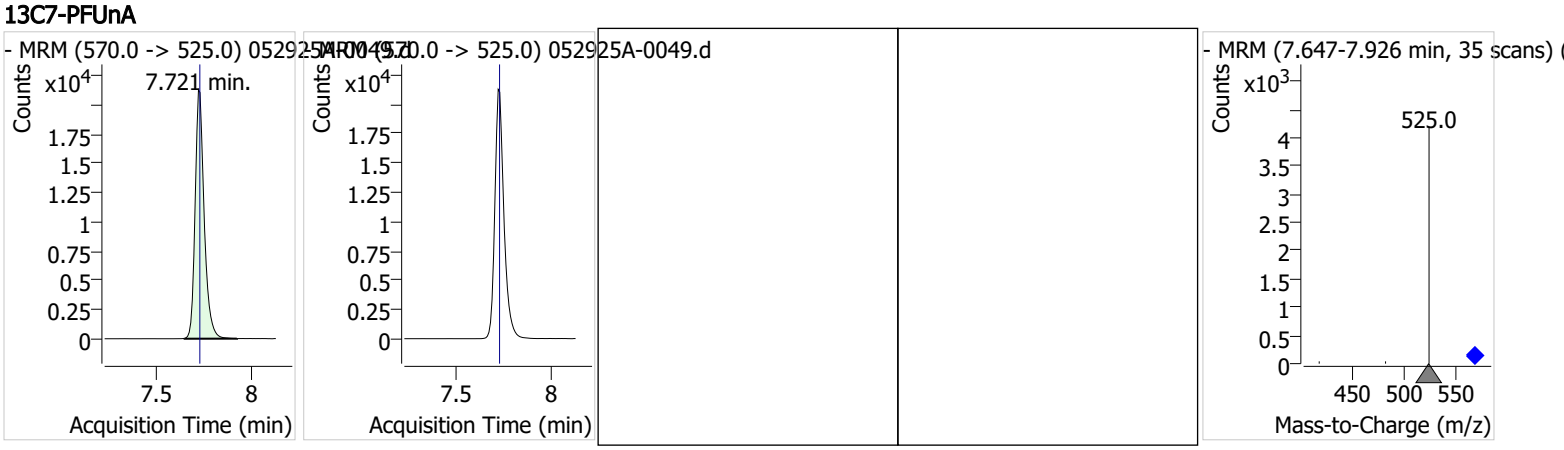
NFDHA



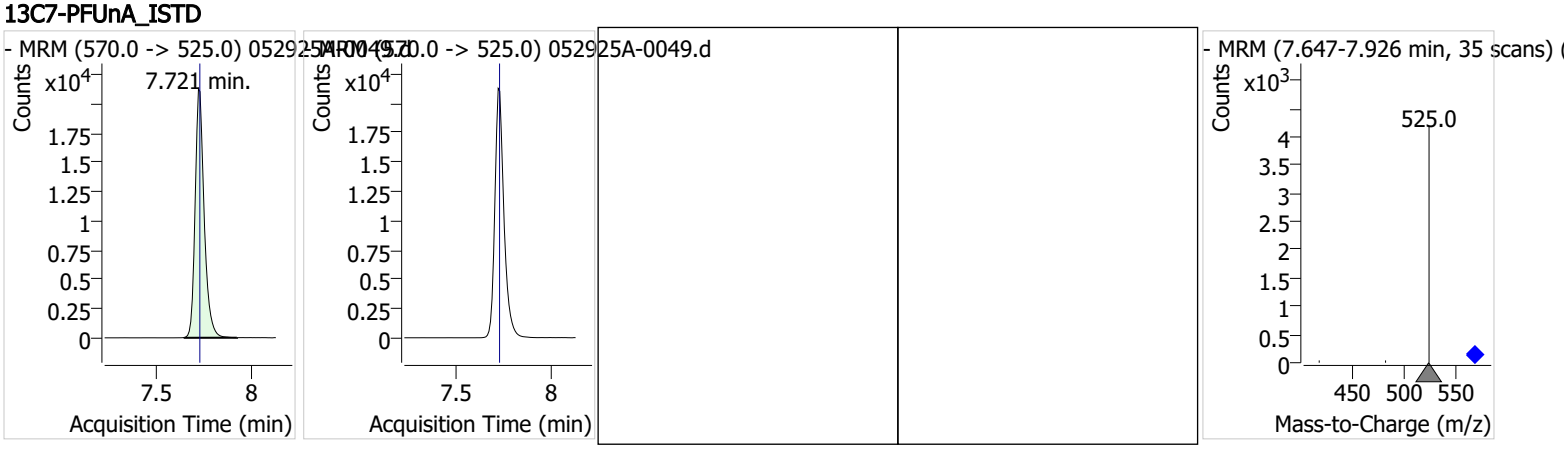
PFOSA



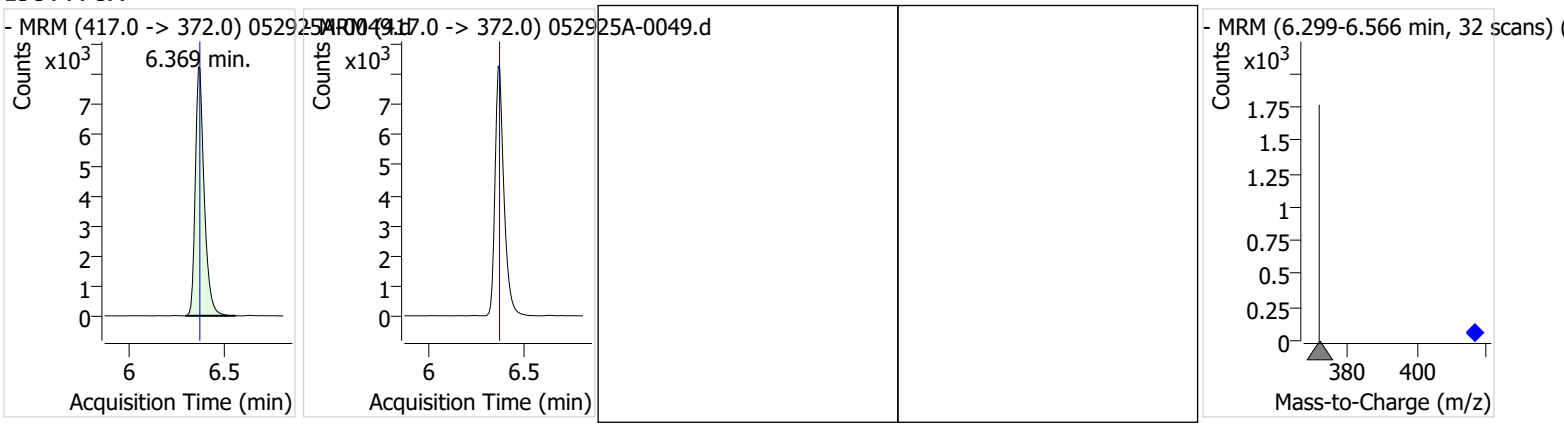
13C7-PFUnA



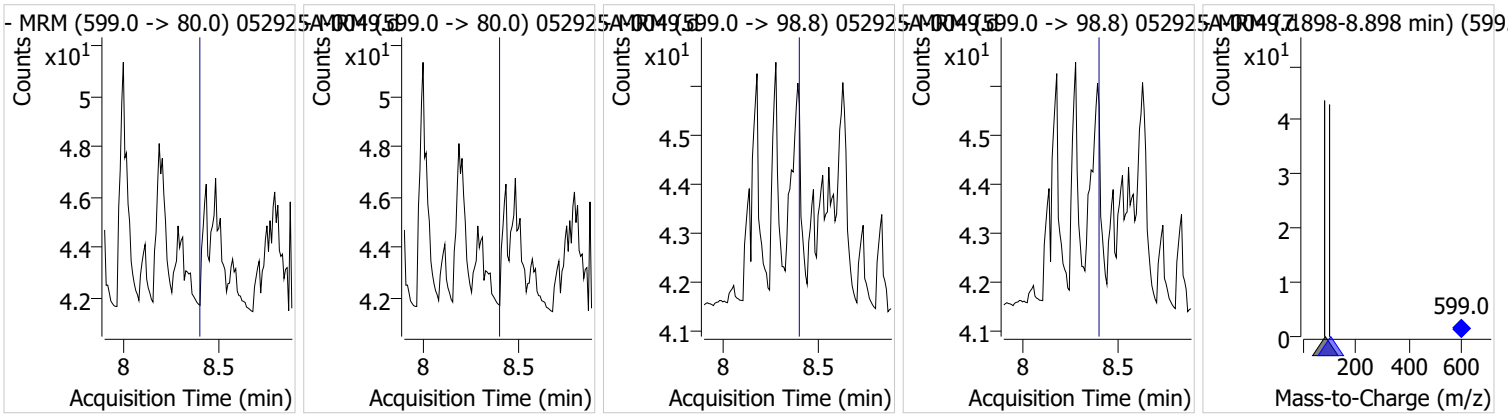
13C7-PFUnA_ISTD



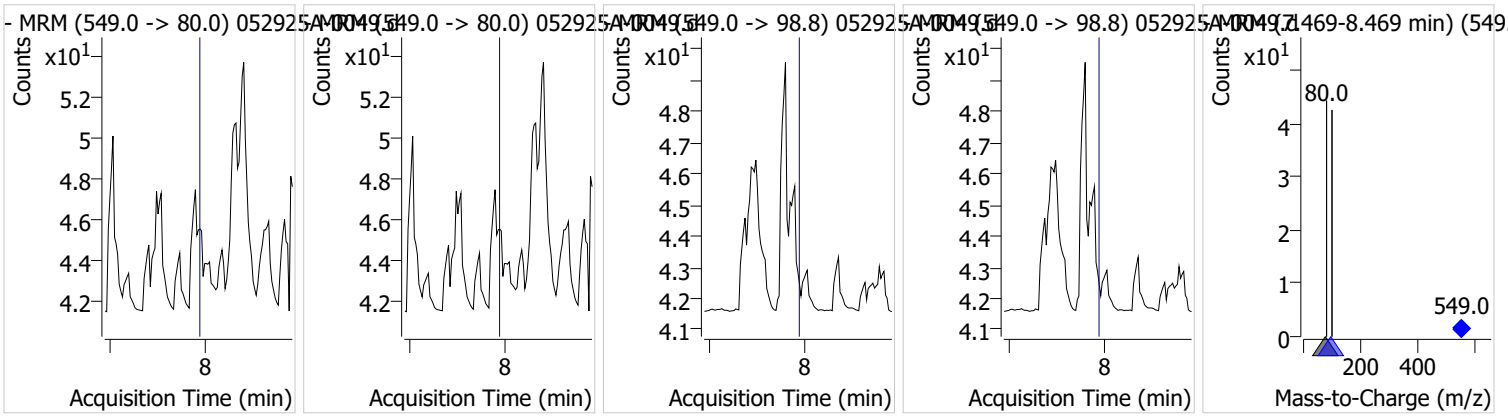
13C4-PFOA



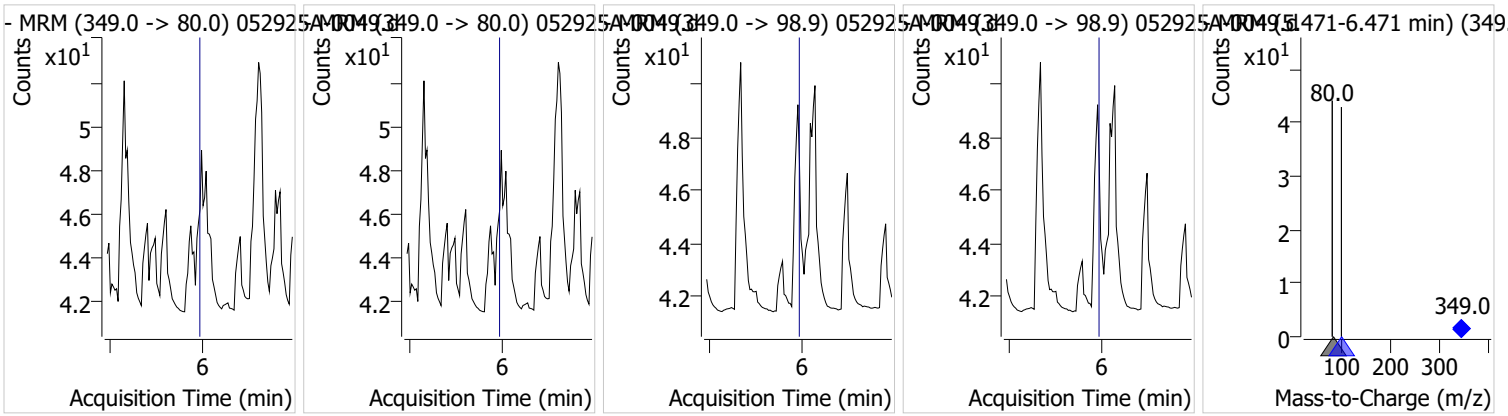
PFDS



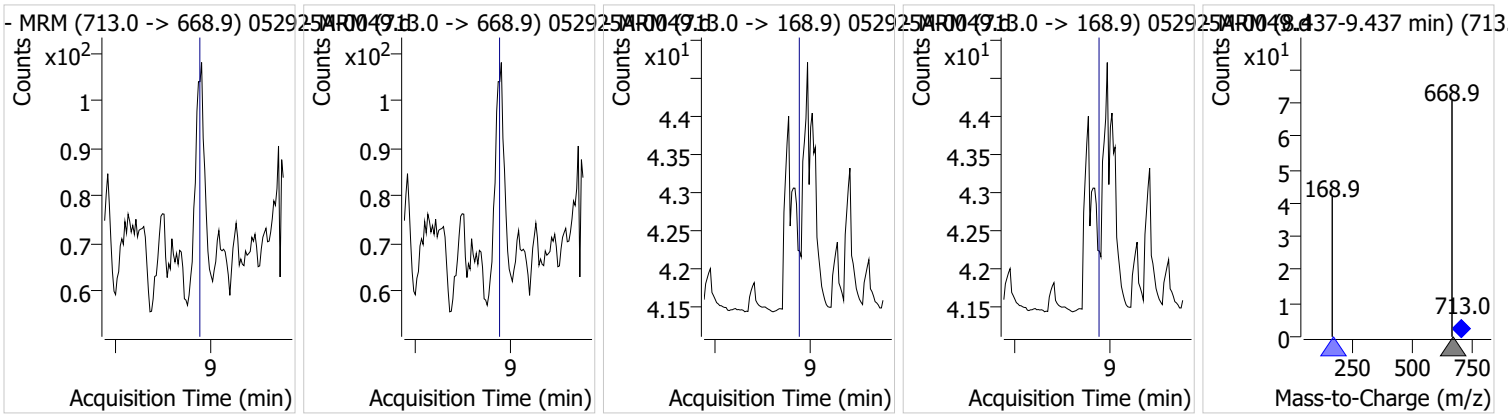
PFNS



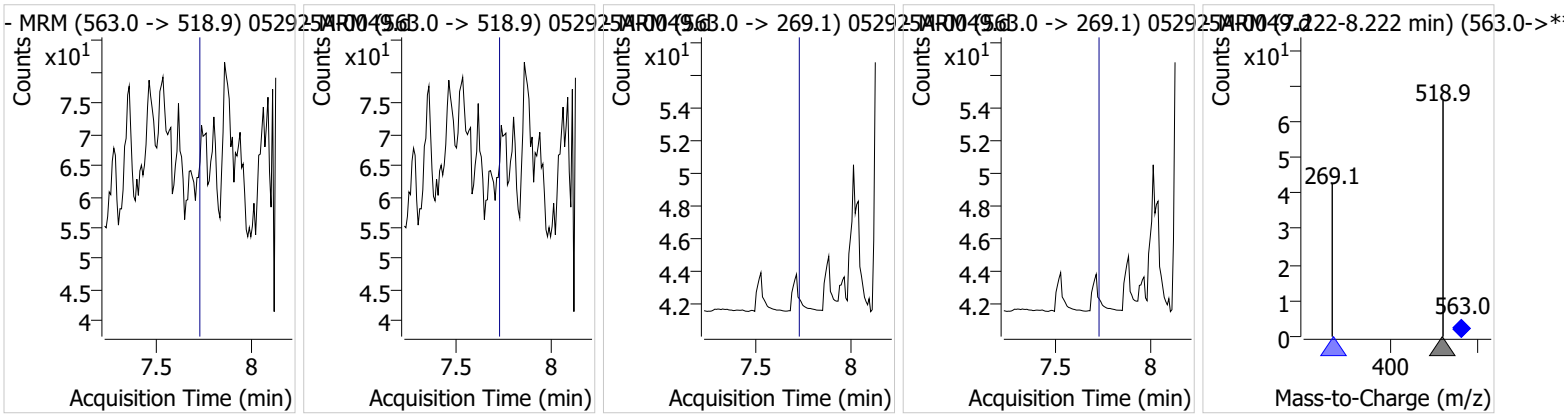
PFPeS



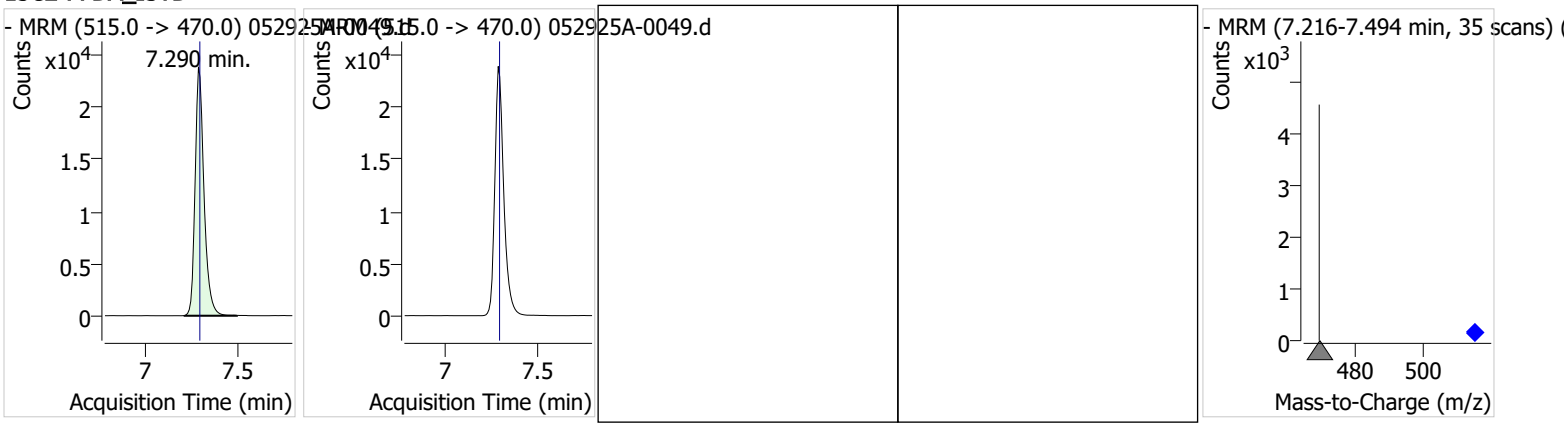
PFTeDA



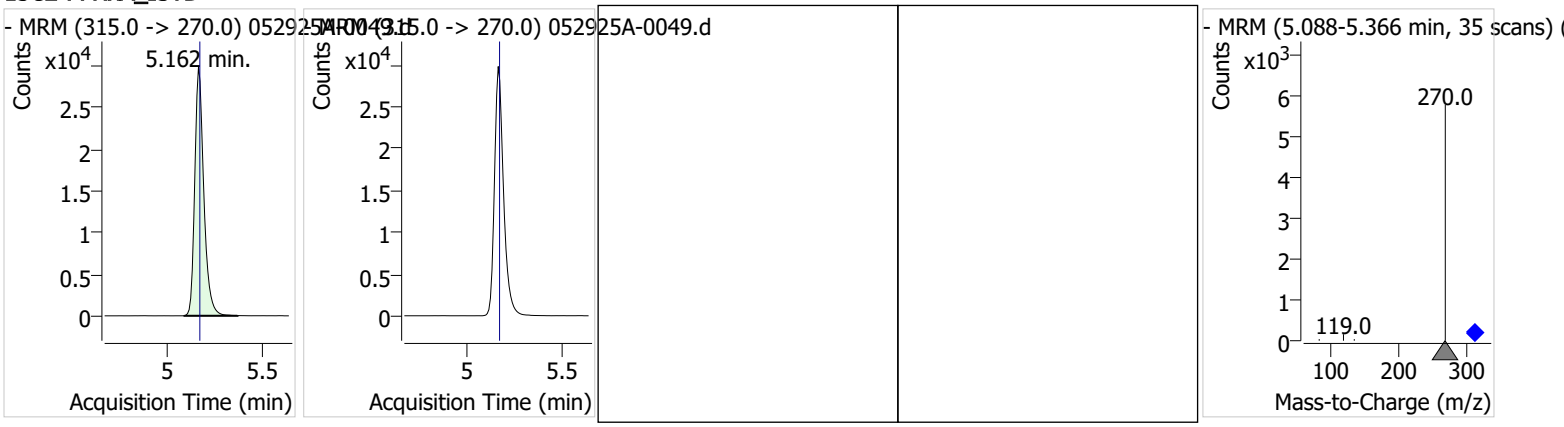
PFUnA



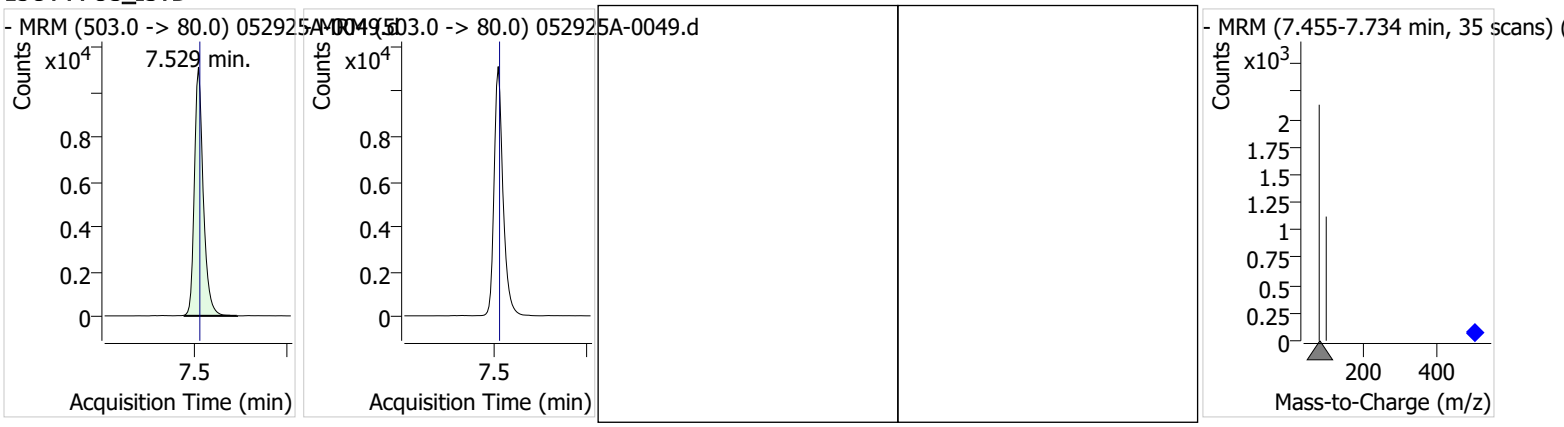
13C2-PFDA_ISTD



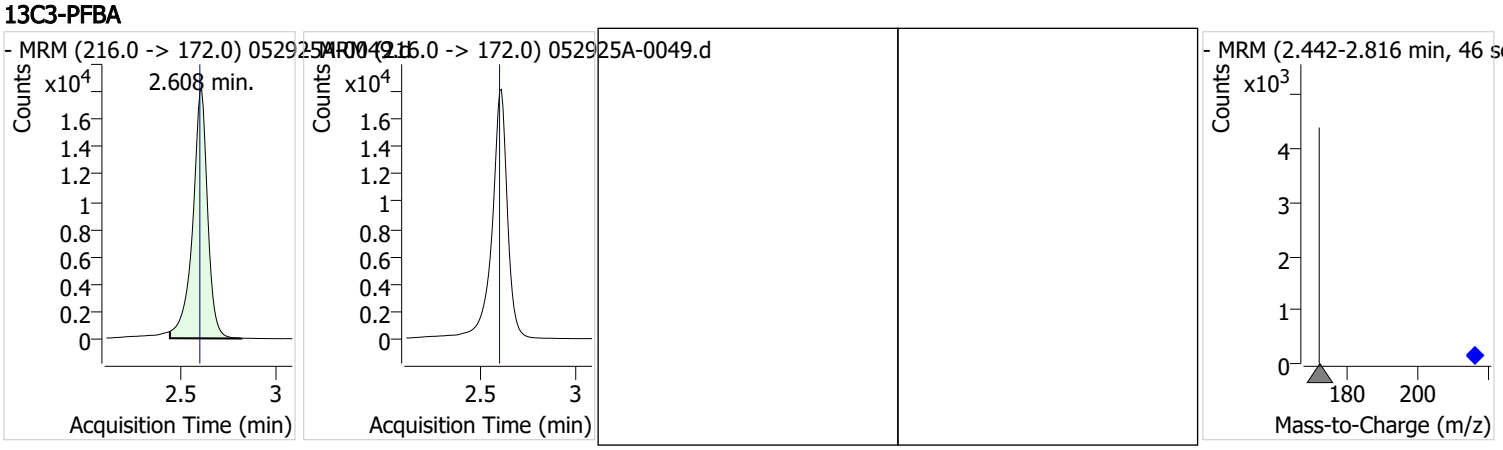
13C2-PFHxA_ISTD



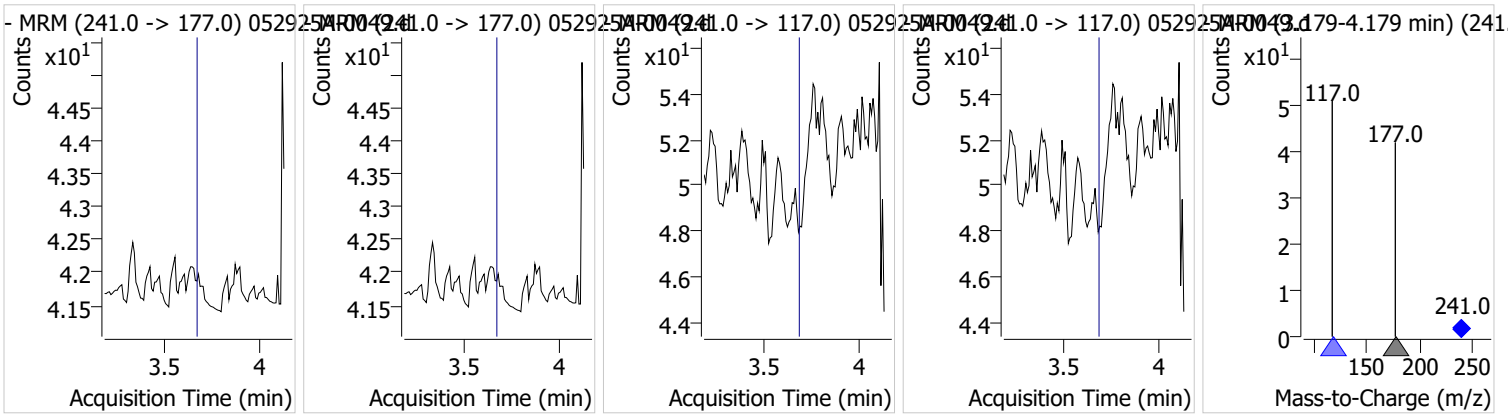
13C4-PFOS_ISTD



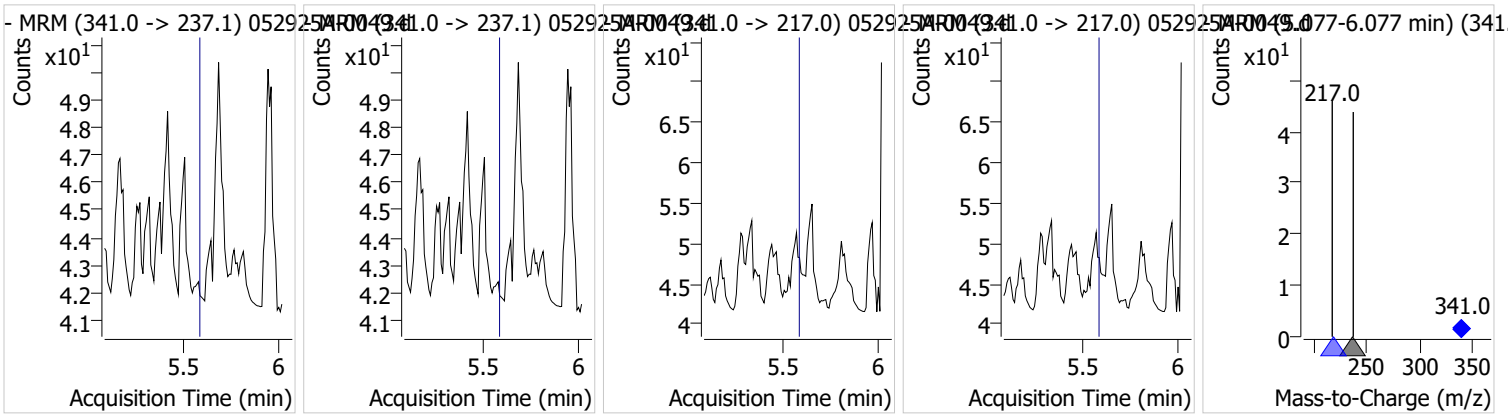
13C3-PFBA



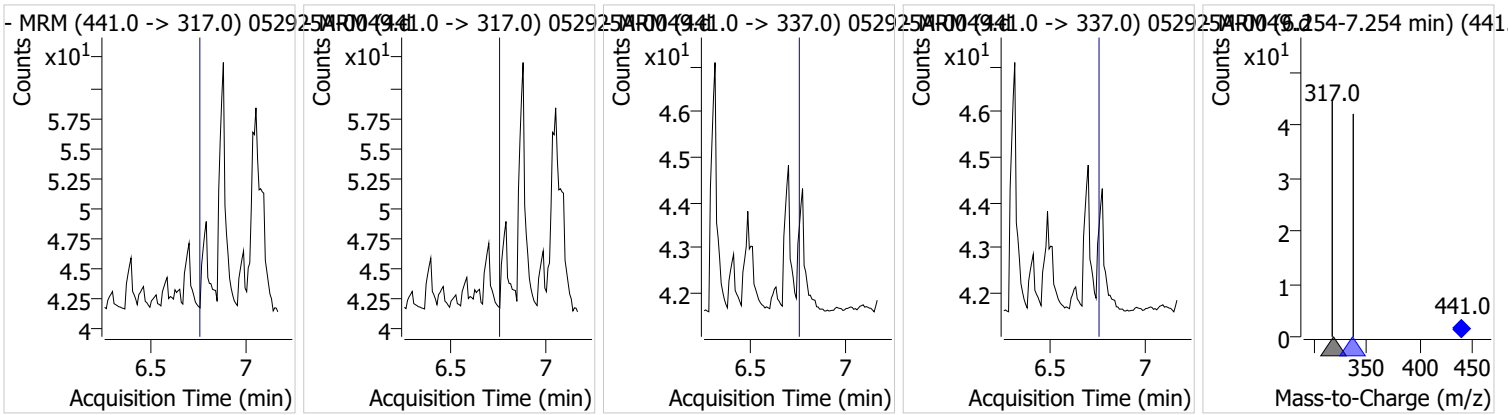
3:3FTCA



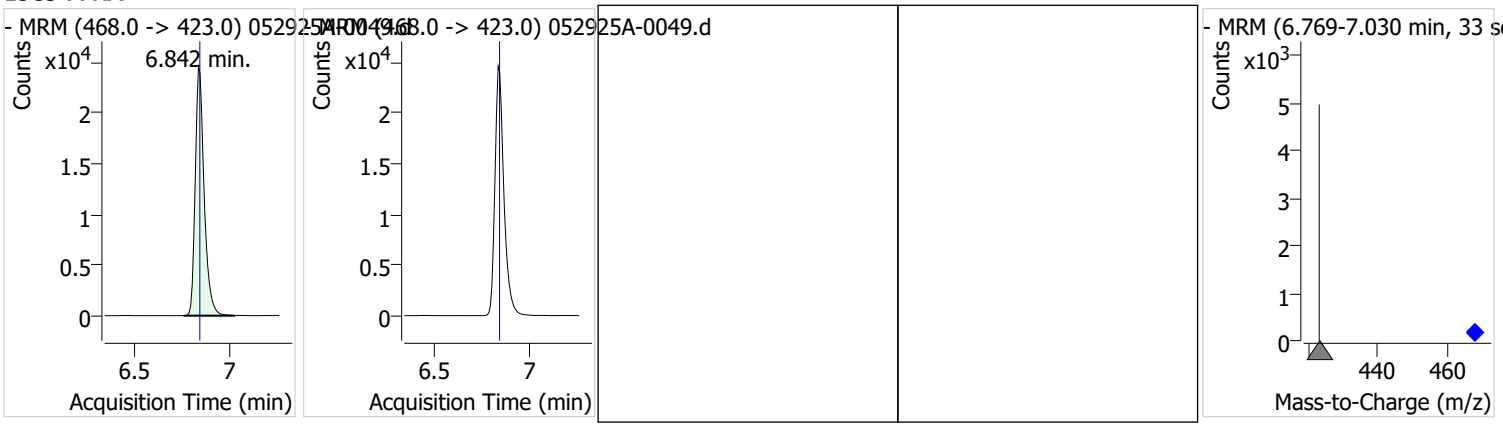
5:3FTCA



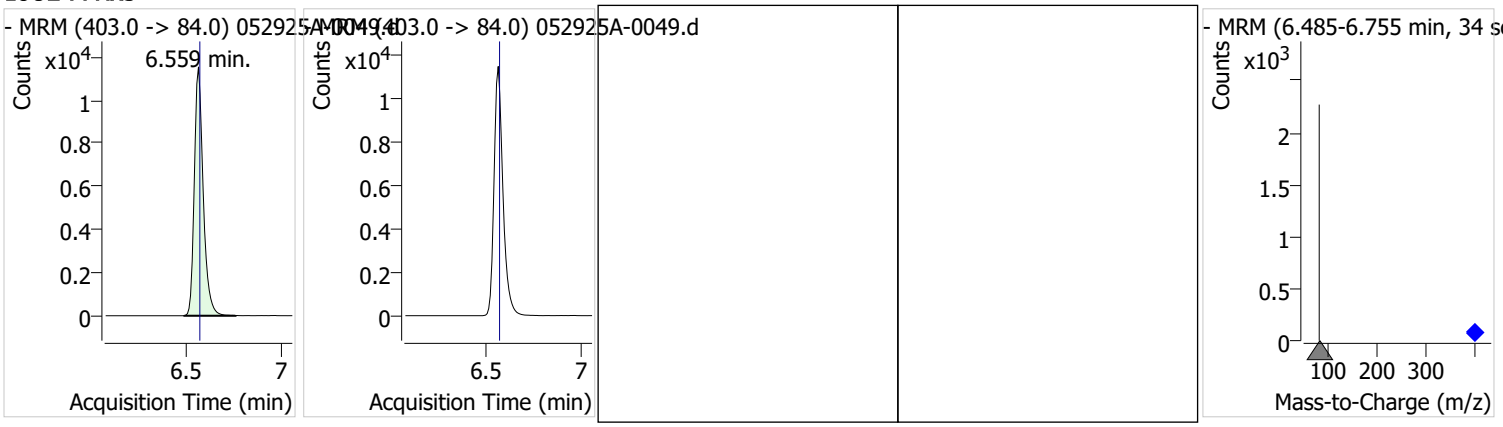
7:3FTCA



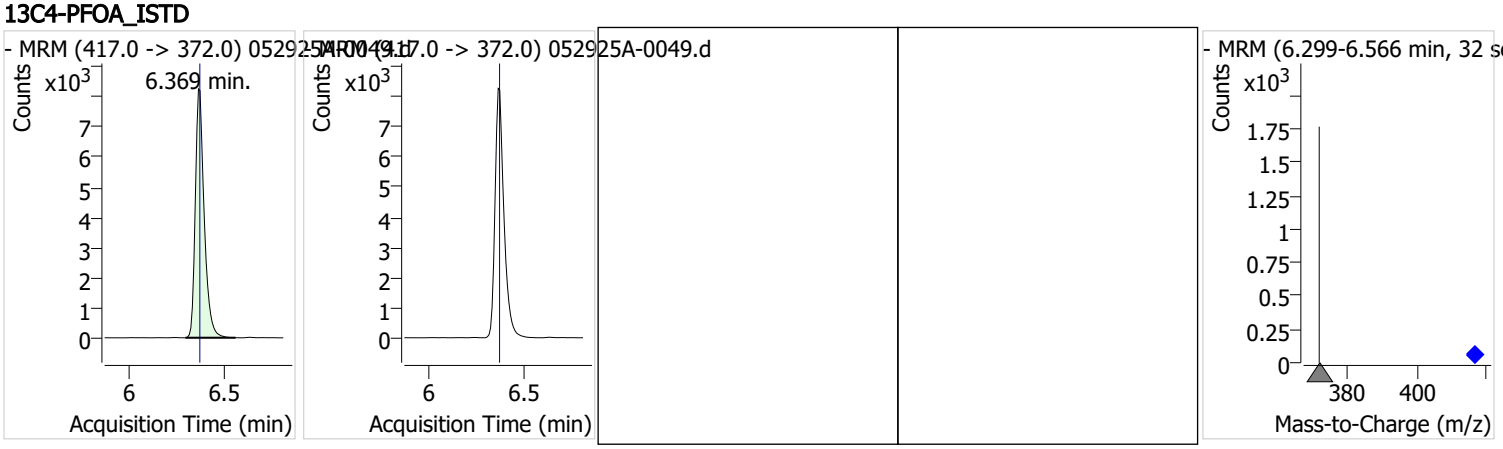
13C5-PFNA



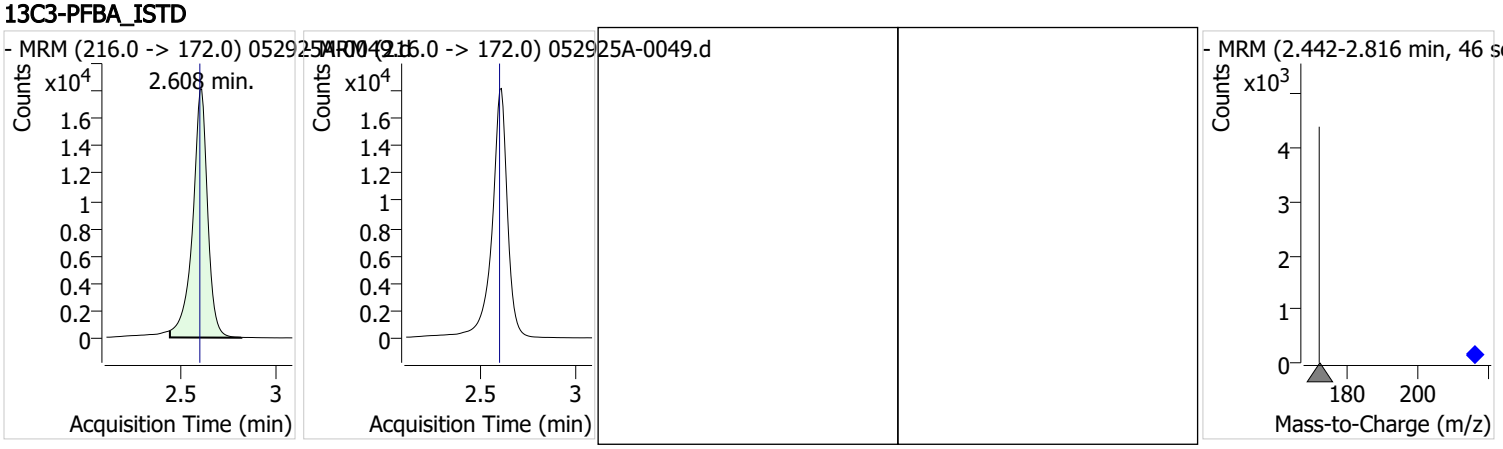
18O2-PFHxS



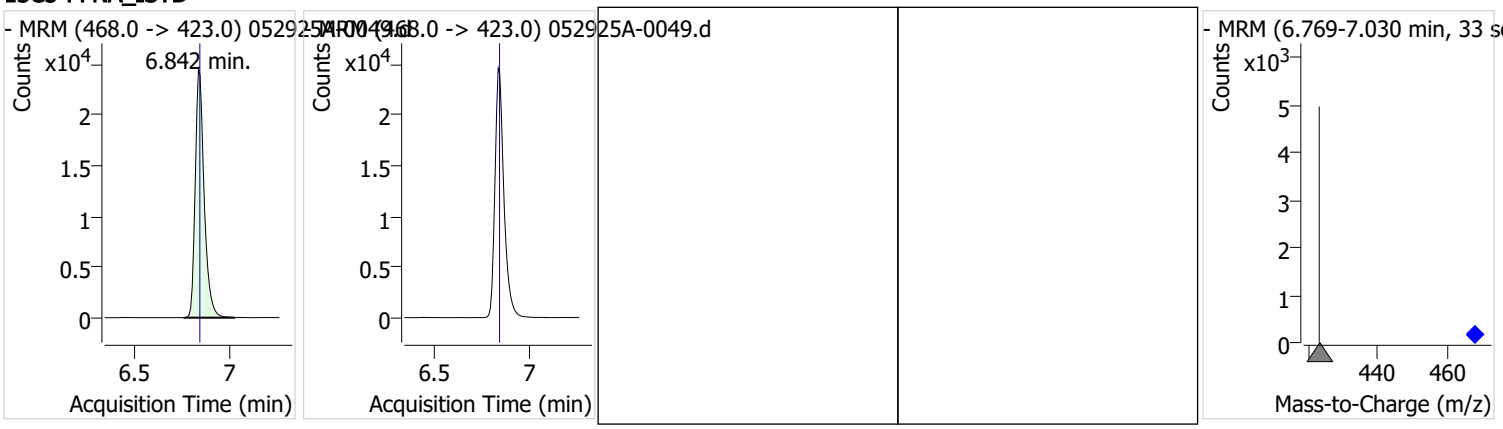
13C4-PFOA_ISTD



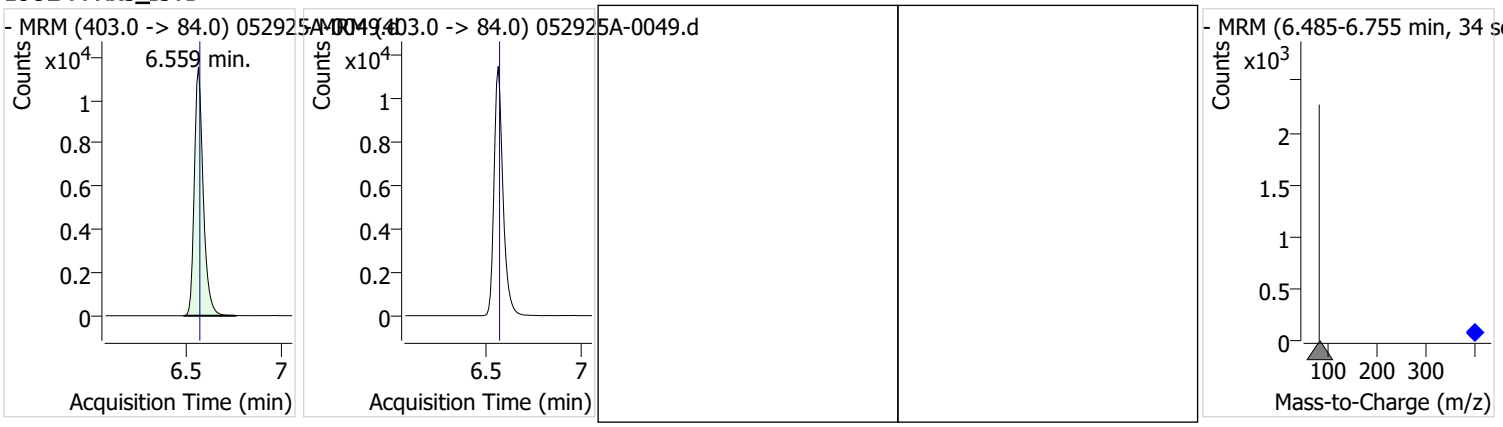
13C3-PFBA_ISTD



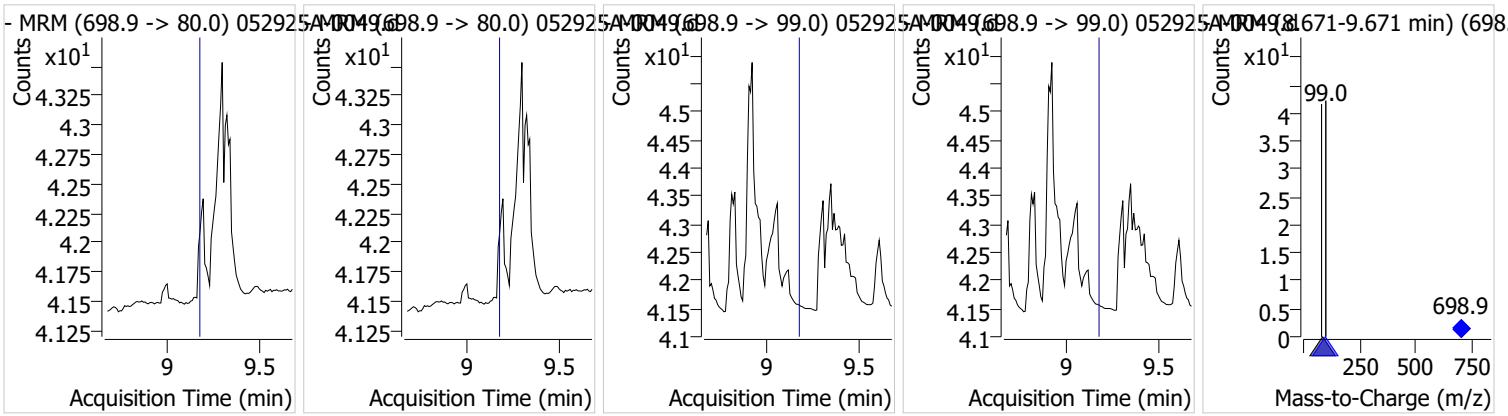
13C5-PFNA_ISTD



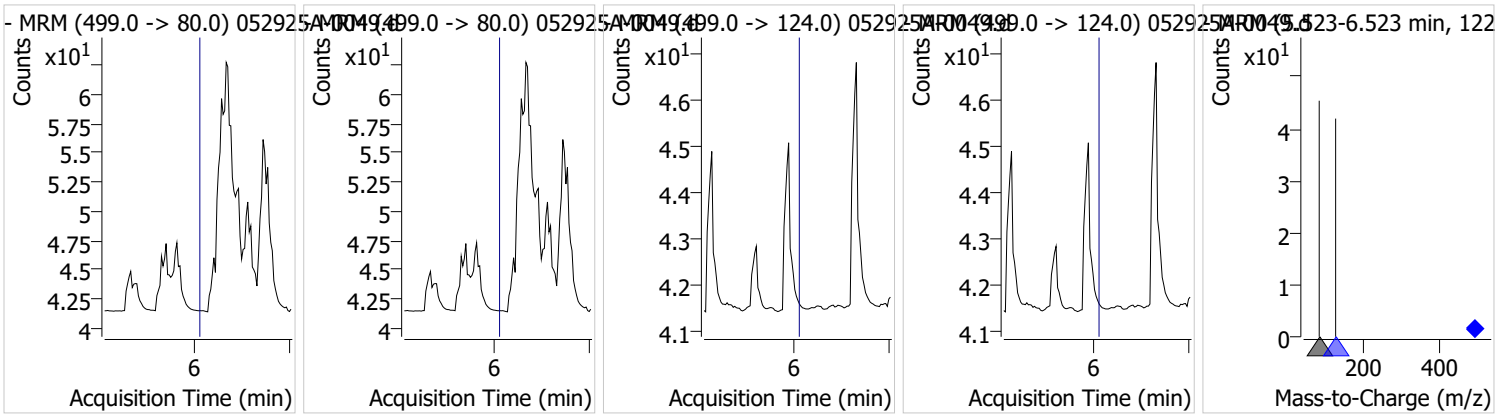
18O2-PFHxS_ISTD



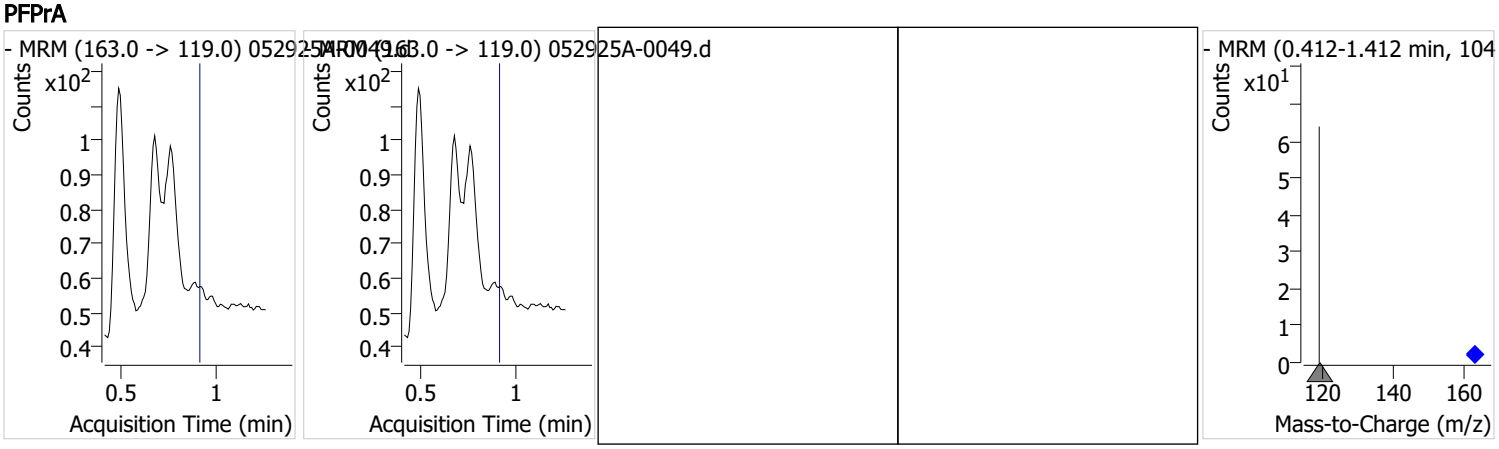
PFDoS



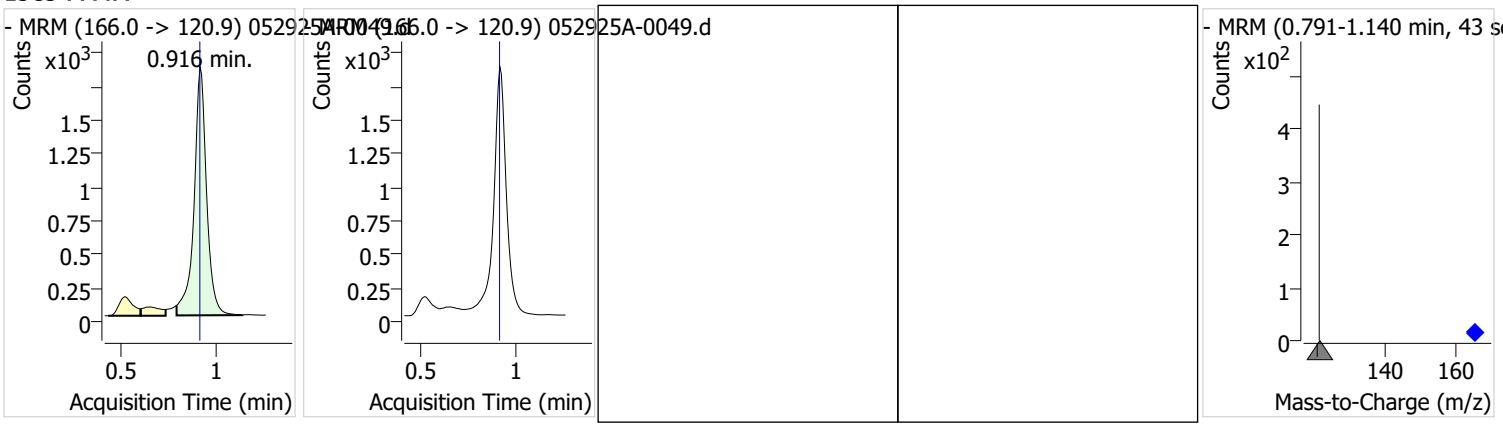
TDCA



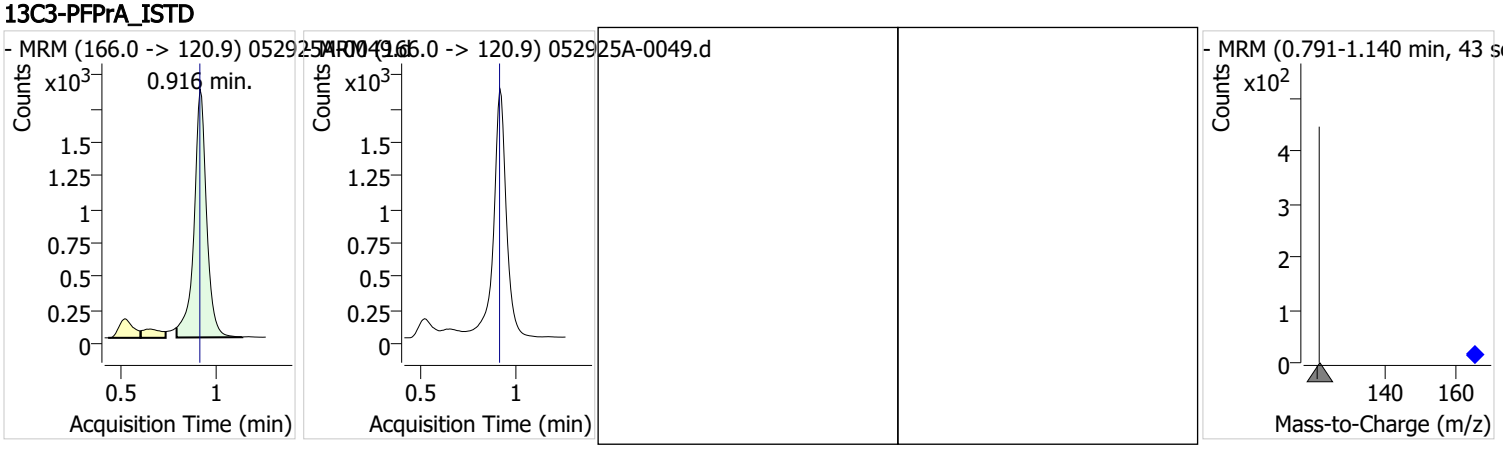
PFPrA



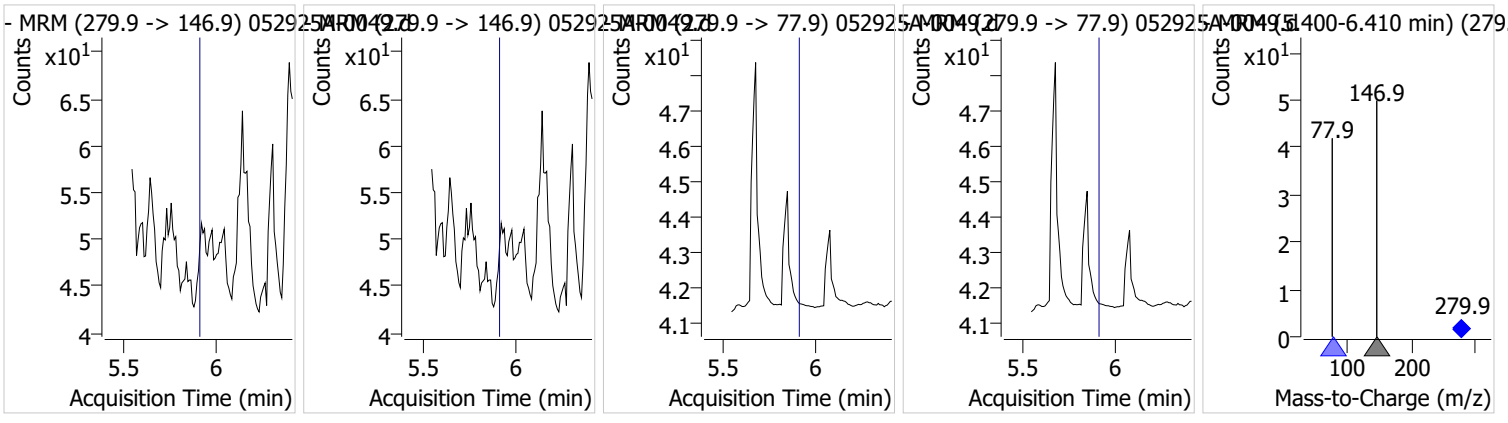
13C3-PFPrA



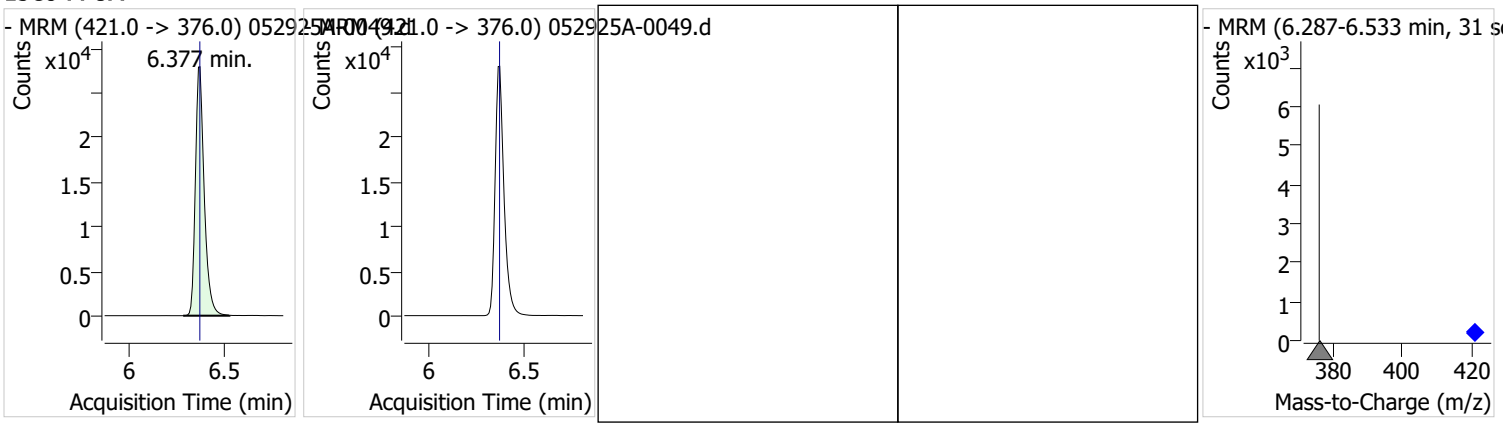
13C3-PFPrA_ISTD



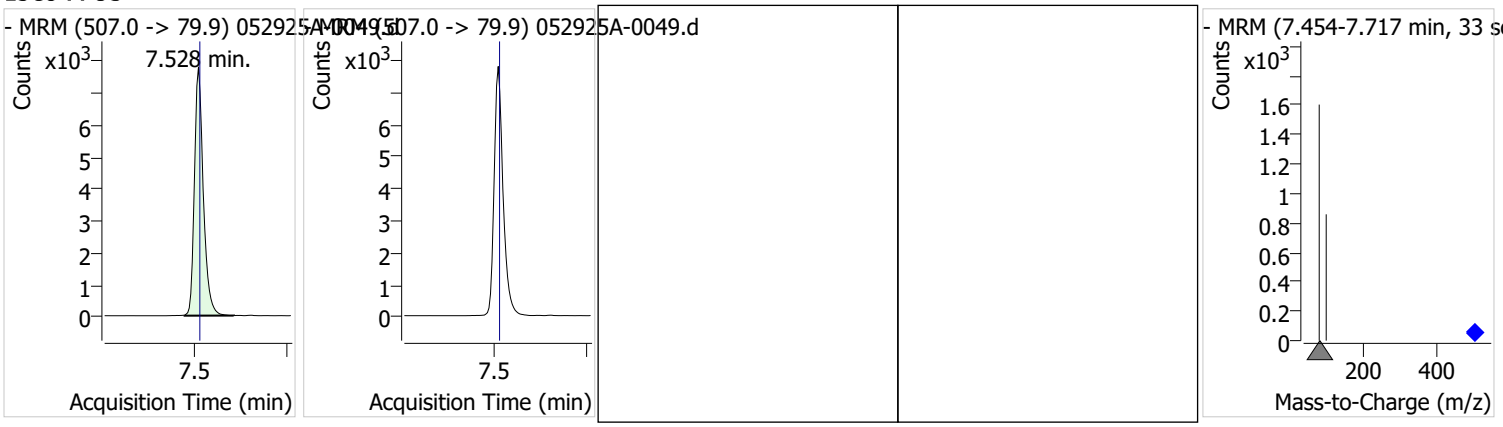
TFSI



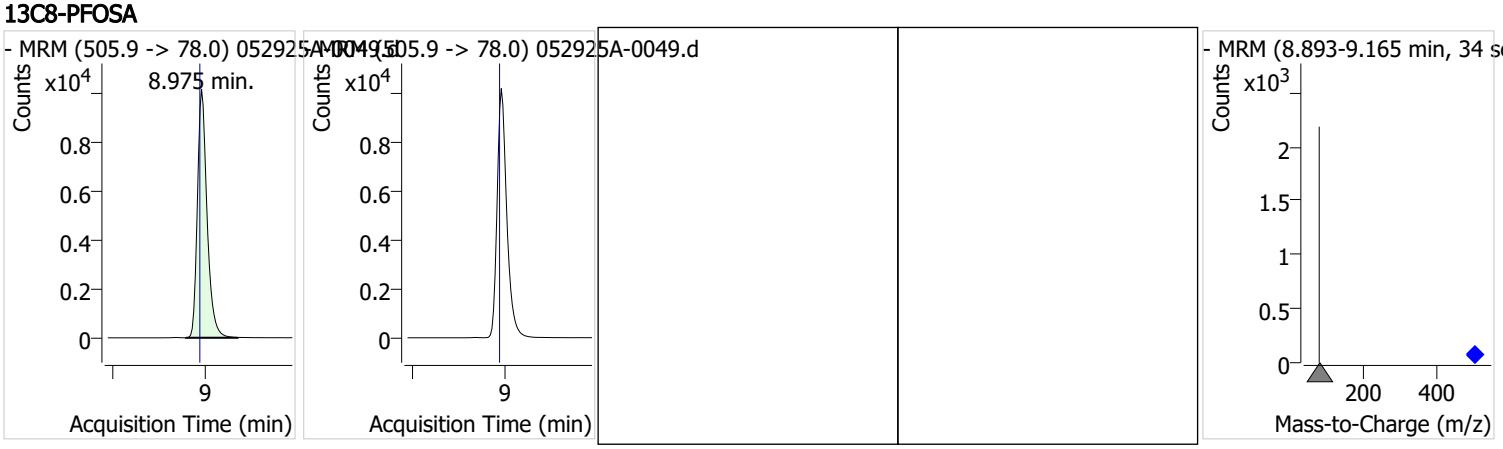
13C8-PFOA



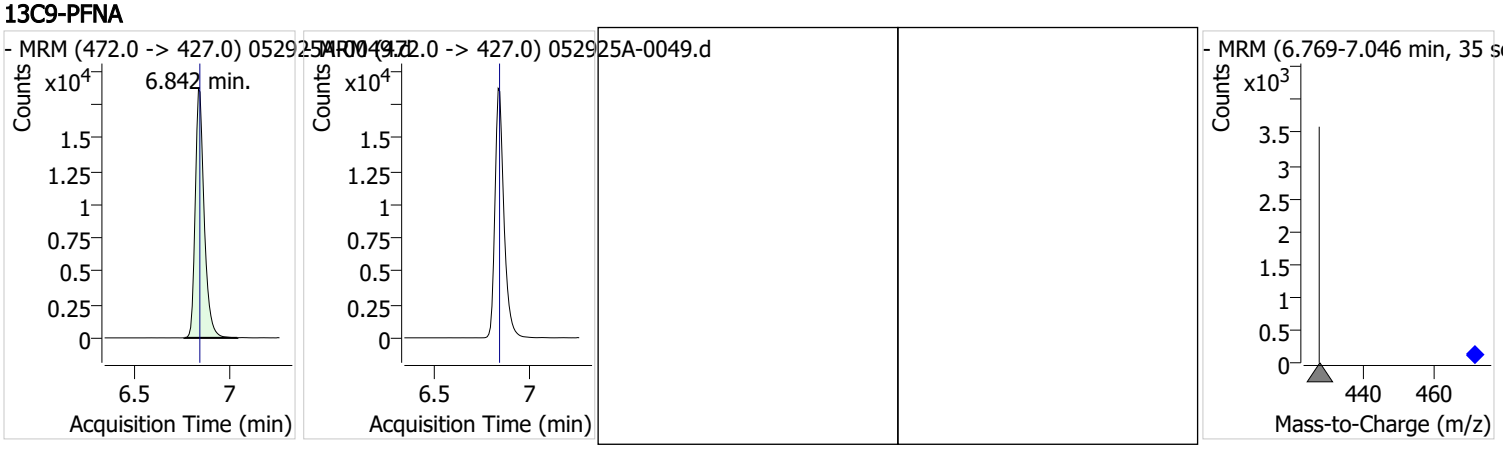
13C8-PFOS



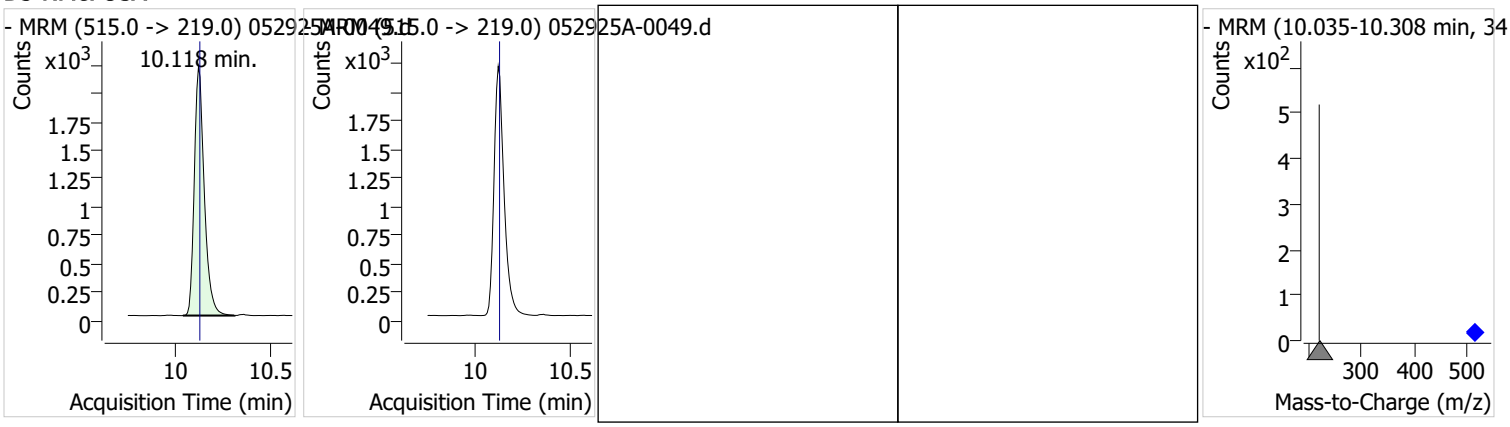
13C8-PFOSA



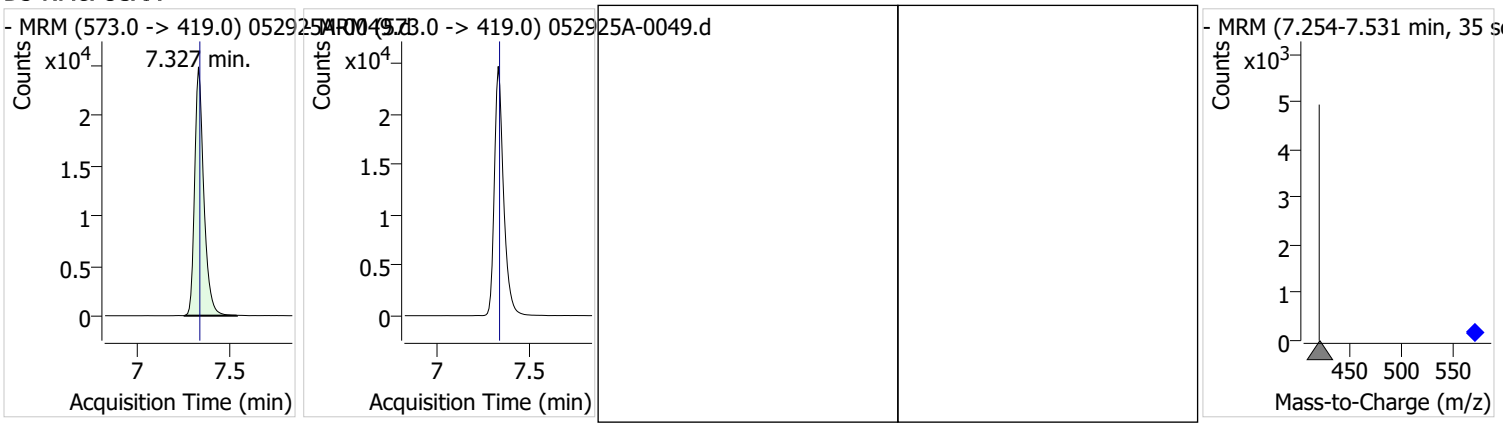
13C9-PFNA



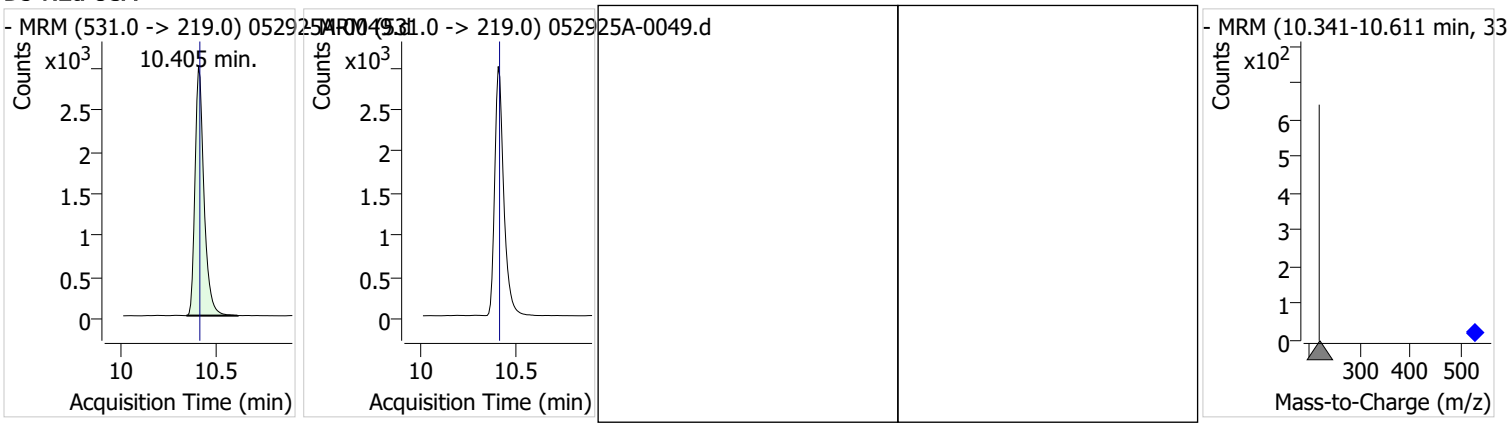
D3-NMeFOSA



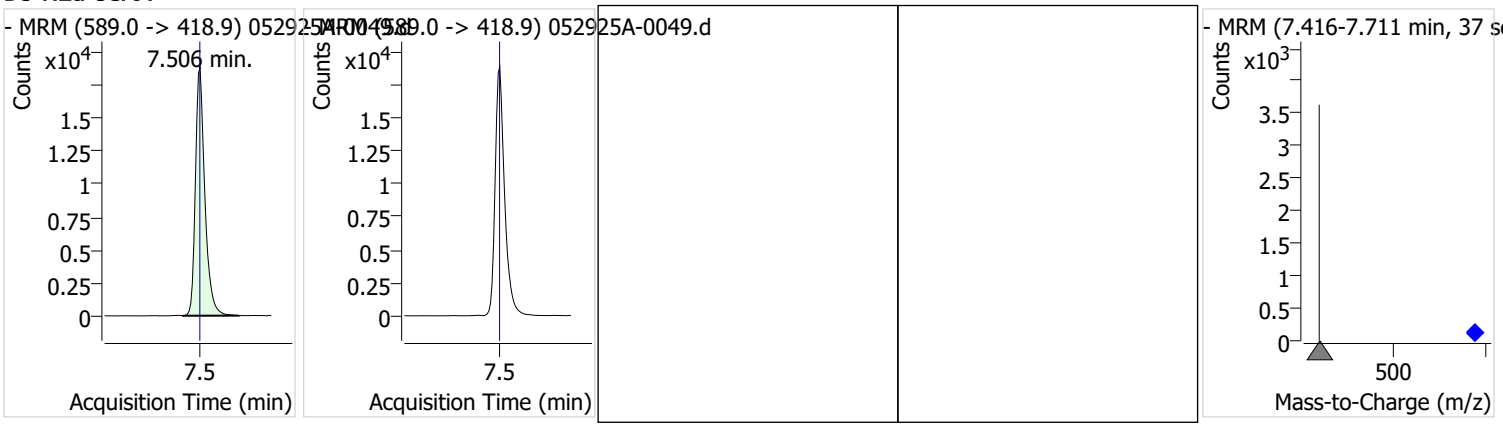
D3-NMeFOSAA



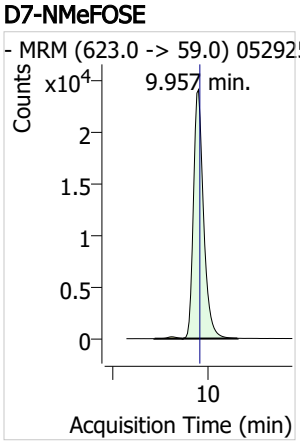
D5-NEtFOSA

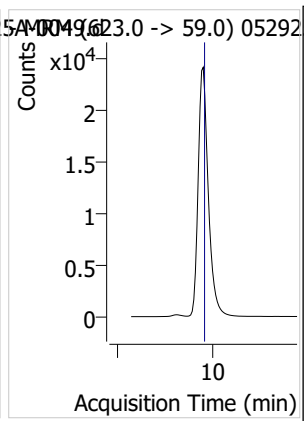


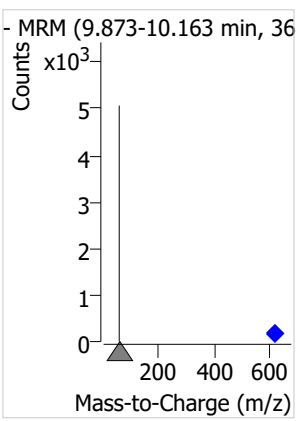
D5-NEtFOSAA



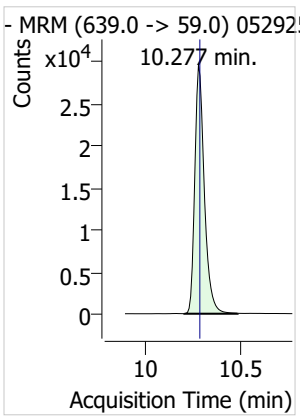
D7-NMeFOSE

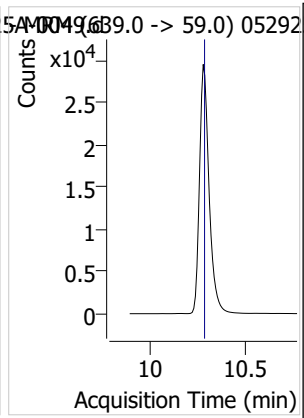


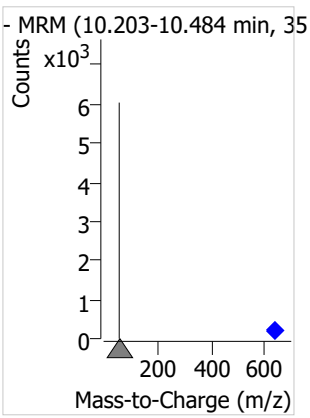




D9-NEtFOSE

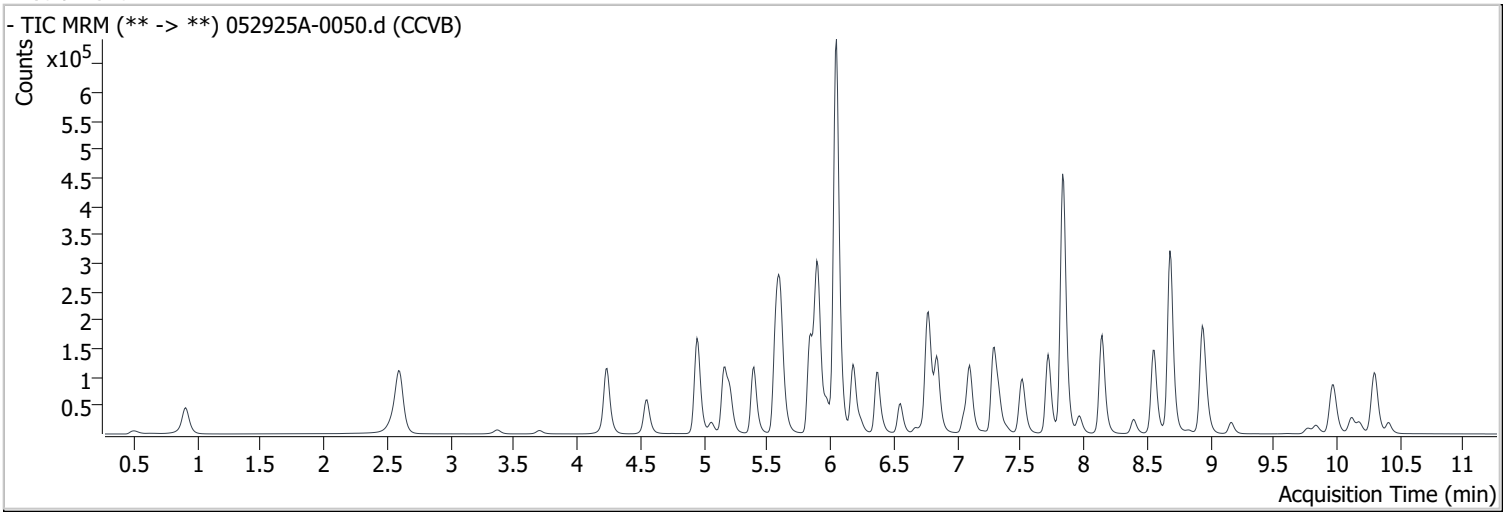






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 9:42 PM	**Data File**	052925A-0050.d
Sample Type	CC	**Sample Name**	CCVB
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510289	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.403	162505	10800.12		13C3-HFPODA_ISTD	5.402	83097	19.9220	ng/ml			
285.0 -> 184.9	5.403	97591	3507.81	60.1								
4:2FTS	4.947	353188	47988.86		13C2-4:2FTS_ISTD	4.946	28056	19.1266	ng/ml			
327.0 -> 80.9	4.947	129172	20405.79	36.6								
6:2FTS	6.180	210719	63023.89		13C2-6:2FTS_ISTD	6.180	19809	19.7496	ng/ml			
427.0 -> 80.9	6.181	90311	6644.04	42.9								
ADONA	6.052	1546381	42792.08		13C4-PFHpA_ISTD	5.839	144407	16.5153	ng/ml			
377.0 -> 85.1	6.052	610906	17029.20	39.5								
8:2FTS	7.100	205975	61002.97		13C2-8:2FTS_ISTD	7.100	19754	19.0227	ng/ml			
527.0 -> 81.0	7.101	93515	353916.58	45.4								
13C4-PFBA	2.597	180857	1440.41		13C3-PFBA_ISTD	2.592	78421	9.4756	ng/ml			
9Cl-PF3ONS	7.838	1197757	41405.88		13C8-PFOS_ISTD	7.528	27198	19.4766	ng/ml			
533.0 -> 353.0	7.838	333802	8160.16	27.9								
11Cl-PF3OUdS	8.685	861665	81765.52		13C8-PFOS_ISTD	7.528	27198	20.0124	ng/ml			
633.0 -> 453.0	8.684	220194	114798.16	25.6								
PFHpS	7.064	70875	21550.39		13C8-PFOS_ISTD	7.528	27198	4.6957	ng/ml			
449.0 -> 98.8	7.064	30757	88882.95	43.4								
13C2-4:2FTS	4.946	28056	47267.63		18O2-PFHxS_ISTD	6.559	30513	5.3398	ng/ml			
13C2-6:2FTS	6.180	19809	5986.38		18O2-PFHxS_ISTD	6.559	30513	5.0040	ng/ml			
13C2-8:2FTS	7.100	19754	5865.89		18O2-PFHxS_ISTD	6.559	30513	4.9714	ng/ml			
13C2-PFDoA	8.146	96570	126305.25		13C2-PFDA_ISTD	7.290	59677	1.2952	ng/ml			
13C2-PFDA	7.290	59677	11087.69					1.2275	ng/ml			
13C2-PFHxA	5.162	78989	20289.72					2.5627	ng/ml			
13C2-PFTeDA	8.936	103978	4466.26		13C2-PFDA_ISTD	7.290	59677	1.2411	ng/ml			
13C4-PFOS	7.529	29682	8778.51					2.6927	ng/ml			
13C3-HFPODA	5.402	83097	301843.58		13C2-PFHxA_ISTD	5.162	78989	9.8462	ng/ml			
13C3-PFBS	5.213	47821	149898.62		18O2-PFHxS_ISTD	6.559	30513	2.2956	ng/ml			
13C3-PFHxS	6.560	32808	376881.71		18O2-PFHxS_ISTD	6.559	30513	2.3258	ng/ml			
NEtFOSAA	7.434	67540	3452.47		D5-NEtFOSAA_ISTD	7.498	73766	4.7031	ng/ml			
584.0 -> 526.0	7.433	60157	2717.76	89.1								

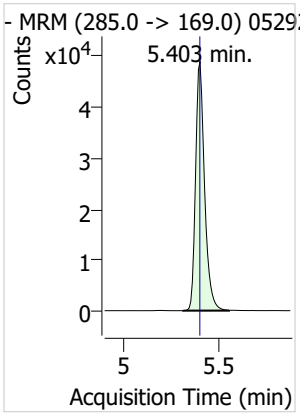
Quantitative Analysis Sample Report

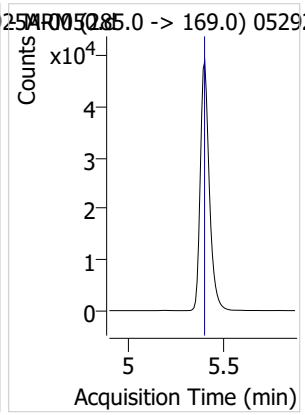
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	144407	29615.74		13C2-PFHxA_ISTD	5.162	78989	2.5744	ng/ml			
NMeFOSAA	7.247	32261	5203.02		D3-NMeFOSAA_ISTD	7.327	94670	4.5845	ng/ml			
570.0 -> 483.0	7.246	39674	2352.39	123.0								
PFBA	2.594	365894	8409.81		13C4-PFBA_ISTD	2.597	180857	20.3017	ng/ml			
13C5-PFHxA	5.161	87715	64478.87		13C2-PFHxA_ISTD	5.162	78989	2.5015	ng/ml			
PFBS	5.213	113963	219937.69		13C3-PFBS_ISTD	5.213	47821	4.5185	ng/ml			
298.9 -> 98.8	5.213	39435	2078.07	34.6								
NMeFOSA	10.073	27526	2745.95		D3-NMeFOSA_ISTD	10.118	11670	4.9552	ng/ml			
512.0 -> 169.0	10.074	37342	3606.38	135.7								
PFDA	7.290	293293	5399.24		13C6-PFDA_ISTD	7.289	69869	5.1300	ng/ml			
513.0 -> 219.0	7.290	55097	16764.80	18.8								
PFDoA	8.146	439986	6365.32		13C2-PFDoA_ISTD	8.146	96570	5.0585	ng/ml			
613.0 -> 319.0	8.147	49670	97993.30	11.3								
NEtFOSA	10.377	33990	2484.89		D5-NEtFOSA_ISTD	10.405	14808	4.6921	ng/ml			
526.0 -> 169.0	10.377	45557	1858.09	134.0								
PFHpA	5.839	315395	5636.67		13C4-PFHpA_ISTD	5.839	144407	4.8685	ng/ml			
362.9 -> 169.0	5.839	53825	16862.88	17.1								
PFHxA	5.163	195786	10019.31		13C5-PFHxA_ISTD	5.161	87715	4.7844	ng/ml			
313.0 -> 118.9	5.163	5994	734.14	3.1								
NMeFOSE	9.899	295757	3095.41		D7-NMeFOSE_ISTD	9.957	123290	48.7323	ng/ml			
PFHxS	6.498	73504	8115.95		13C3-PFHxS_ISTD	6.560	32808	4.4343	ng/ml			
398.9 -> 99.0	6.498	33711	4017.48	45.9								
PFNA	6.789	222666	3086.48		13C9-PFNA_ISTD	6.842	64794	4.9108	ng/ml			
463.0 -> 219.0	6.789	67881	1979.97	30.5								
NEtFOSE	10.249	367143	2607.44		D9-NEtFOSE_ISTD	10.277	140931	48.0829	ng/ml			
PFOA	6.300	223114	2748.22		13C8-PFOA_ISTD	6.368	95249	4.9589	ng/ml			
413.0 -> 169.0	6.300	65294	4778.24	29.3								
PFOS	7.399	68649	7538.59		13C8-PFOS_ISTD	7.528	27198	4.2697	ng/ml			
499.0 -> 99.0	7.402	33131	6619.40	48.3								
PFPeA	4.239	302338	12550.37		13C5-PFPeA_ISTD	4.237	134821	9.9607	ng/ml			
PFMPA	3.377	31495	1048.93		13C4-PFBA_ISTD	2.597	180857	10.0669	ng/ml			
13C5-PFPeA	4.237	134821	11804.04		13C2-PFHxA_ISTD	5.162	78989	4.8194	ng/ml			
PFMBA	4.556	221482	80765.83		13C5-PFPeA_ISTD	4.237	134821	9.8910	ng/ml			
PFTrDA	8.559	467075	12830.33		13C2-PFDoA_ISTD	8.146	96570	4.5986	ng/ml			
663.0 -> 168.9	8.551	42459	12125.01	9.1								
PFEESA	5.578	611923	48232.46		13C5-PFHxA_ISTD	5.161	87715	8.7272	ng/ml			
315.0 -> 83.0	5.571	43750	22494.07	7.1								
13C6-PFDA	7.289	69869	11749.24		13C2-PFDA_ISTD	7.290	59677	1.2434	ng/ml			
NFDHA	5.066	44907	1448172.13		13C5-PFHxA_ISTD	5.161	87715	9.4641	ng/ml			
295.0 -> 85.0	5.067	15811	4655.78	35.2								
PFOSA	8.899	86145	2776.14		13C8-PFOSA_ISTD	8.975	40752	4.8058	ng/ml			
497.9 -> 478.0	8.902	2703	701.15	3.1								
13C7-PFUnA	7.721	78796	23716.32		13C2-PFDA_ISTD	7.290	59677	1.2555	ng/ml			
13C4-PFOA	6.369	21509	6700.60					2.6014	ng/ml			
PFDS	8.398	55387	5554.37		13C8-PFOS_ISTD	7.528	27198	4.8428	ng/ml			
599.0 -> 98.8	8.397	28078	46909.54	50.7								
PFNS	7.969	67841	3377.45		13C8-PFOS_ISTD	7.528	27198	4.8251	ng/ml			
549.0 -> 98.8	7.968	30088	8975.76	44.4								
PFPeS	5.980	96436	7433.14		13C3-PFHxS_ISTD	6.560	32808	4.6869	ng/ml			
349.0 -> 98.9	5.979	42447	22025.97	44.0								
PFTeDA	8.937	476938	8684.41		13C2-PFTeDA_ISTD	8.936	103978	4.9695	ng/ml			

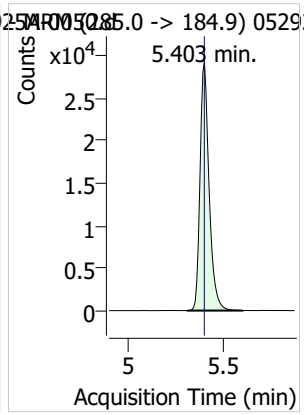
Quantitative Analysis Sample Report

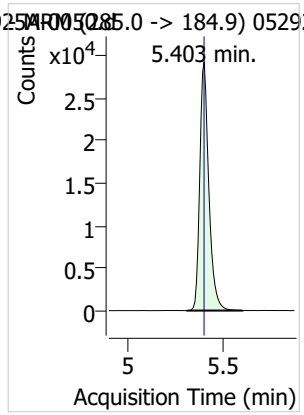
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.938	26817	7892.38	5.6								
PFUnA	7.722	323034	8617.92		13C7-PFUnA_ISTD	7.721	78796	4.9091	ng/ml			
563.0 -> 269.1	7.722	57096	176530.54	17.7								
13C3-PFBA	2.592	78421	13941.64					5.1639	ng/ml			
3:3FTCA	3.704	16083	1951.28		13C5-PFPeA_ISTD	4.237	134821	21.0667	ng/ml			
241.0 -> 117.0	3.706	9101	602.63	56.6								
5:3FTCA	5.610	366503	98597.25		13C5-PFHxA_ISTD	5.161	87715	111.9535	ng/ml			
341.0 -> 217.0	5.611	331672	31223.58	90.5								
7:3FTCA	6.778	406346	101087.10		13C9-PFNA_ISTD	6.842	64794	117.2269	ng/ml			
441.0 -> 337.0	6.778	438466	342900.10	107.9								
13C5-PFNA	6.842	61883	18801.72					1.3085	ng/ml			
18O2-PFHxS	6.559	30513	4050.75					2.6862	ng/ml			
PFDoS	9.171	42745	3569.15		13C8-PFOS_ISTD	7.528	27198	5.5596	ng/ml			
698.9 -> 99.0	9.170	23329	37103.19	54.6								
TDCA	6.031	62255	9457.31		13C8-PFOS_ISTD	7.528	27198	14.3618	ng/ml			
499.0 -> 124.0	6.031	109299	13218.49	175.6								
PFPrA	0.912	135866	13138.25		13C3-PFPrA_ISTD	0.907	78444	19.7113	ng/ml			
13C3-PFPrA	0.907	78444	17003.34		13C3-PFBA_ISTD	2.592	78421	9.2466	ng/ml			
TFSI	5.900	652802	58317.38		13C3-HFPODA_ISTD	5.402	83097	9.9567	ng/ml			
279.9 -> 77.9	5.900	448244	1711223.94	68.7								
13C8-PFOA	6.368	95249	341250.07		13C4-PFOA_ISTD	6.369	21509	2.3636	ng/ml			
13C8-PFOS	7.528	27198	486552.30		13C4-PFOS_ISTD	7.529	29682	2.3429	ng/ml			
13C8-PFOSA	8.975	40752	11390.90		13C4-PFOS_ISTD	7.529	29682	2.4414	ng/ml			
13C9-PFNA	6.842	64794	19887.87		13C5-PFNA_ISTD	6.842	61883	1.1850	ng/ml			
D3-NMeFOSA	10.118	11670	3060.11		13C4-PFOS_ISTD	7.529	29682	2.1944	ng/ml			
D3-NMeFOSAA	7.327	94670	27894.34		13C4-PFOS_ISTD	7.529	29682	5.1278	ng/ml			
D5-NEtFOSA	10.405	14808	4568.68		13C4-PFOS_ISTD	7.529	29682	2.3163	ng/ml			
D5-NEtFOSAA	7.498	73766	20814.48		13C4-PFOS_ISTD	7.529	29682	5.2611	ng/ml			
D7-NMeFOSE	9.957	123290	14263.43		13C4-PFOS_ISTD	7.529	29682	24.1478	ng/ml			
D9-NEtFOSE	10.277	140931	4095.78		13C4-PFOS_ISTD	7.529	29682	24.8580	ng/ml			

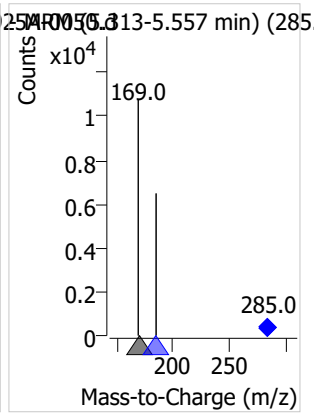
HFPO-DA



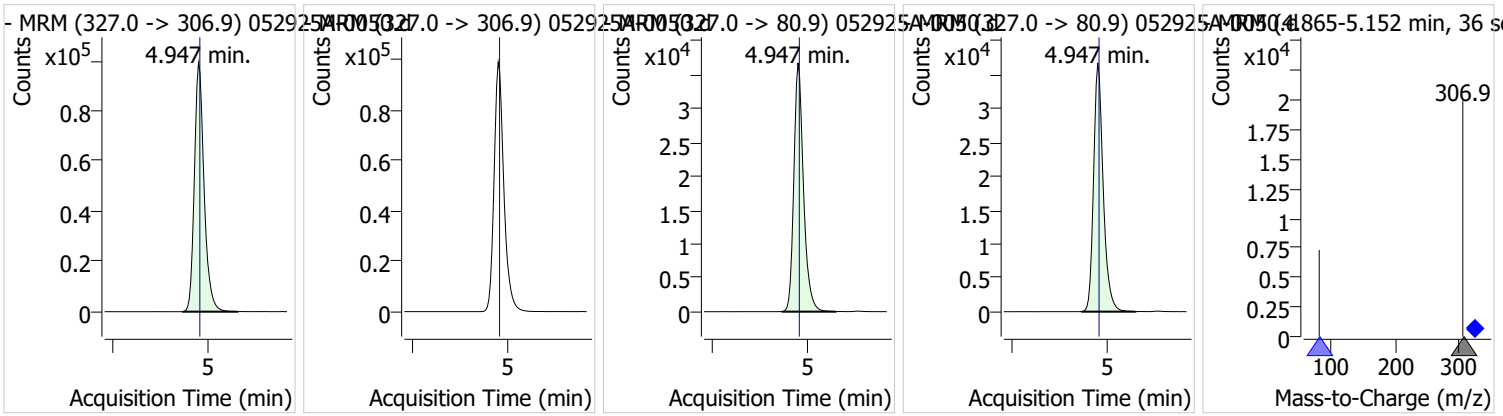




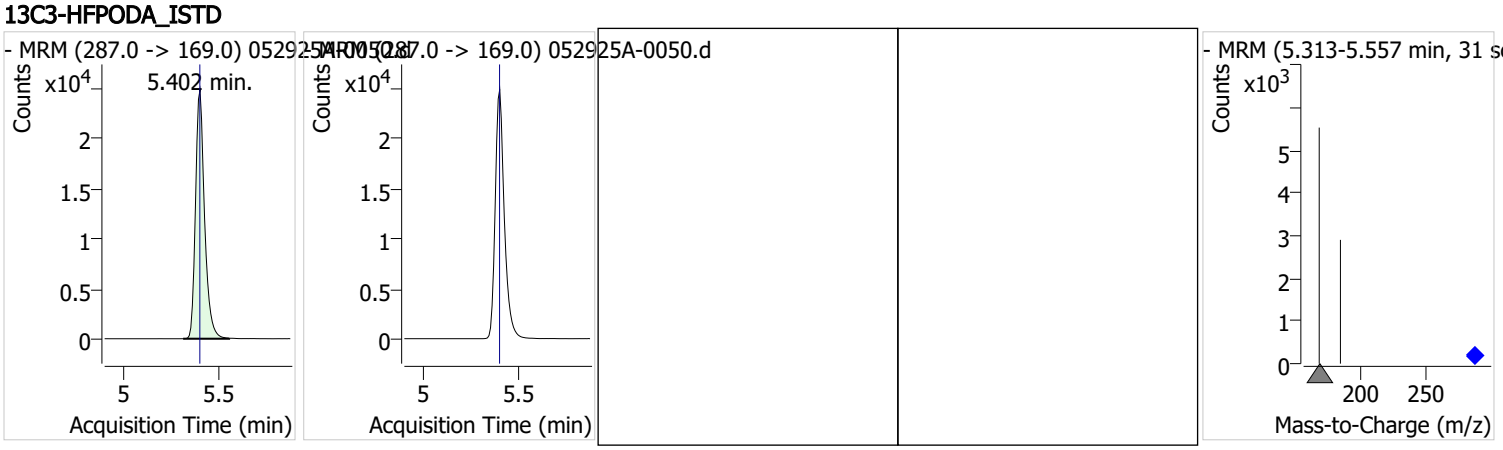




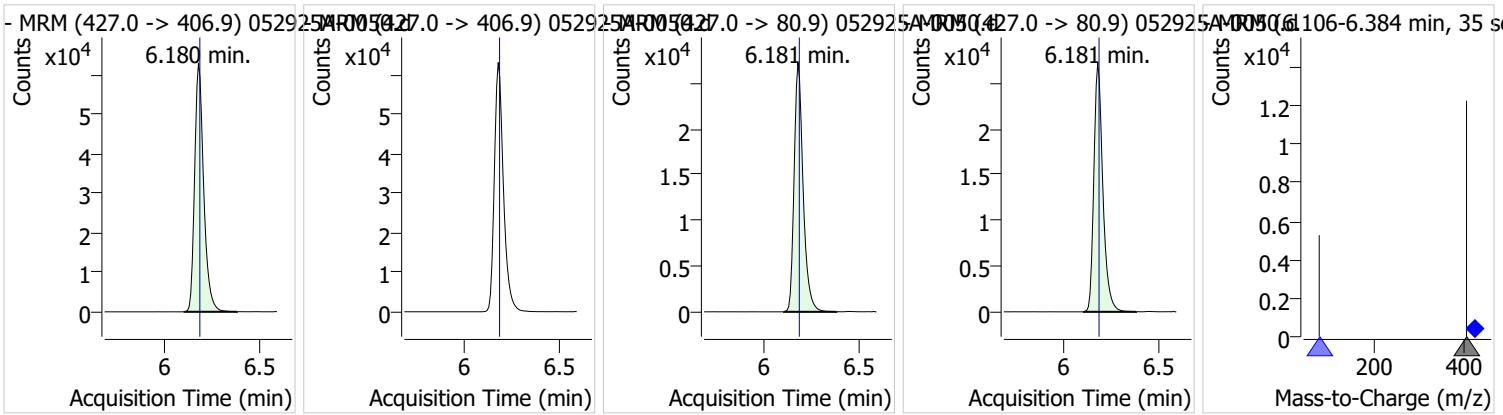
4:2FTS



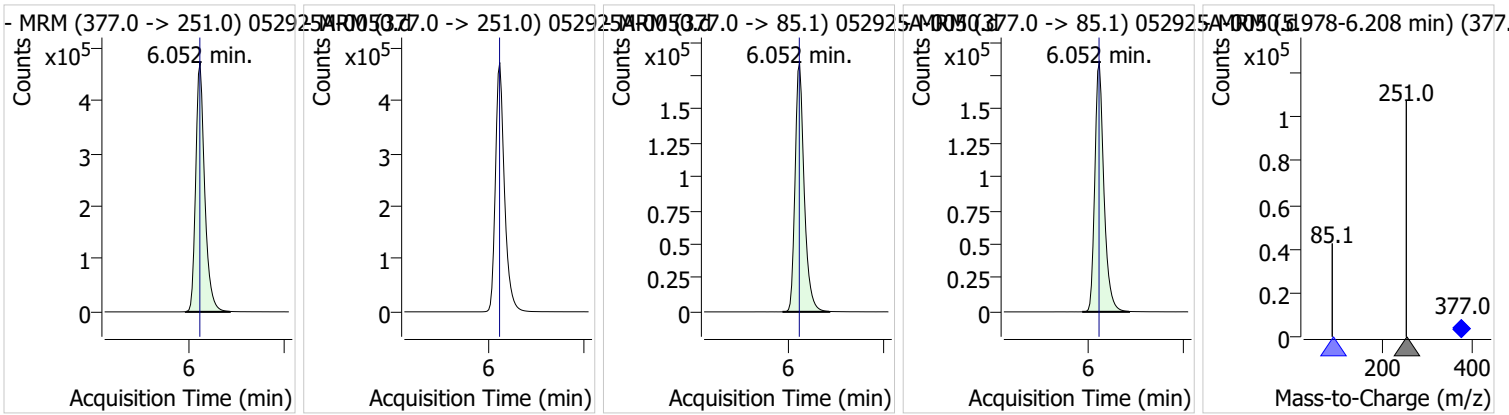
13C3-HFPODA_ISTD



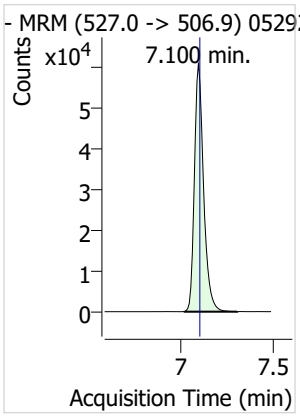
6:2FTS

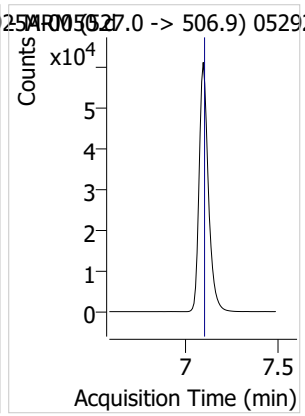


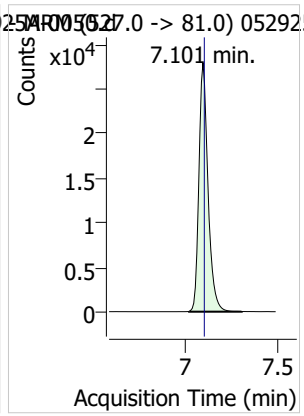
ADONA

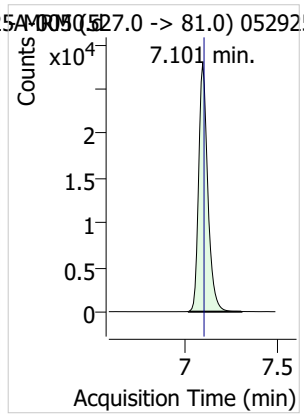


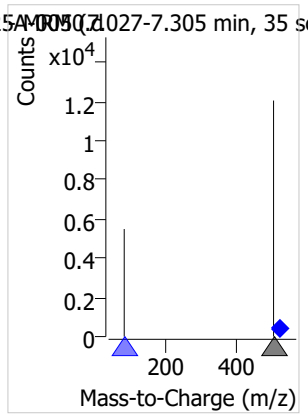
8:2FTS



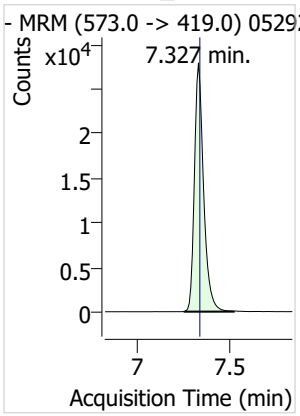


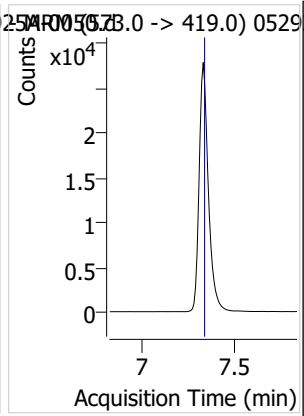


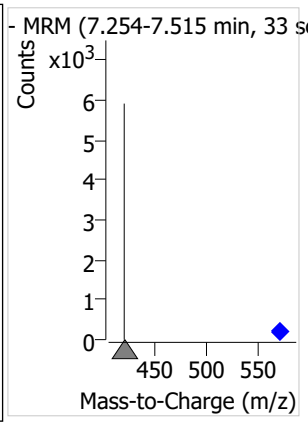




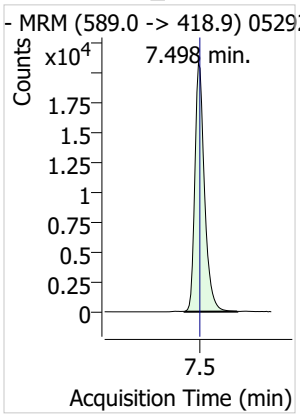
D3-NMeFOSAA_ISTD

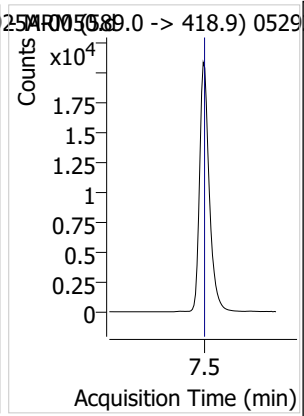


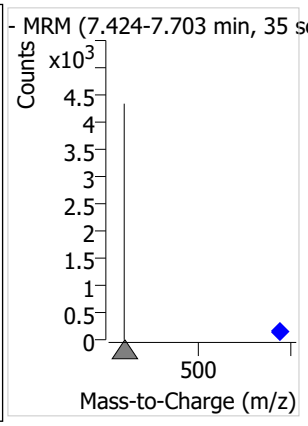




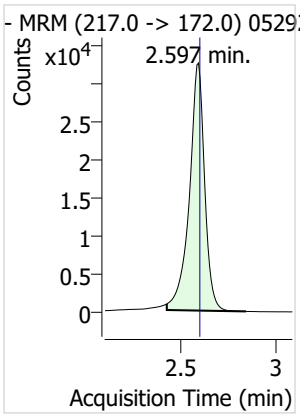
D5-NEtFOSAA_ISTD

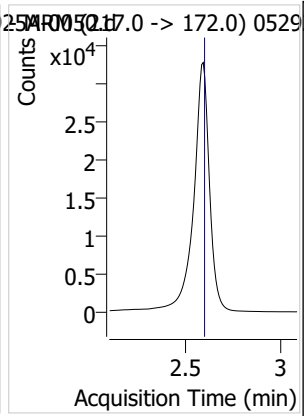


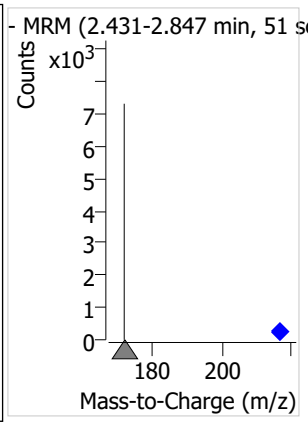




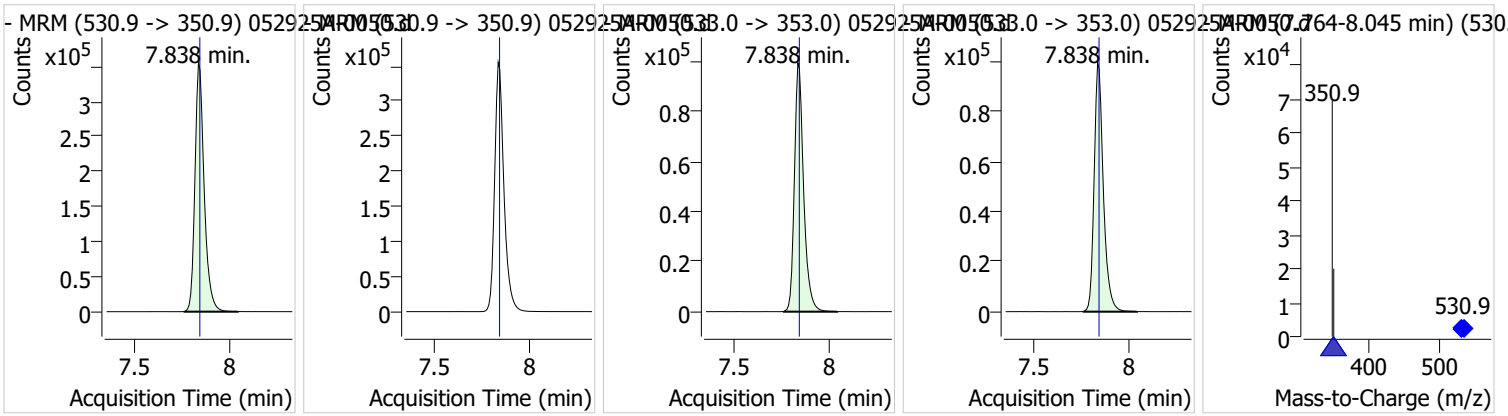
13C4-PFBA



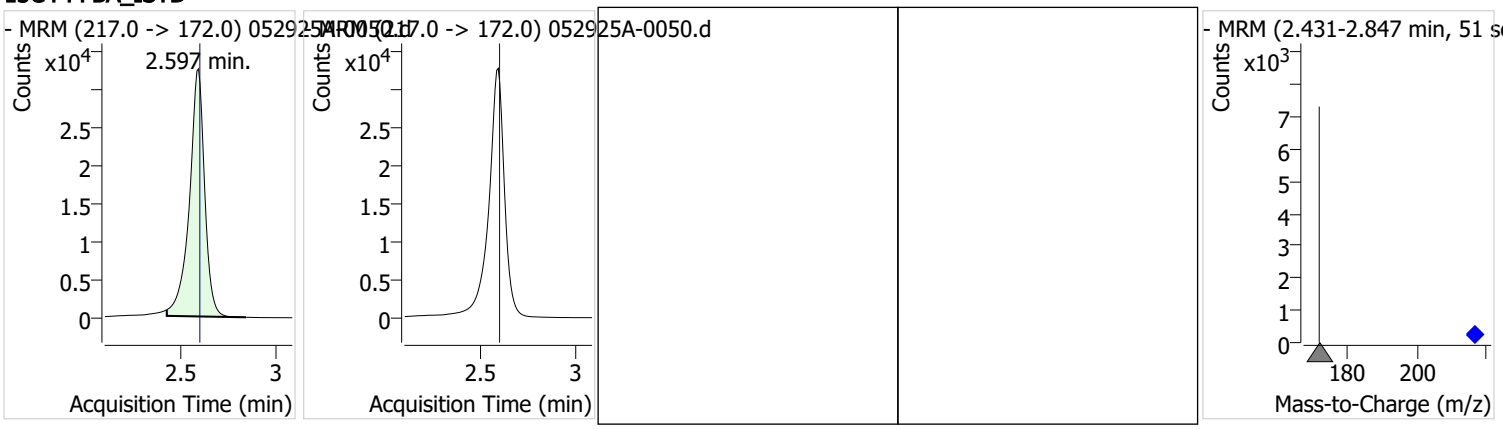




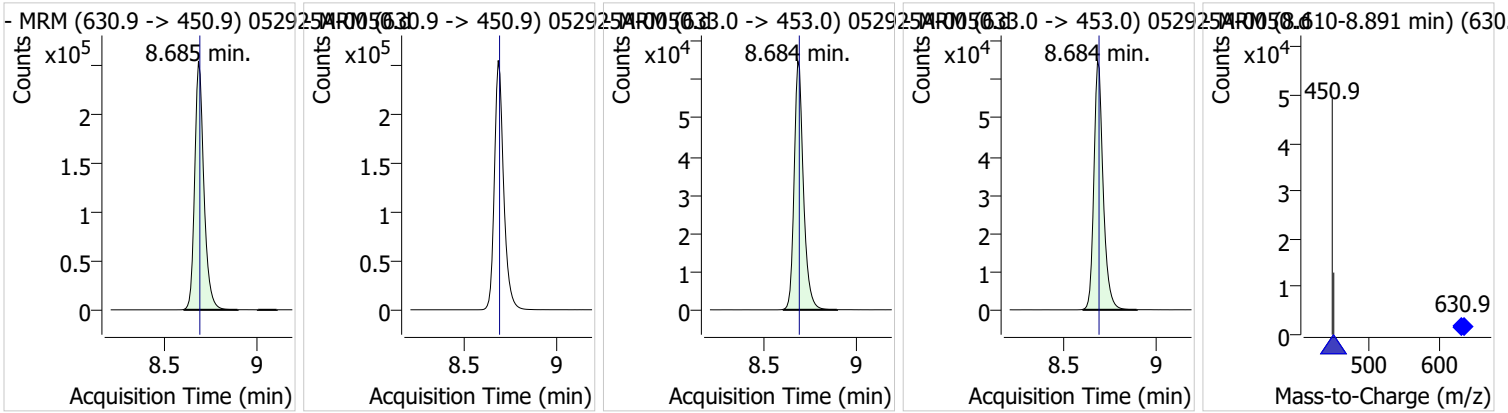
9Cl-PF3ONS



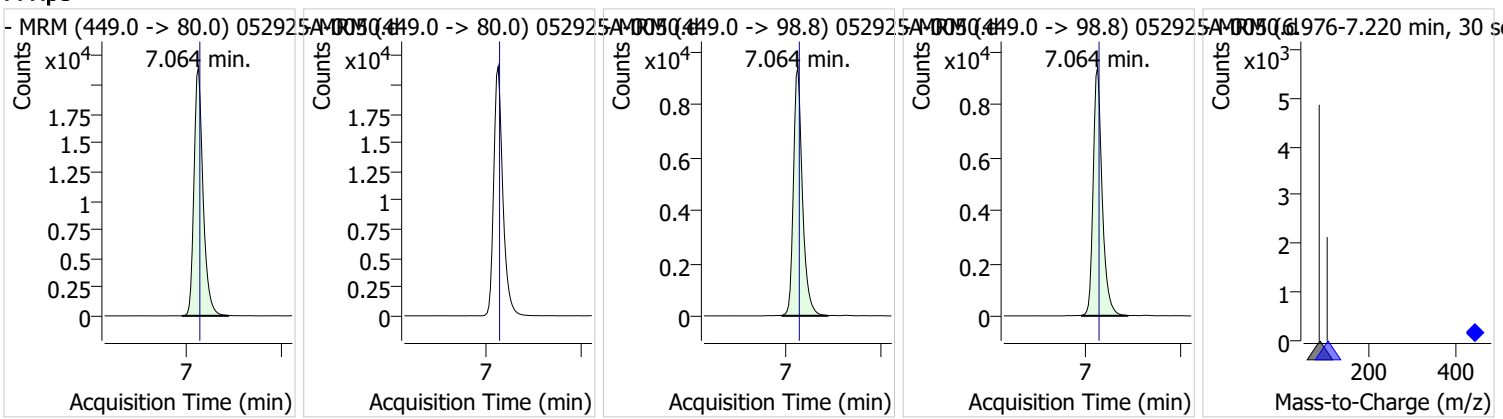
13C4-PFBA_ISTD



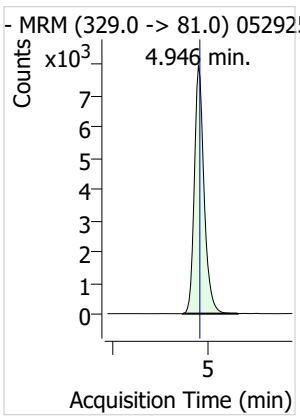
11Cl-PF3OUdS

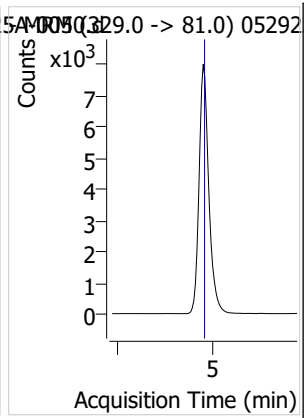


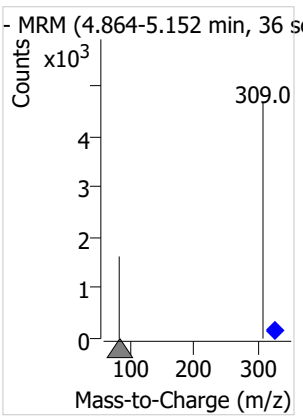
PFHpS



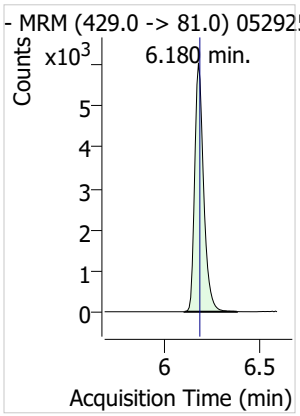
13C2-4:2FTS

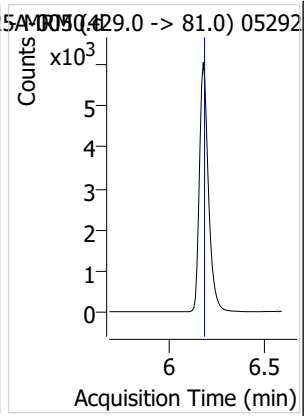


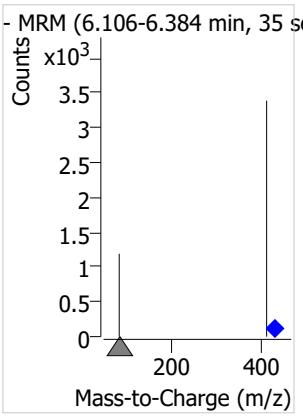




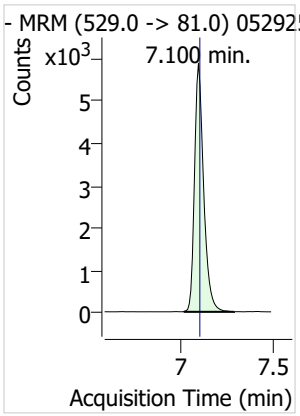
13C2-6:2FTS

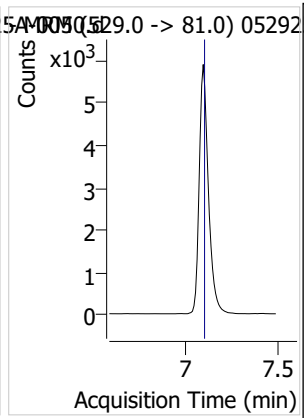


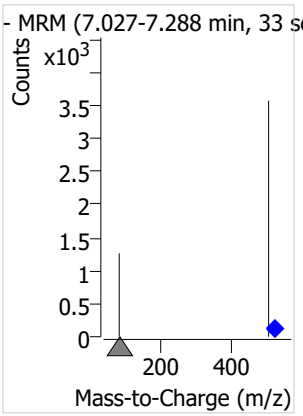




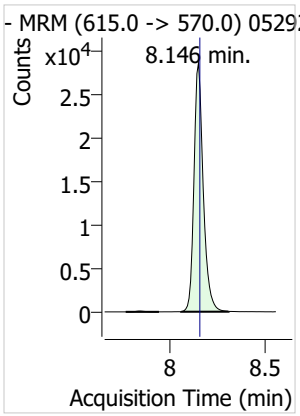
13C2-8:2FTS

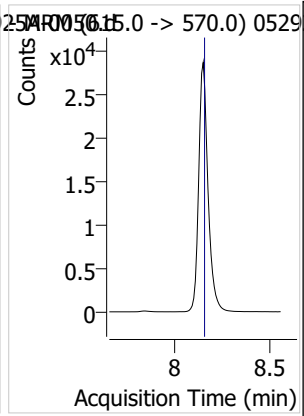


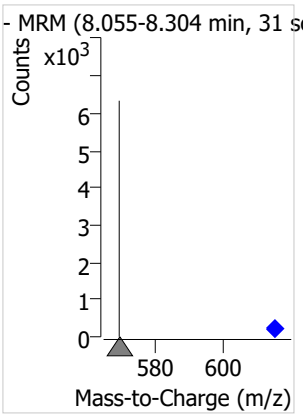




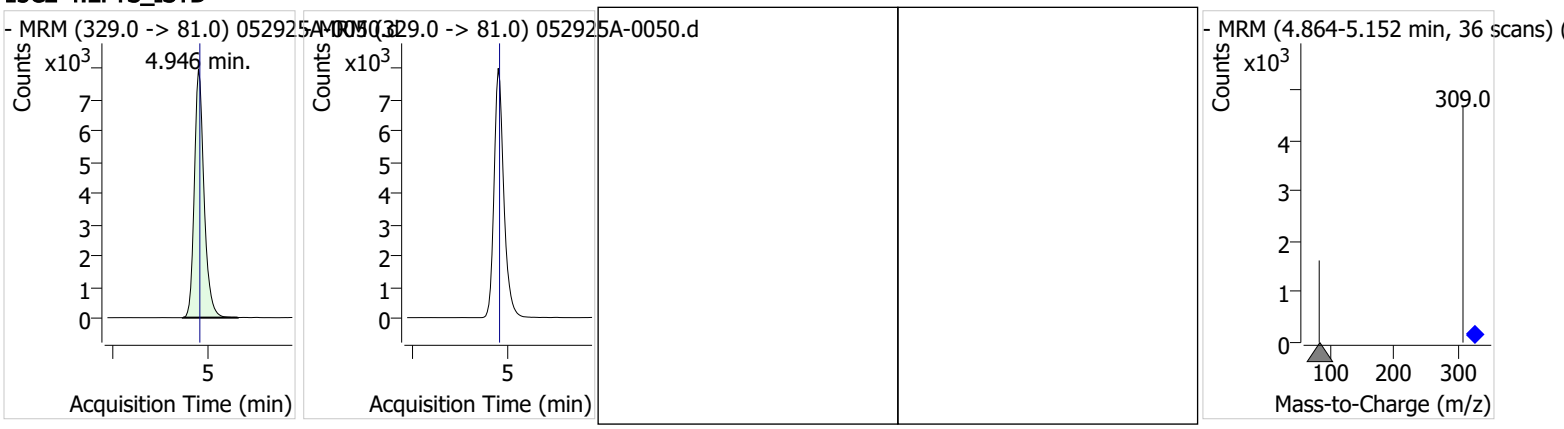
13C2-PFDoA



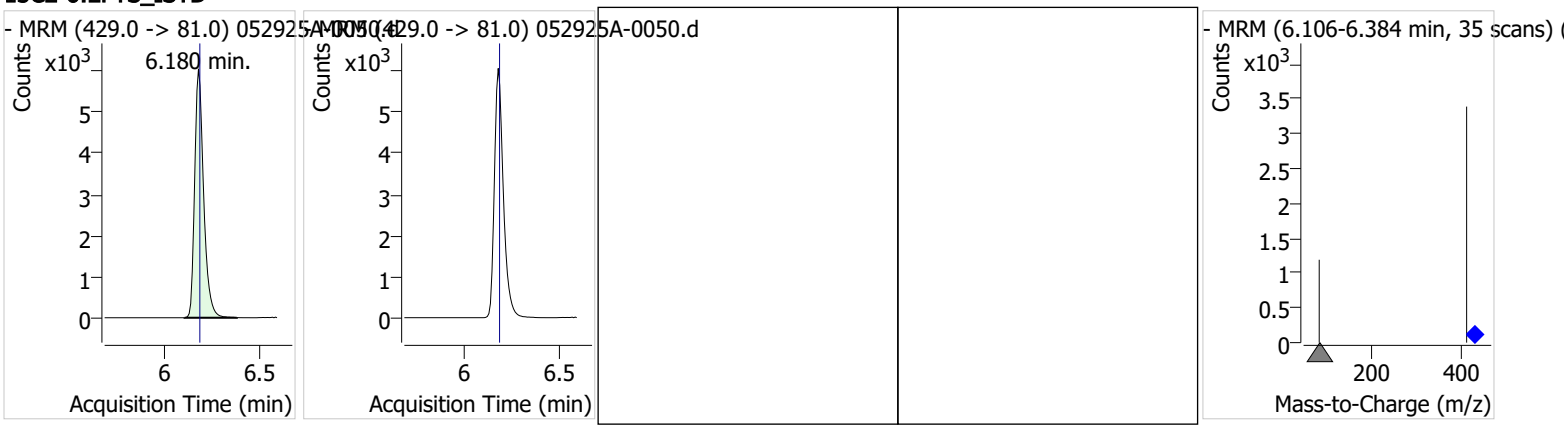




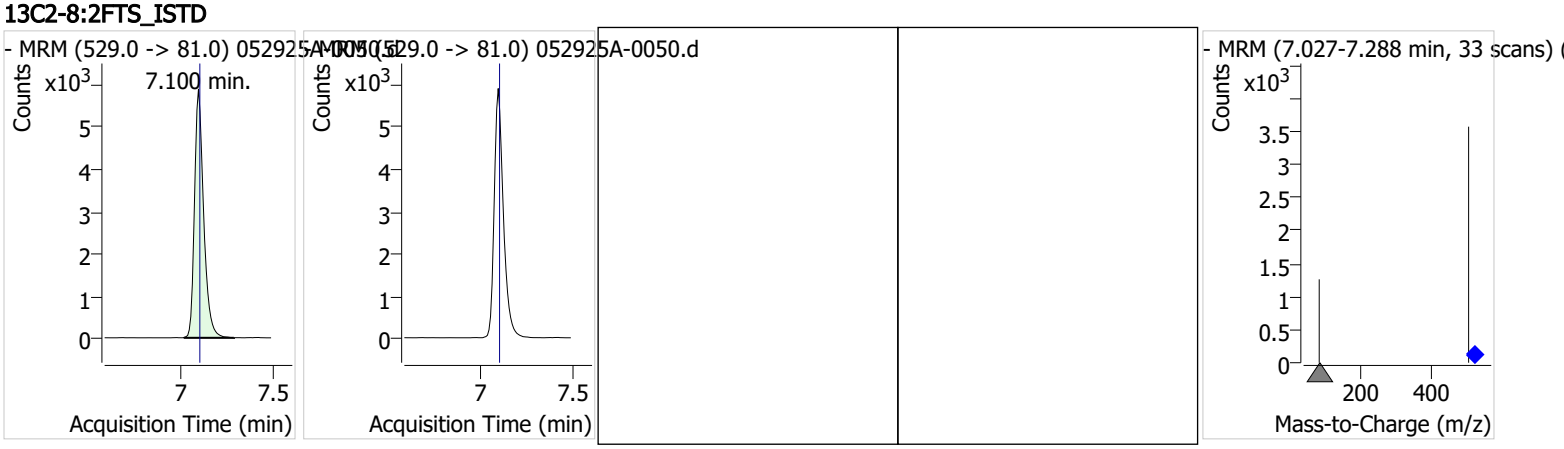
13C2-4:2FTS_ISTD



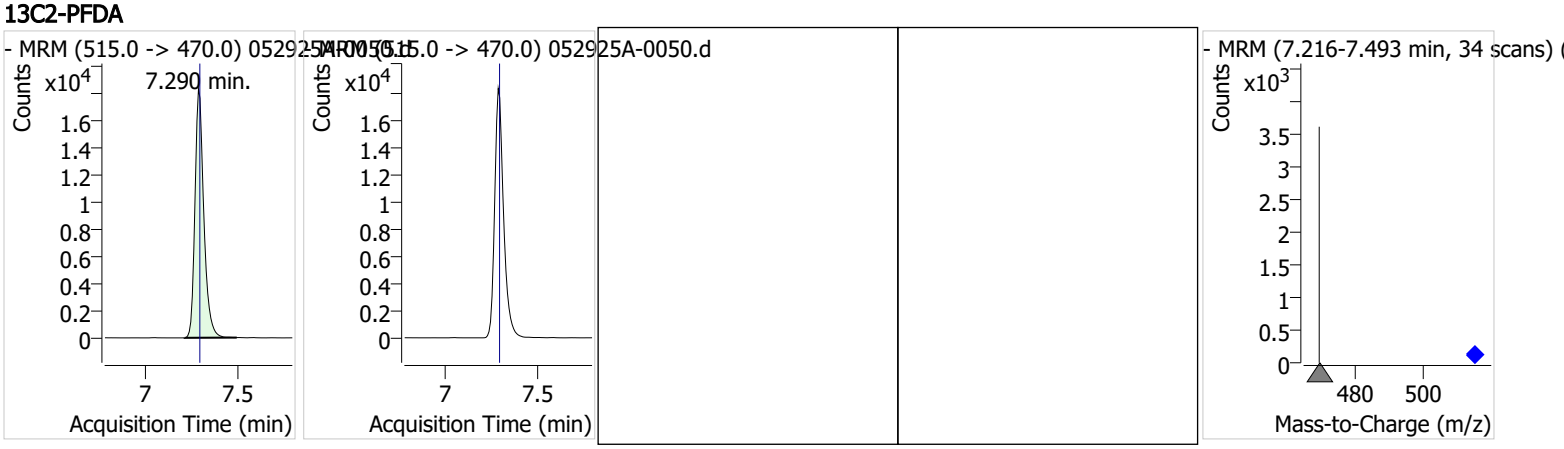
13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



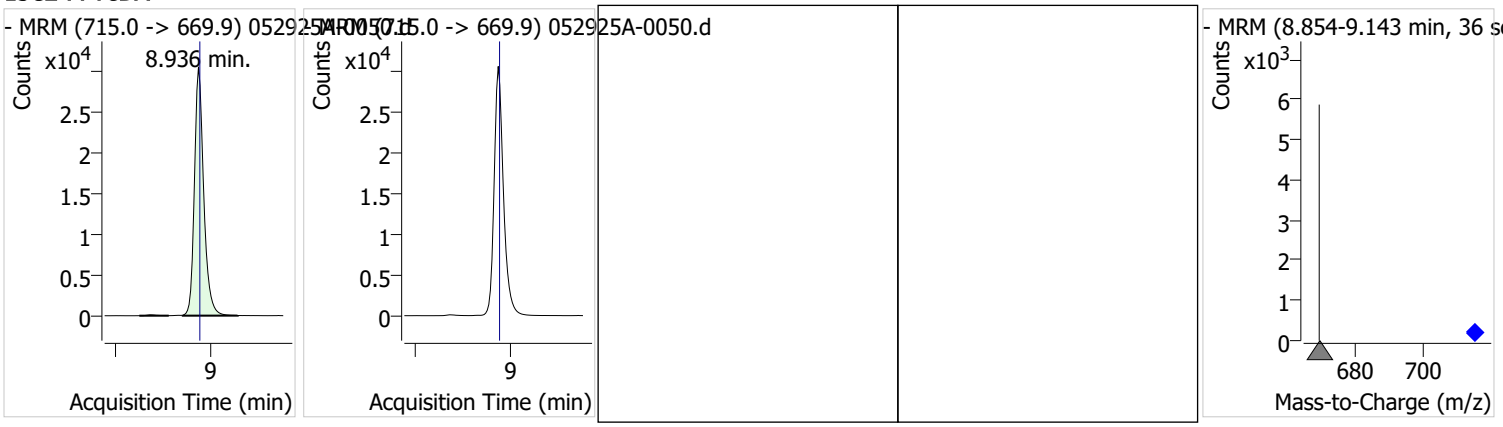
13C2-PFDA



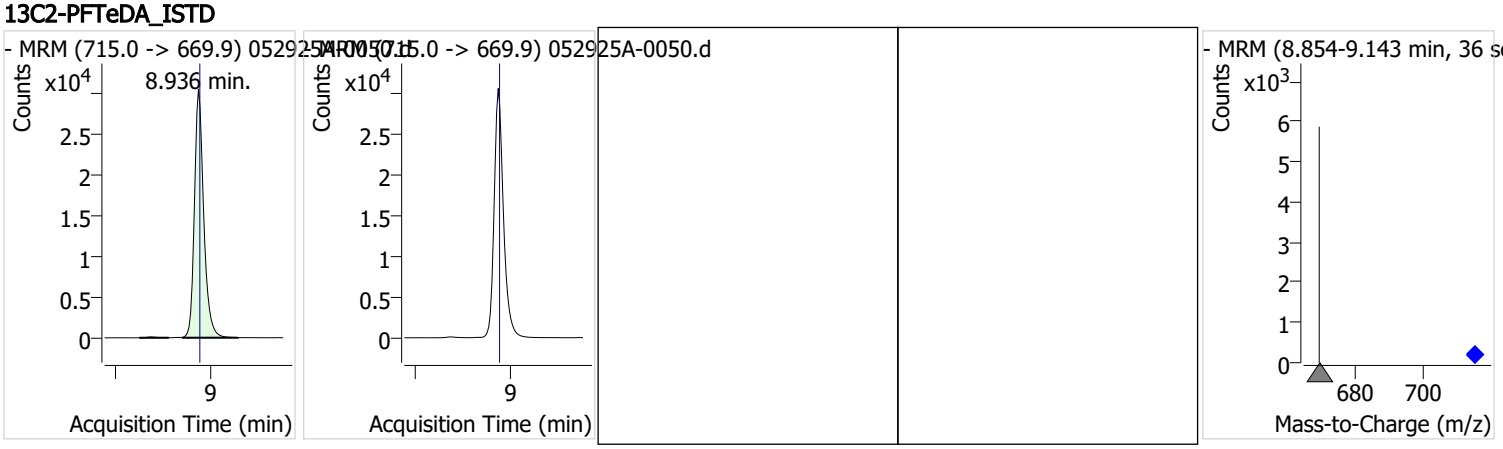
13C2-PFHxA



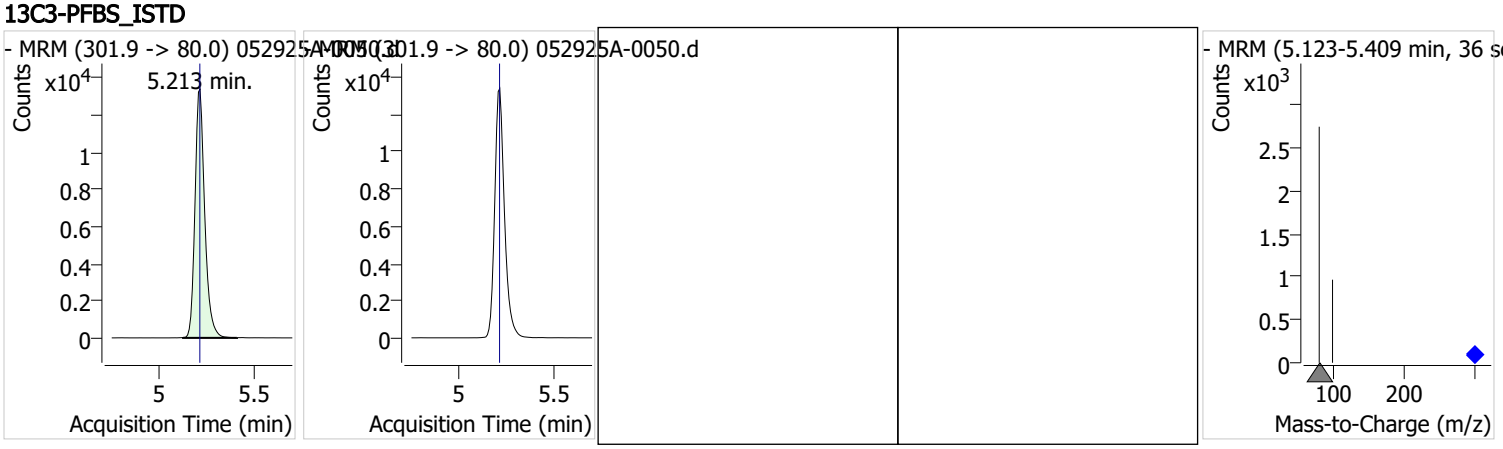
13C2-PFTeDA



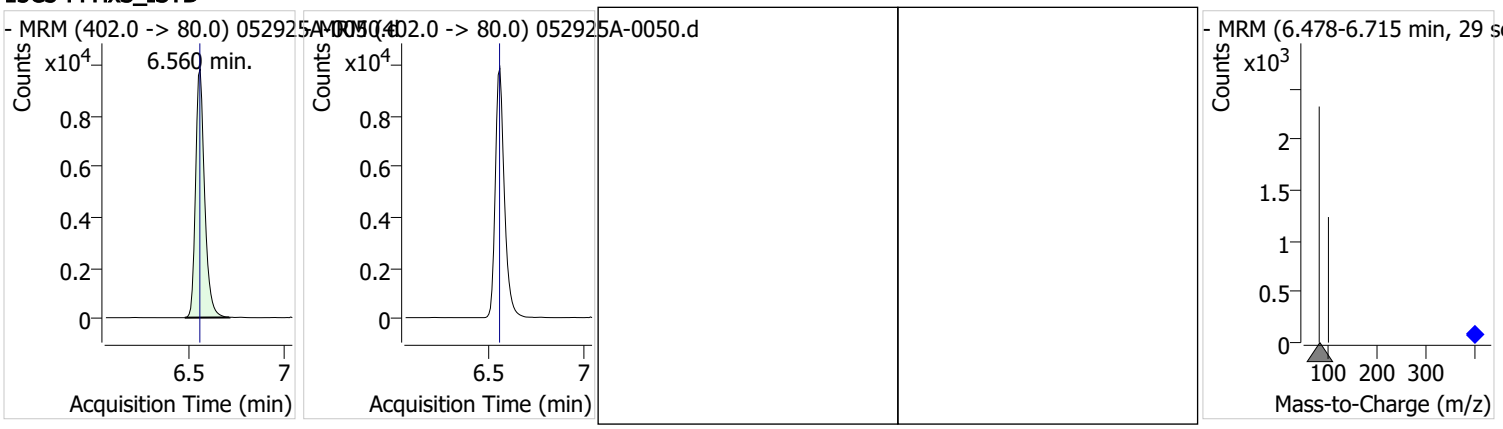
13C2-PFTeDA_ISTD



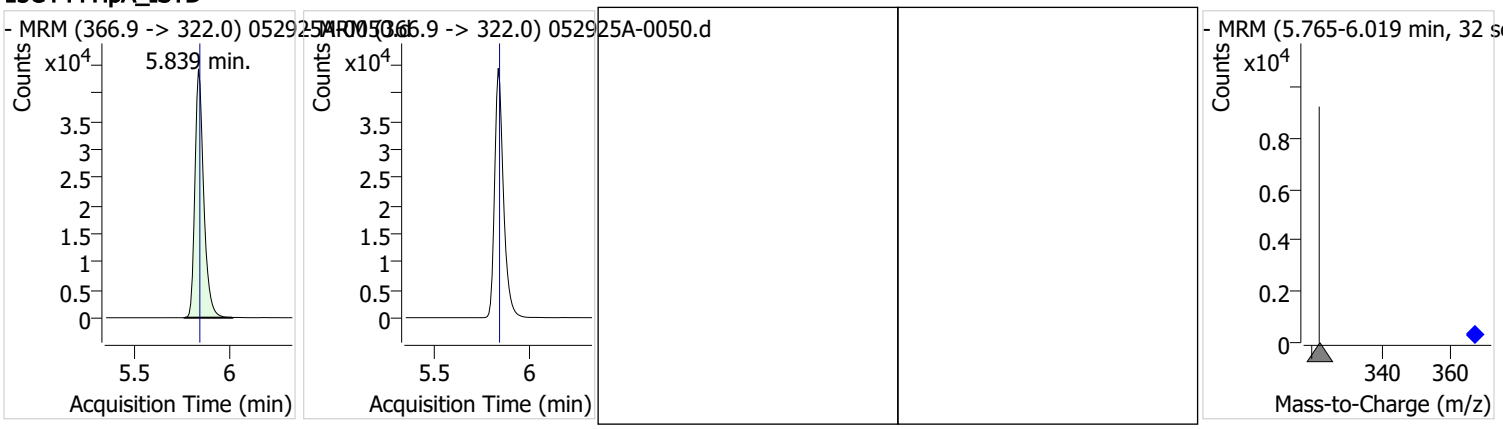
13C3-PFBS_ISTD



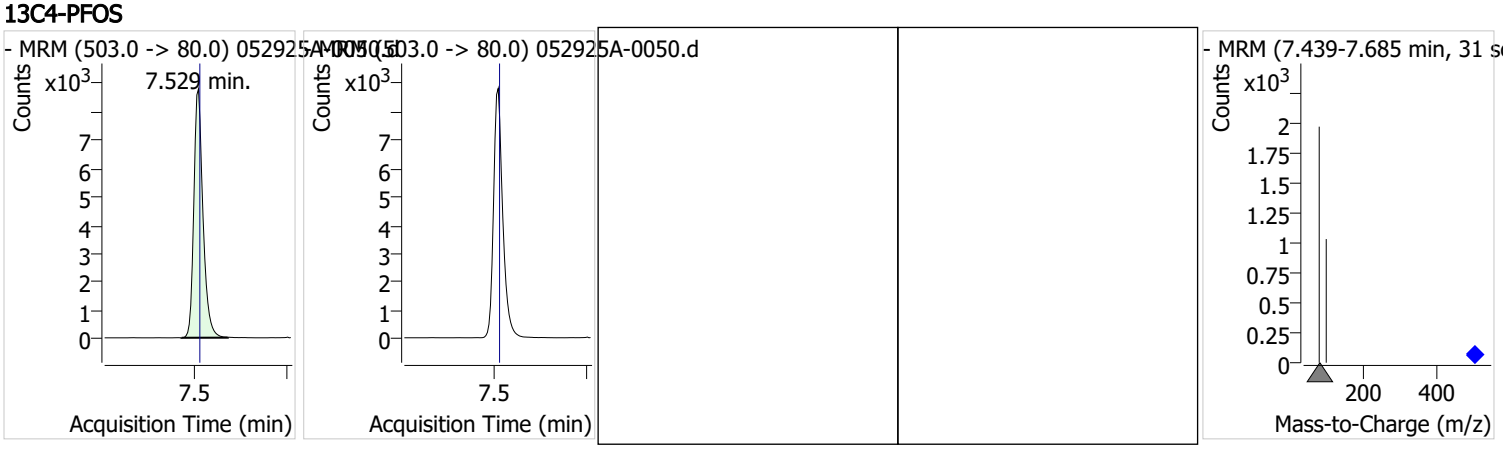
13C3-PFHxS_ISTD



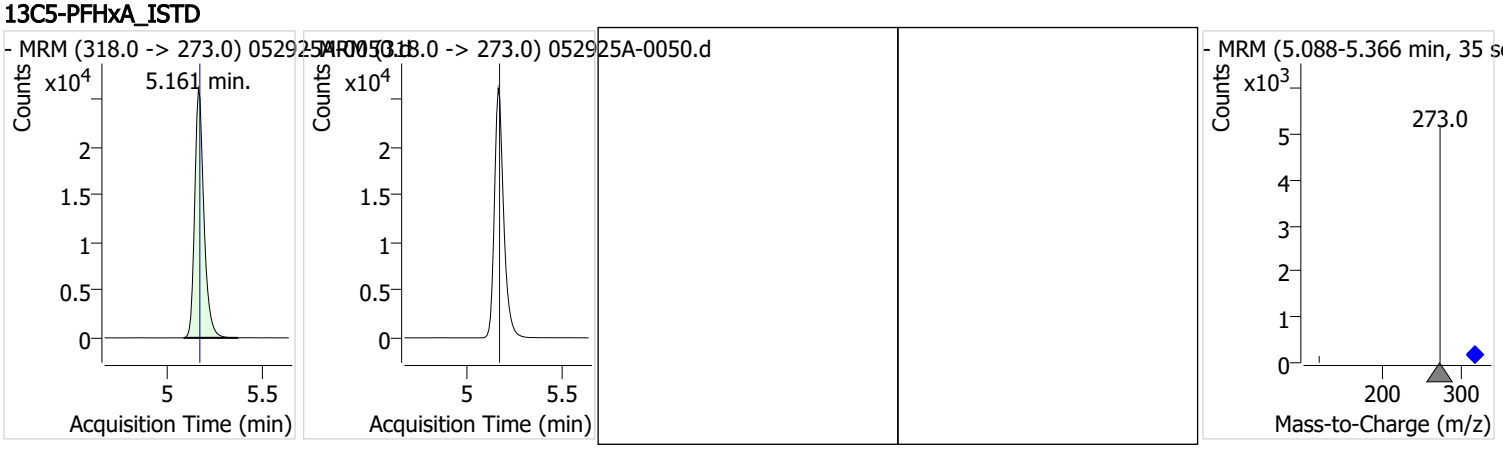
13C4-PFHpA_ISTD



13C4-PFOS



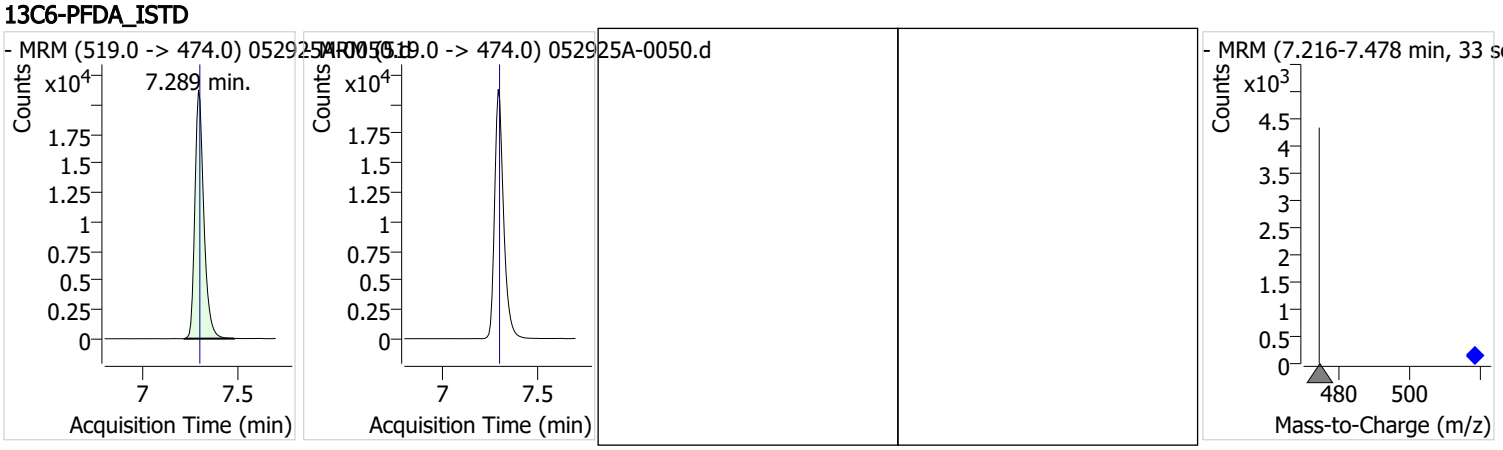
13C5-PFHxA_ISTD



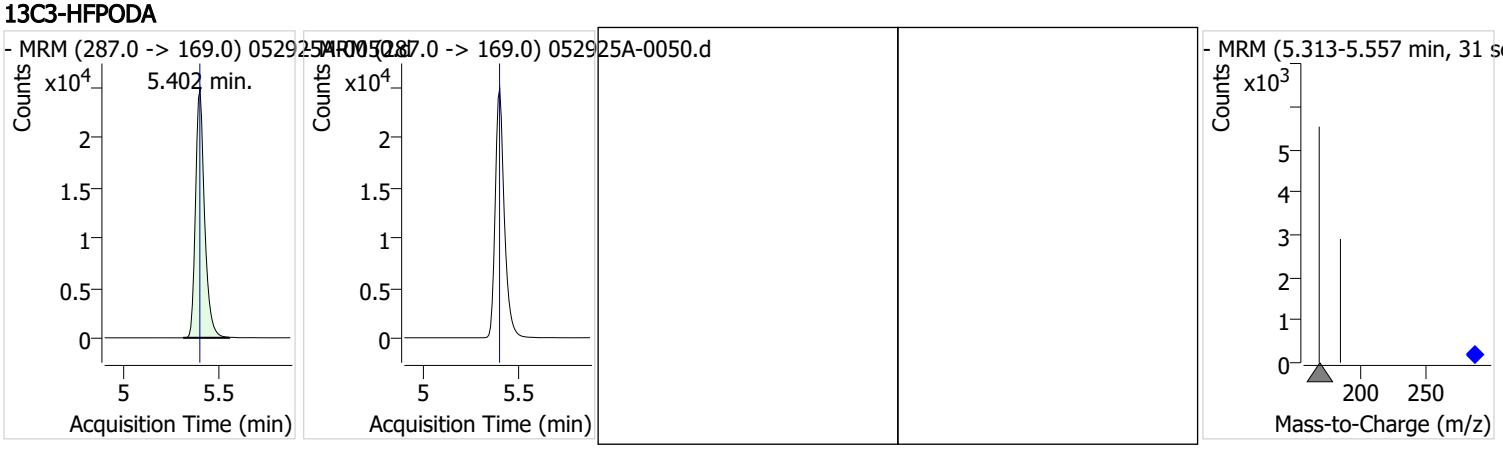
13C5-PFPeA_ISTD



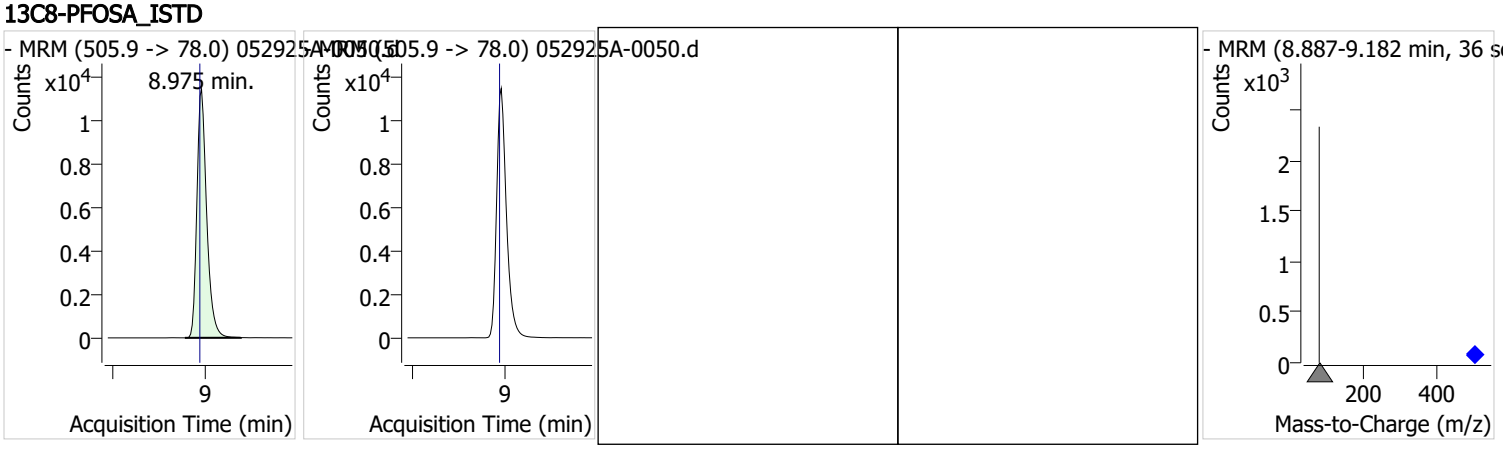
13C6-PFDA_ISTD



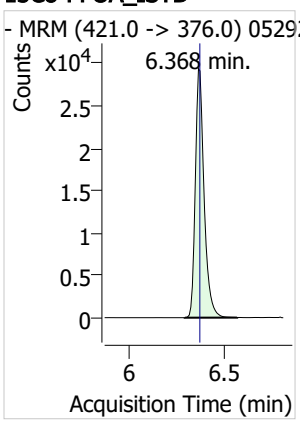
13C3-HFPODA

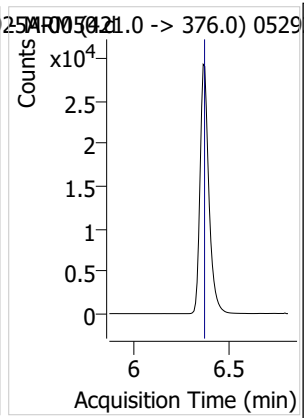


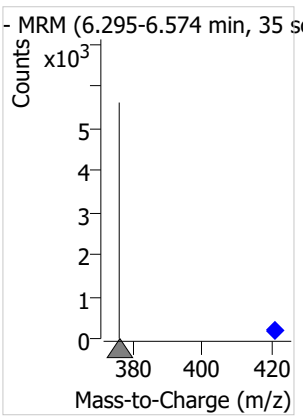
13C8-PFOSA_ISTD



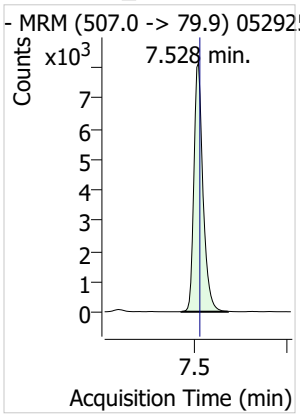
13C8-PFOA_ISTD

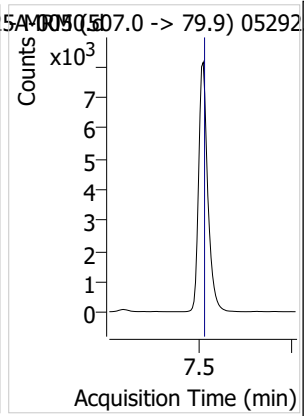


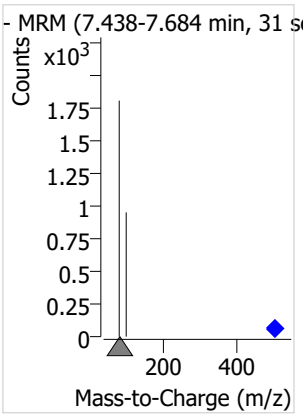




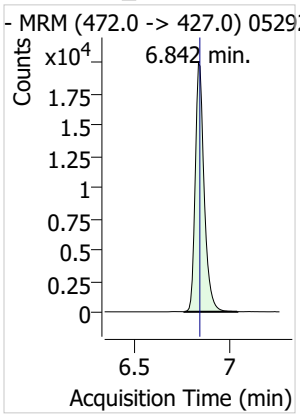
13C8-PFOS_ISTD

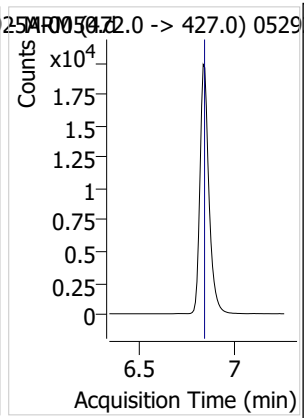


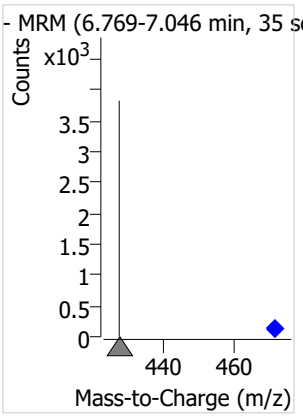




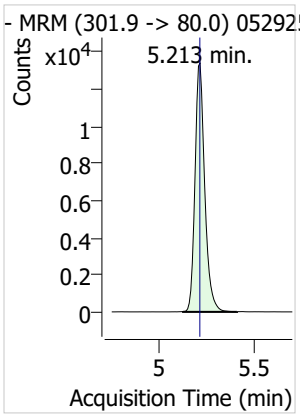
13C9-PFNA_ISTD

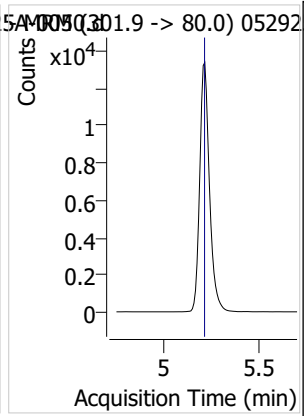


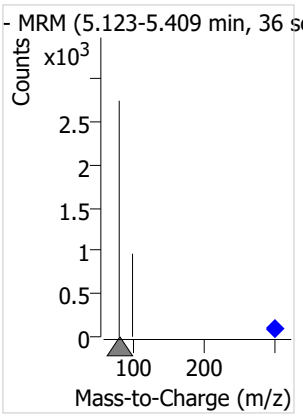




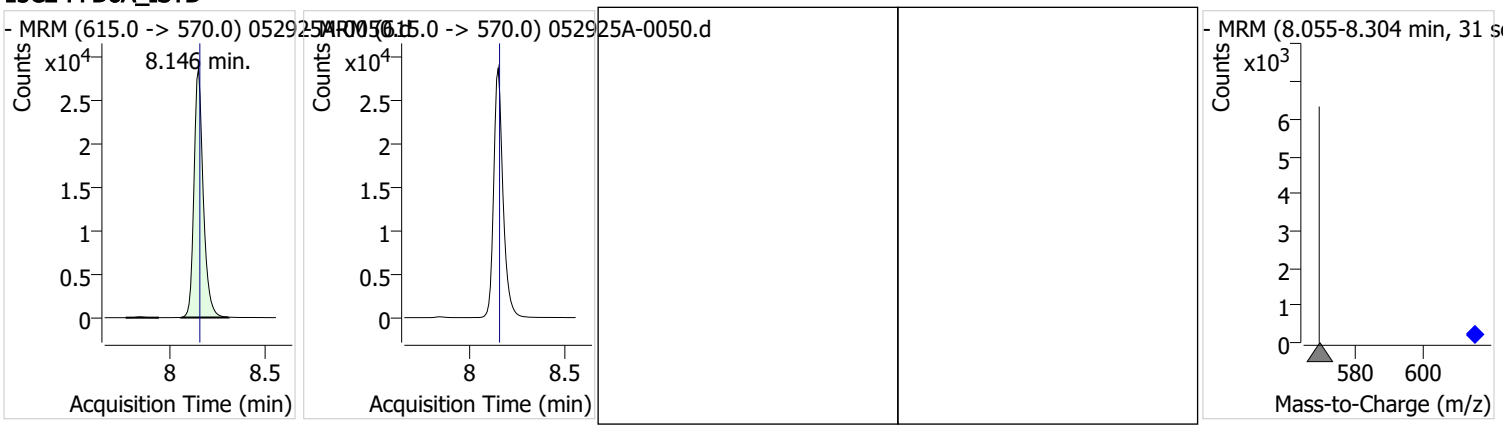
13C3-PFBS



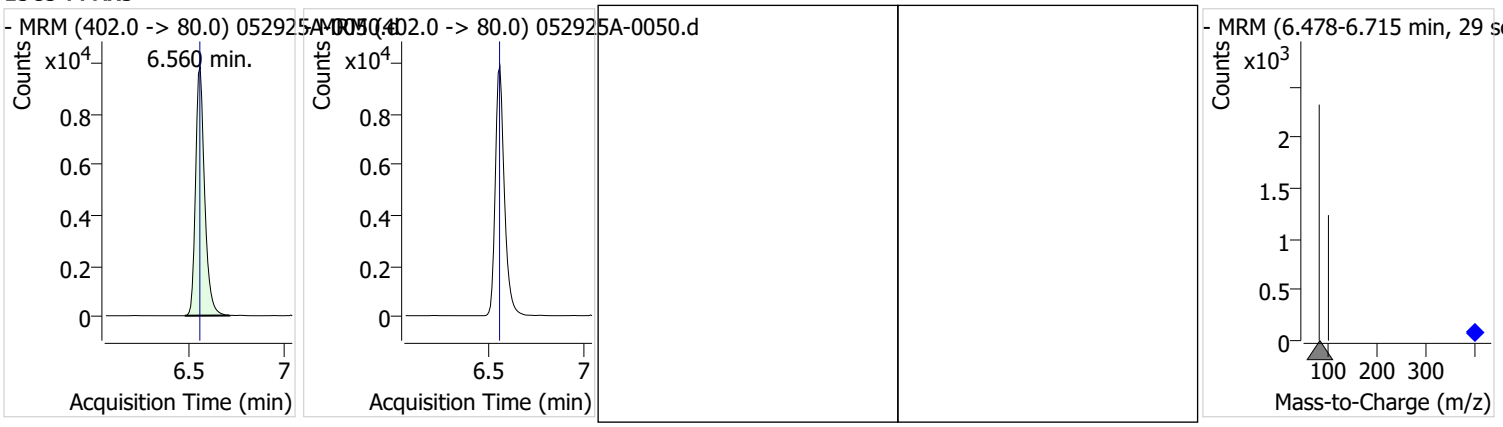




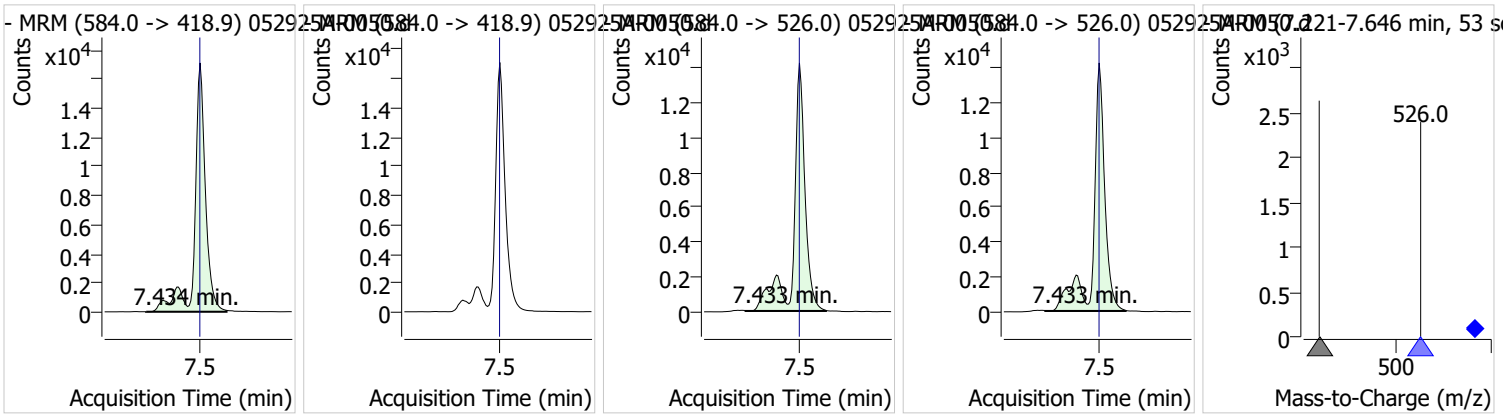
13C2-PFDoA_ISTD



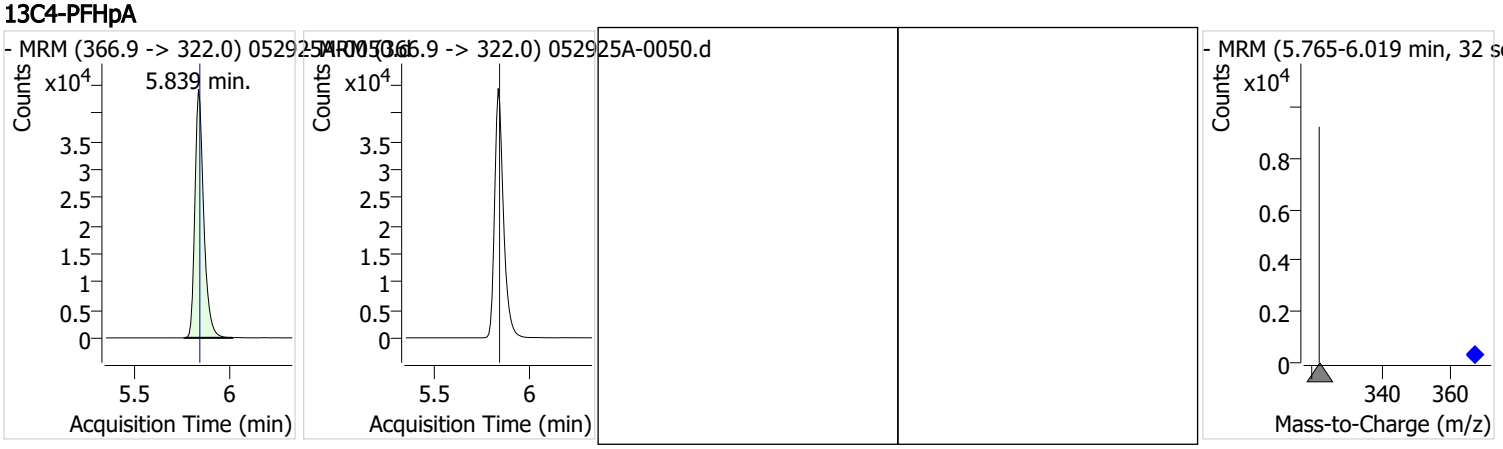
13C3-PFHxS



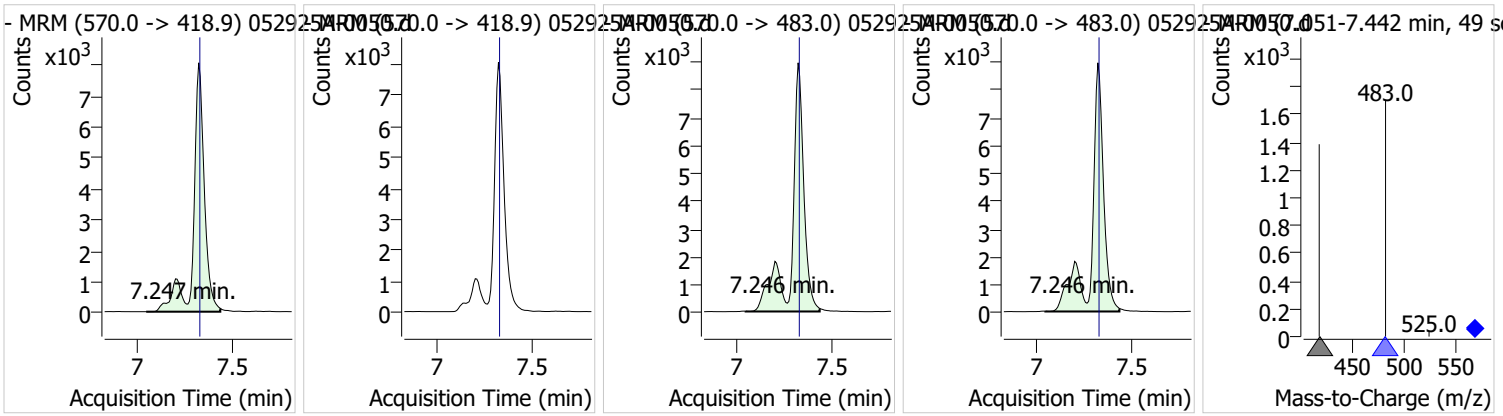
NEtFOSAA



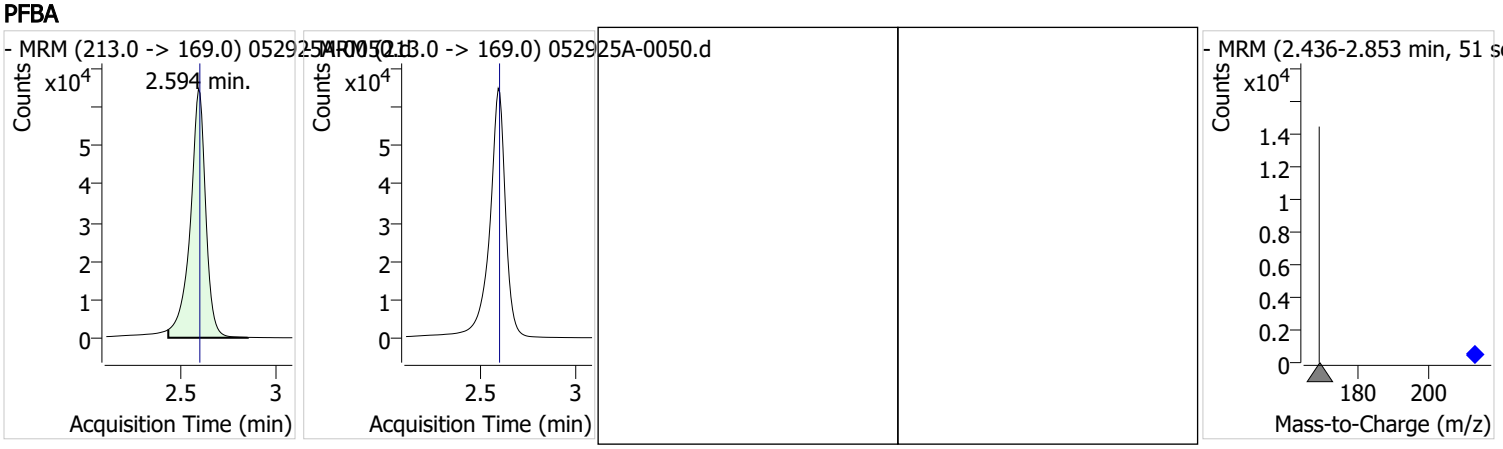
13C4-PFHpA



NMeFOSAA



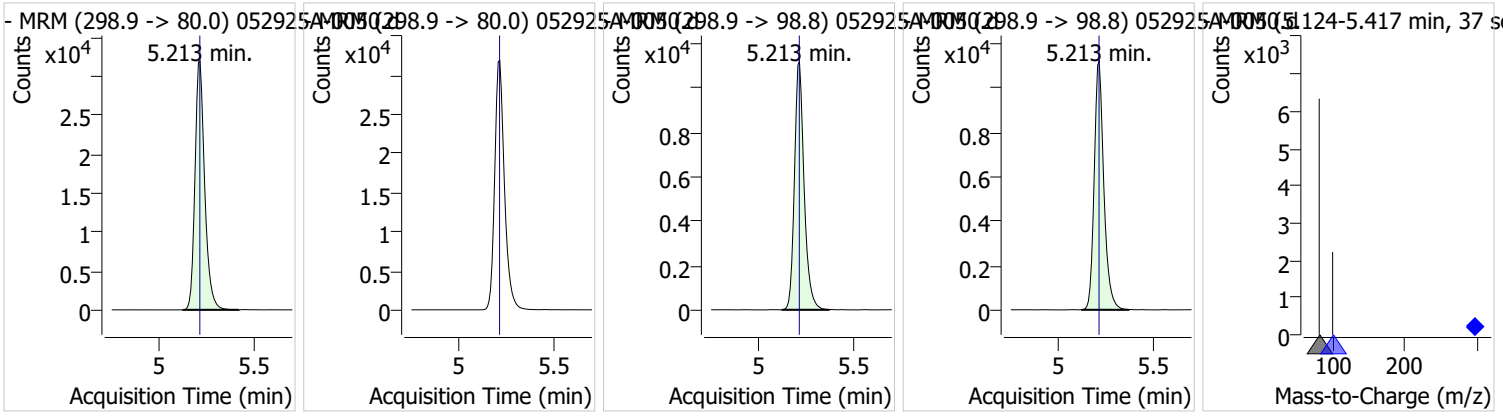
PFBA



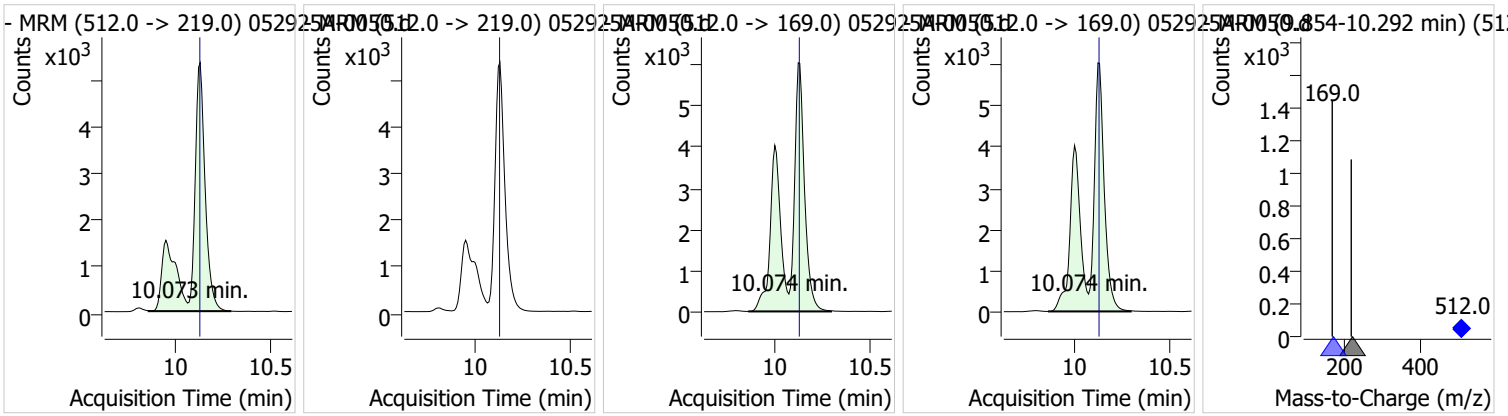
13C5-PFHxA



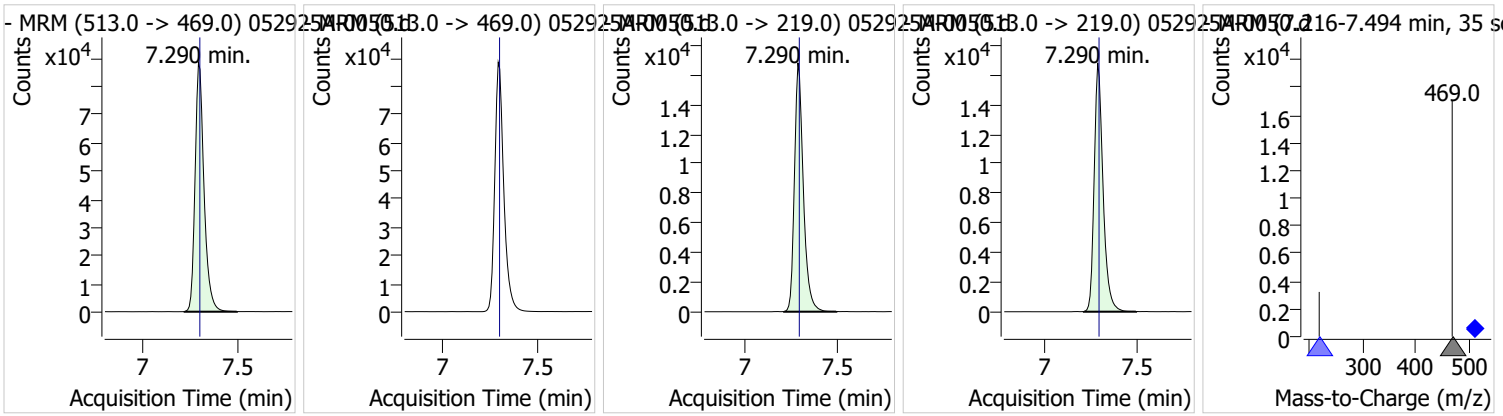
PFBS



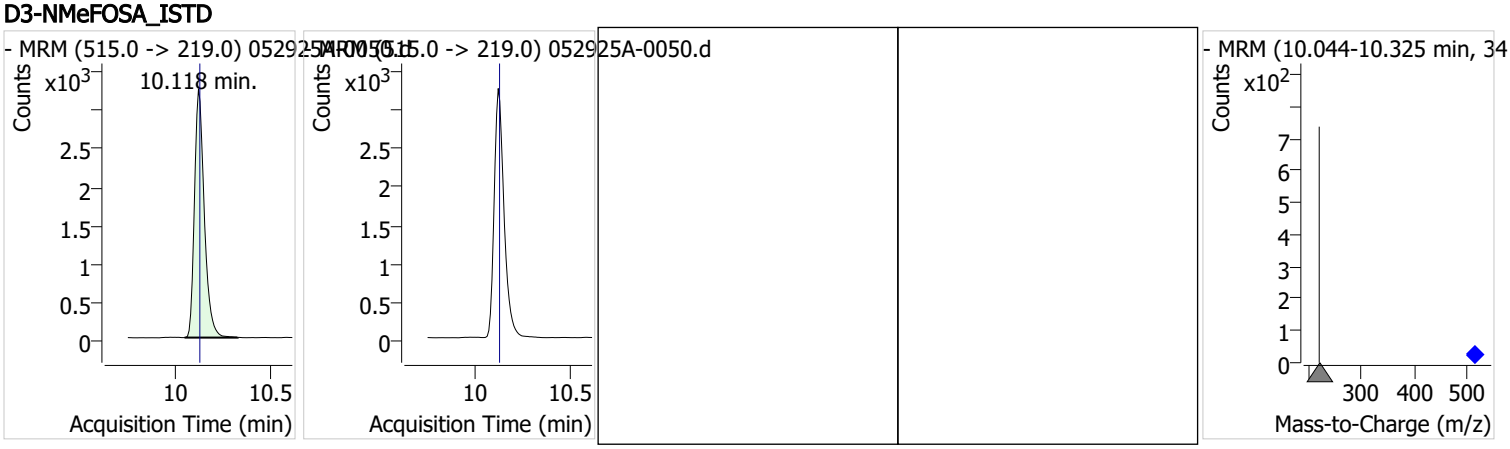
NMeFOSA



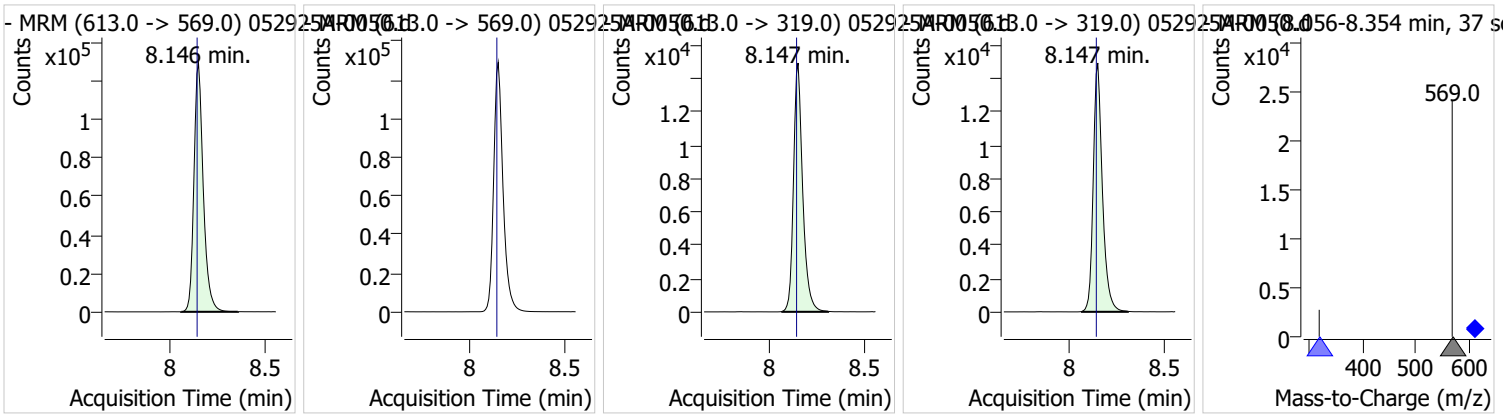
PFDA



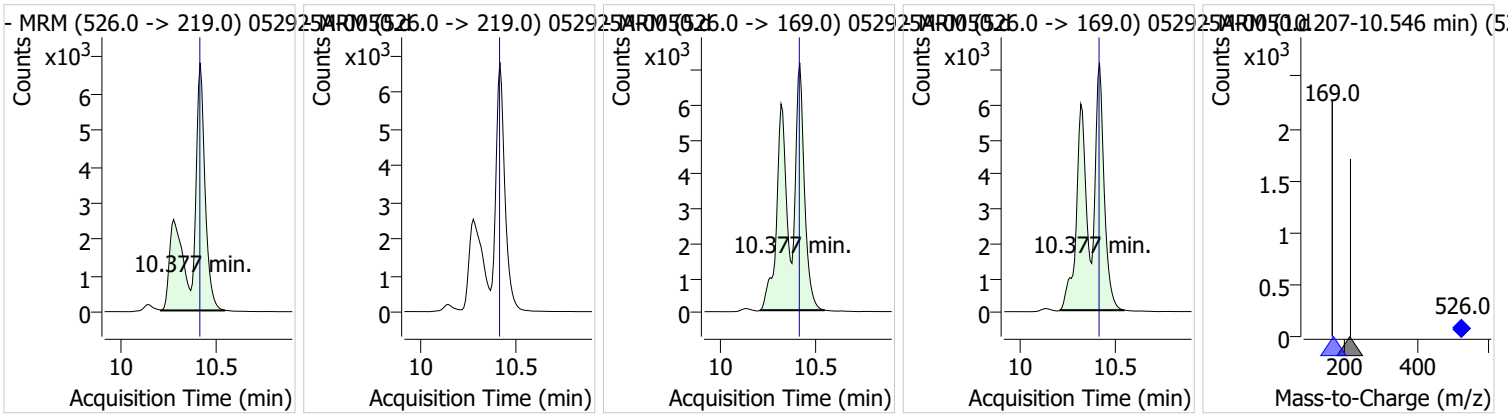
D3-NMeFOSA_ISTD



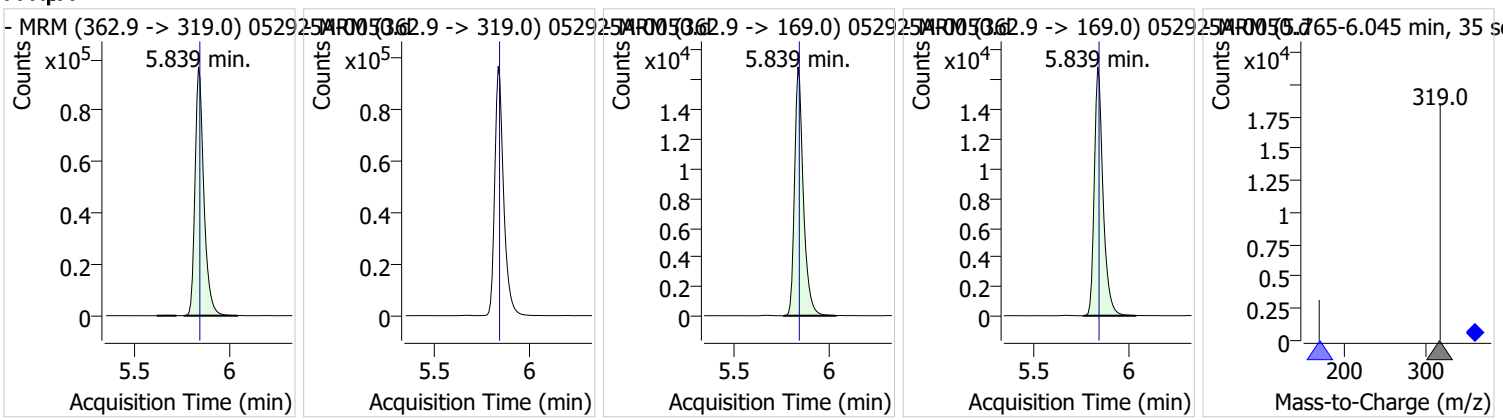
PFDoA



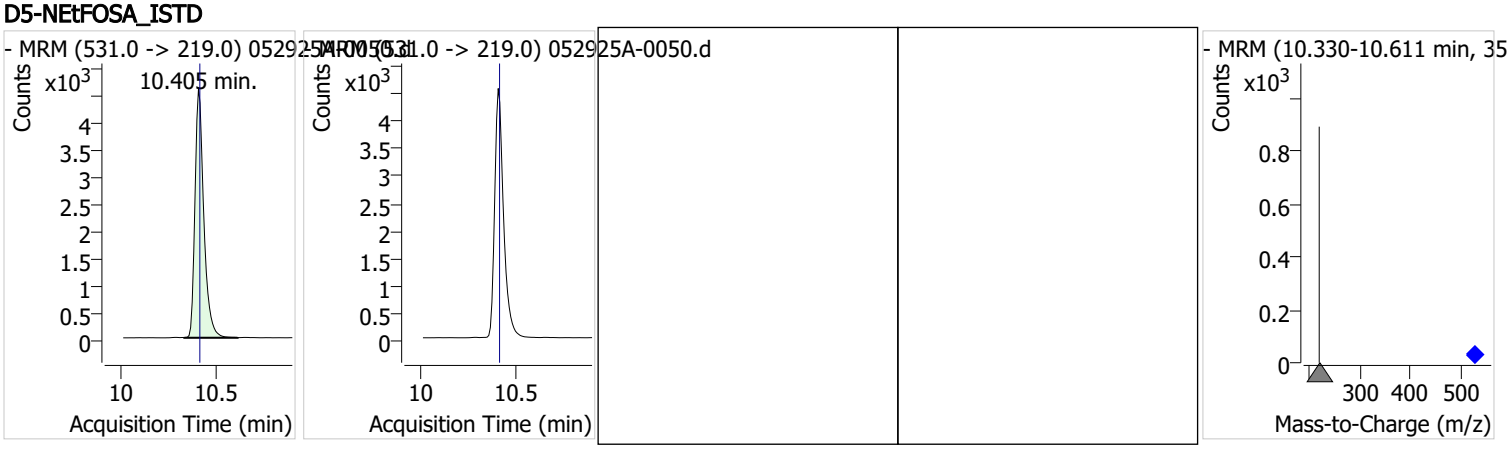
NEtFOSA



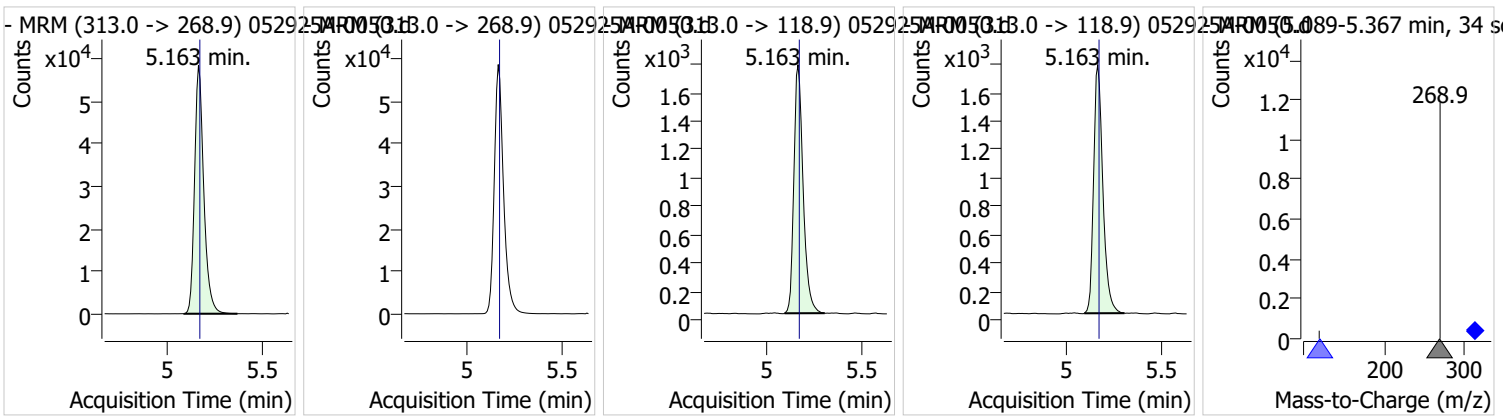
PFHpA



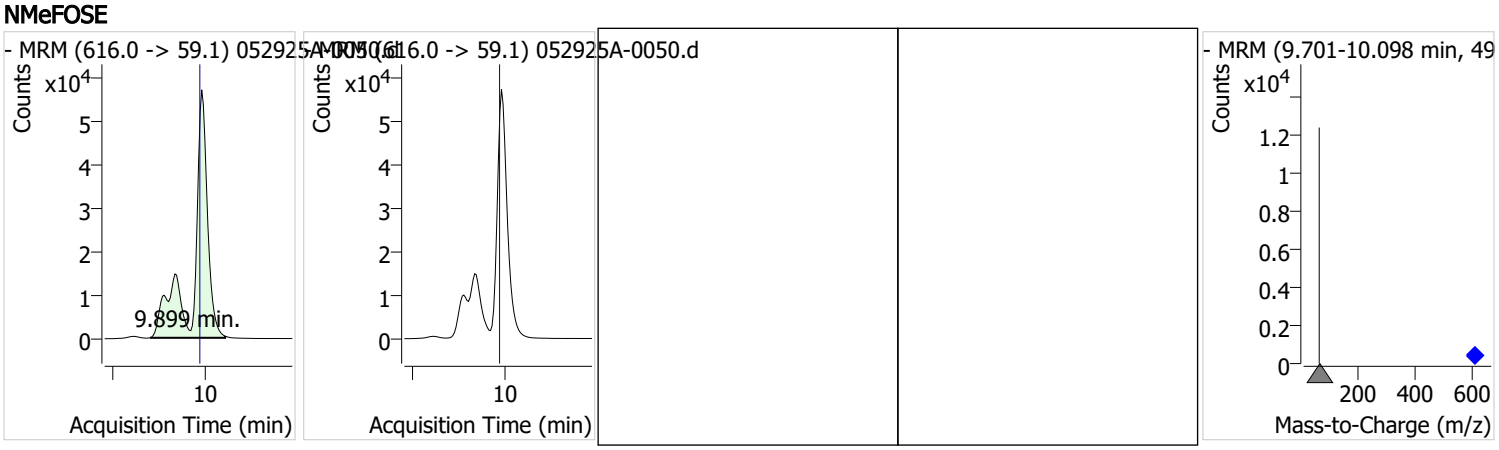
D5-NEtFOSA_ISTD



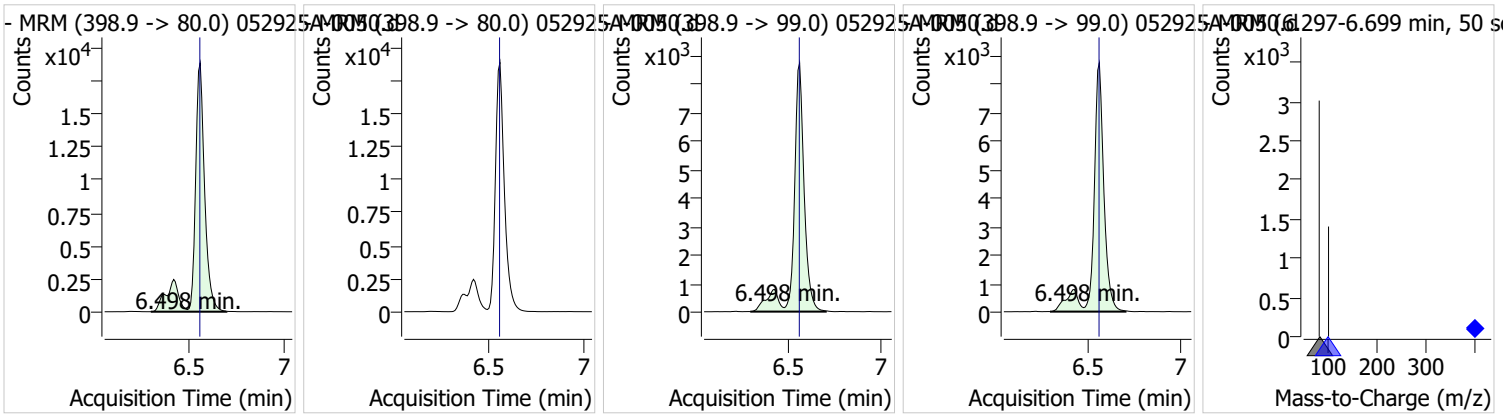
PFHxA



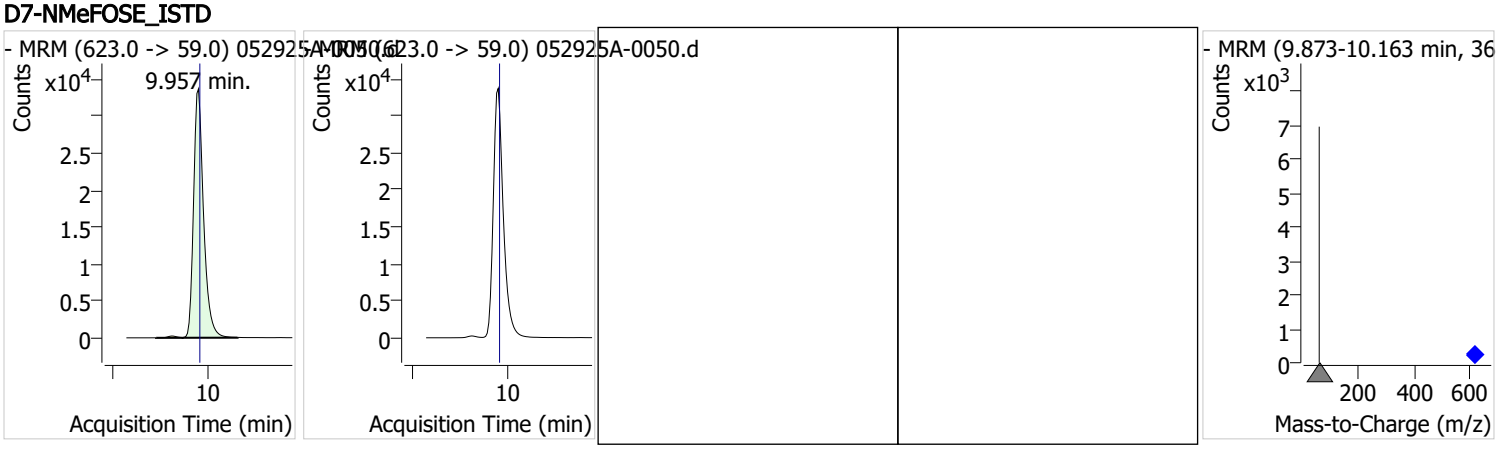
NMeFOSE



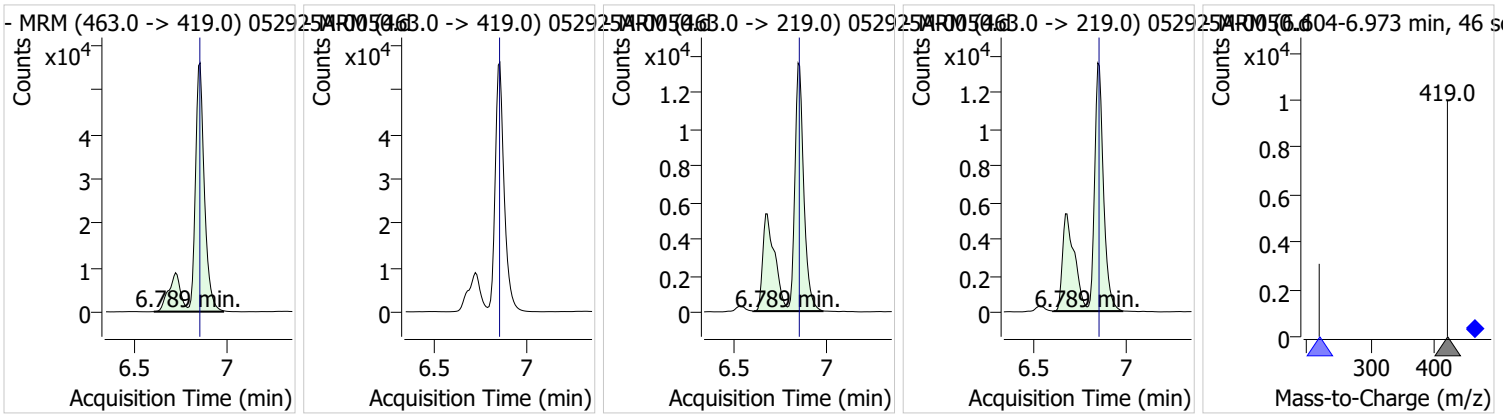
PFHxS



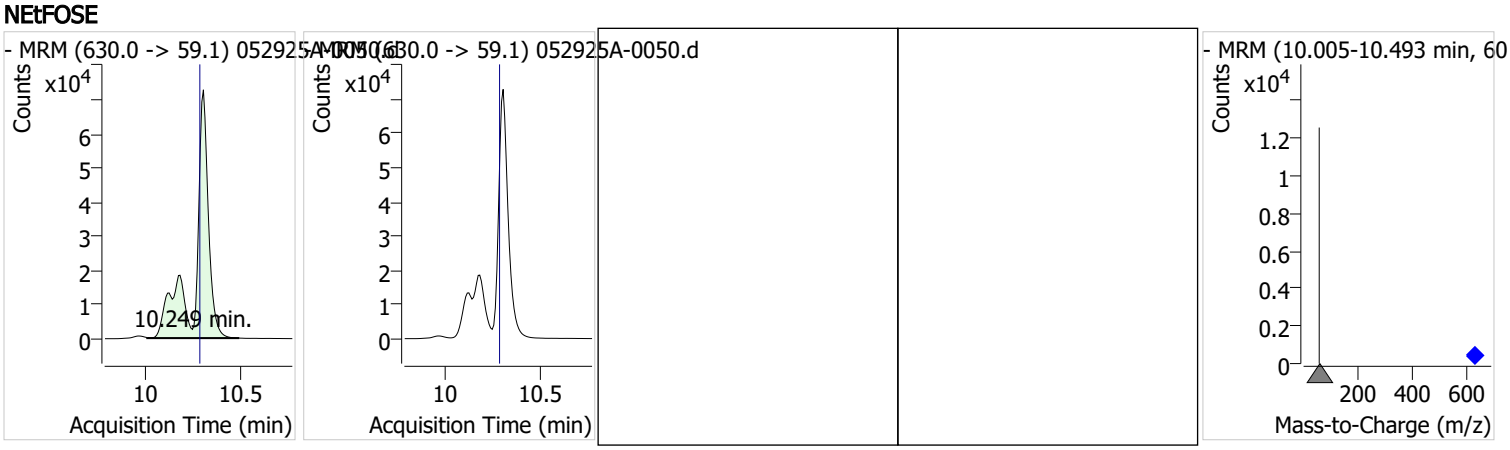
D7-NMeFOSE_ISTD



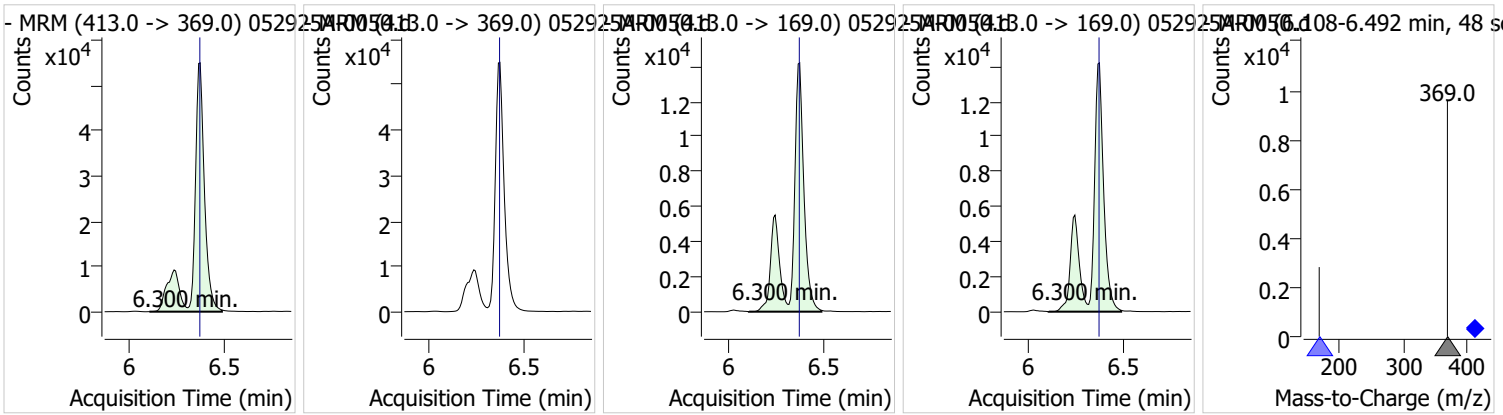
PFNA



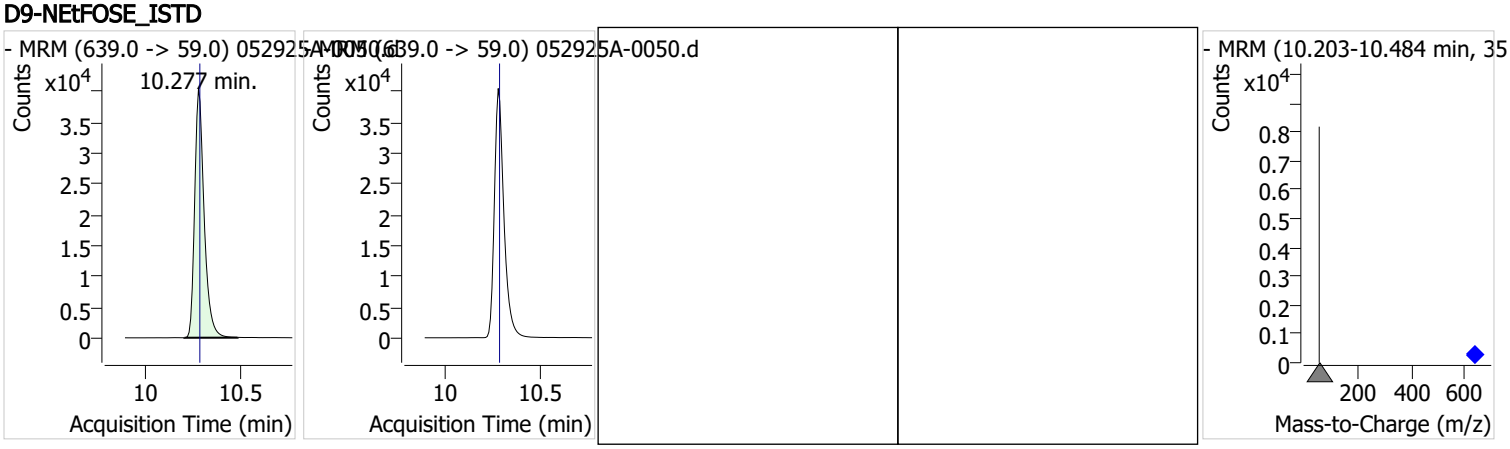
NEtFOSE



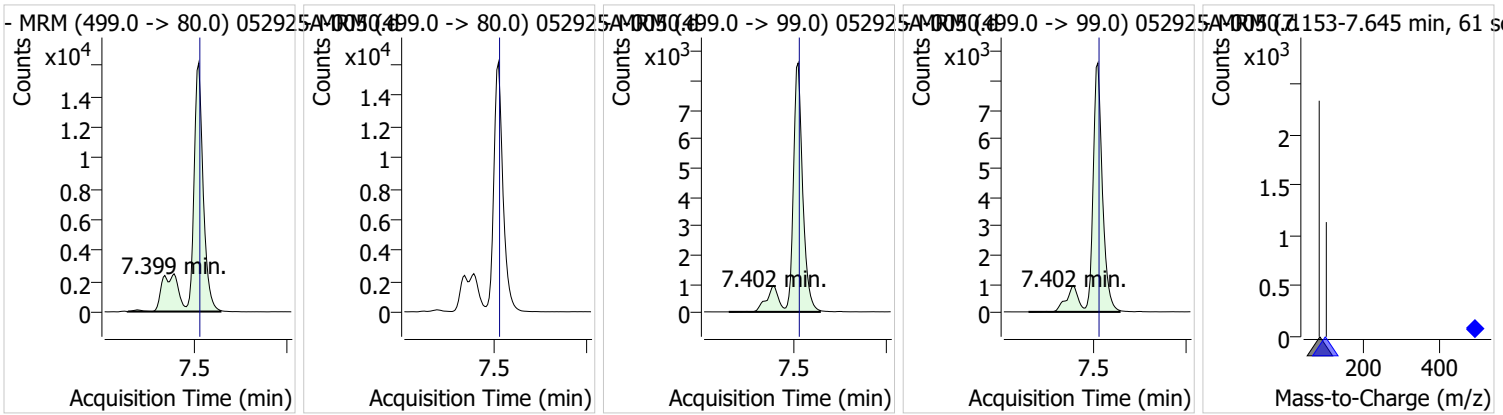
PFOA



D9-NEtFOSE_ISTD



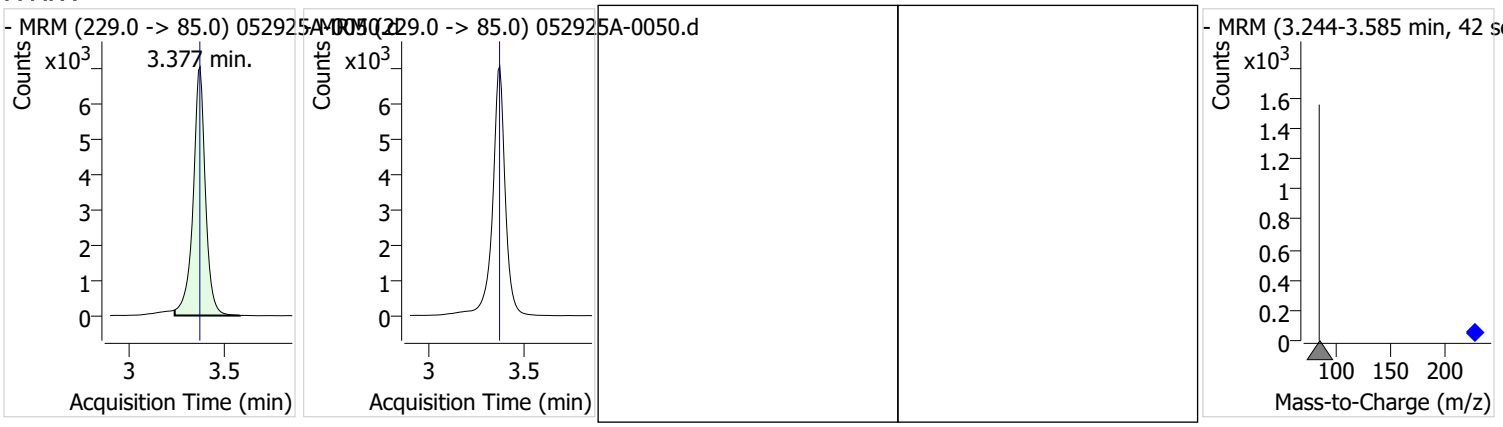
PFOS



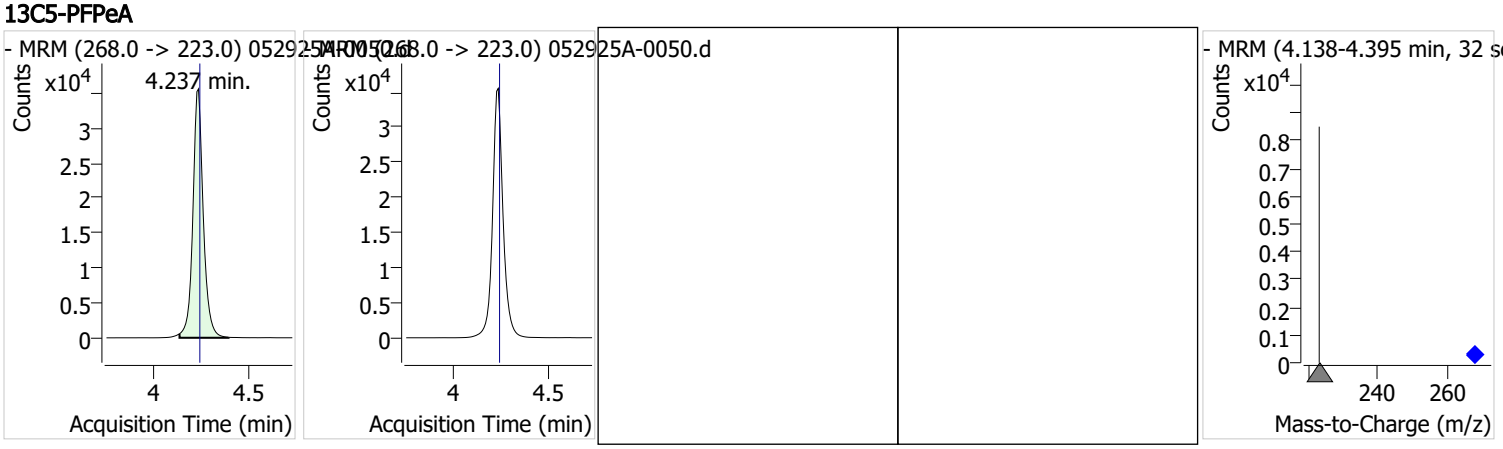
PFPeA



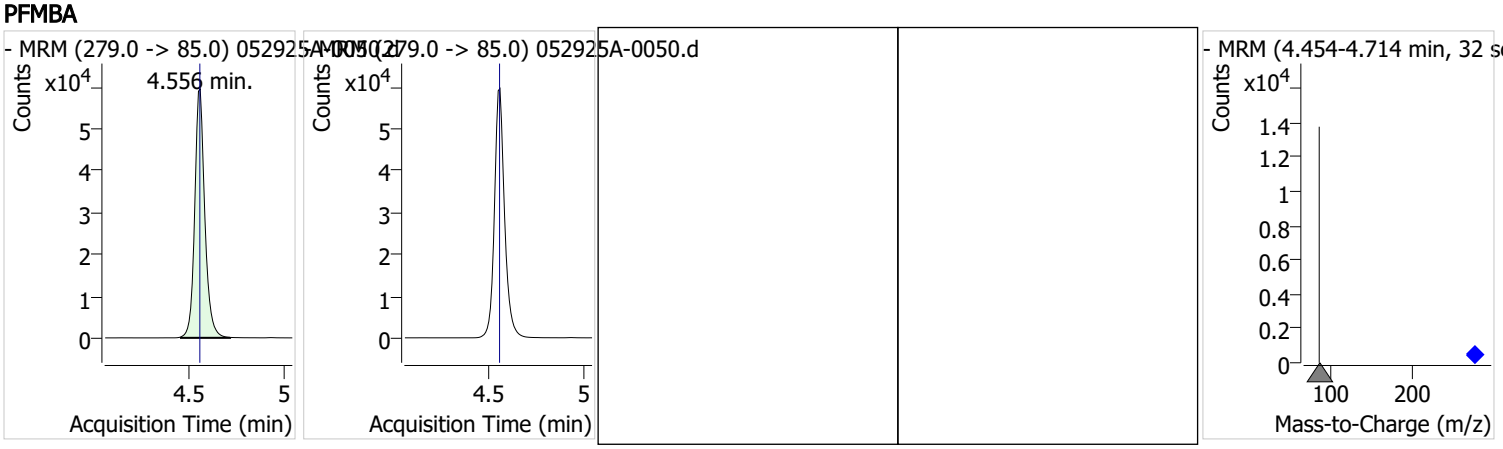
PFMPA



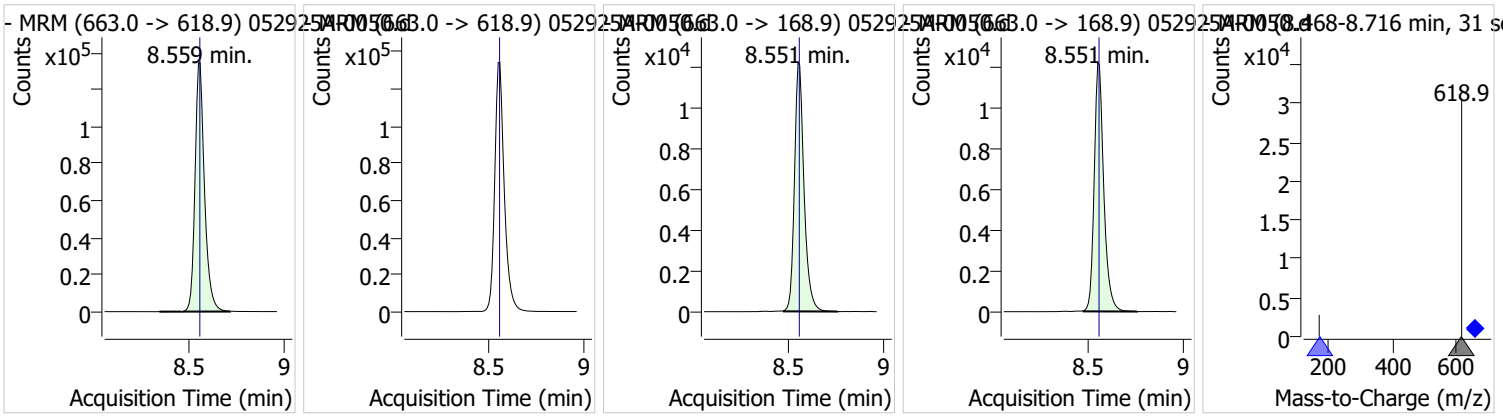
13C5-PFPeA



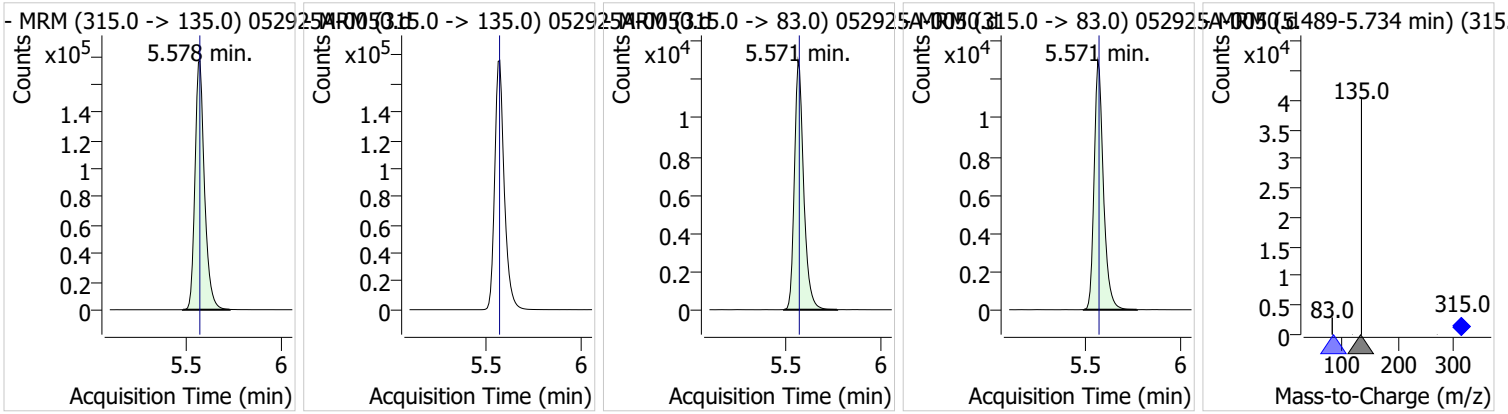
PFMBA



PFTrDA



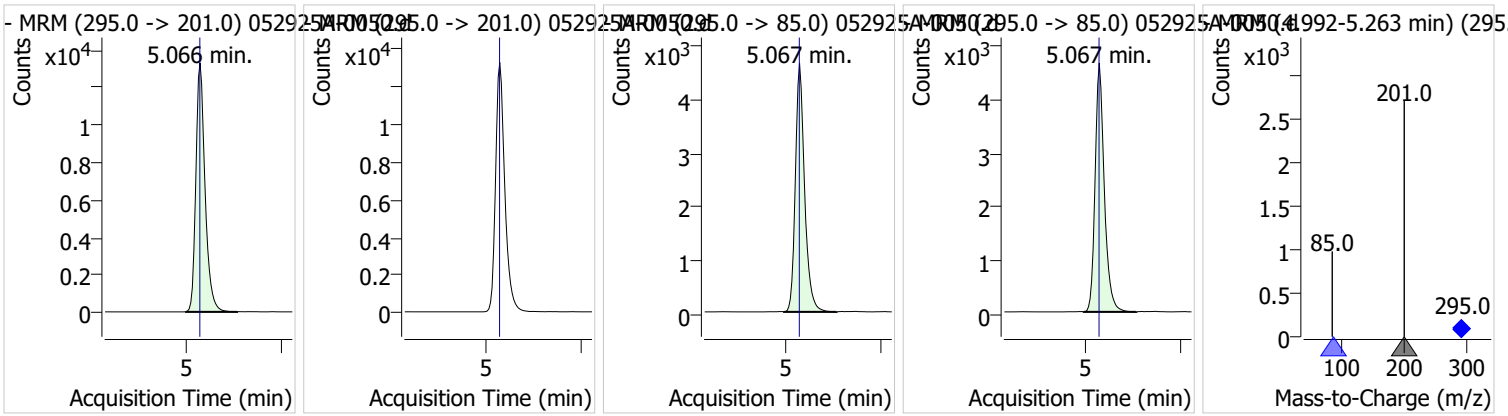
PFEESA



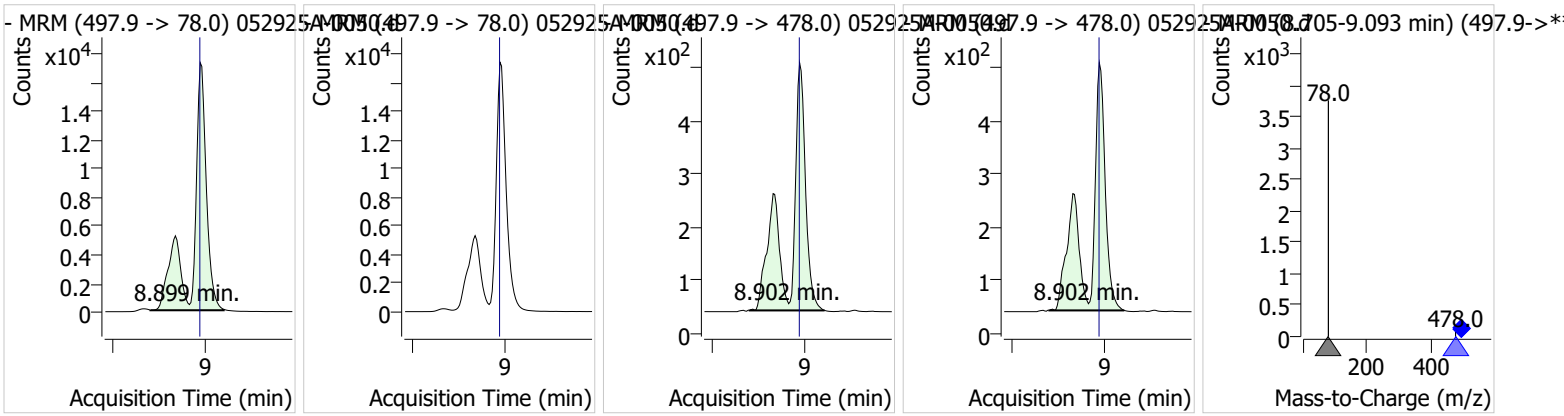
13C6-PFDA



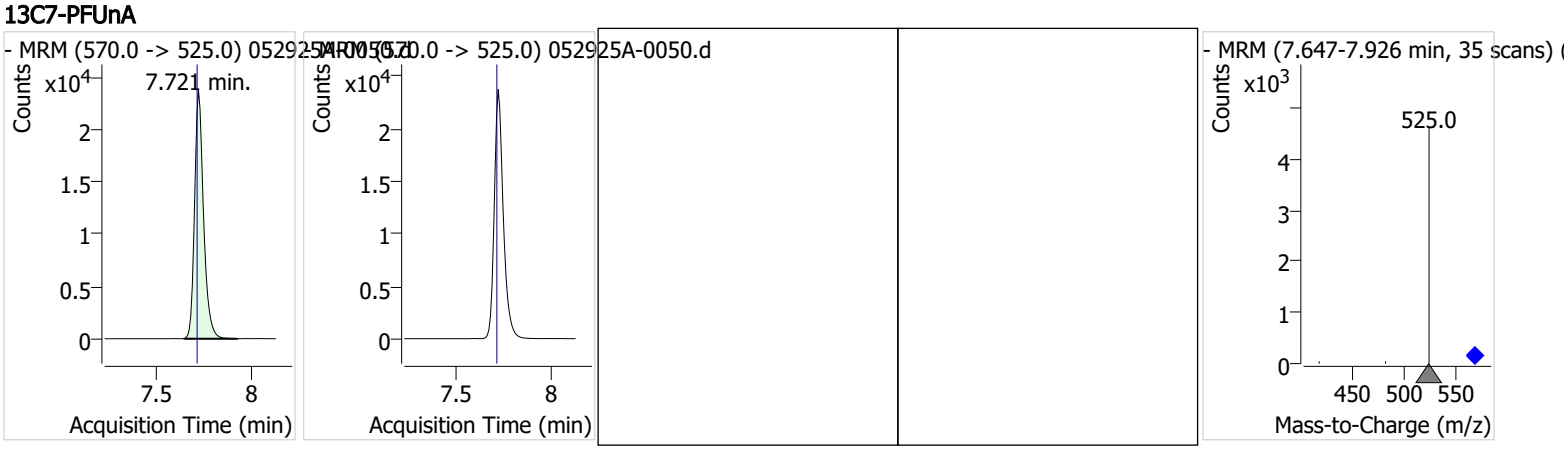
NFDHA



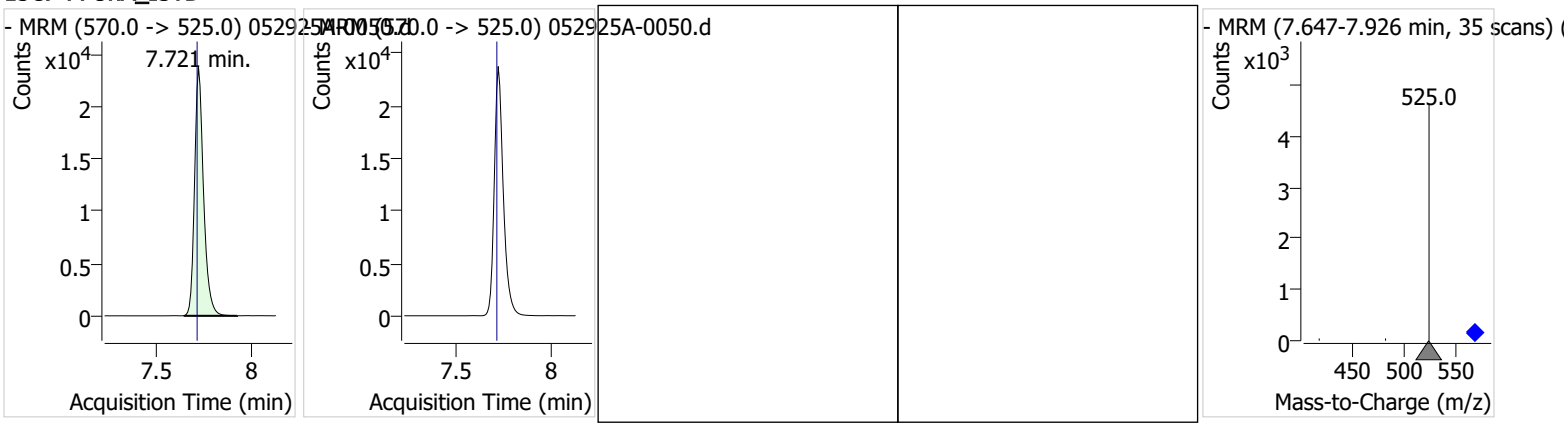
PFOSA



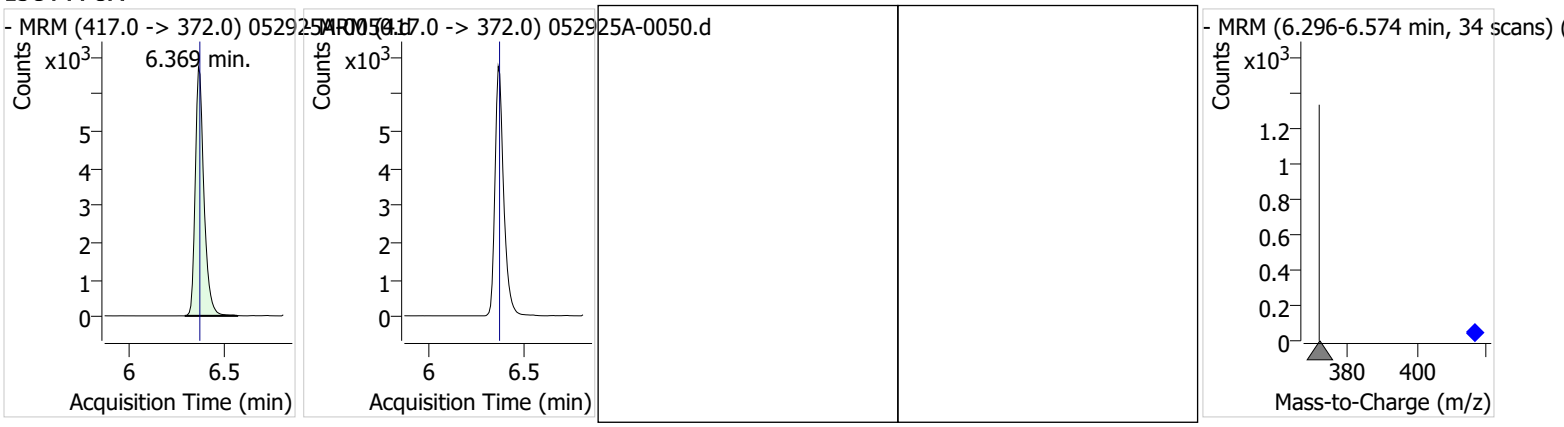
13C7-PFUnA



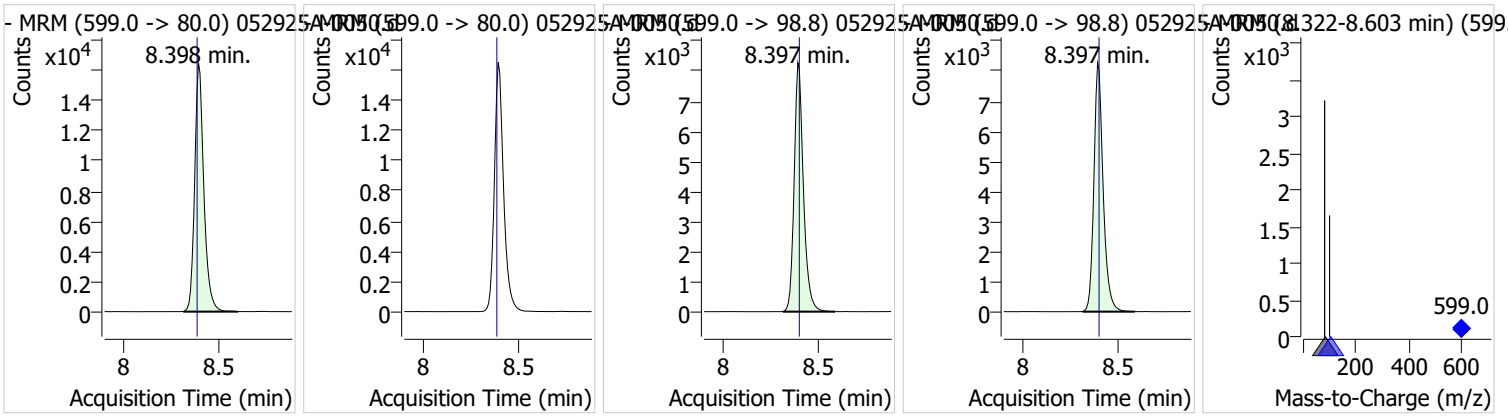
13C7-PFUnA_ISTD



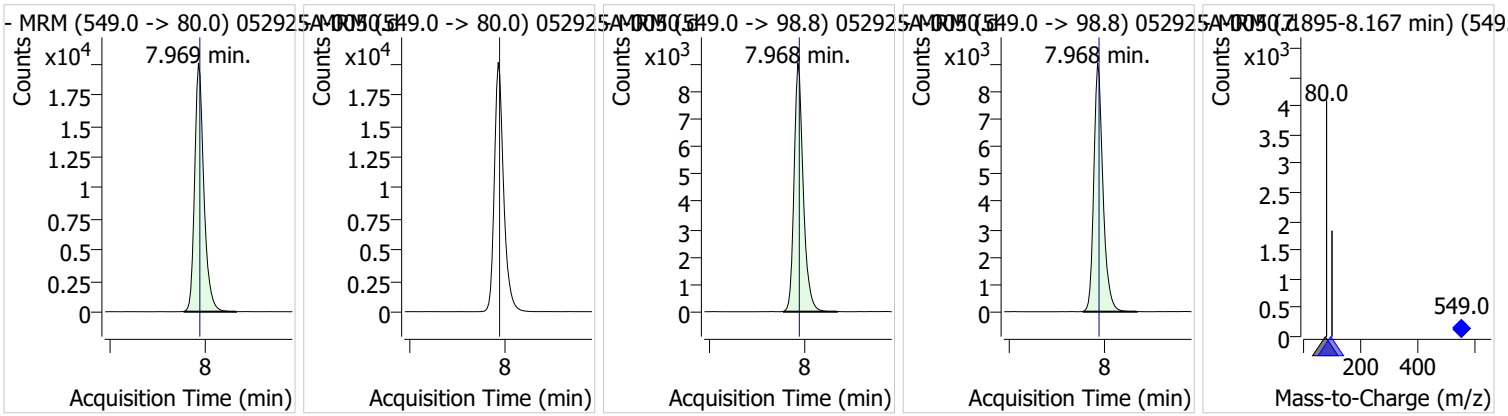
13C4-PFOA



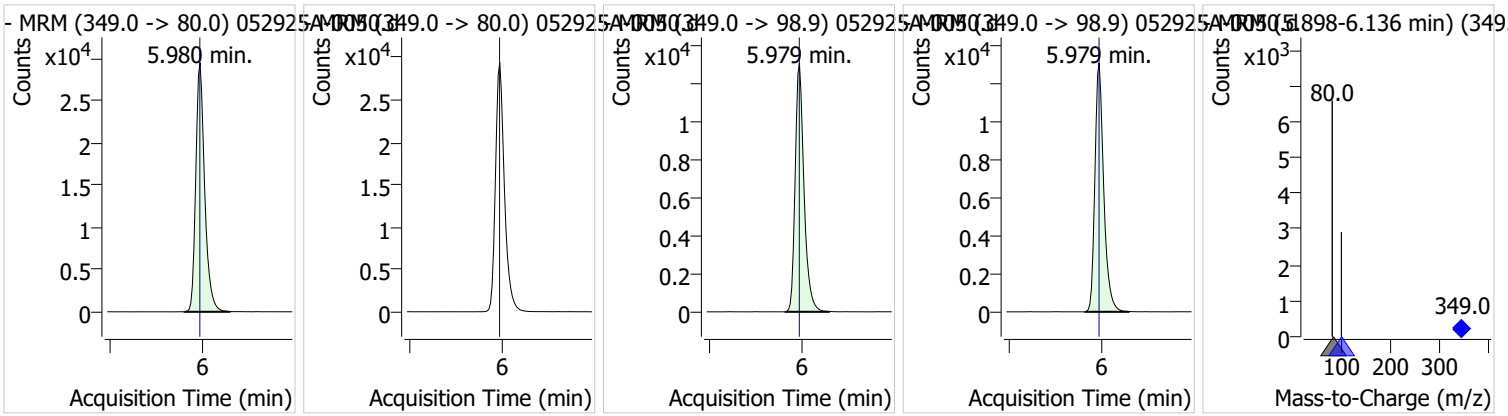
PFDS



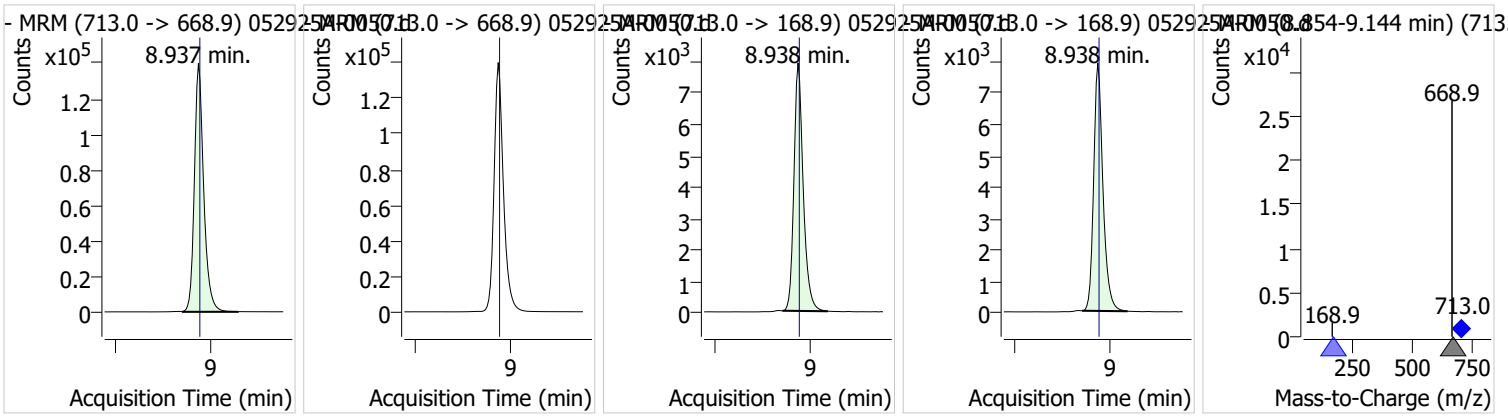
PFNS



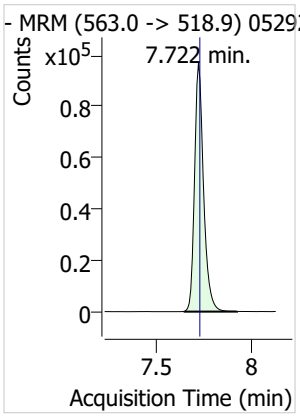
PFPeS

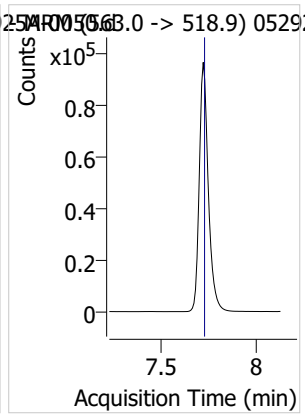


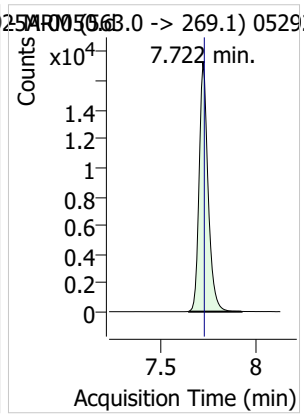
PFTeDA

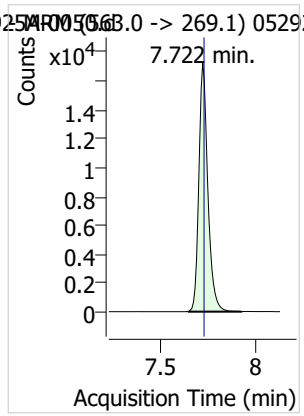


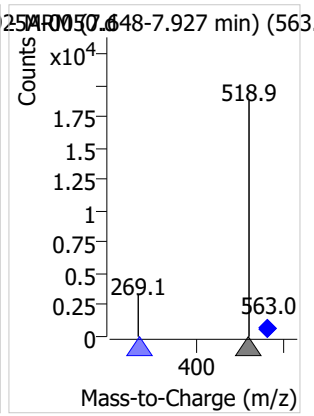
PFUnA



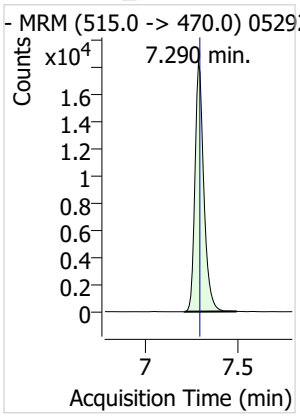


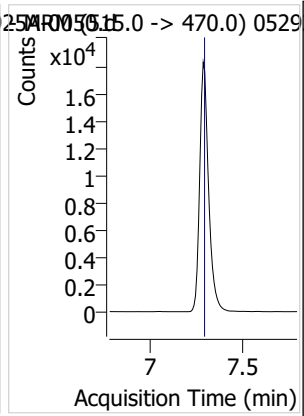


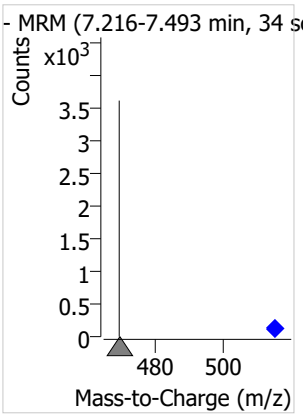




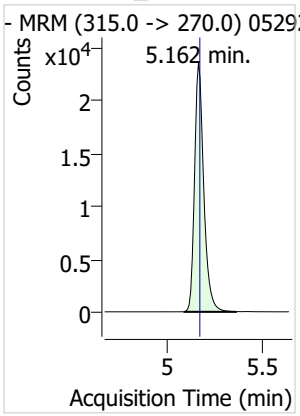
13C2-PFDA_ISTD

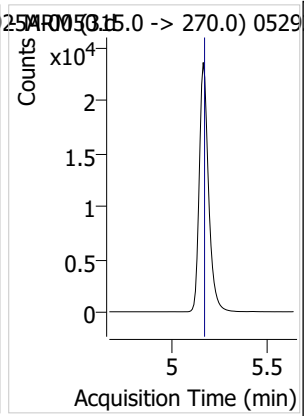


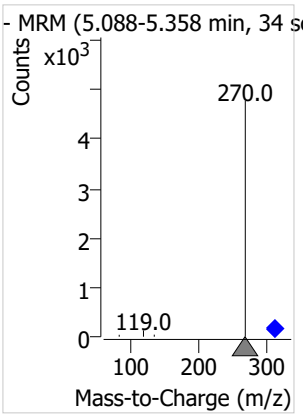




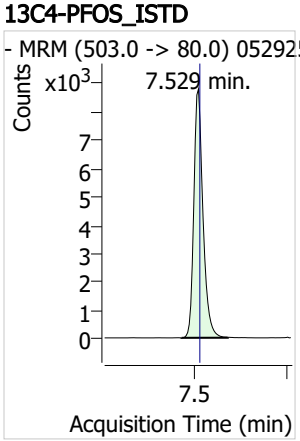
13C2-PFHxA_ISTD

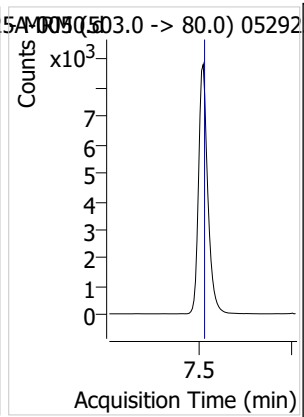


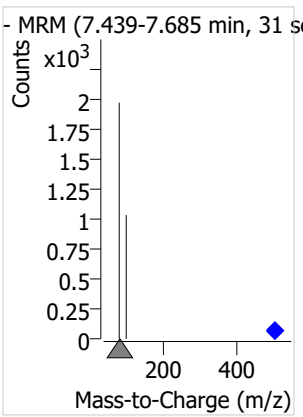




13C4-PFOS_ISTD



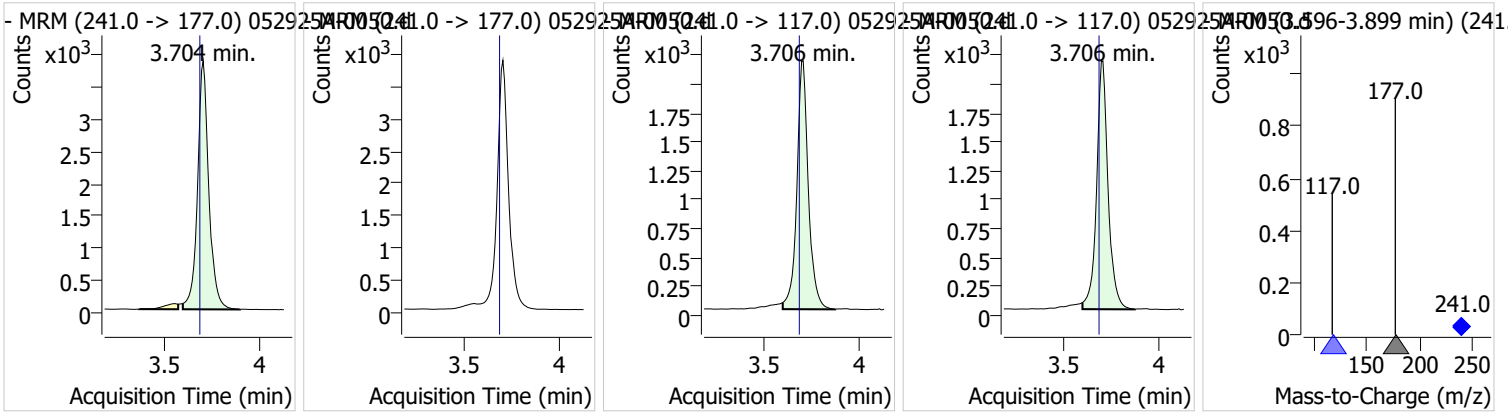




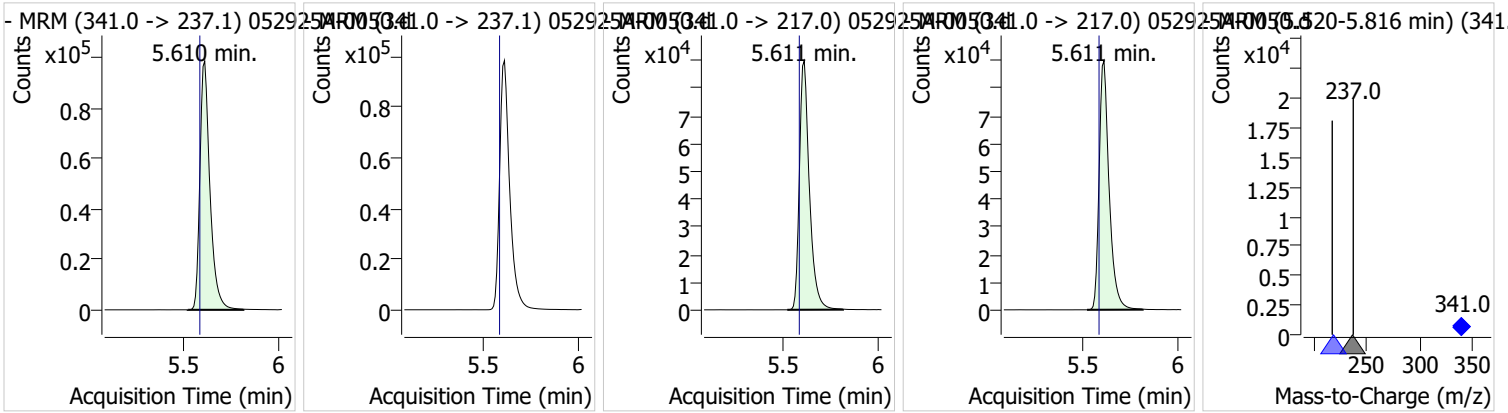
13C3-PFBA



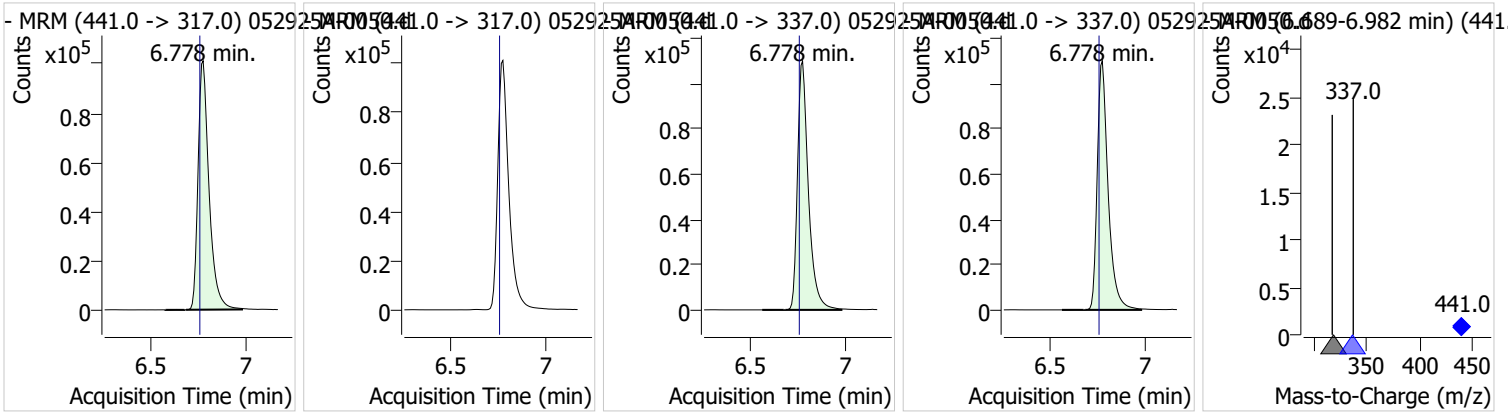
3:3FTCA



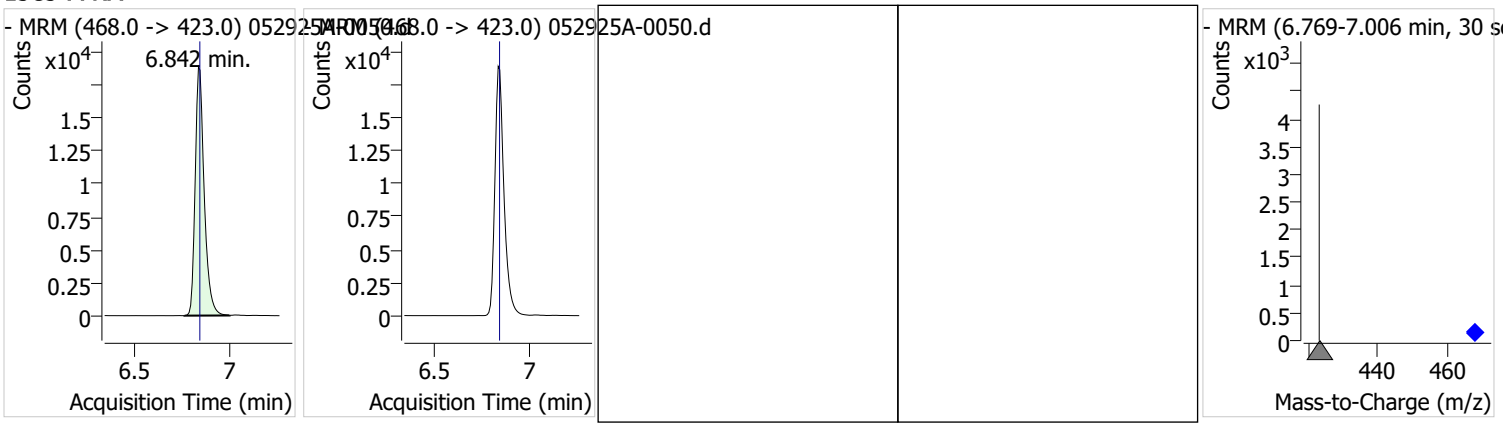
5:3FTCA



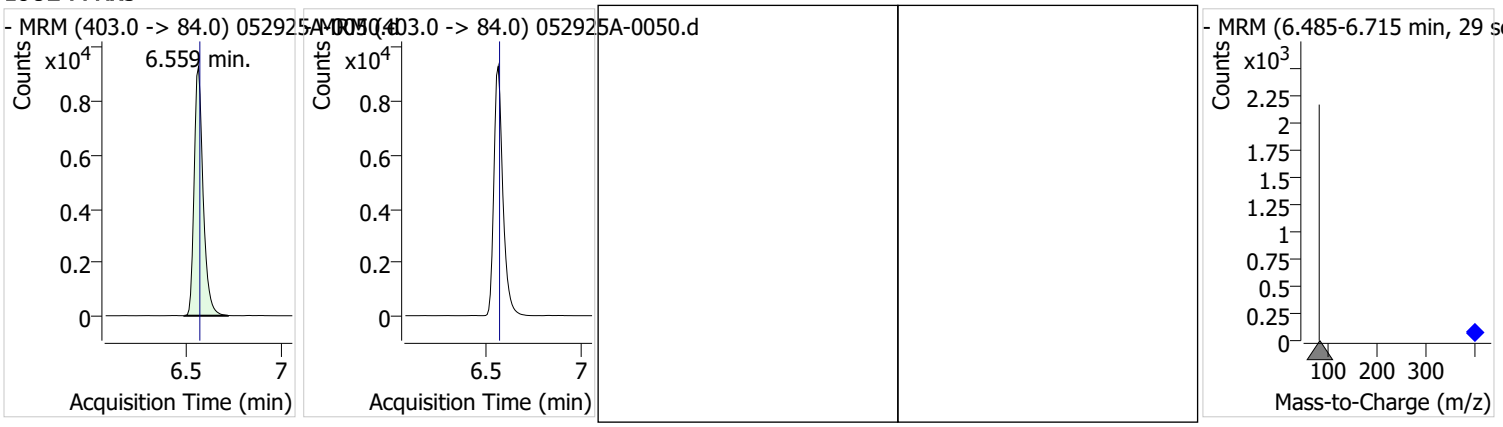
7:3FTCA



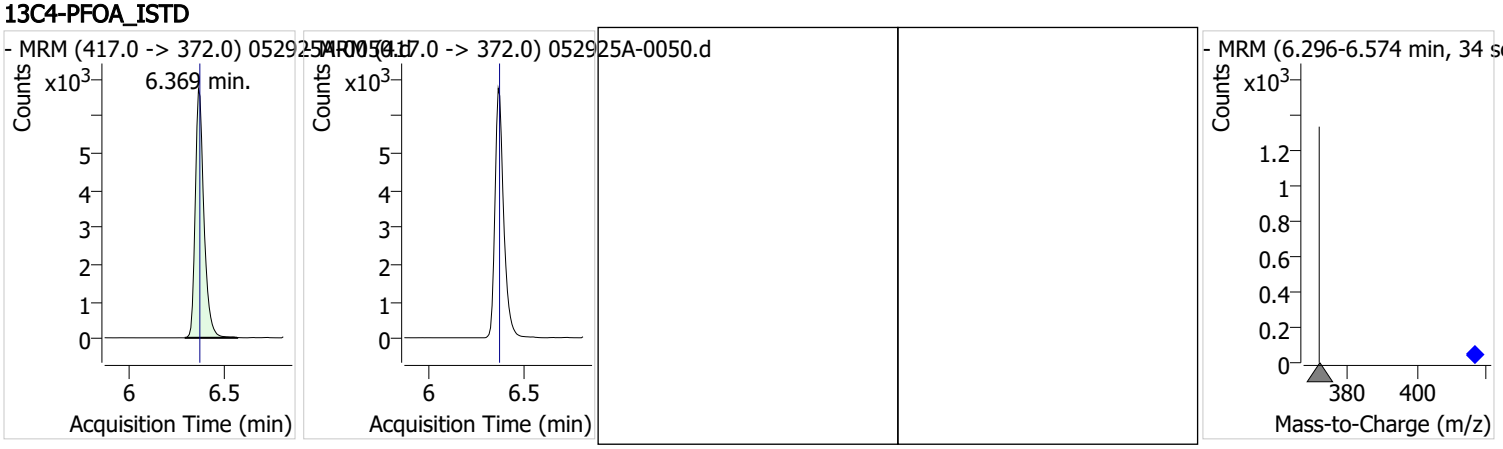
13C5-PFNA



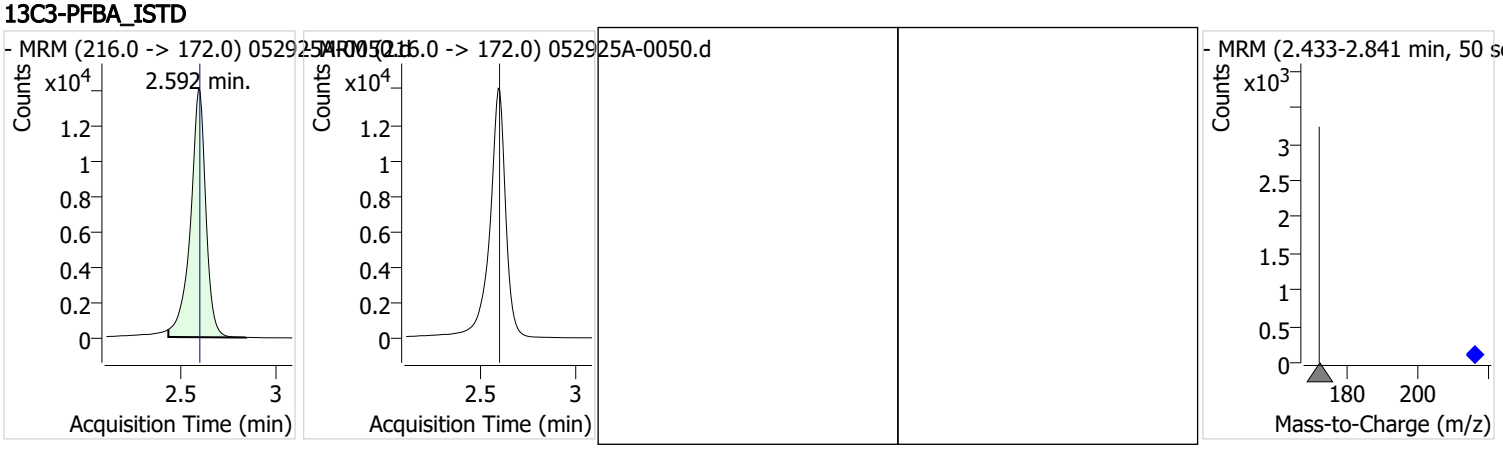
18O2-PFHxS



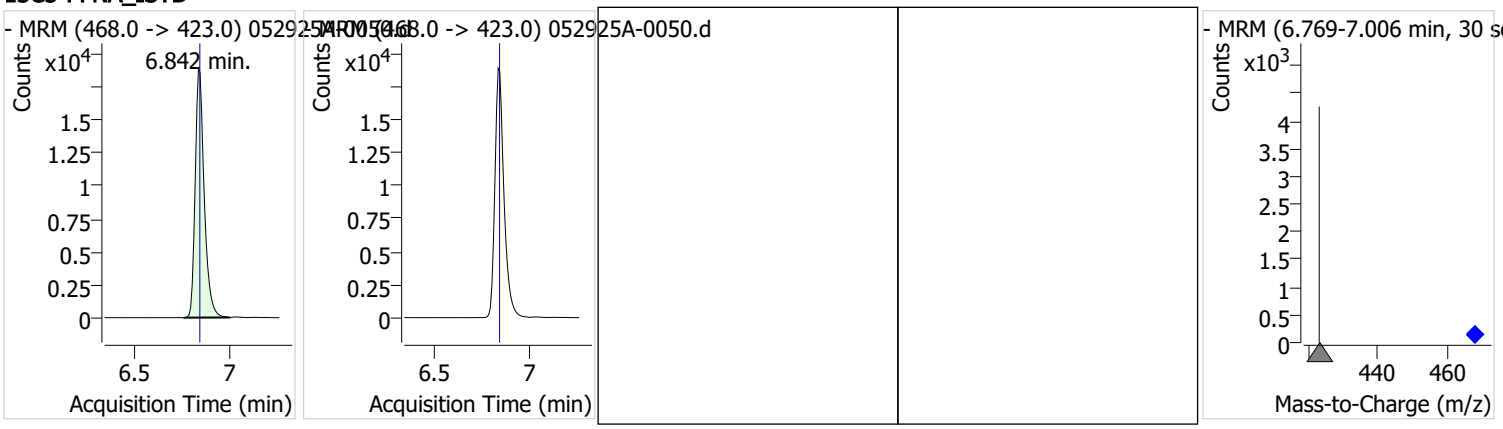
13C4-PFOA_ISTD



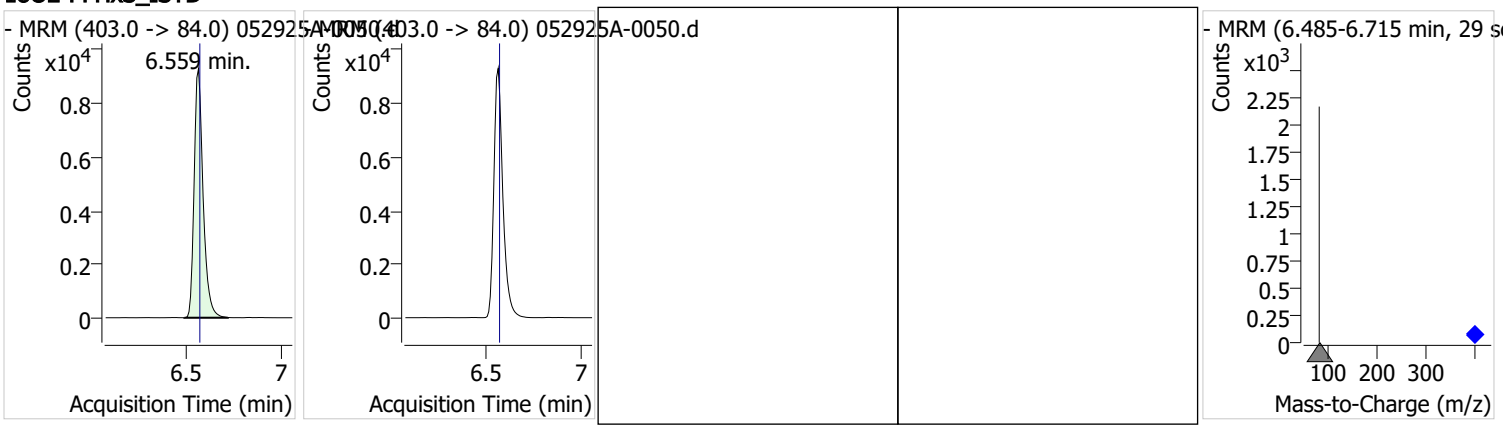
13C3-PFBA_ISTD



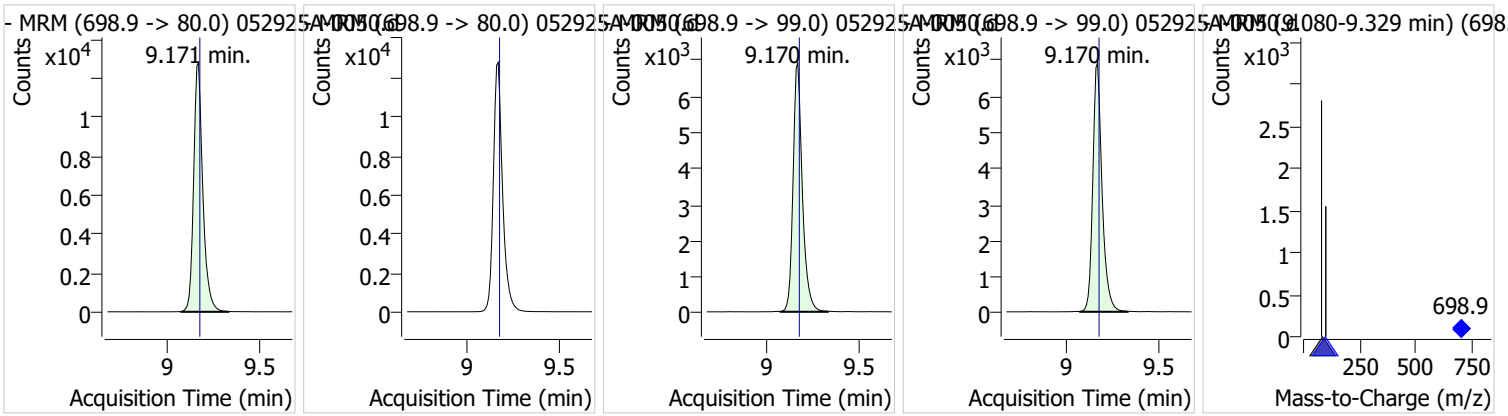
13C5-PFNA_ISTD



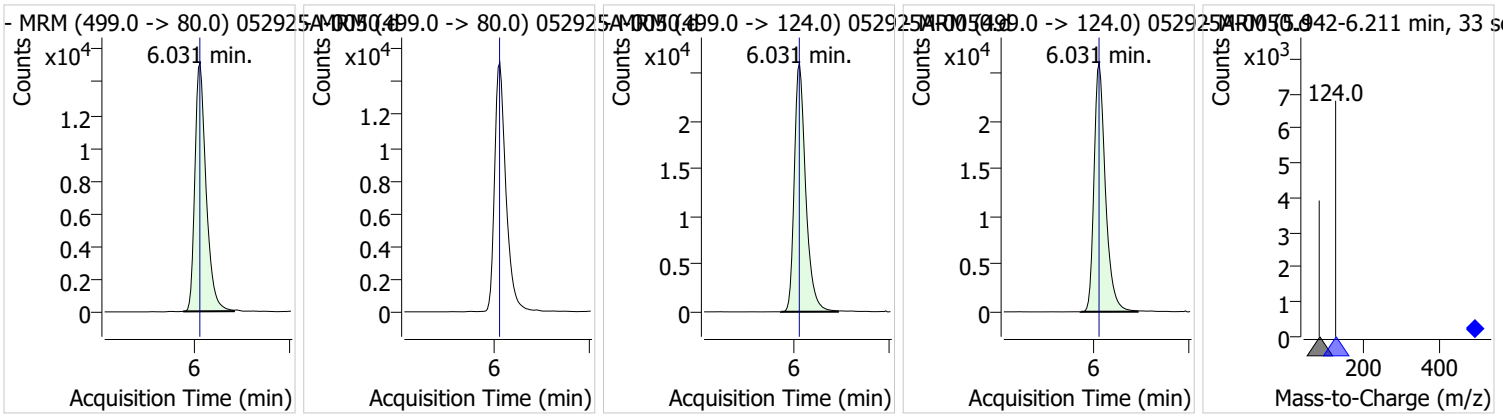
18O2-PFHxS_ISTD



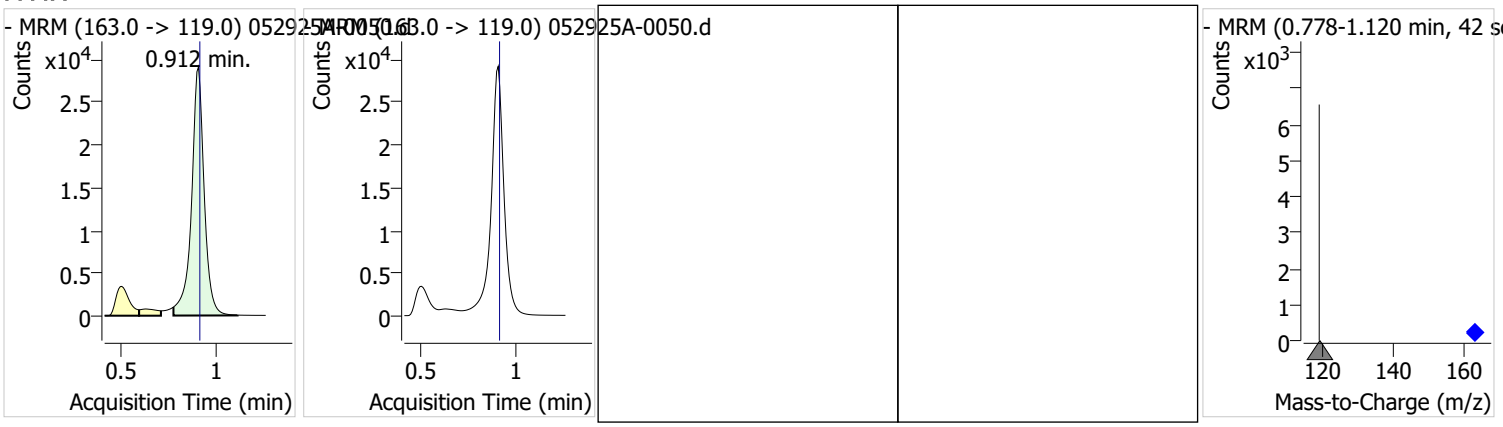
PFDoS



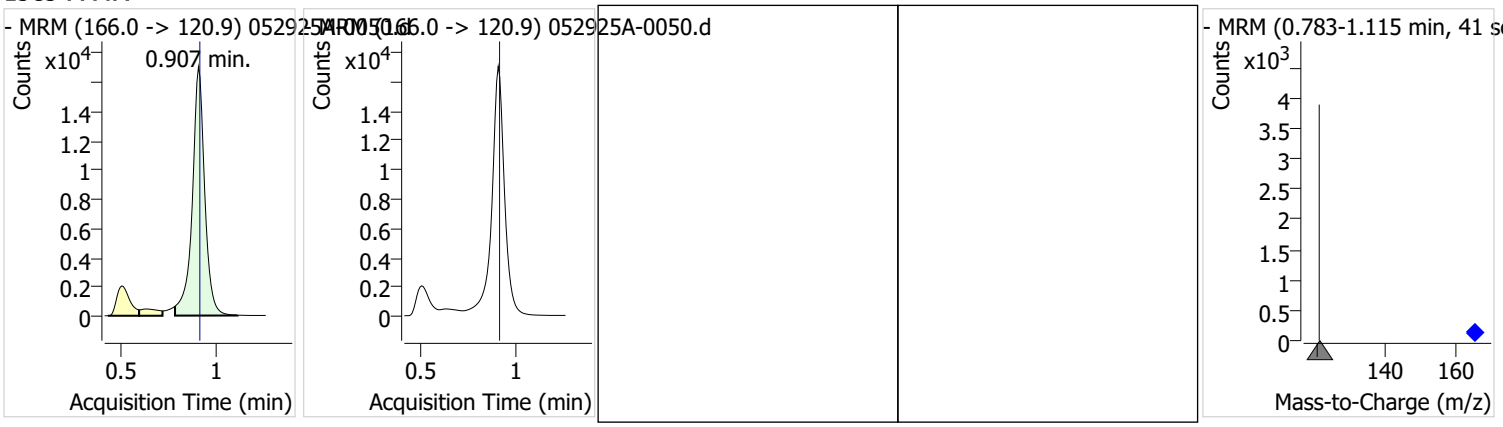
TDCA



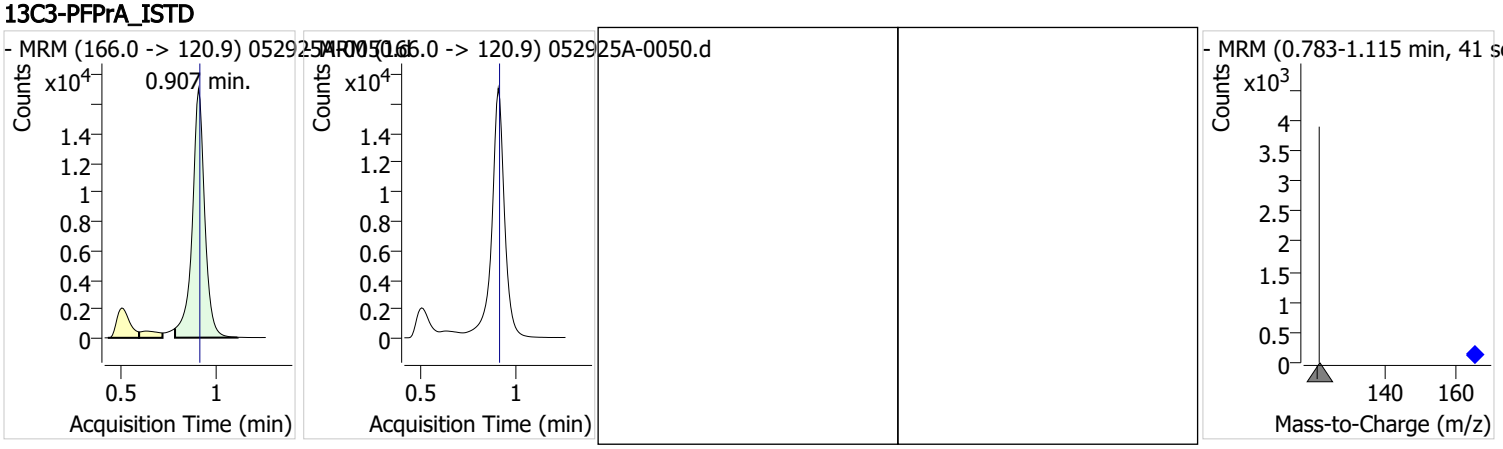
PFPrA



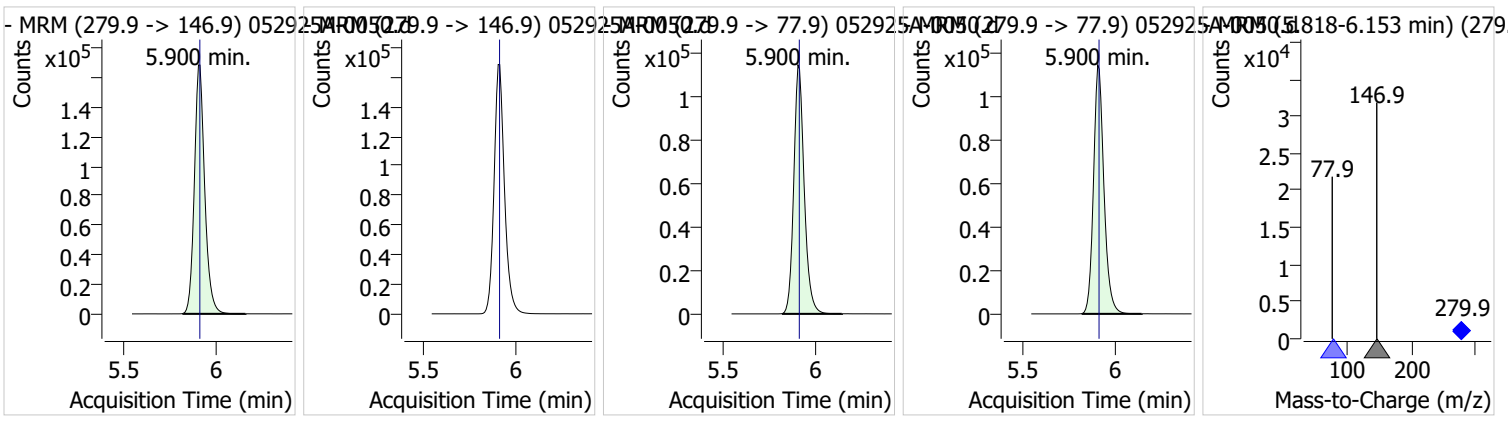
13C3-PFPrA



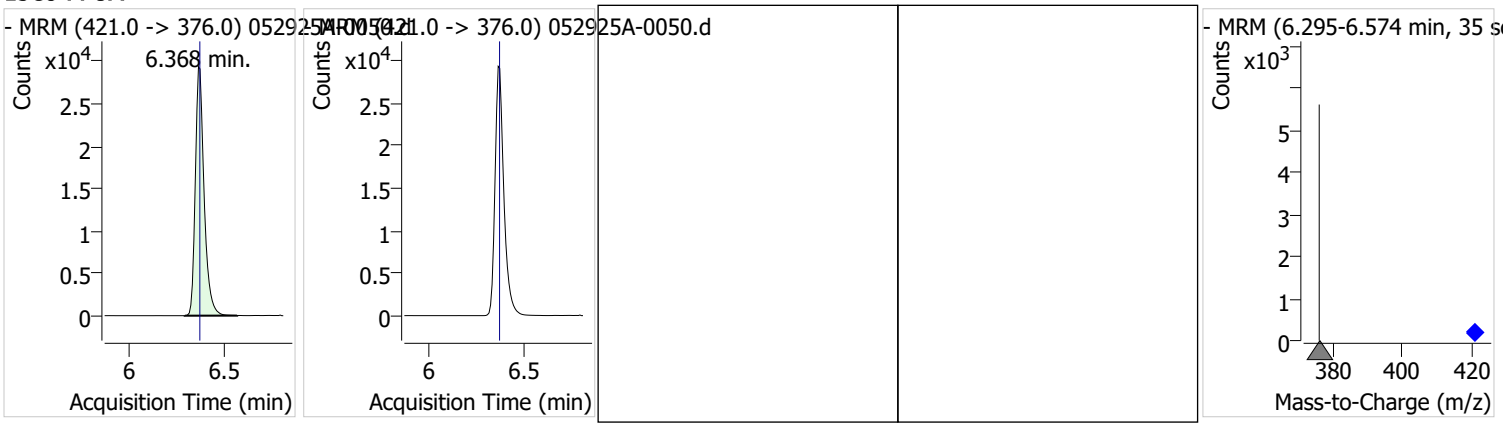
13C3-PFPrA_ISTD



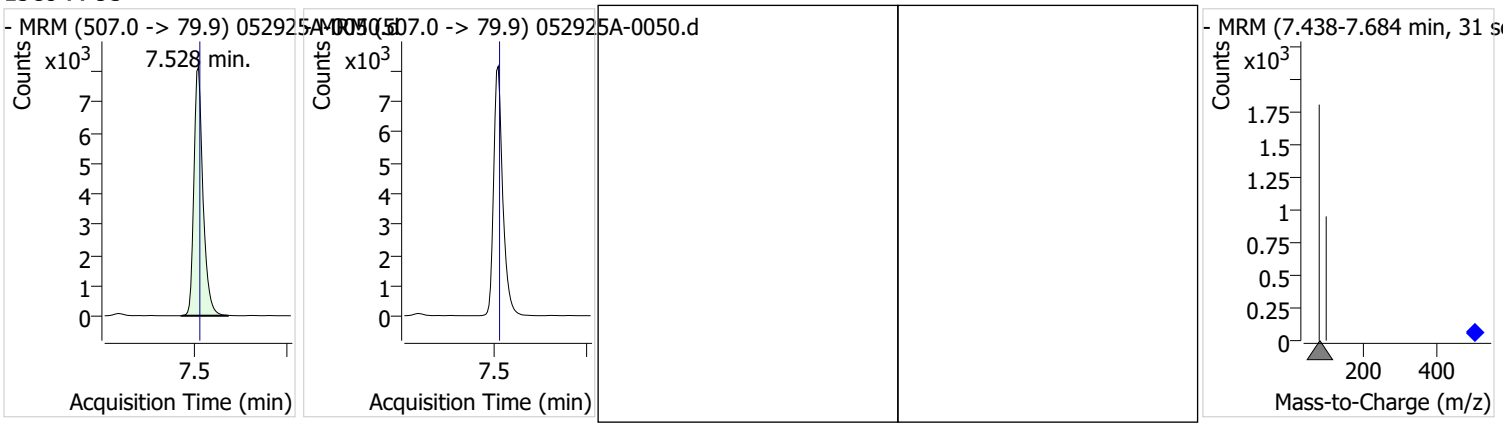
TFSI



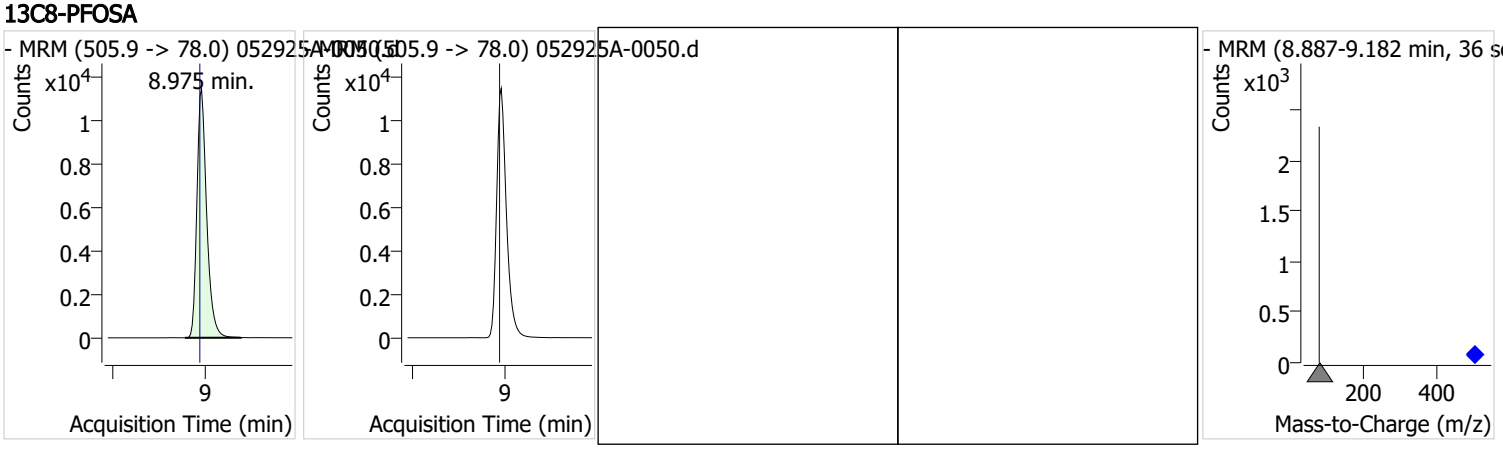
13C8-PFOA



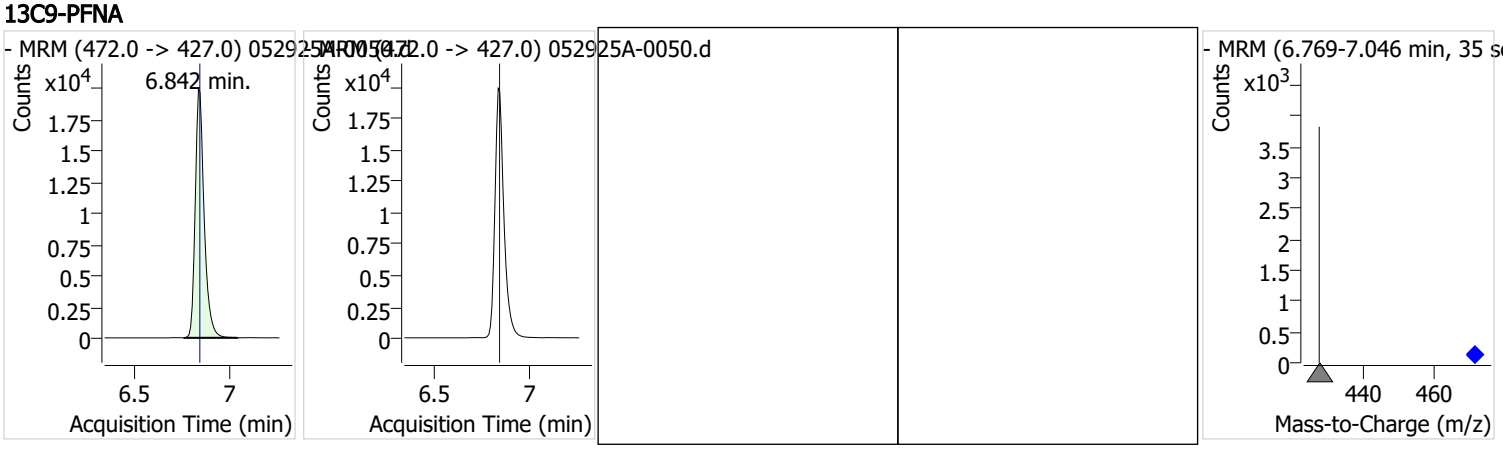
13C8-PFOS



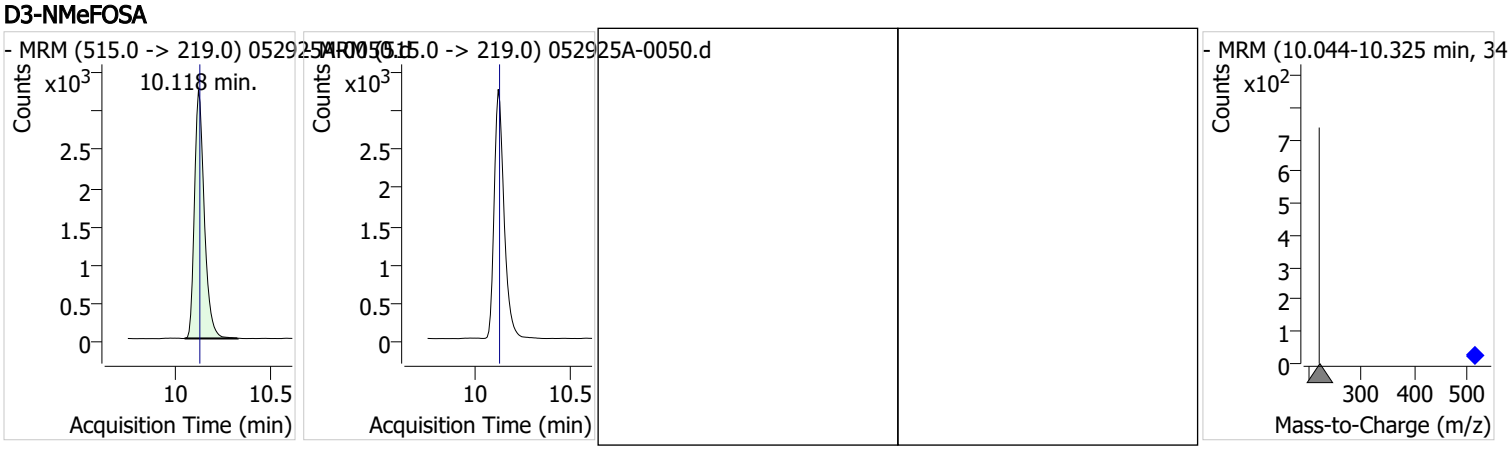
13C8-PFOSA



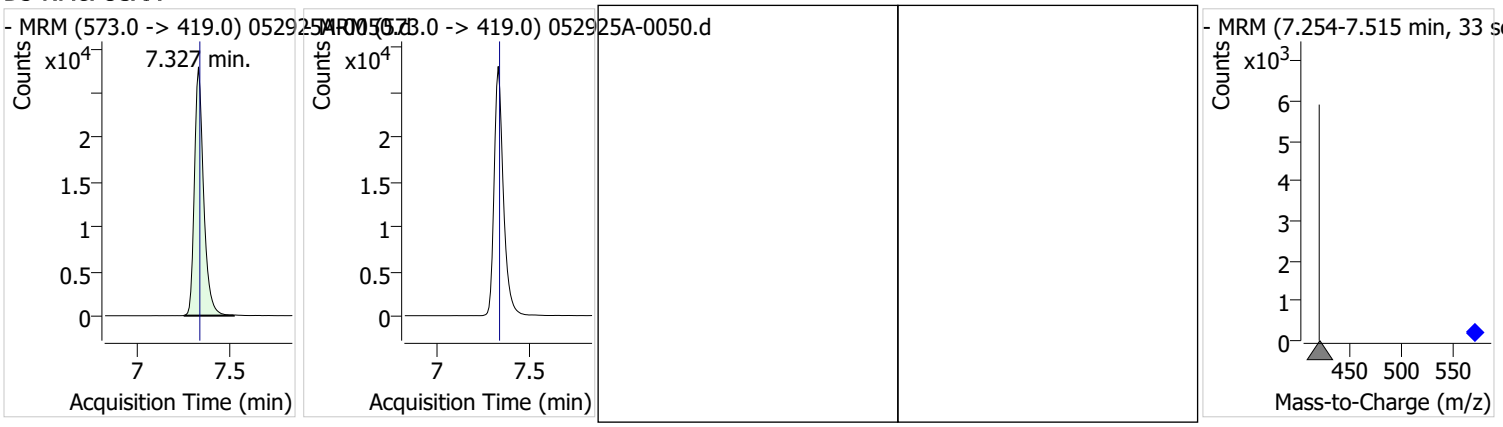
13C9-PFNA



D3-NMeFOSA



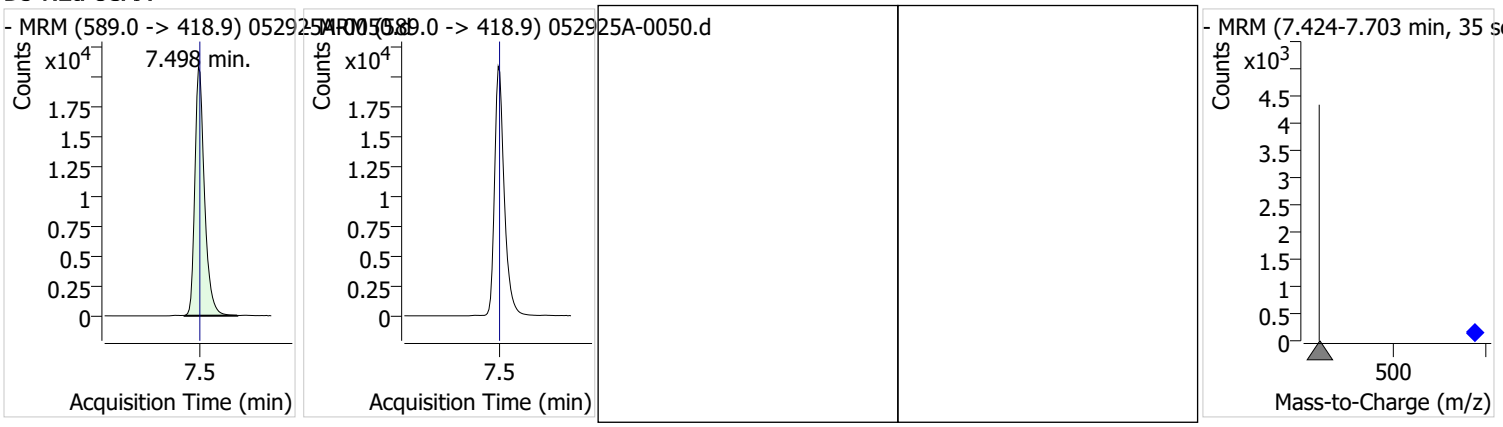
D3-NMeFOSAA



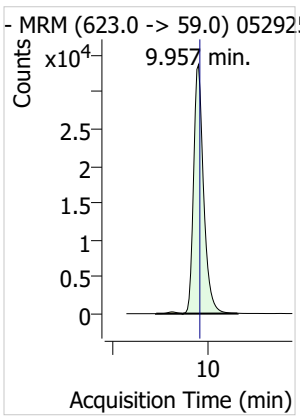
D5-NEtFOSA

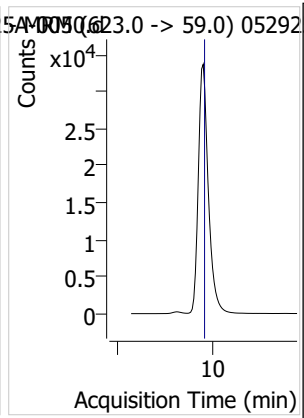


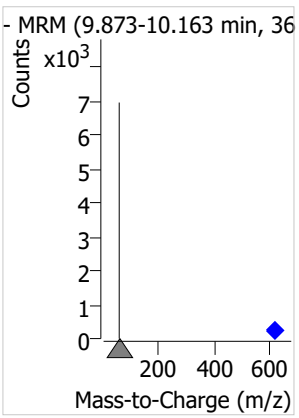
D5-NEtFOSAA



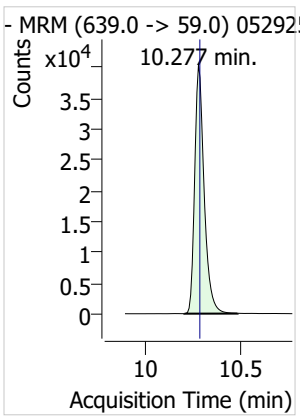
D7-NMeFOSE

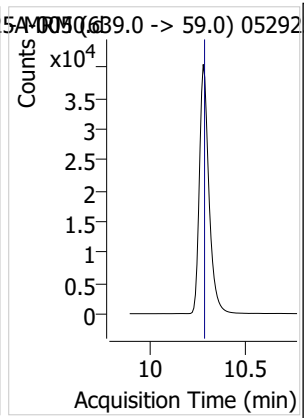


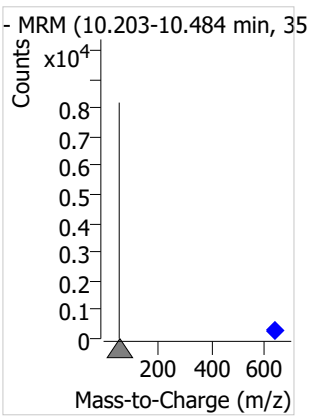




D9-NEtFOSE

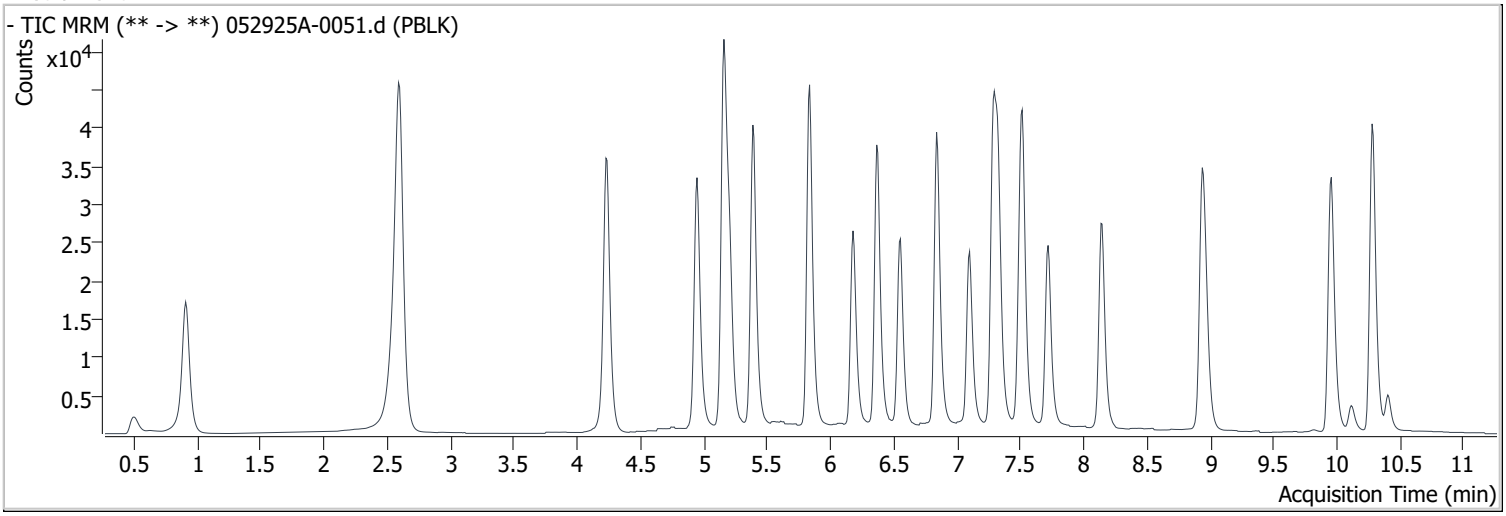






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 9:56 PM	**Data File**	052925A-0051.d
Sample Type	Blank	**Sample Name**	PBLK
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment		**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	84720	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	32886	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	24461	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	144400	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	22149	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.589	181860	2078.24		13C3-PFBA_ISTD	2.592	74174	10.0736	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.519	27665	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.519	27665	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.519	27665	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	32886	140090.67		18O2-PFHxS_ISTD	6.559	28372	6.7315	ng/ml			
13C2-6:2FTS	6.180	24461	2764.19		18O2-PFHxS_ISTD	6.559	28372	6.6455	ng/ml			
13C2-8:2FTS	7.100	22149	52602.29		18O2-PFHxS_ISTD	6.559	28372	5.9946	ng/ml			
13C2-PFDoA	8.138	92614	3374.72		13C2-PFDA_ISTD	7.290	58913	1.2582	ng/ml			
13C2-PFDA	7.290	58913	63077.71					1.2117	ng/ml			
13C2-PFHxA	5.162	73347	21765.47					2.3797	ng/ml			
13C2-PFTeDA	8.936	101818	9996.98		13C2-PFDA_ISTD	7.290	58913	1.2311	ng/ml			
13C4-PFOS	7.520	27975	8416.09					2.5379	ng/ml			
13C3-HFPODA	5.394	84720	26145.97		13C2-PFHxA_ISTD	5.162	73347	10.8107	ng/ml			
13C3-PFBS	5.205	47695	13471.62		18O2-PFHxS_ISTD	6.559	28372	2.4622	ng/ml			
13C3-PFHxS	6.560	35569	67415.02		18O2-PFHxS_ISTD	6.559	28372	2.7118	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	70944	-	ng/ml			
584.0 -> 526.0				*								

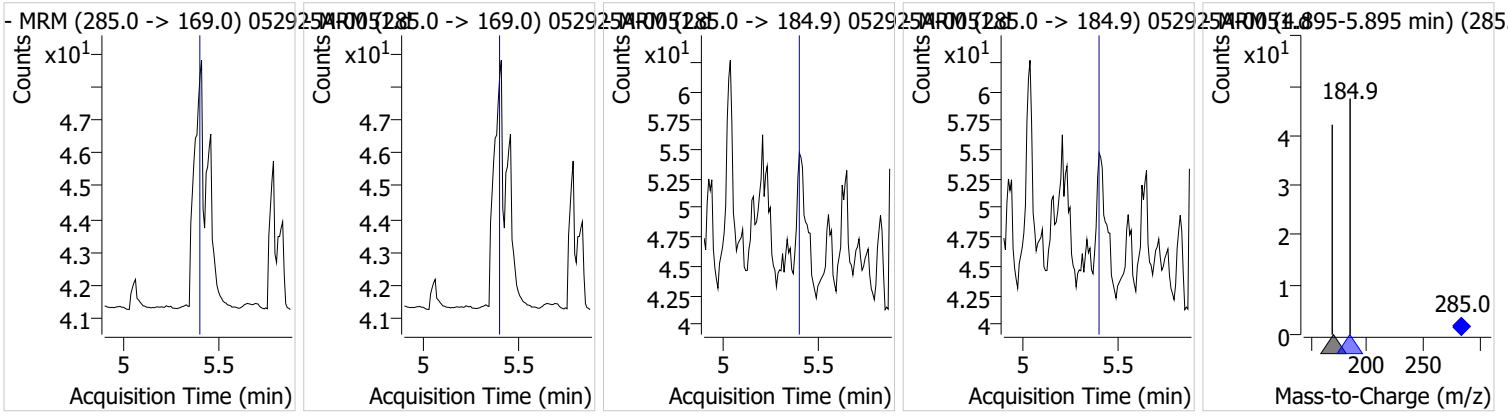
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	144400	44277.87		13C2-PFHxA_ISTD	5.162	73347	2.7723	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.327	91979	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.589	181860	-	ng/ml			
13C5-PFHxA	5.161	85909	25587.85		13C2-PFHxA_ISTD	5.162	73347	2.6384	ng/ml			
PFBS					13C3-PFBS_ISTD	5.205	47695	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	11560	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.289	70390	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.138	92614	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	14029	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.839	144400	-	ng/ml			
362.9 -> 169.0				*								
PFHxA					13C5-PFHxA_ISTD	5.161	85909	-	ng/ml			
313.0 -> 118.9				*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	121107	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.560	35569	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	65640	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	140756	-	ng/ml			
PFOA	6.300	500	5.64		13C8-PFOA_ISTD	6.368	97759	0.0108	ng/ml			
413.0 -> 169.0	6.353	56	15.27	*11.1								
PFOS	7.399	338	73.11		13C8-PFOS_ISTD	7.519	27665	0.0206	ng/ml			
499.0 -> 99.0	7.402	211	42.77	62.6								
PFPeA					13C5-PFPeA_ISTD	4.229	136207	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.589	181860	-	ng/ml			
13C5-PFPeA	4.229	136207	14198.29		13C2-PFHxA_ISTD	5.162	73347	5.2435	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.229	136207	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.138	92614	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	85909	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	70390	4839.20		13C2-PFDA_ISTD	7.290	58913	1.2689	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	85909	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.967	40528	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	78626	23427.72		13C2-PFDA_ISTD	7.290	58913	1.2691	ng/ml			
13C4-PFOA	6.369	20473	244039.51					2.4760	ng/ml			
PFDS					13C8-PFOS_ISTD	7.519	27665	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.519	27665	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.560	35569	-	ng/ml			
349.0 -> 98.9				*								
PFTeDA	8.937	302	4.71		13C2-PFTeDA_ISTD	8.936	101818	0.0032	ng/ml			

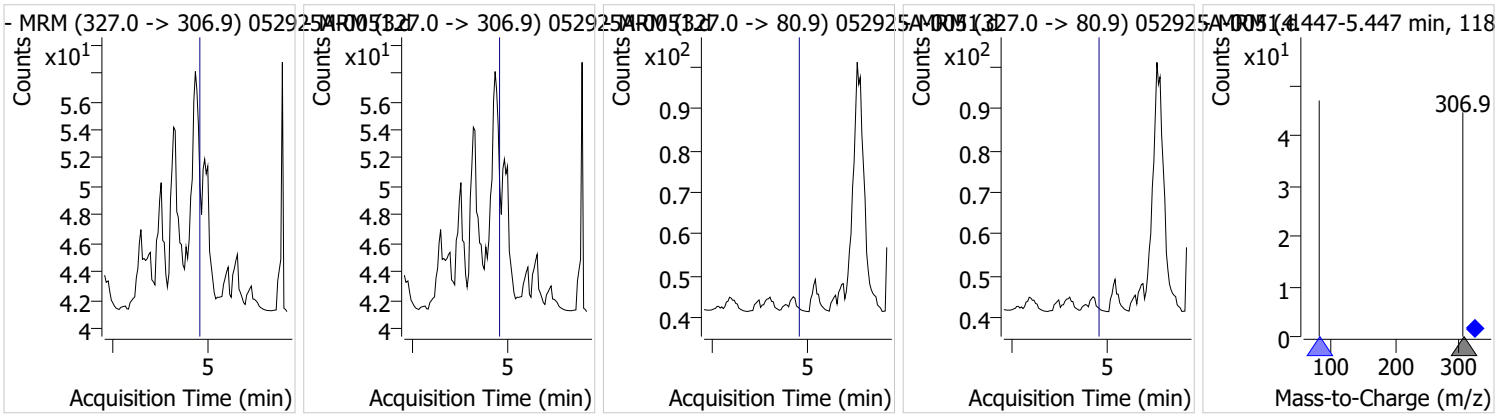
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9	8.929	19	3.63	6.2								
PFUnA					13C7-PFUnA_ISTD	7.721	78626	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.592	74174	1746.50					4.8842	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.229	136207	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	85909	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	65640	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	57950	135920.01					1.2254	ng/ml			
18O2-PFHxS	6.559	28372	73487.85					2.4977	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.519	27665	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.519	27665	-	ng/ml			
499.0 -> 124.0				*								
PFPrA					13C3-PFPrA_ISTD	0.907	79526	-	ng/ml			
13C3-PFPrA	0.907	79526	10191.76		13C3-PFBA_ISTD	2.592	74174	9.9108	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	84720	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	97759	138740.23		13C4-PFOA_ISTD	6.369	20473	2.5486	ng/ml			
13C8-PFOS	7.519	27665	8499.20		13C4-PFOS_ISTD	7.520	27975	2.5285	ng/ml			
13C8-PFOSA	8.967	40528	11311.20		13C4-PFOS_ISTD	7.520	27975	2.5761	ng/ml			
13C9-PFNA	6.842	65640	20206.58		13C5-PFNA_ISTD	6.842	57950	1.2820	ng/ml			
D3-NMeFOSA	10.118	11560	2539.02		13C4-PFOS_ISTD	7.520	27975	2.3063	ng/ml			
D3-NMeFOSAA	7.327	91979	26683.66		13C4-PFOS_ISTD	7.520	27975	5.2860	ng/ml			
D5-NEtFOSA	10.405	14029	1655.12		13C4-PFOS_ISTD	7.520	27975	2.3283	ng/ml			
D5-NEtFOSAA	7.498	70944	20200.49		13C4-PFOS_ISTD	7.520	27975	5.3686	ng/ml			
D7-NMeFOSE	9.957	121107	8153.29		13C4-PFOS_ISTD	7.520	27975	25.1674	ng/ml			
D9-NEtFOSE	10.277	140756	7912.61		13C4-PFOS_ISTD	7.520	27975	26.3419	ng/ml			

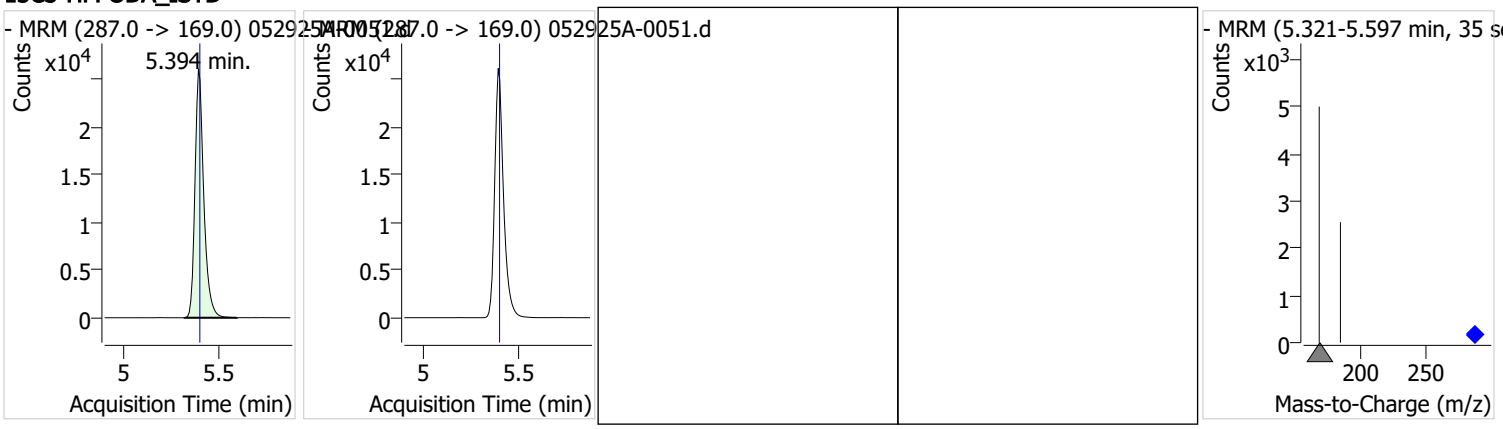
HFPO-DA



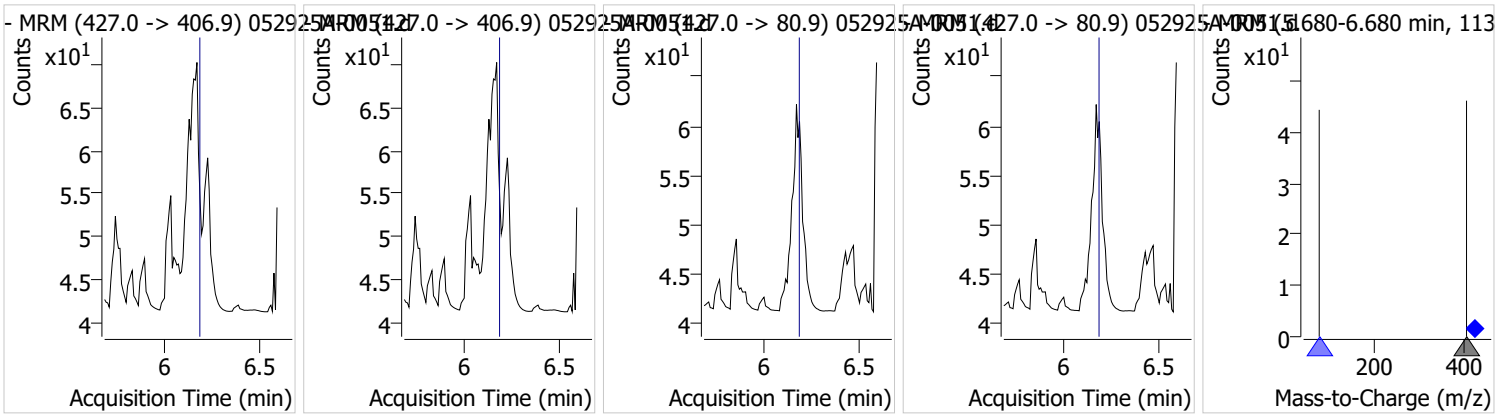
4:2FTS



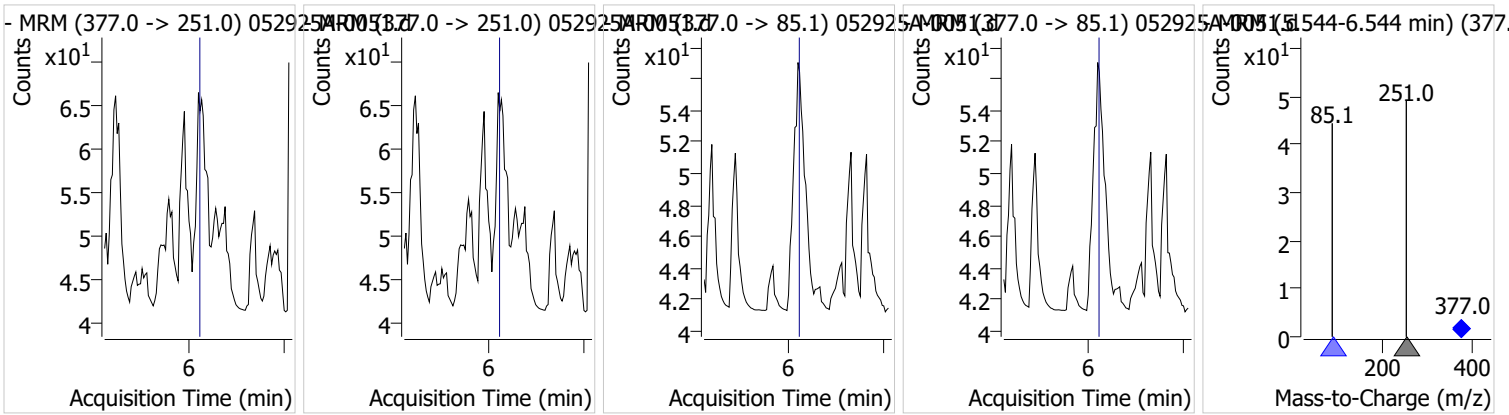
13C3-HFPODA_ISTD



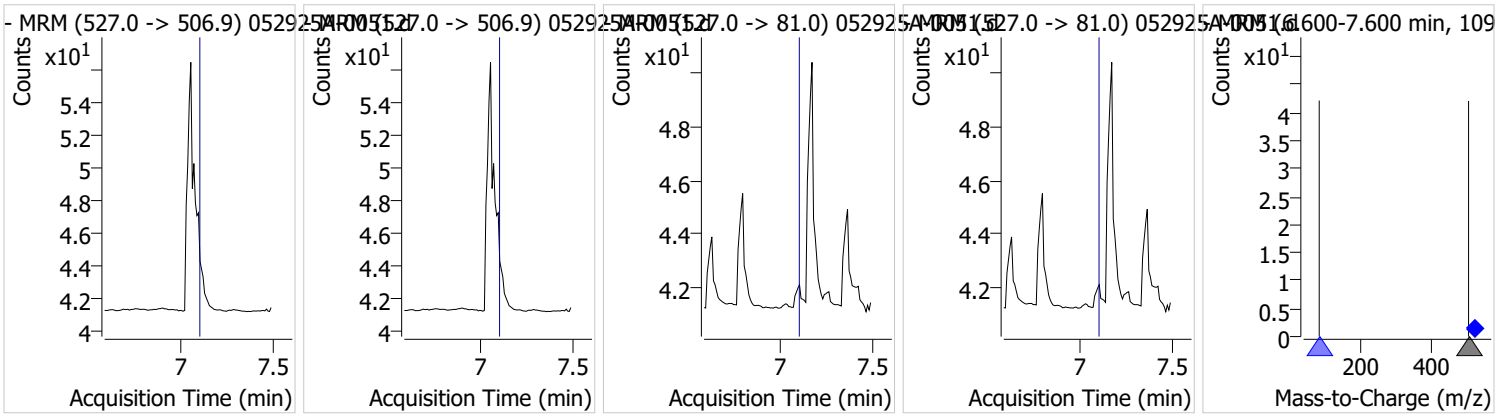
6:2FTS



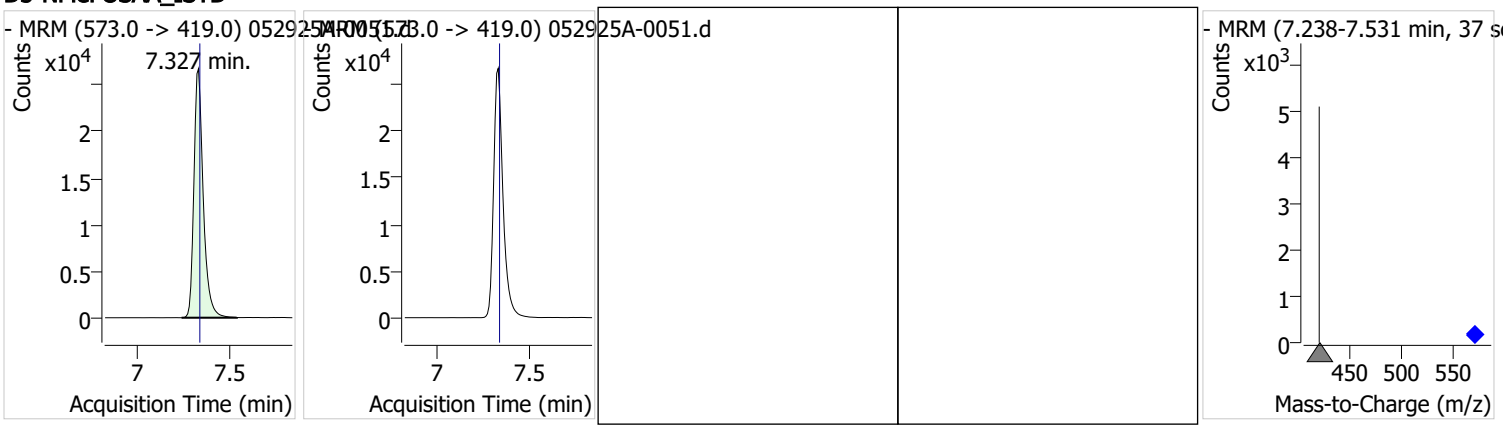
ADONA



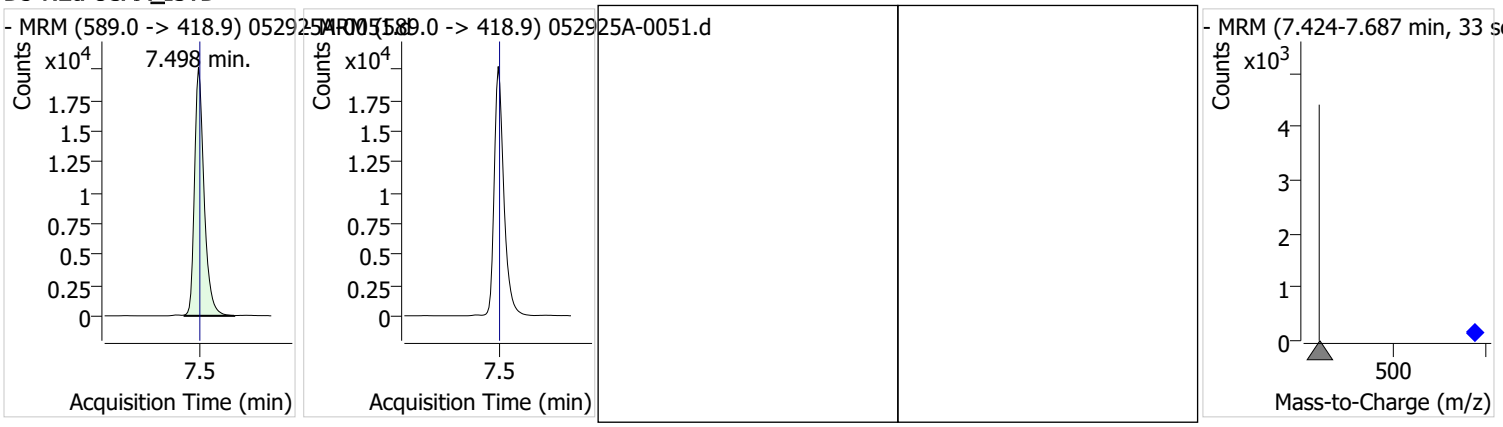
8:2FTS



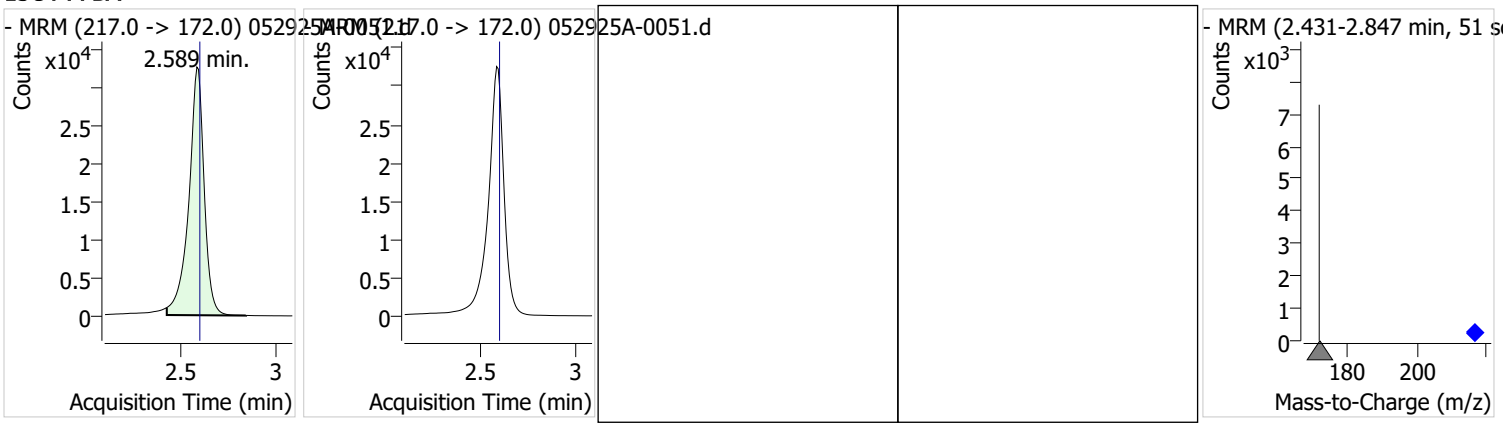
D3-NMeFOSAA_ISTD



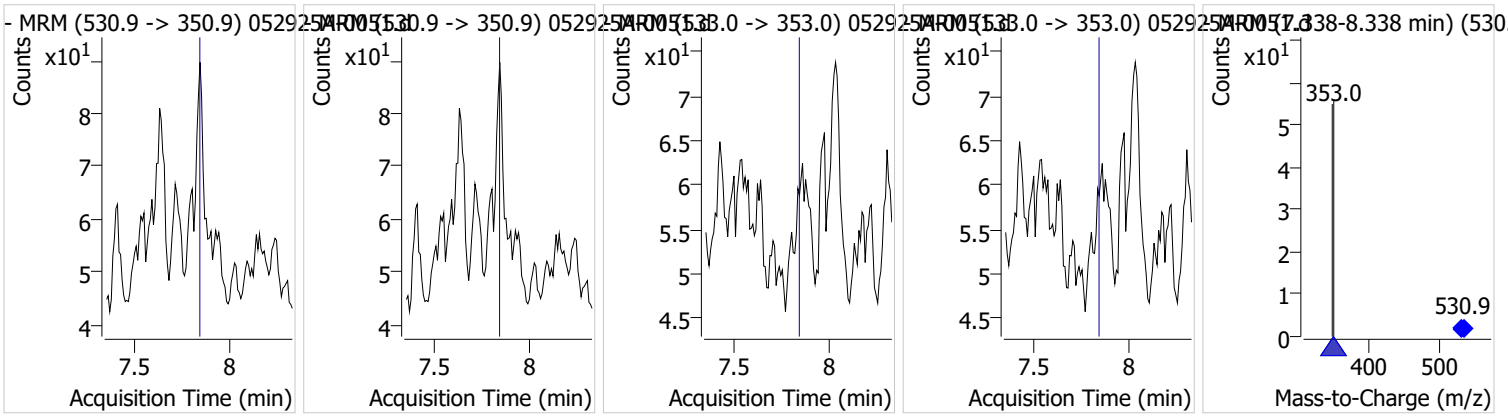
D5-NEtFOSAA_ISTD



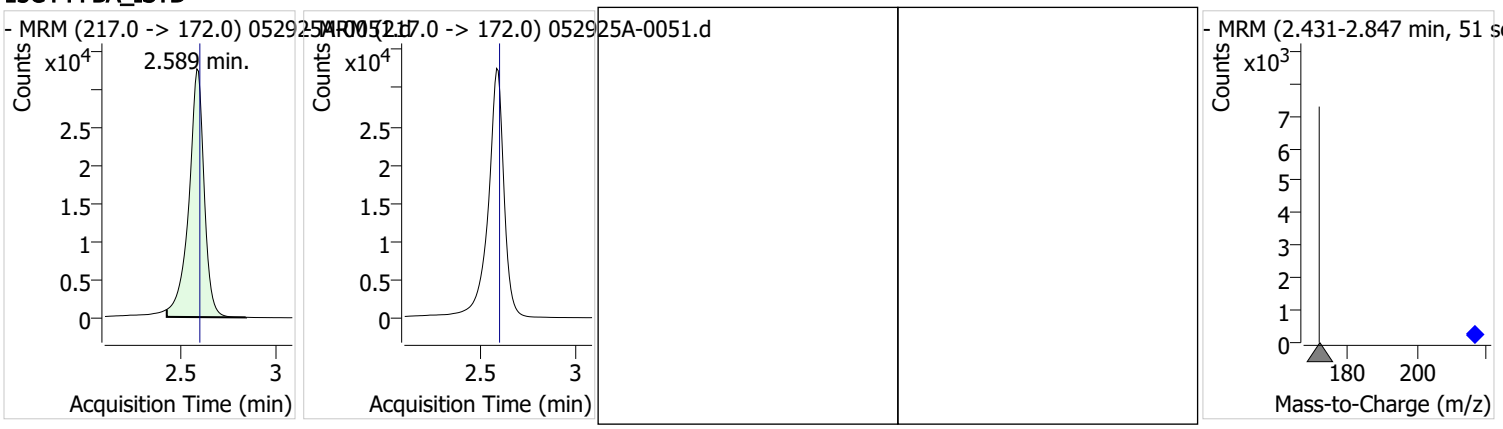
13C4-PFBA



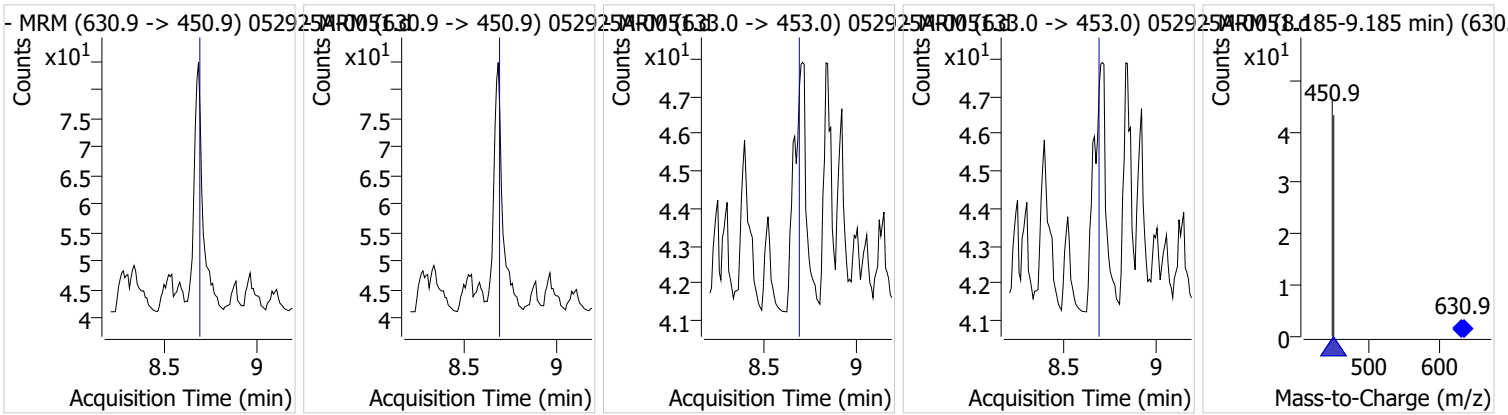
9Cl-PF3ONS



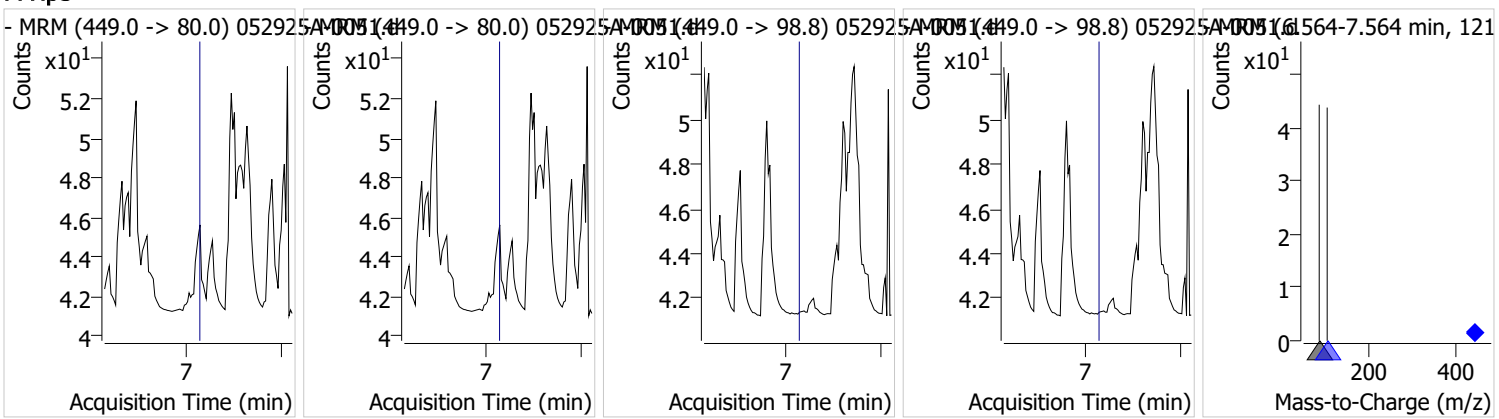
13C4-PFBA_ISTD



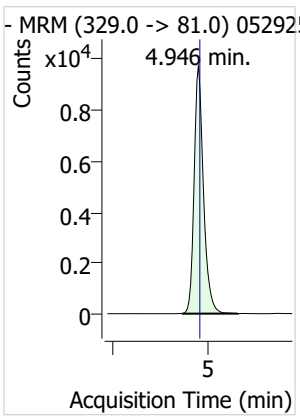
11Cl-PF3OUdS

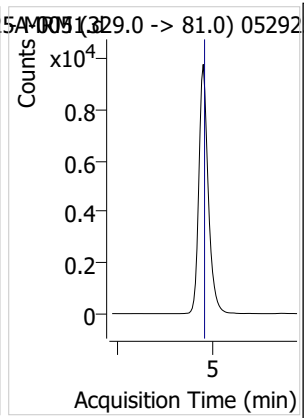


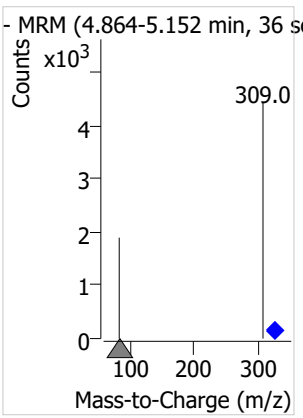
PFHpS



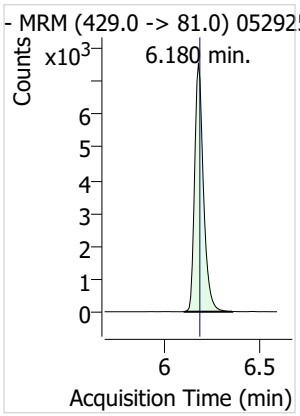
13C2-4:2FTS

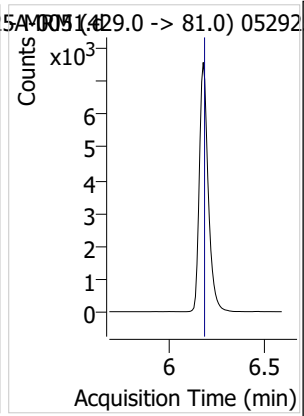


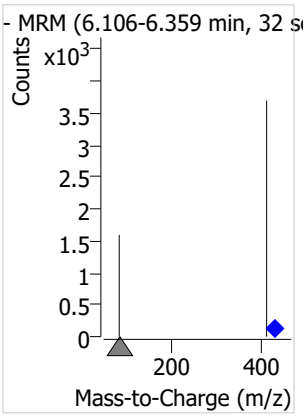




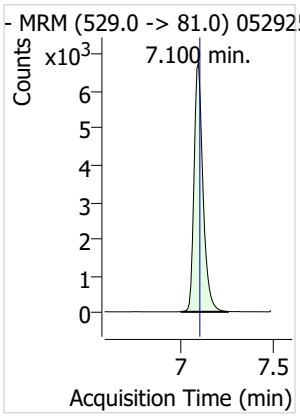
13C2-6:2FTS

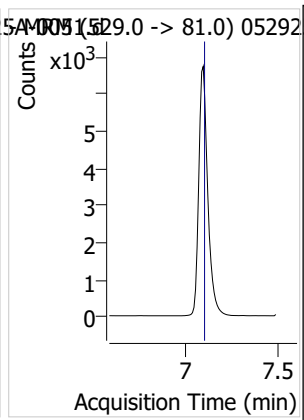


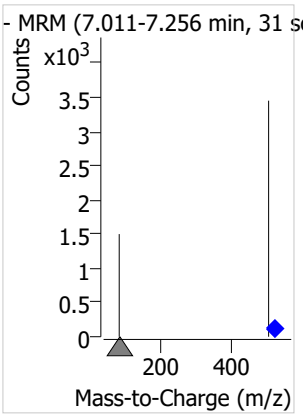




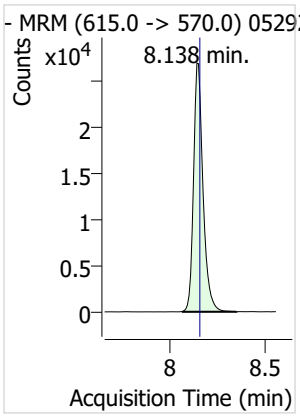
13C2-8:2FTS

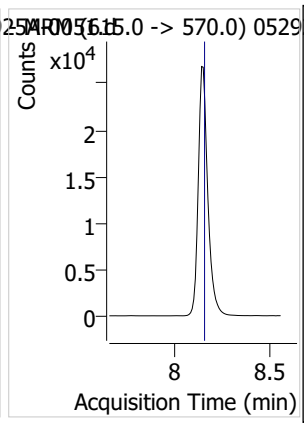


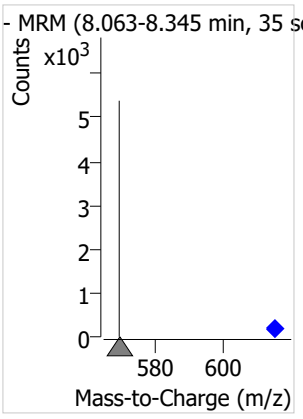




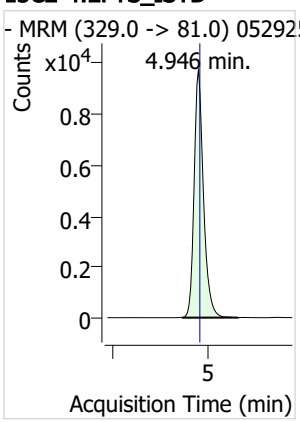
13C2-PFDoA

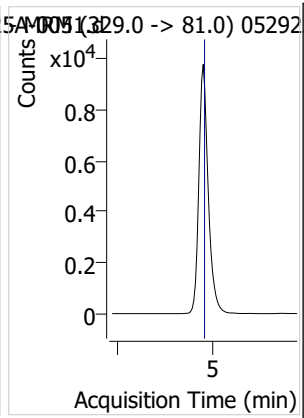


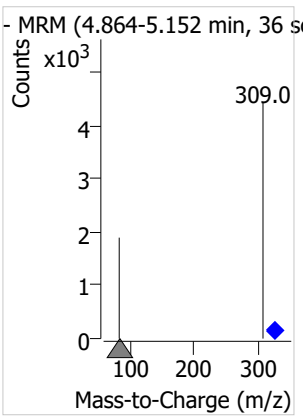




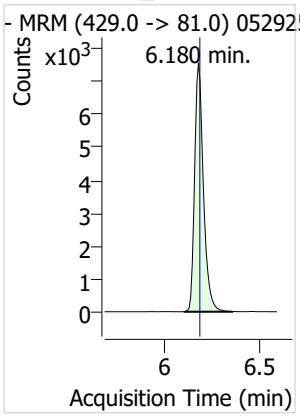
13C2-4:2FTS_ISTD

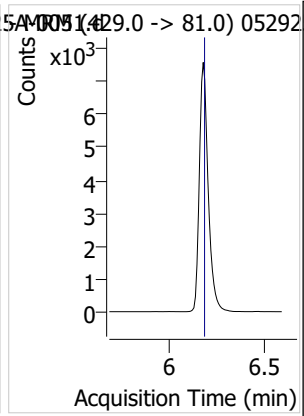


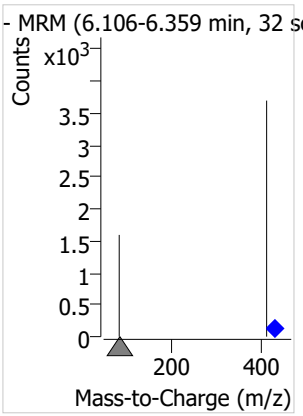




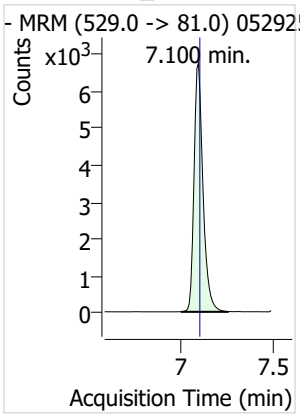
13C2-6:2FTS_ISTD

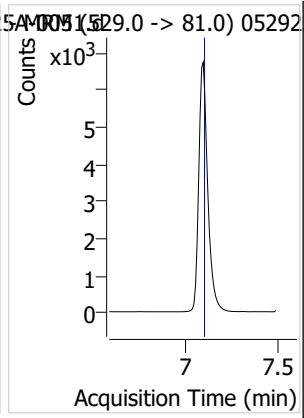


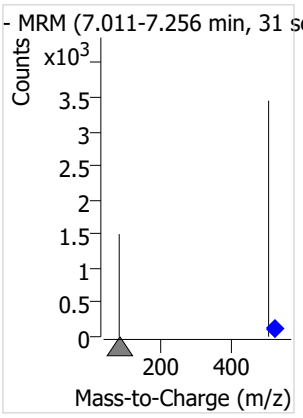




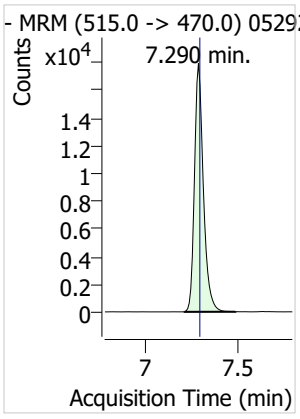
13C2-8:2FTS_ISTD

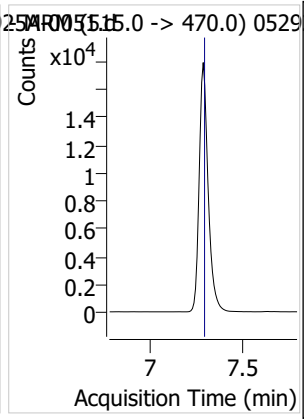


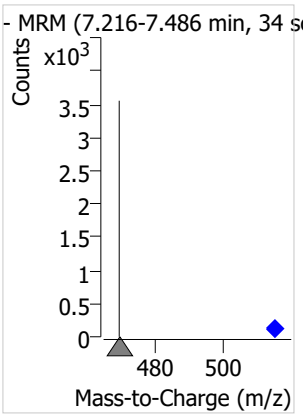




13C2-PFDA



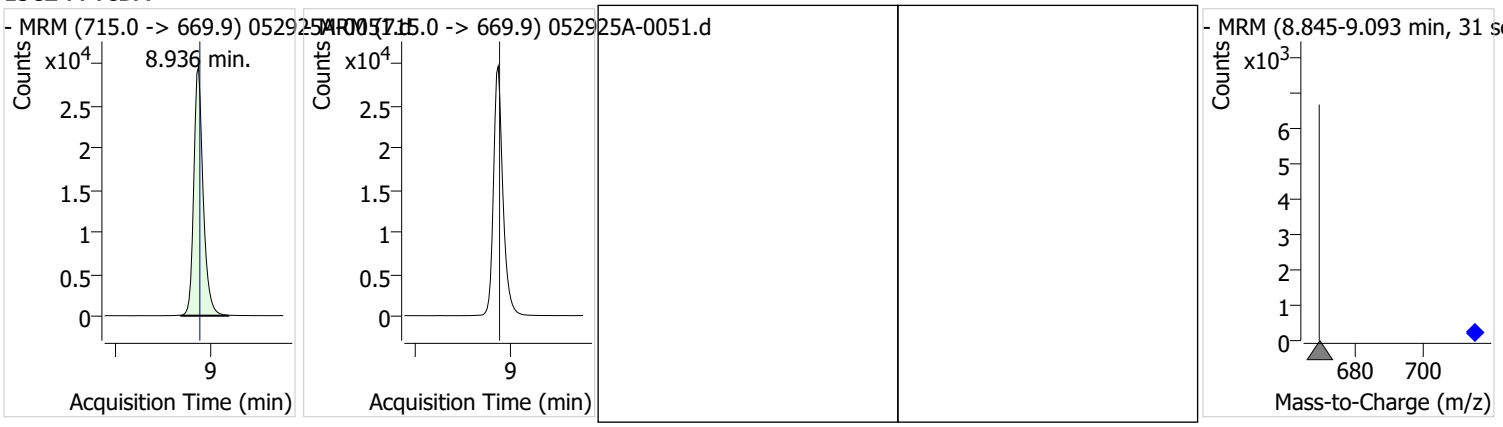




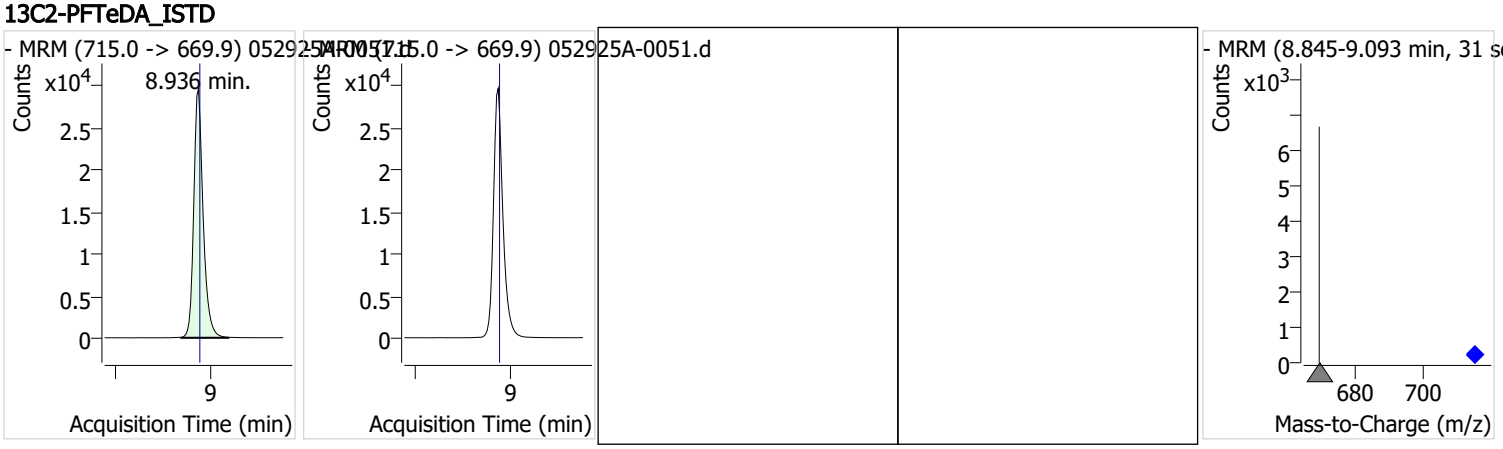
13C2-PFHxA



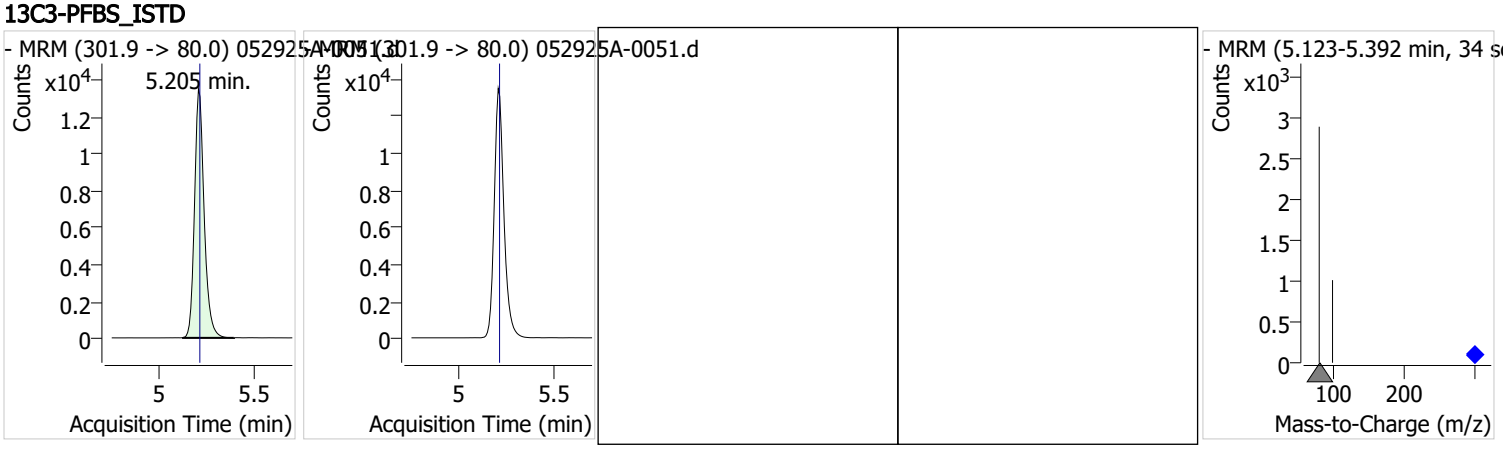
13C2-PFTeDA



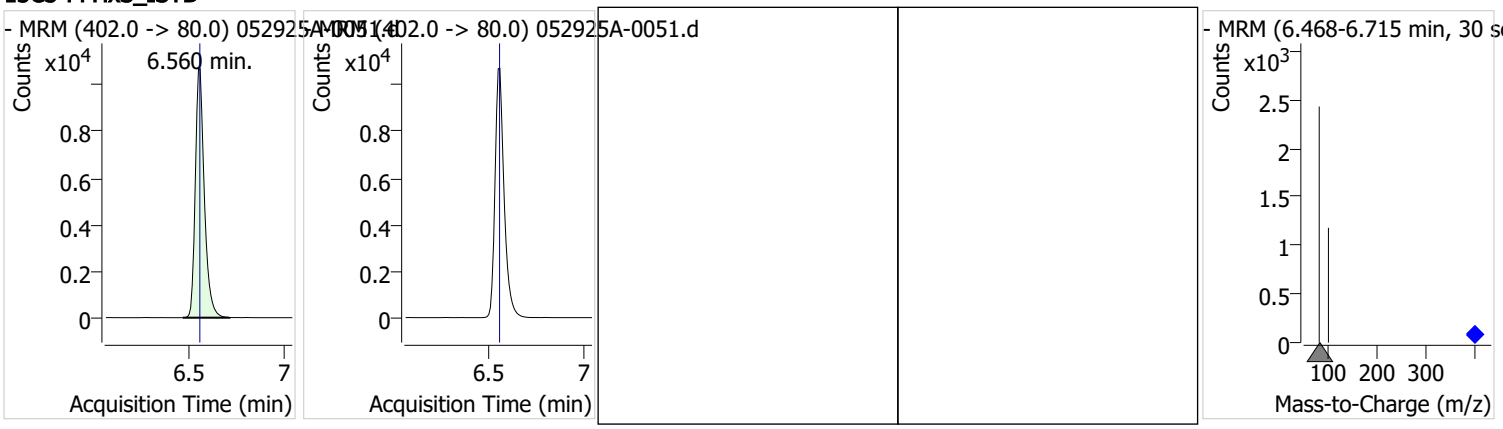
13C2-PFTeDA_ISTD



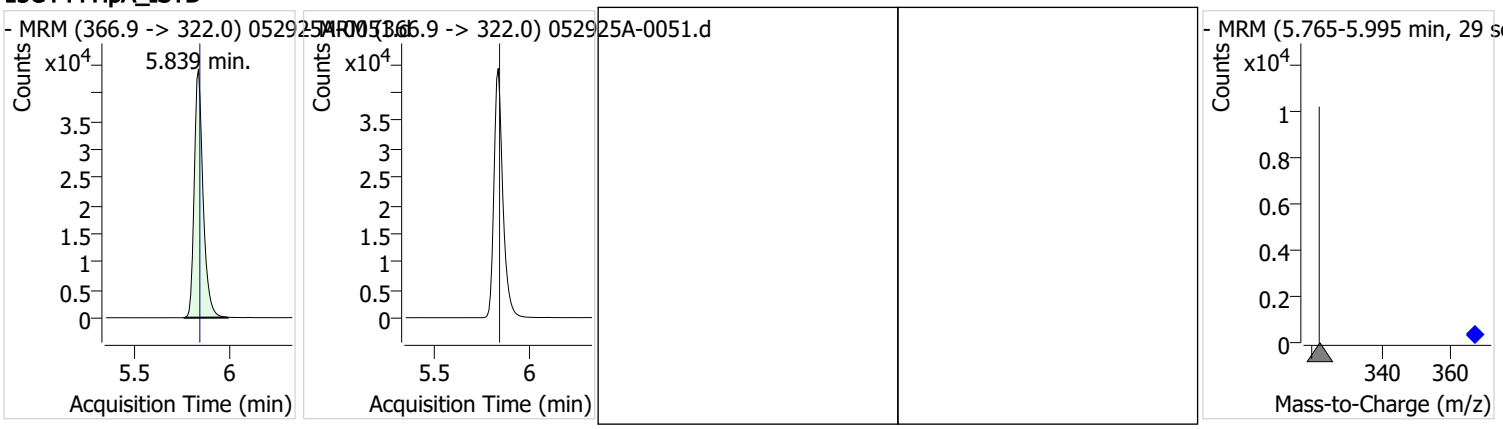
13C3-PFBS_ISTD



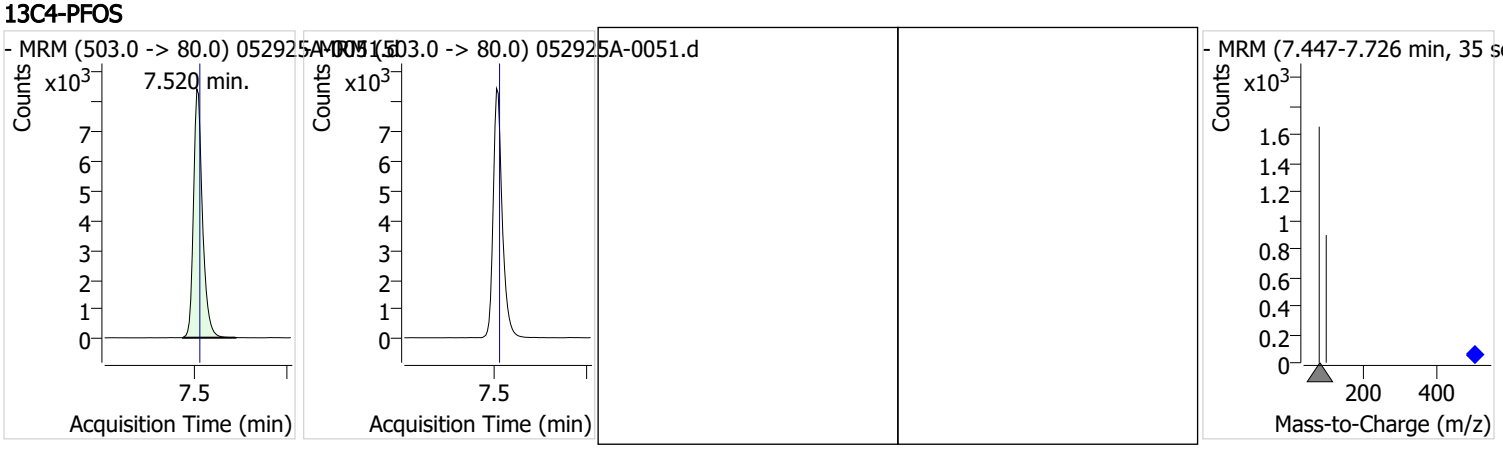
13C3-PFHxS_ISTD



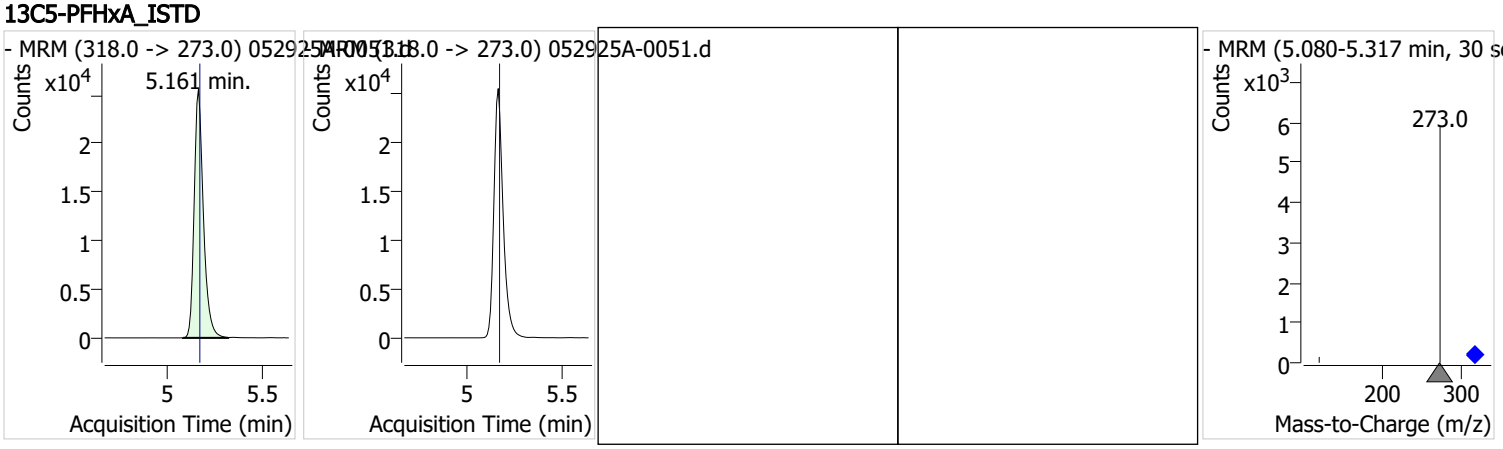
13C4-PFHpA_ISTD



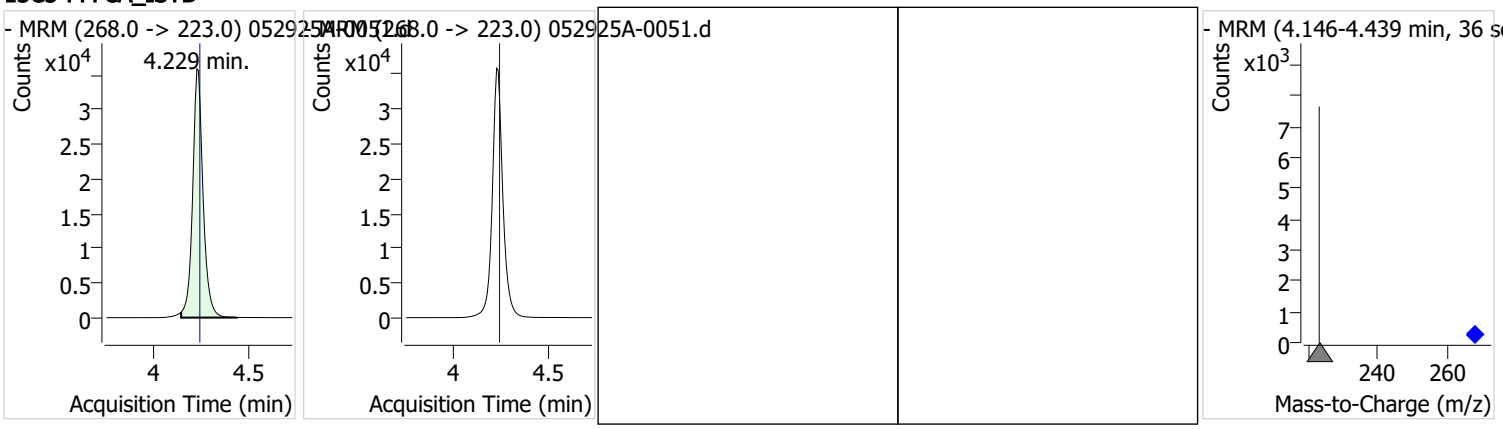
13C4-PFOS



13C5-PFHxA_ISTD



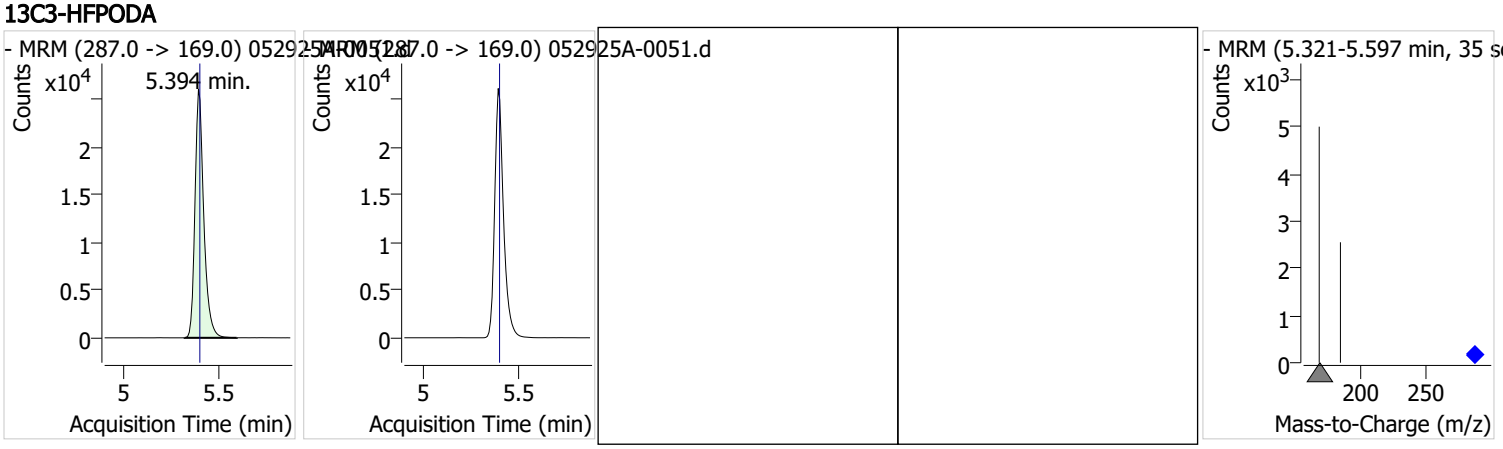
13C5-PFPeA_ISTD



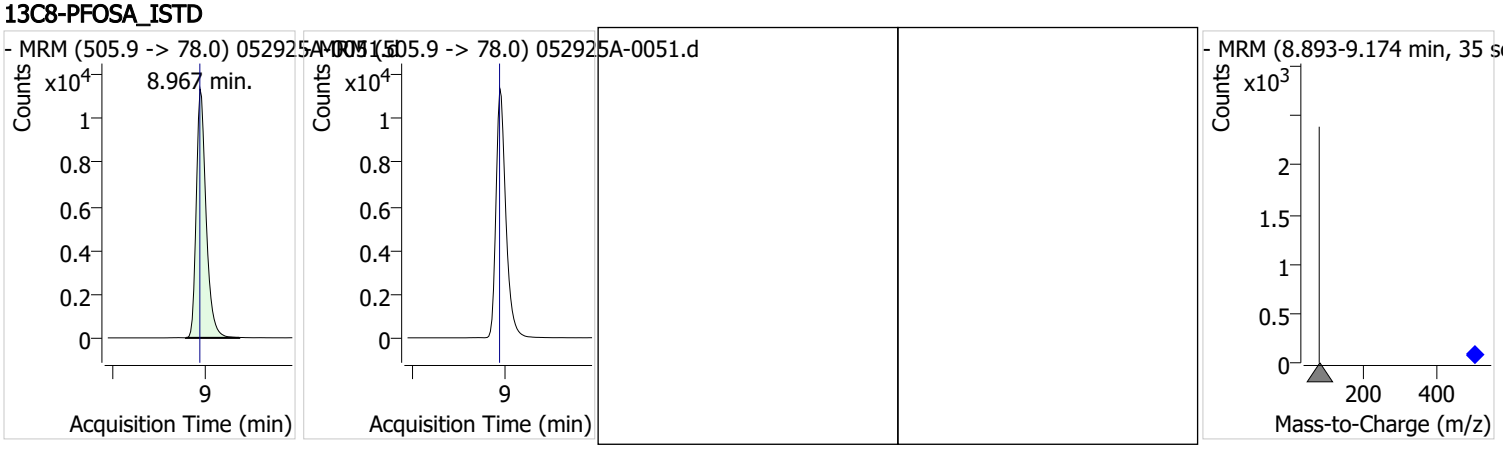
13C6-PFDA_ISTD



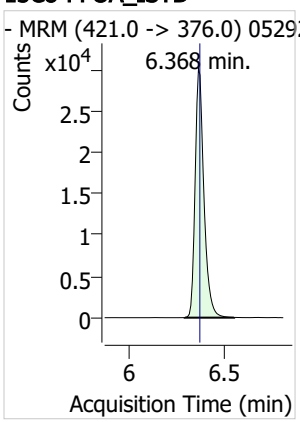
13C3-HFPODA

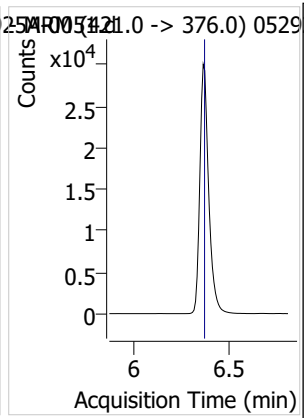


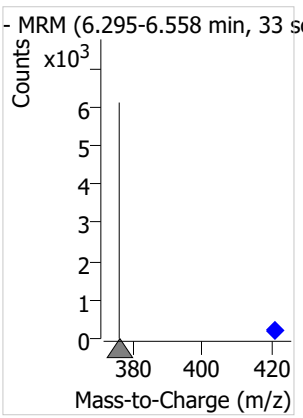
13C8-PFOSA_ISTD



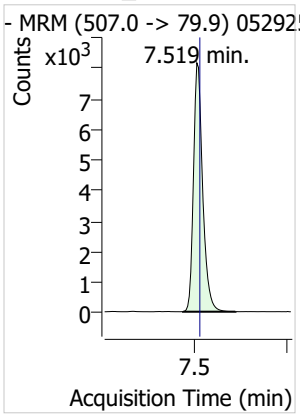
13C8-PFOA_ISTD

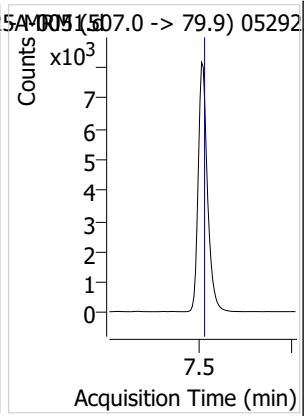


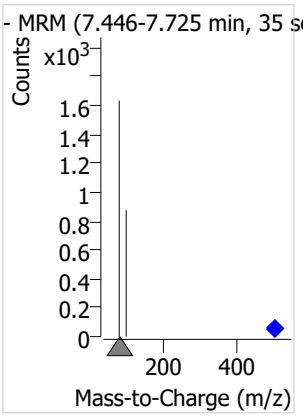




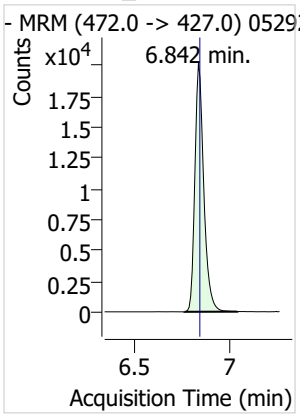
13C8-PFOS_ISTD

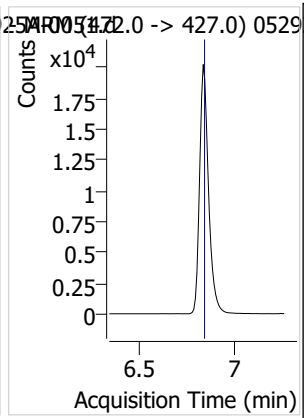


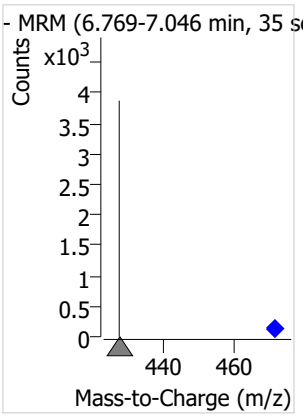




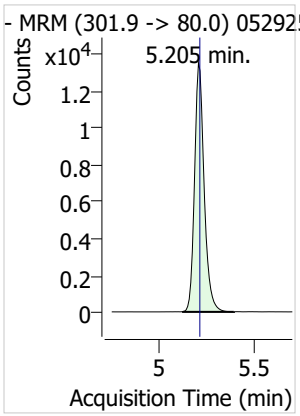
13C9-PFNA_ISTD

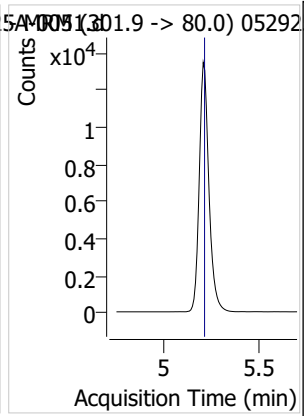


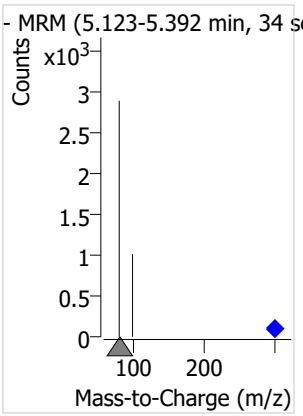




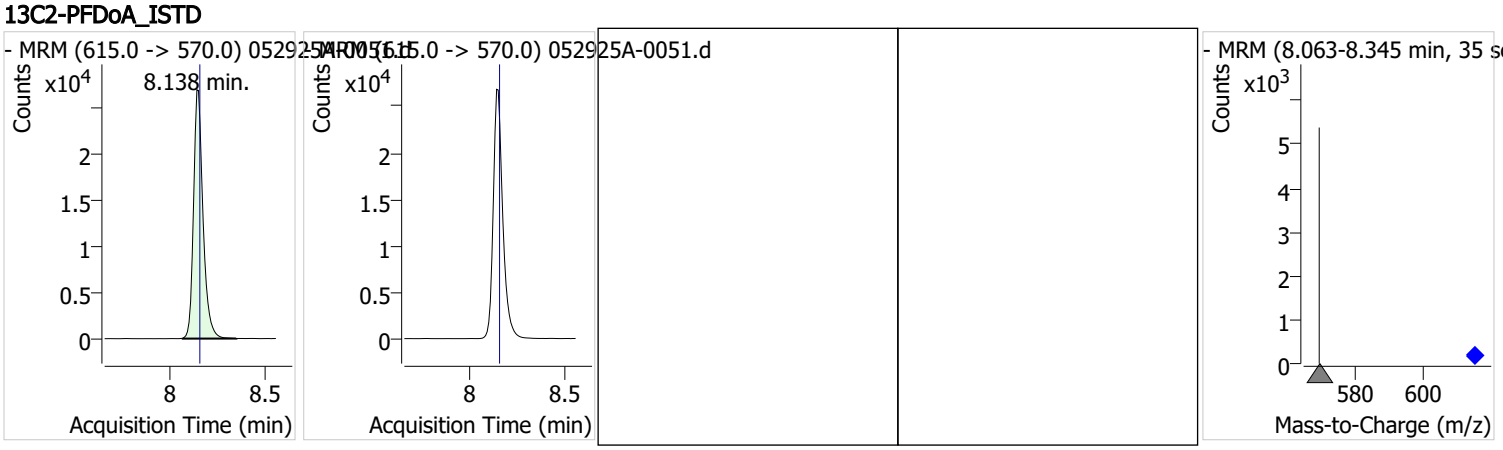
13C3-PFBS



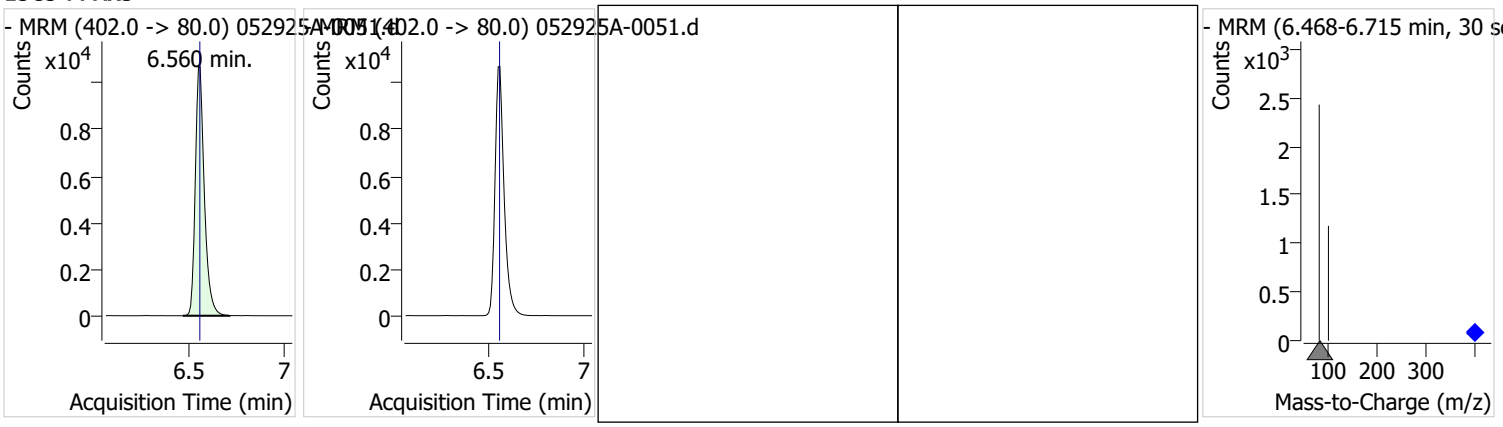




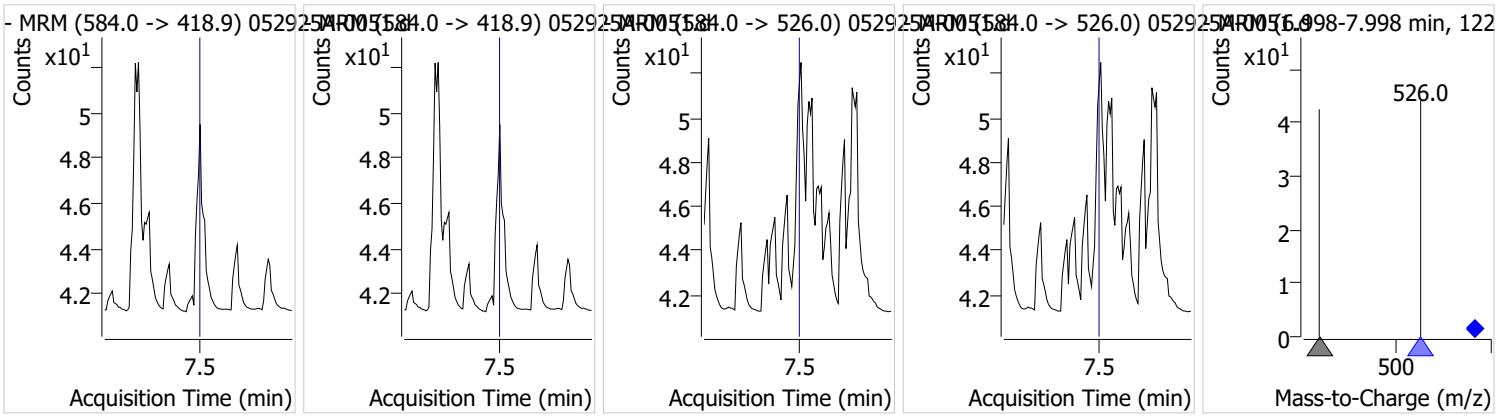
13C2-PFDoA_ISTD



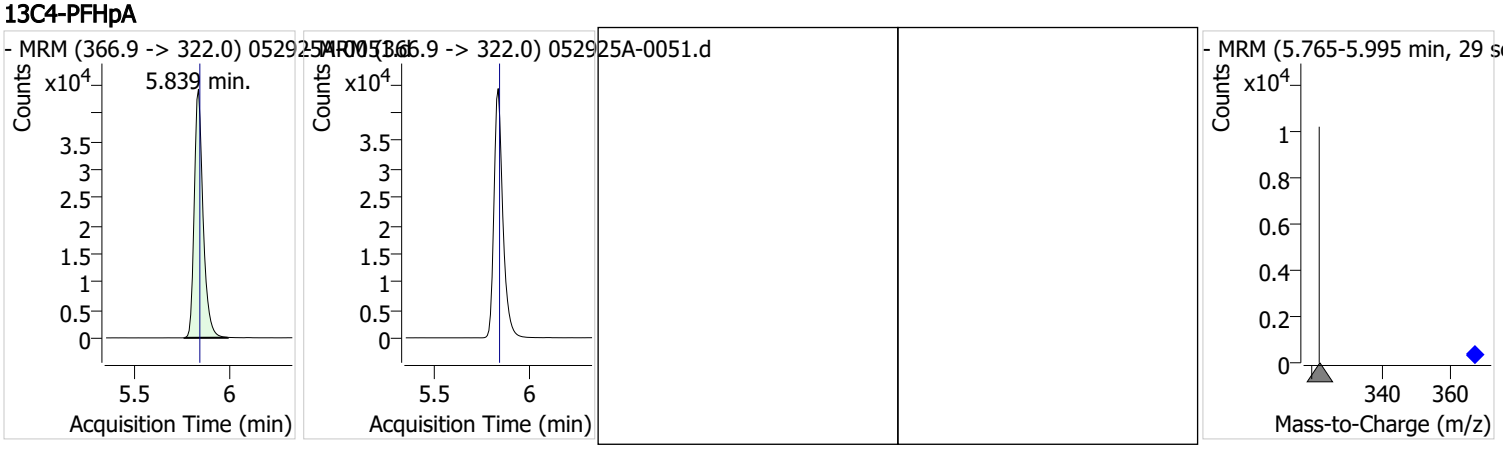
13C3-PFHxS



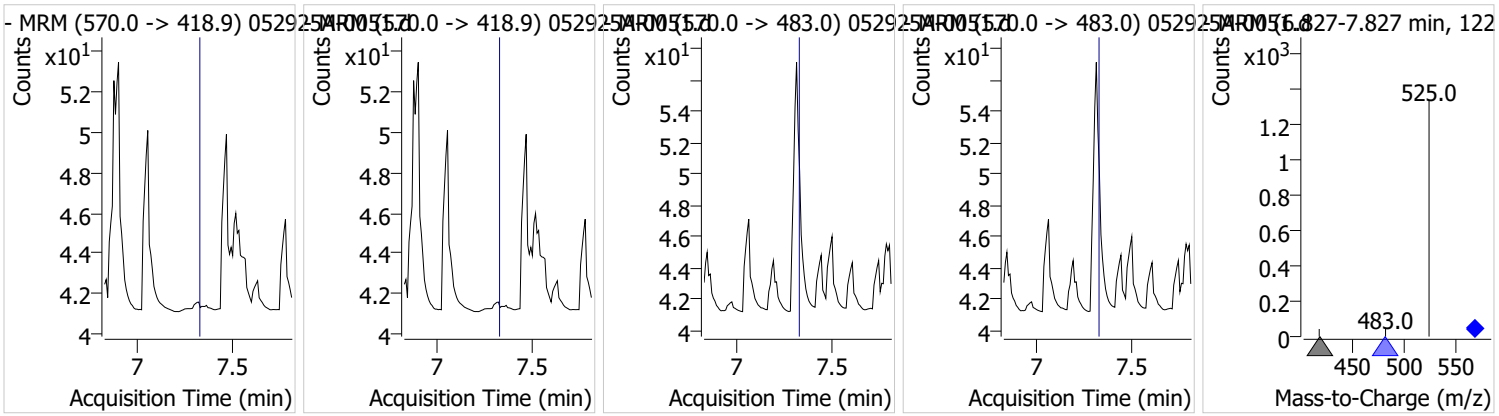
NEtFOSAA



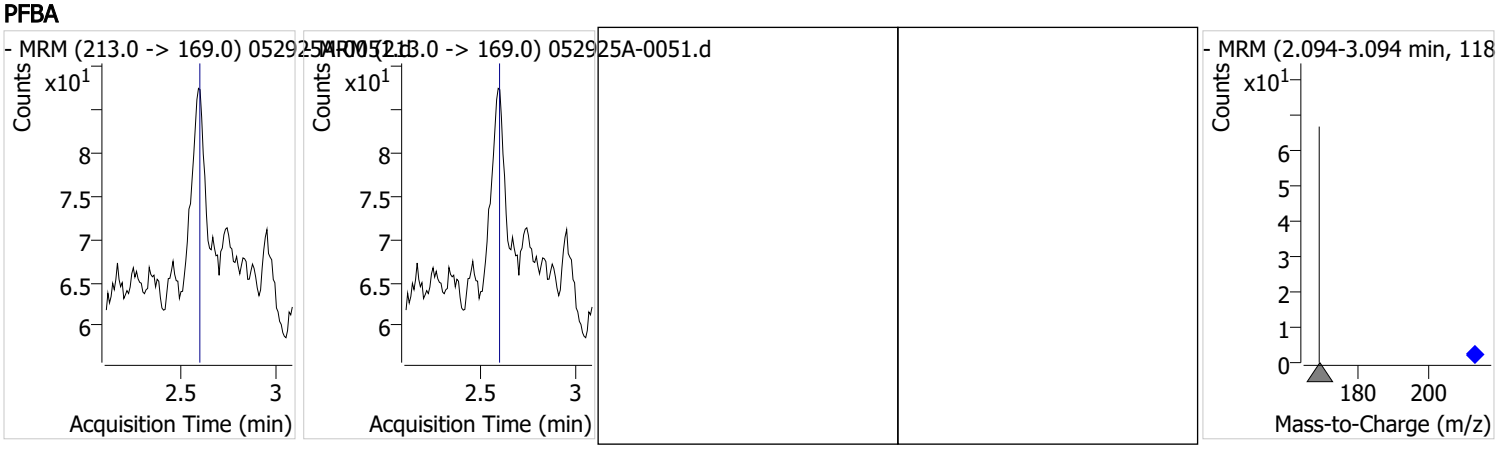
13C4-PFHpA



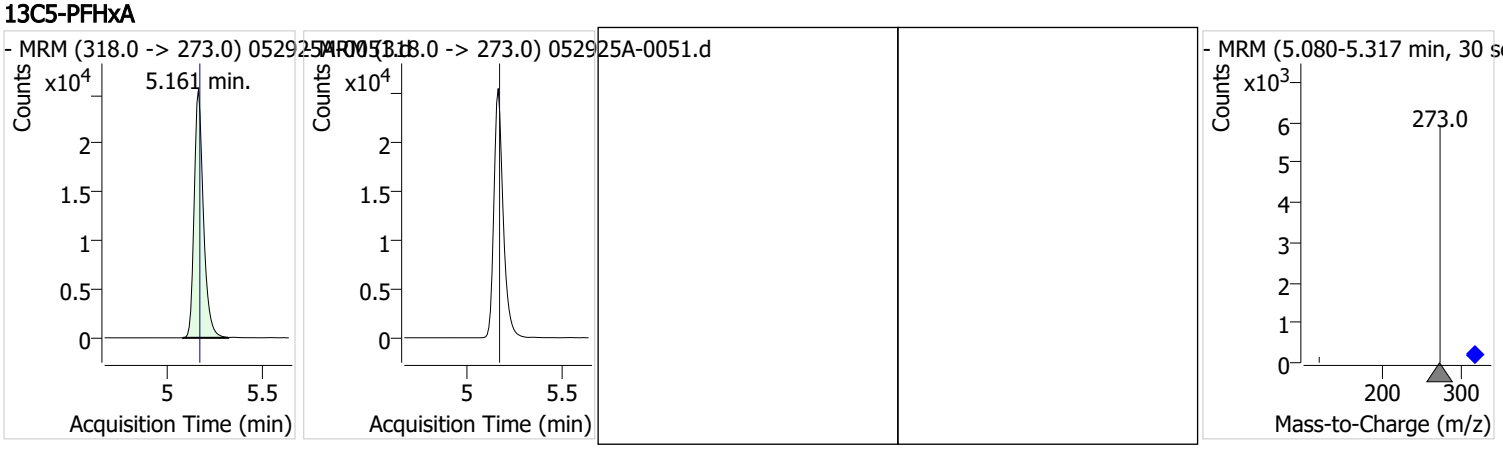
NMeFOSAA



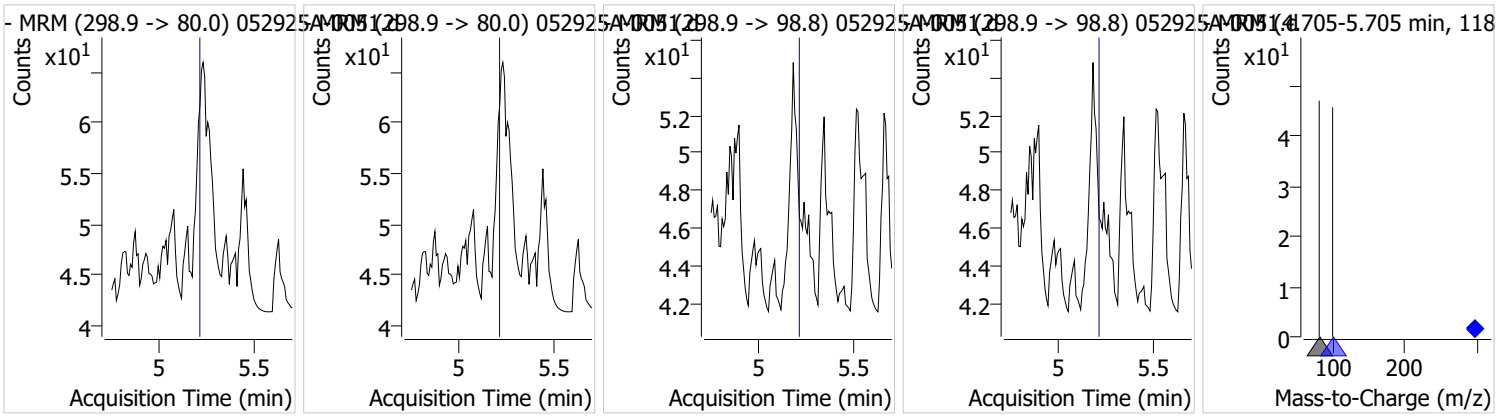
PFBA



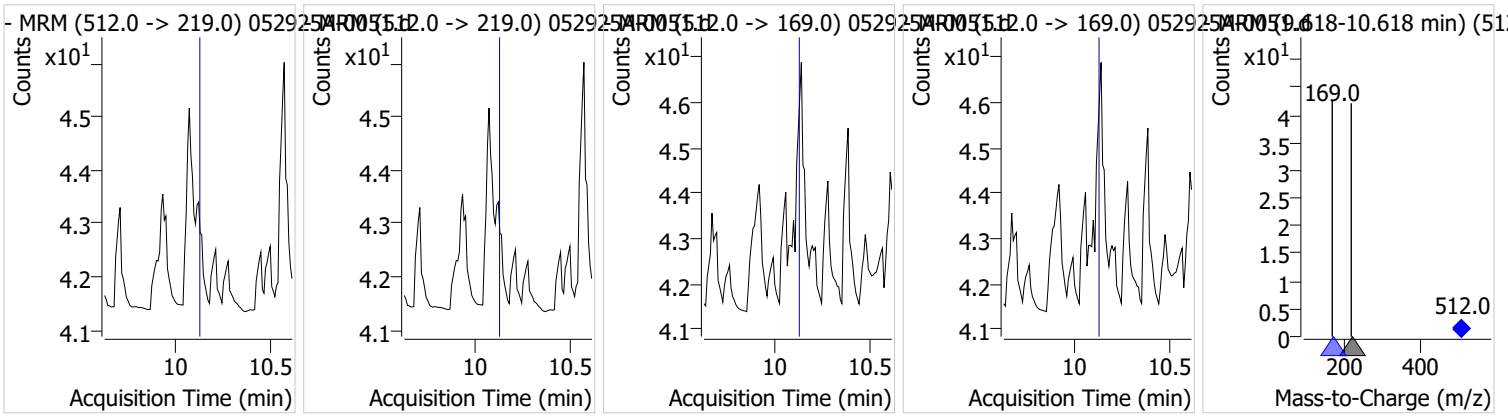
13C5-PFHxA



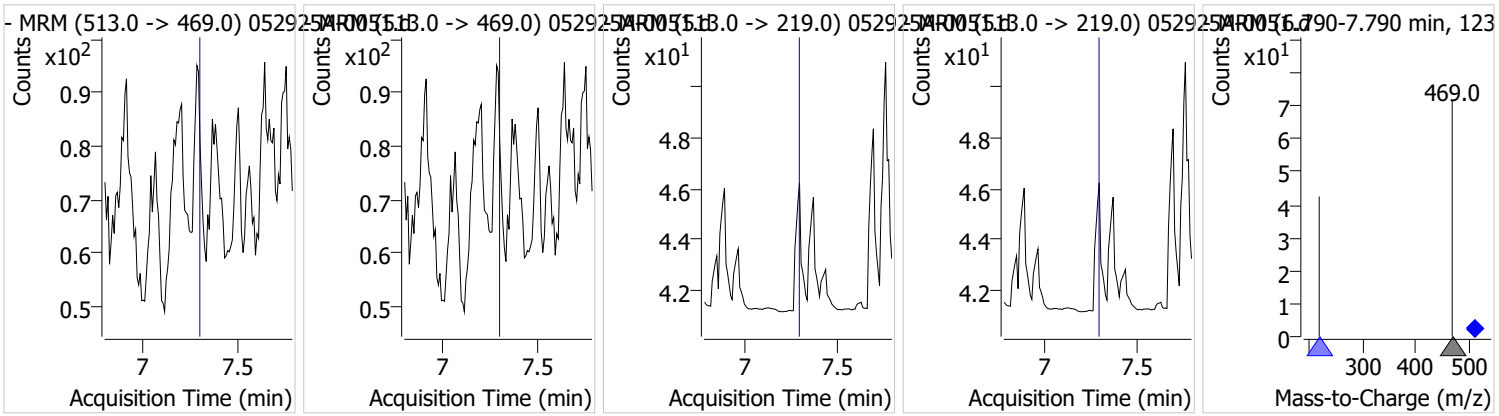
PFBS



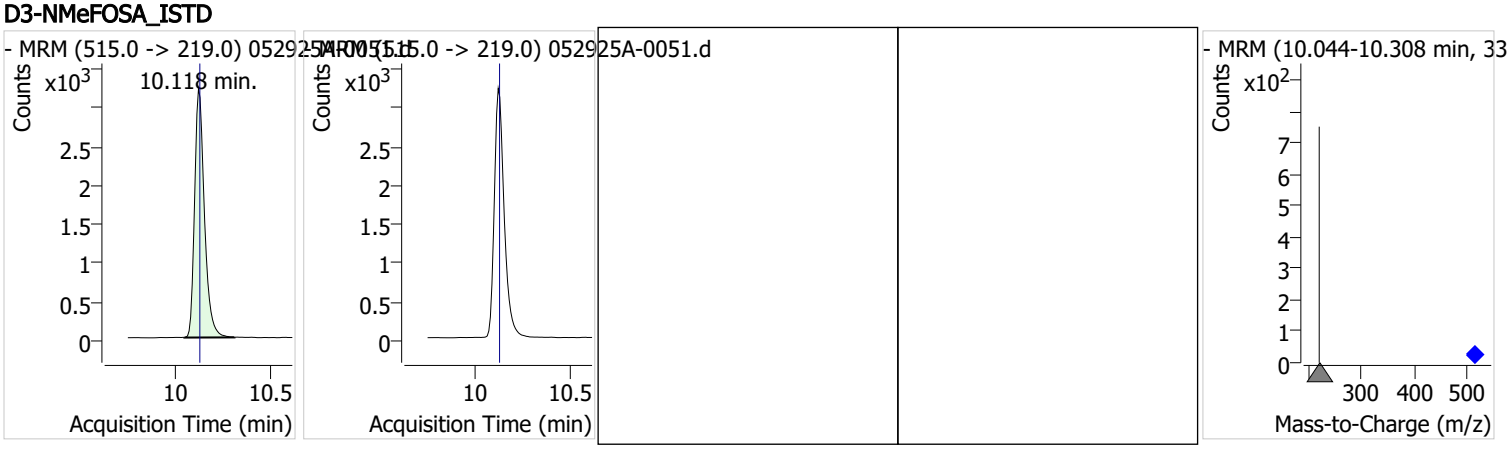
NMeFOSA



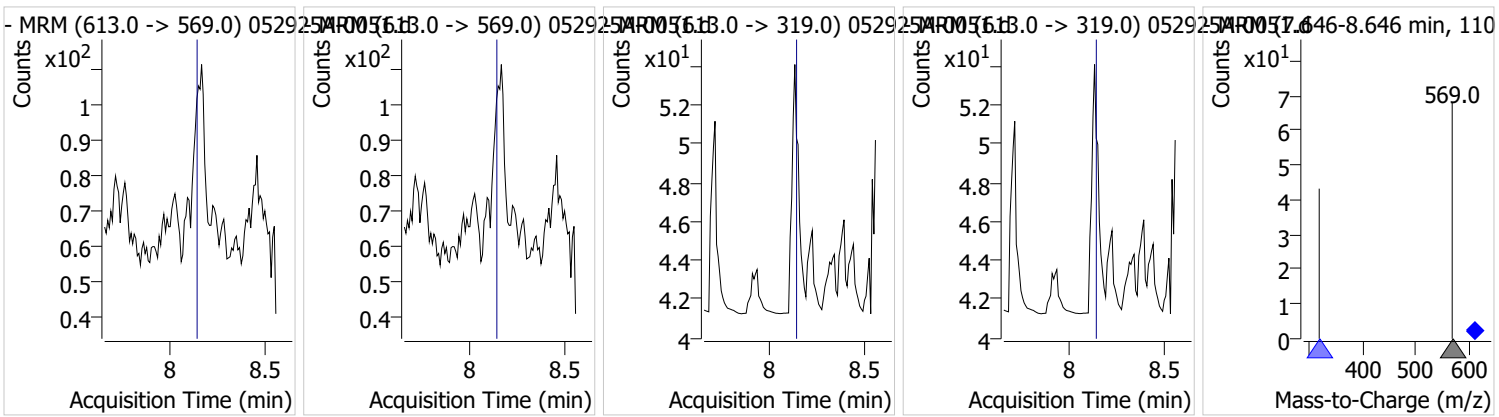
PFDA



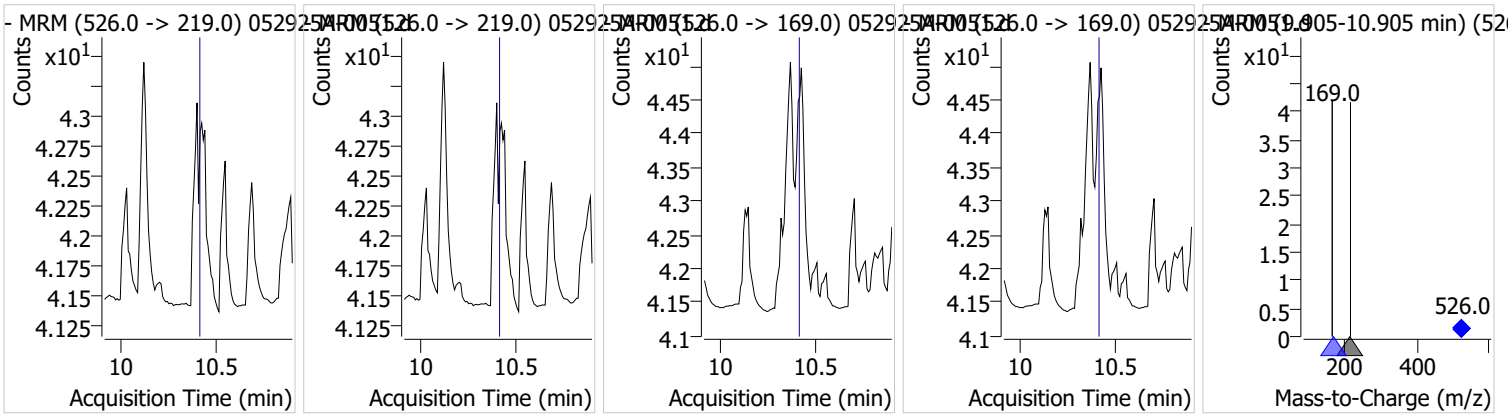
D3-NMeFOSA_ISTD



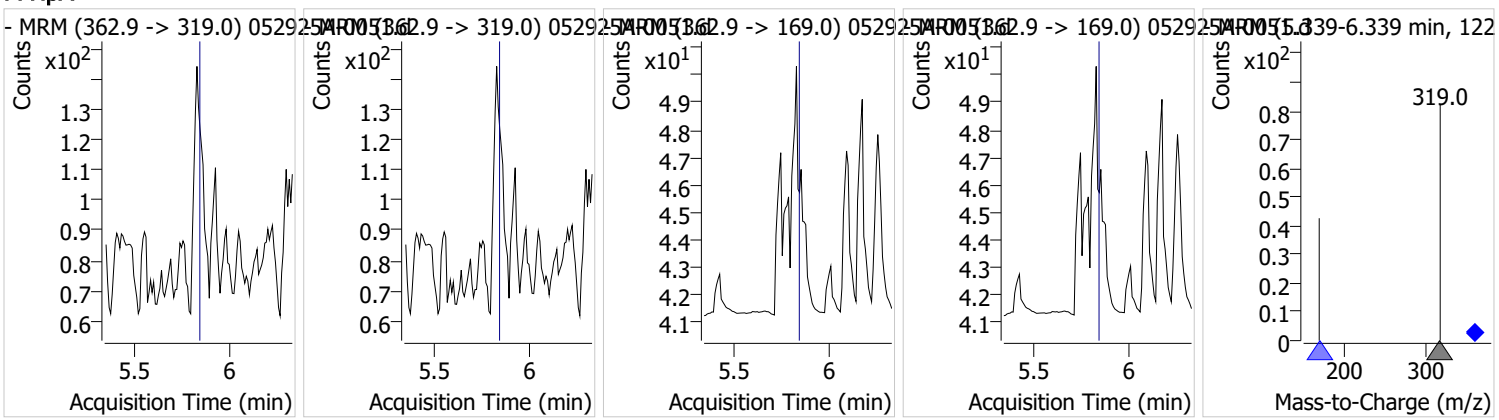
PFDoA



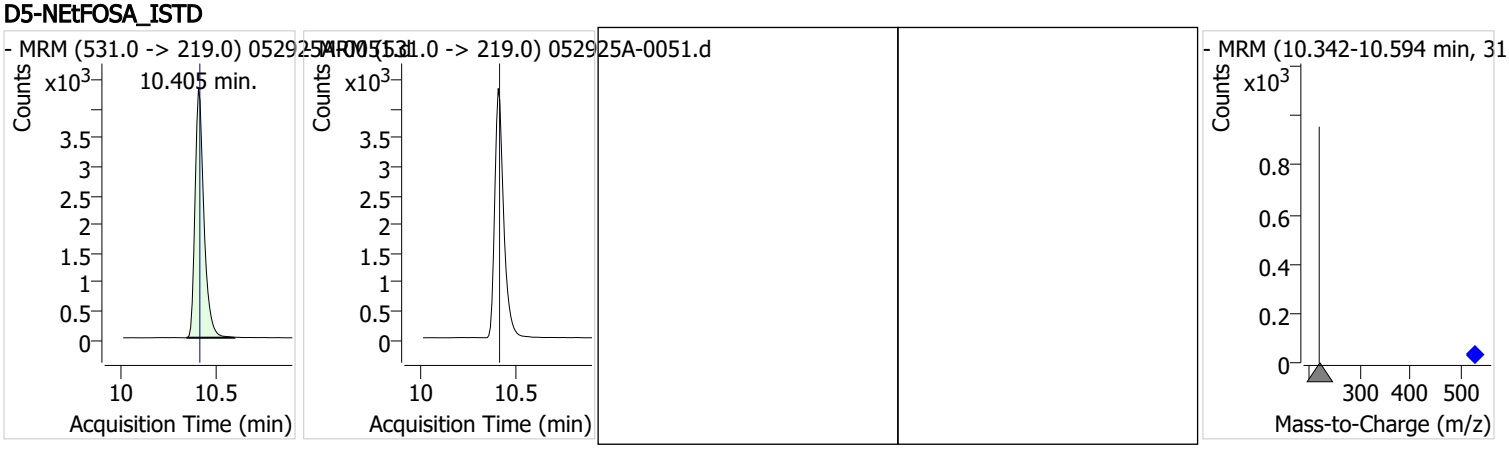
NEtFOSA



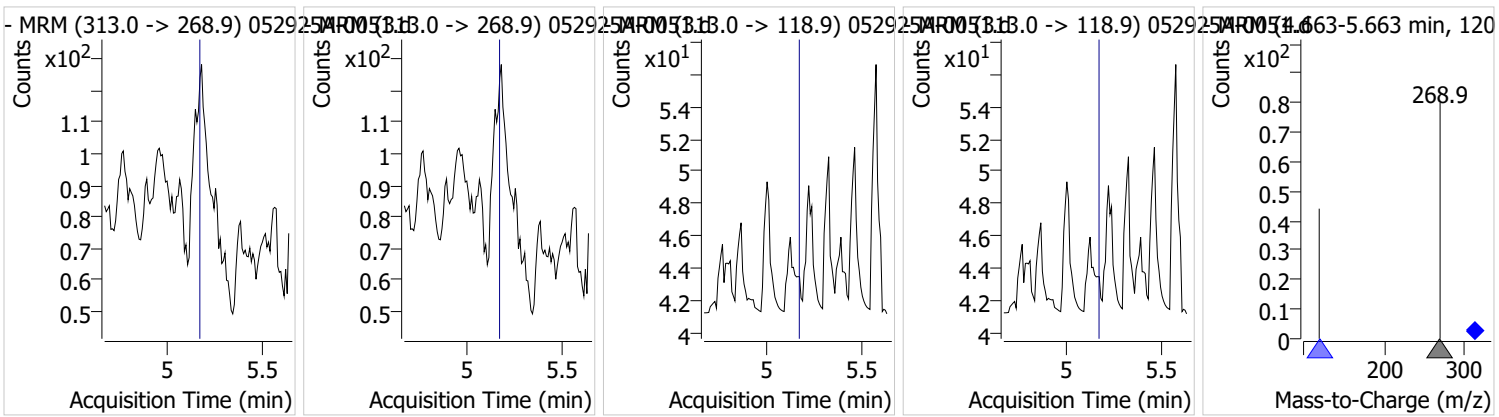
PFHpA



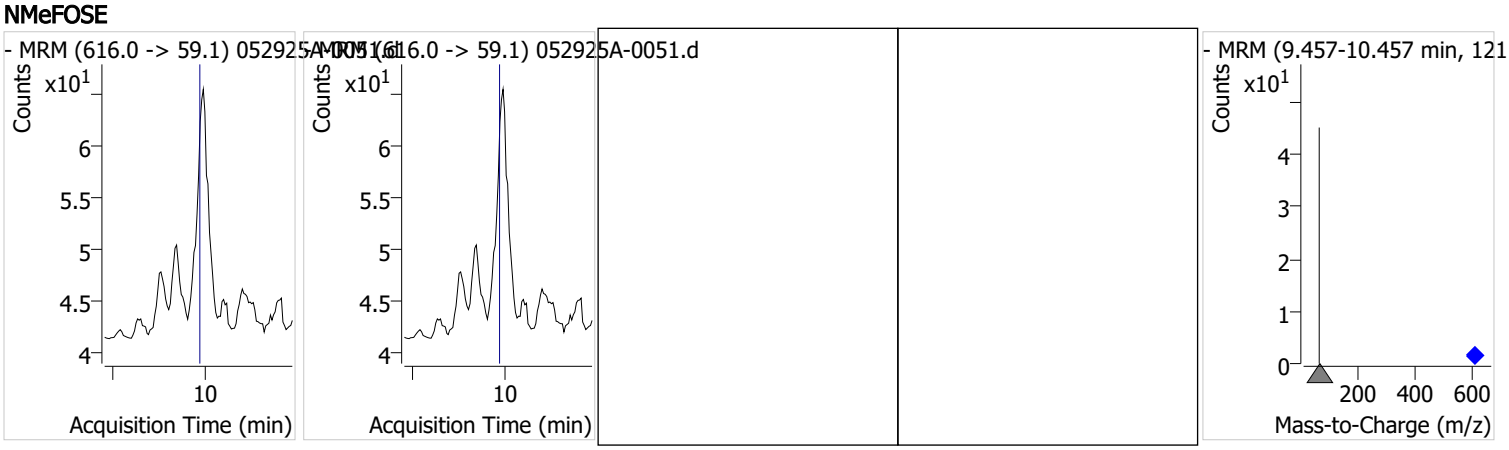
D5-NEtFOSA_ISTD



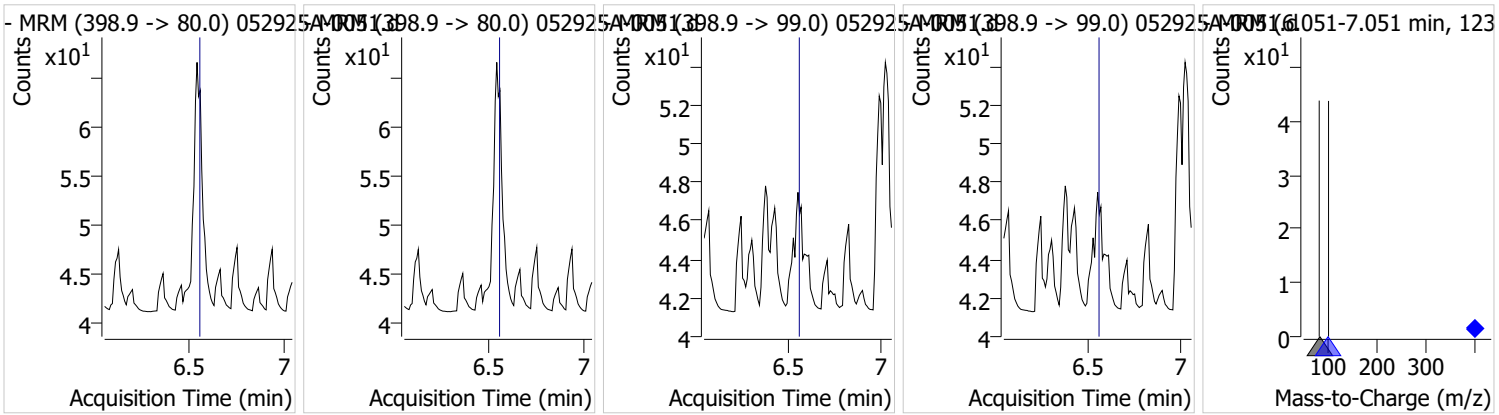
PFHxA



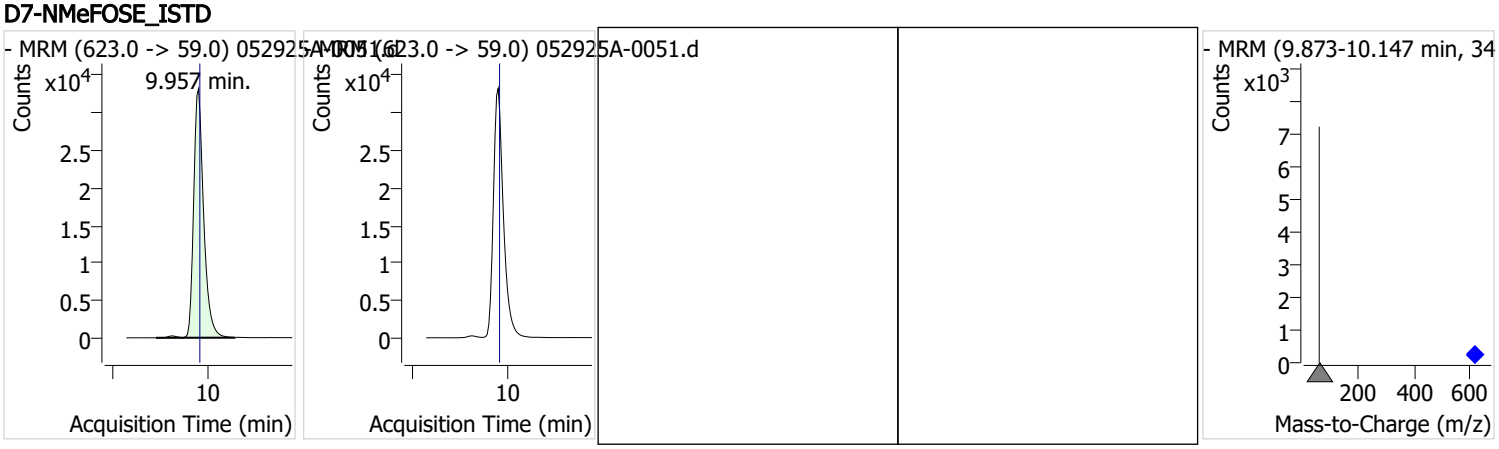
NMeFOSE



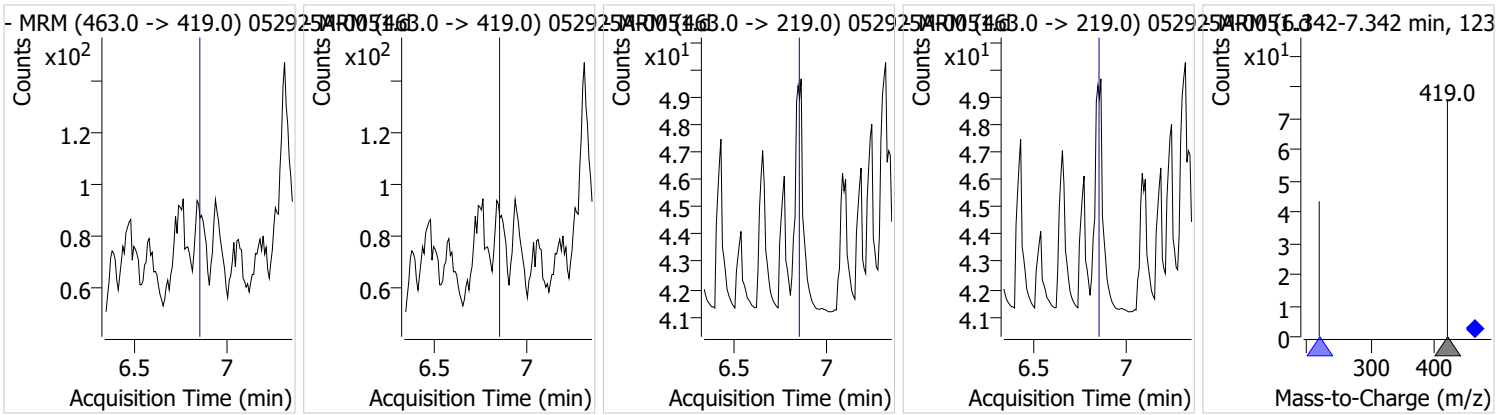
PFHxS



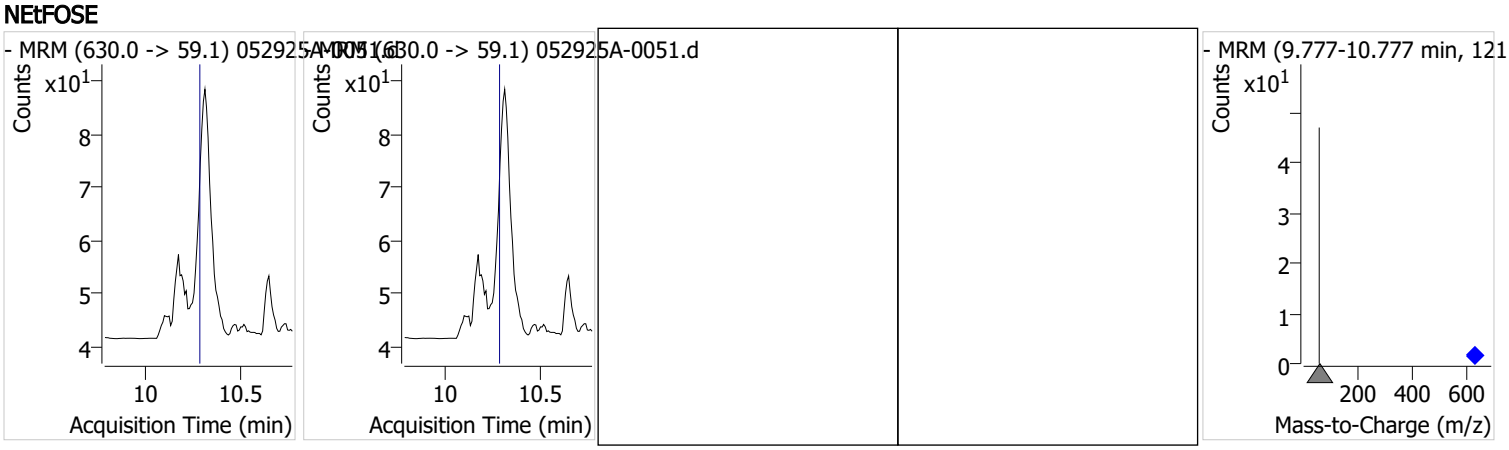
D7-NMeFOSE_ISTD



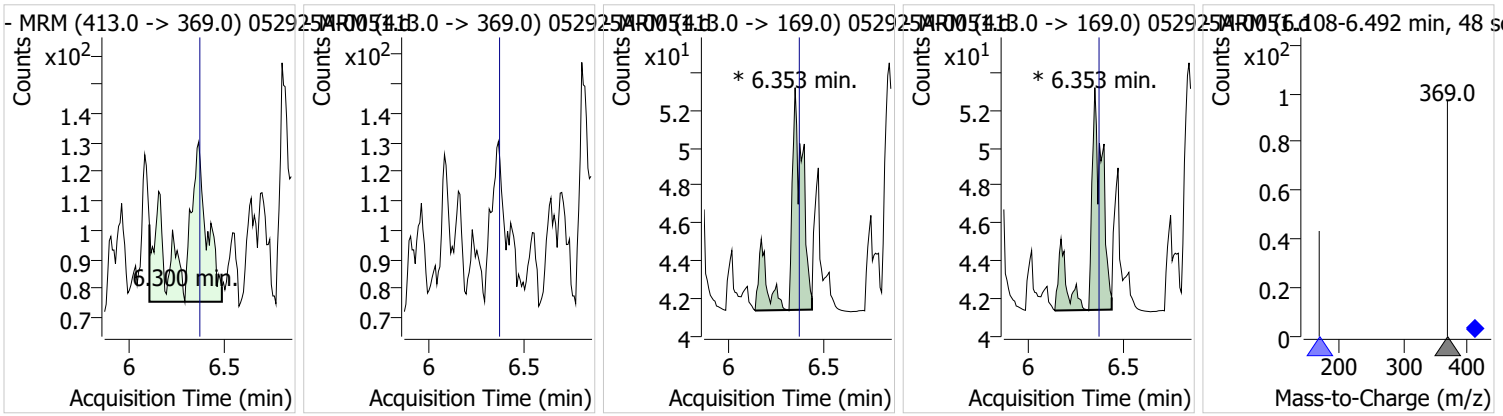
PFNA



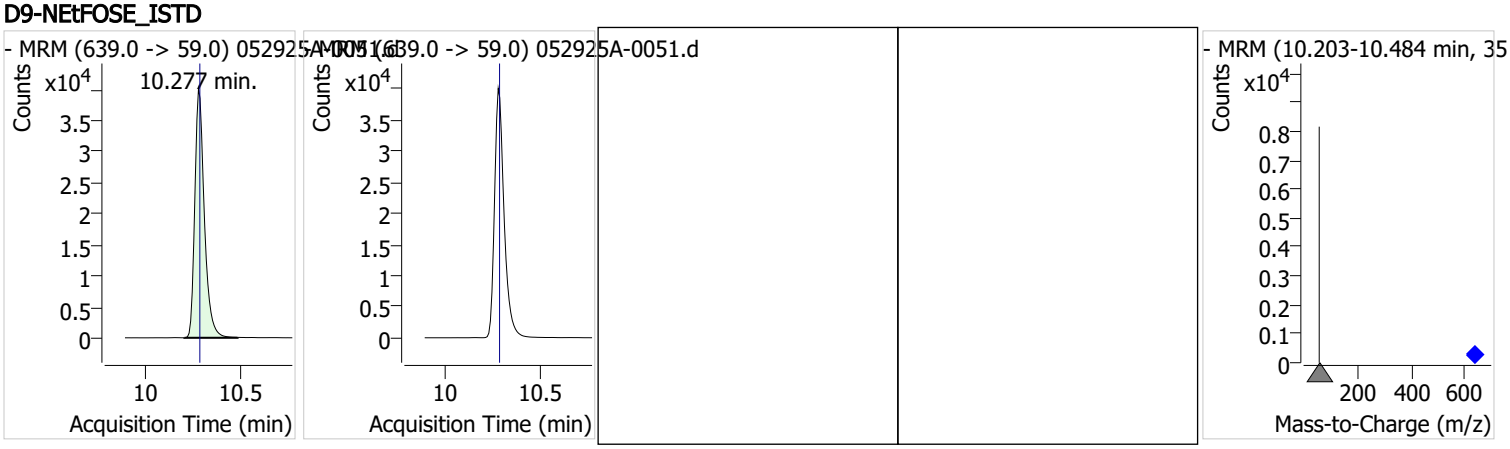
NEtFOSE



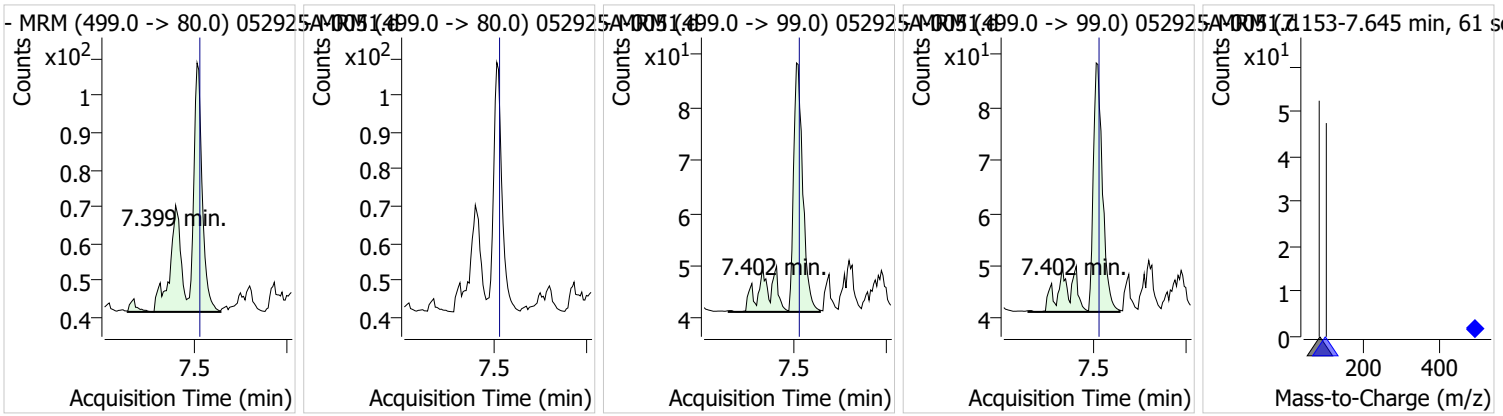
PFOA



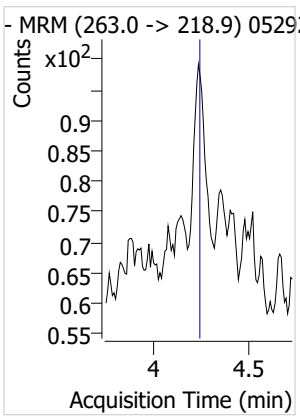
D9-NEtFOSE_ISTD

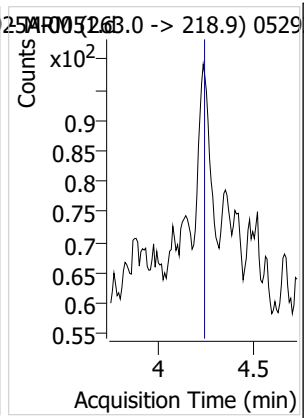


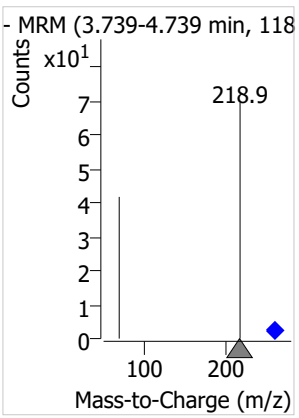
PFOS



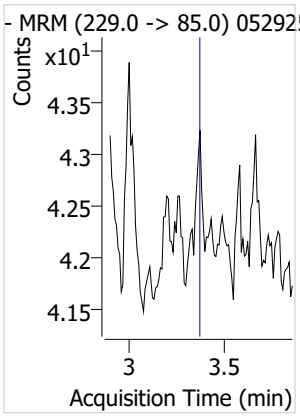
PFPeA

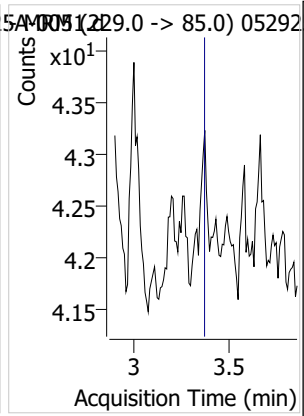


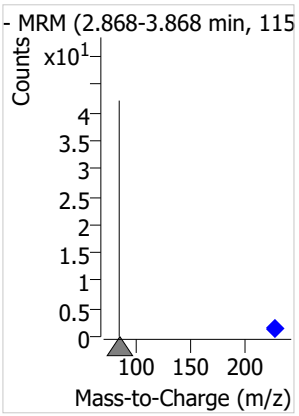




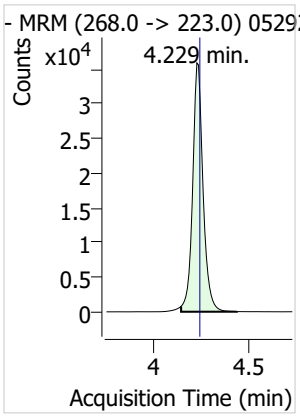
PFMPA

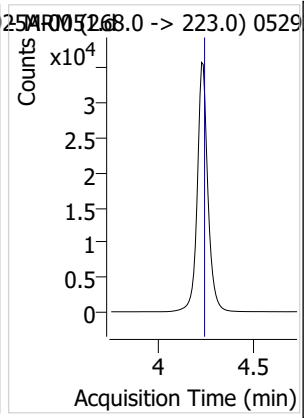


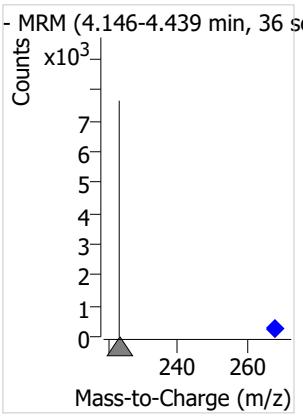




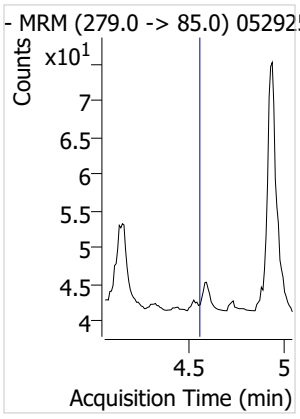
13C5-PFPeA

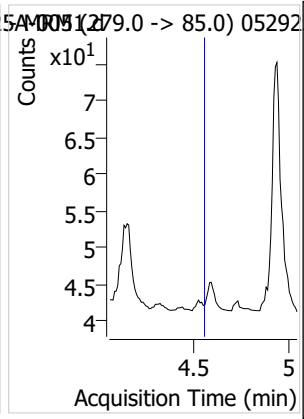


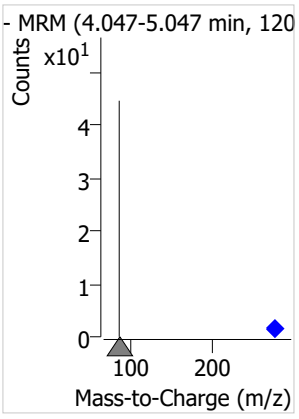




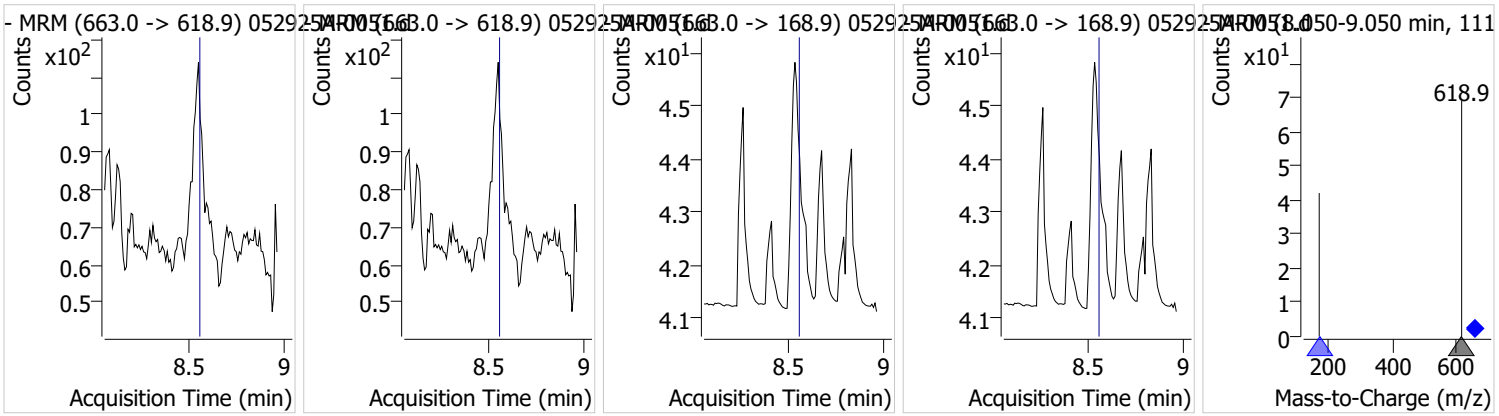
PFMBA



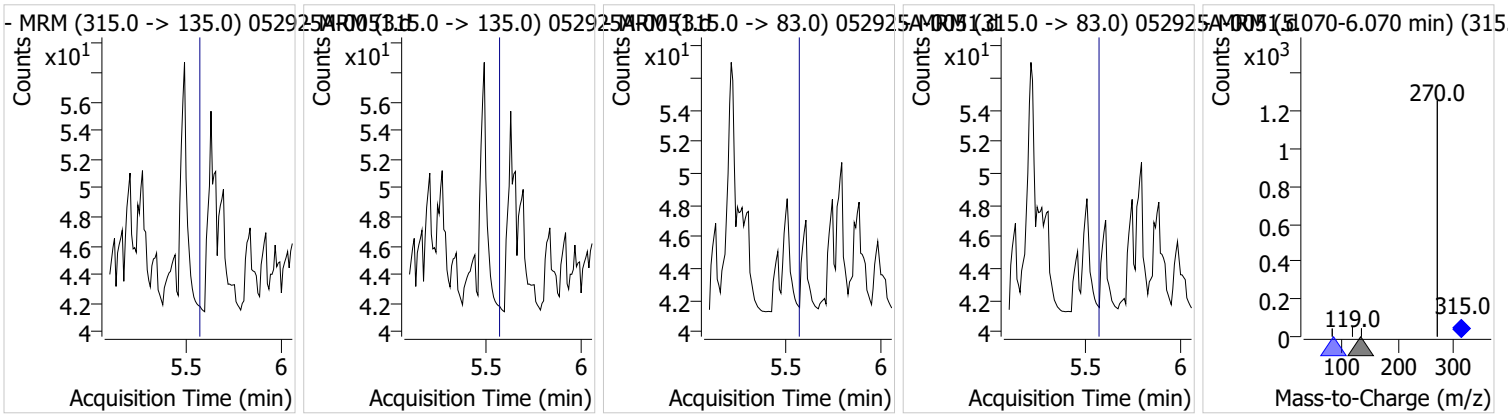




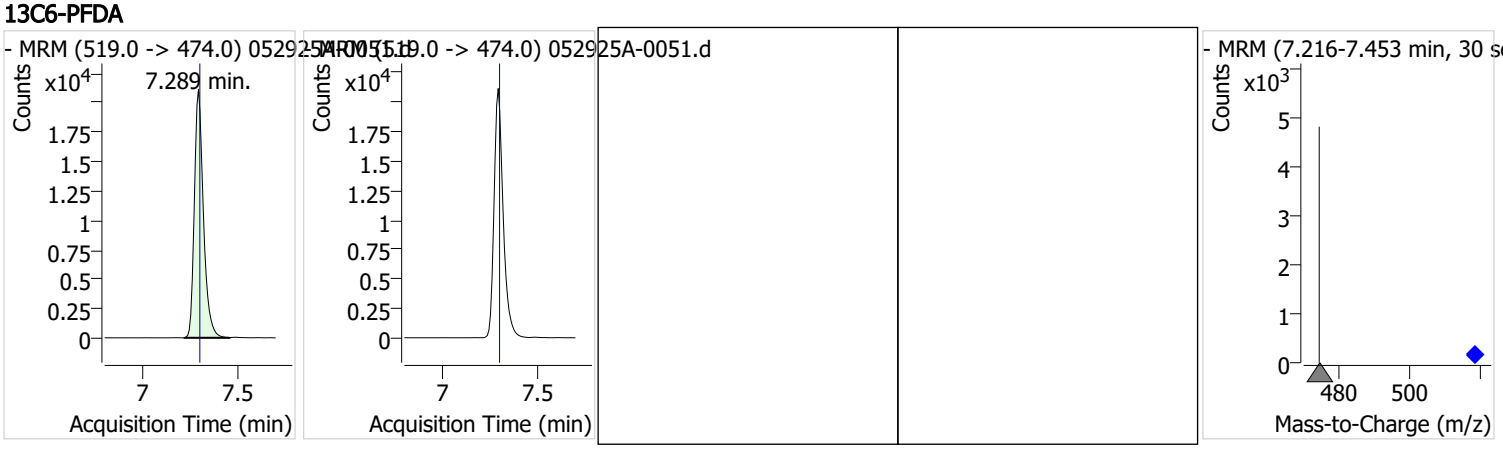
PFTrDA



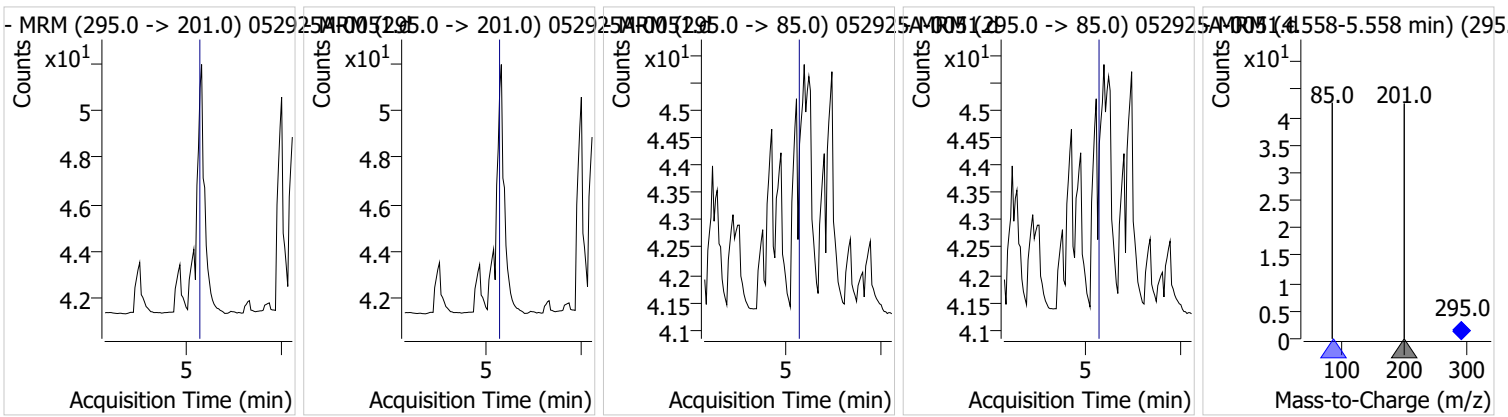
PFEESA



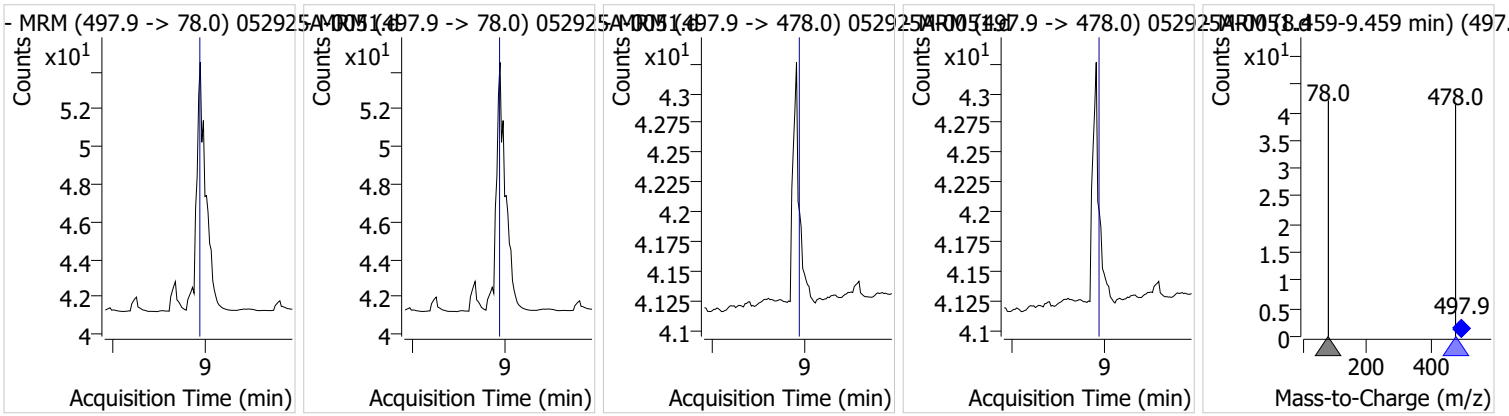
13C6-PFDA



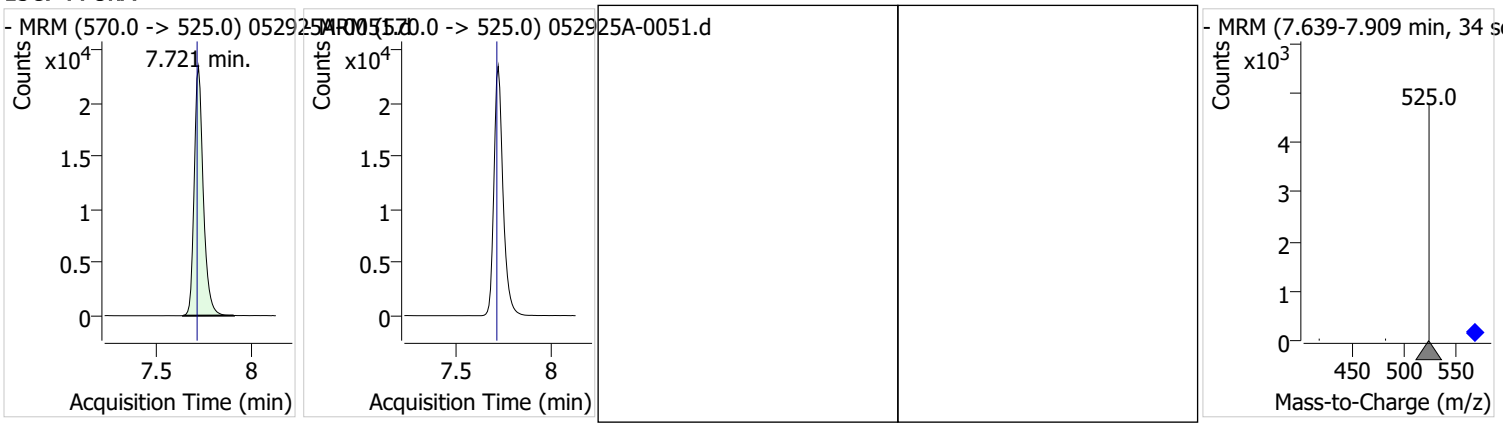
NFDHA



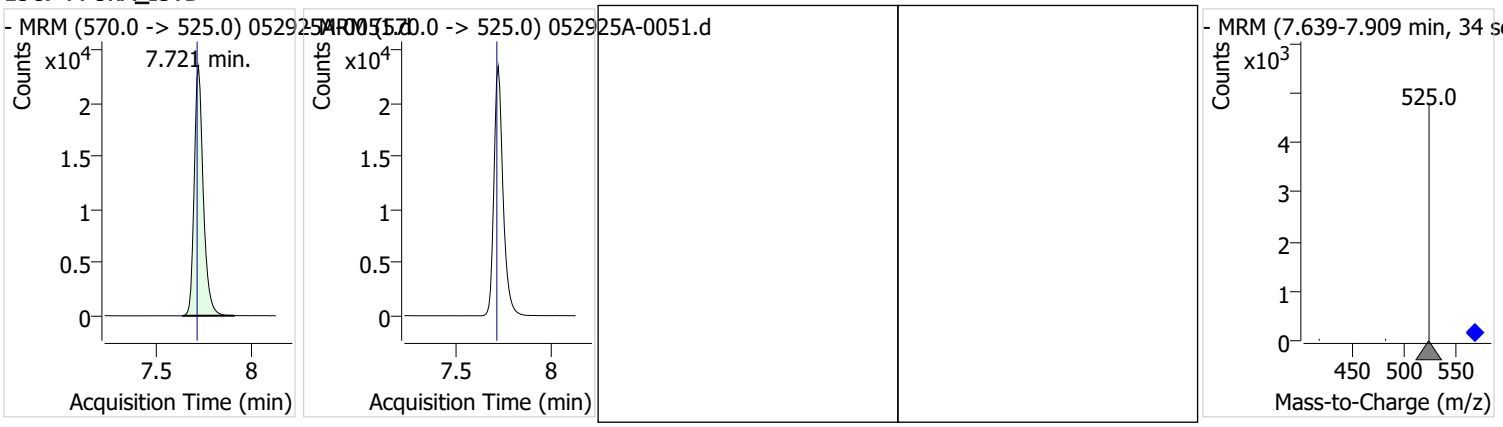
PFOSA



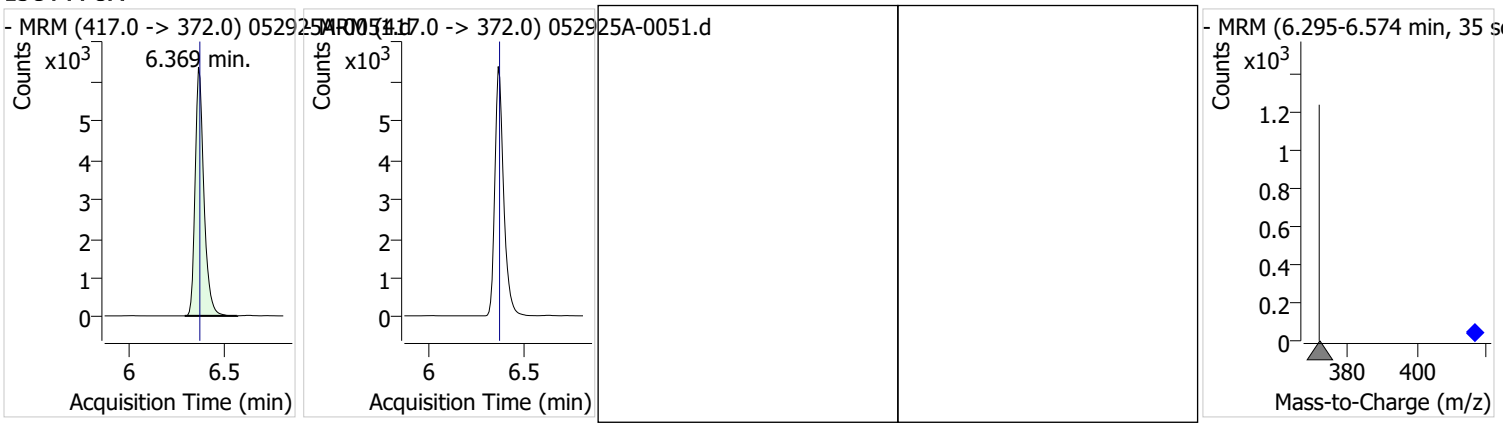
13C7-PFUnA



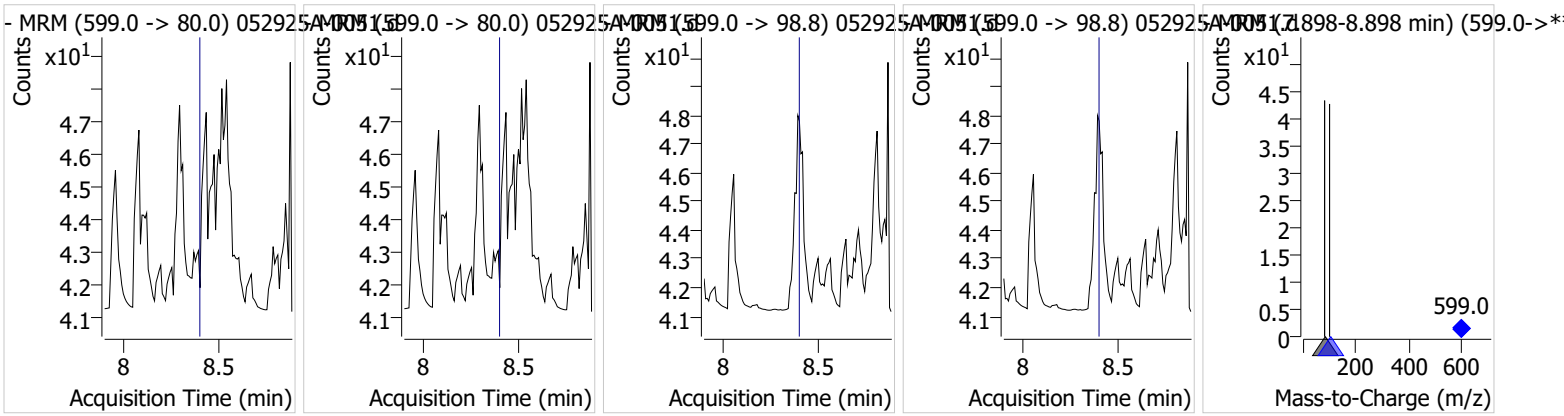
13C7-PFUnA_ISTD



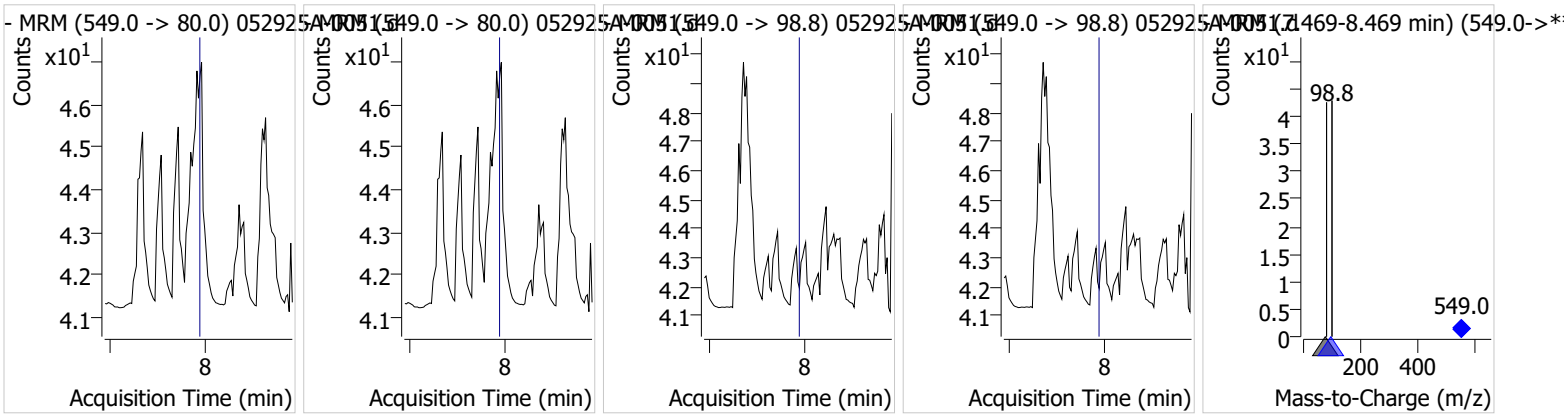
13C4-PFOA



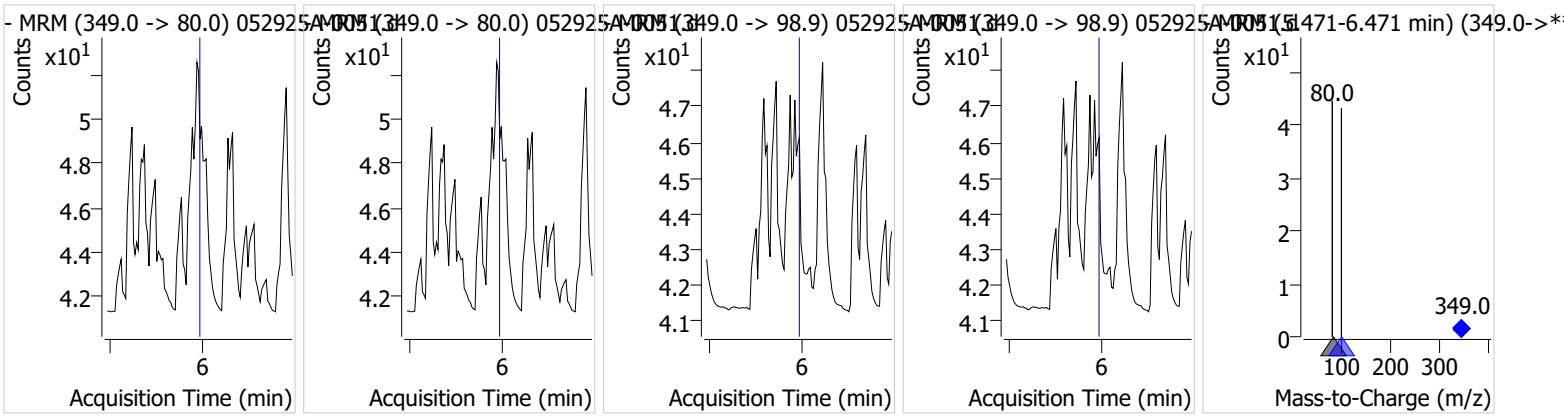
PFDS



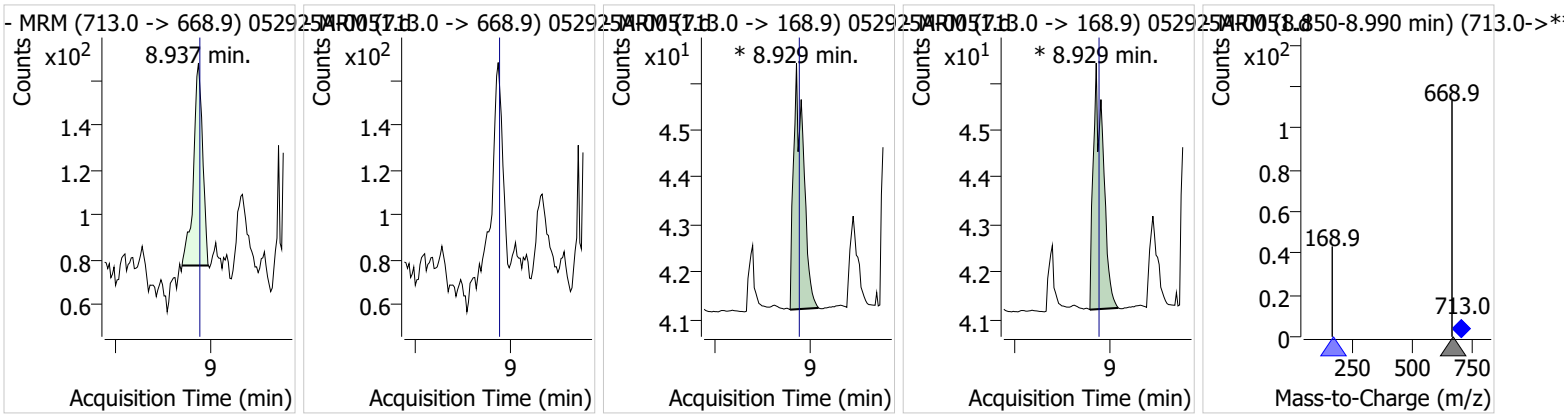
PFNS



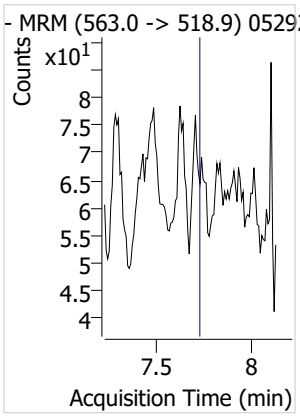
PFPeS

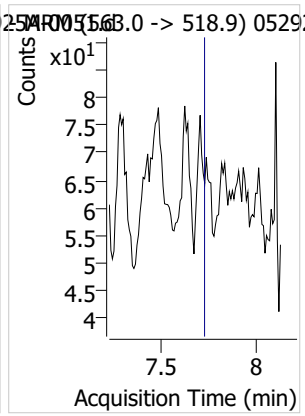


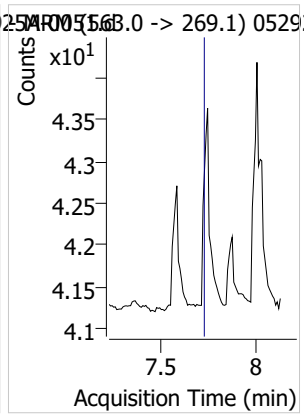
PFTeDA

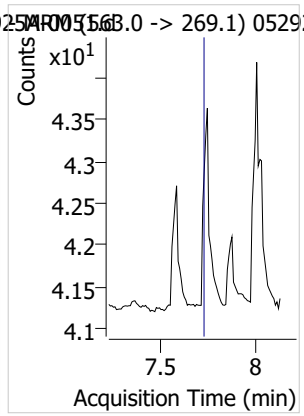


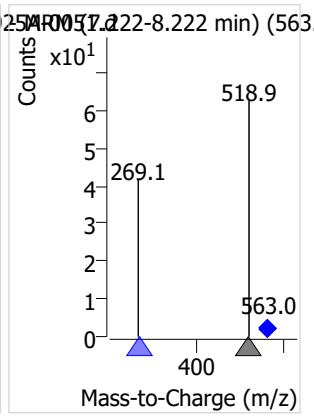
PFUnA



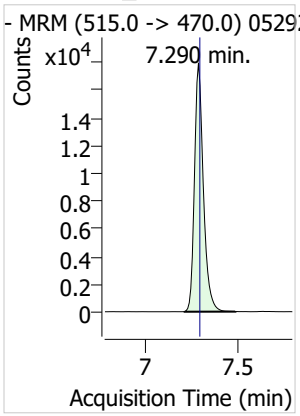


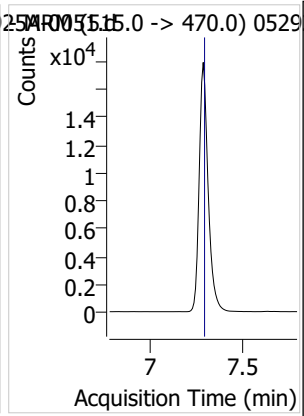


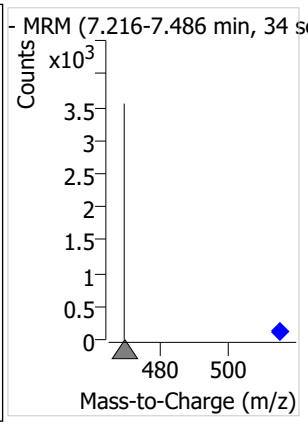




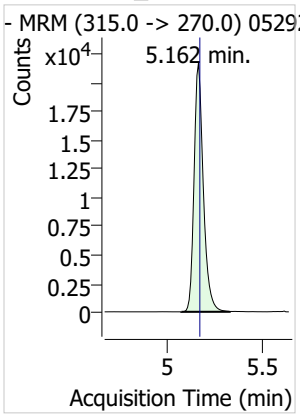
13C2-PFDA_ISTD

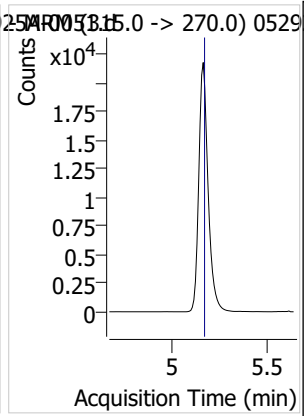


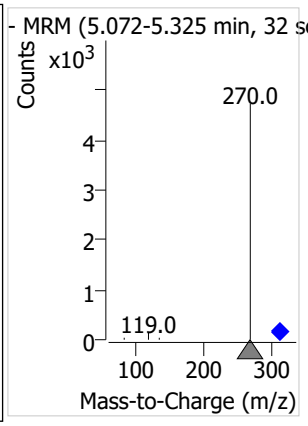




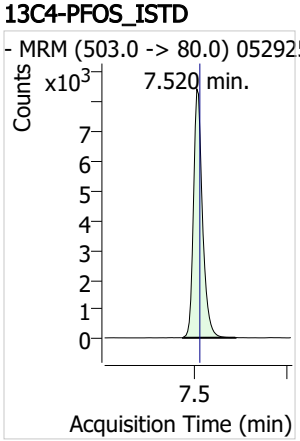
13C2-PFHxA_ISTD

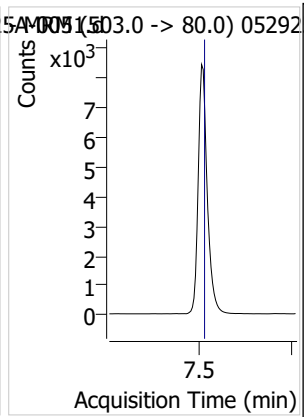


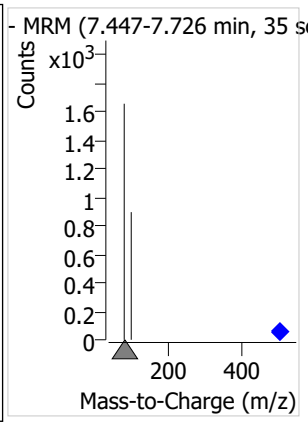




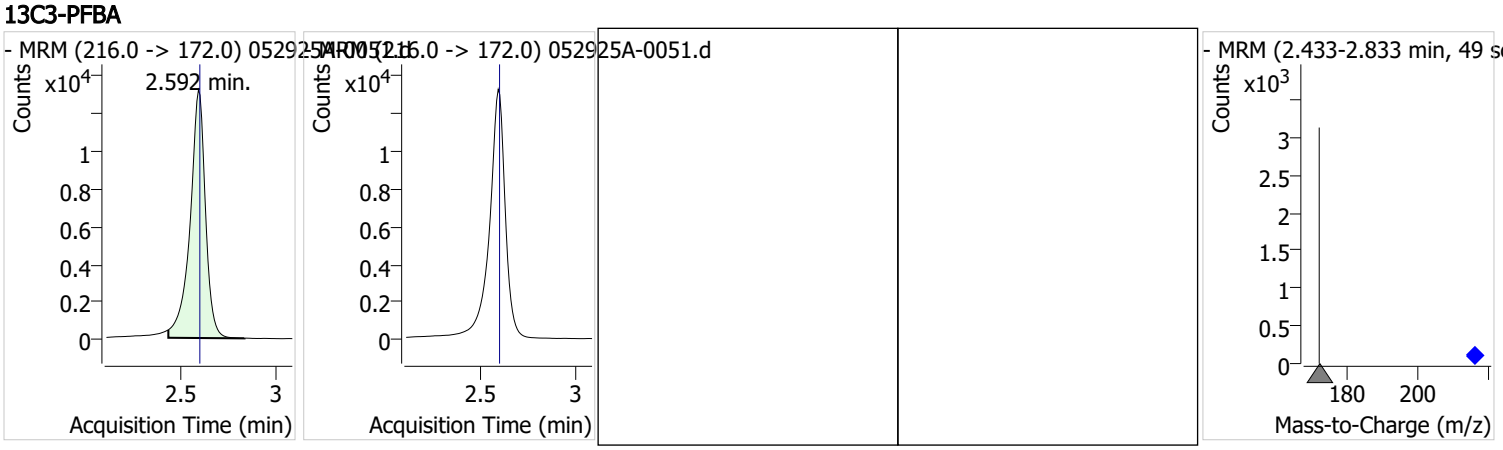
13C4-PFOS_ISTD



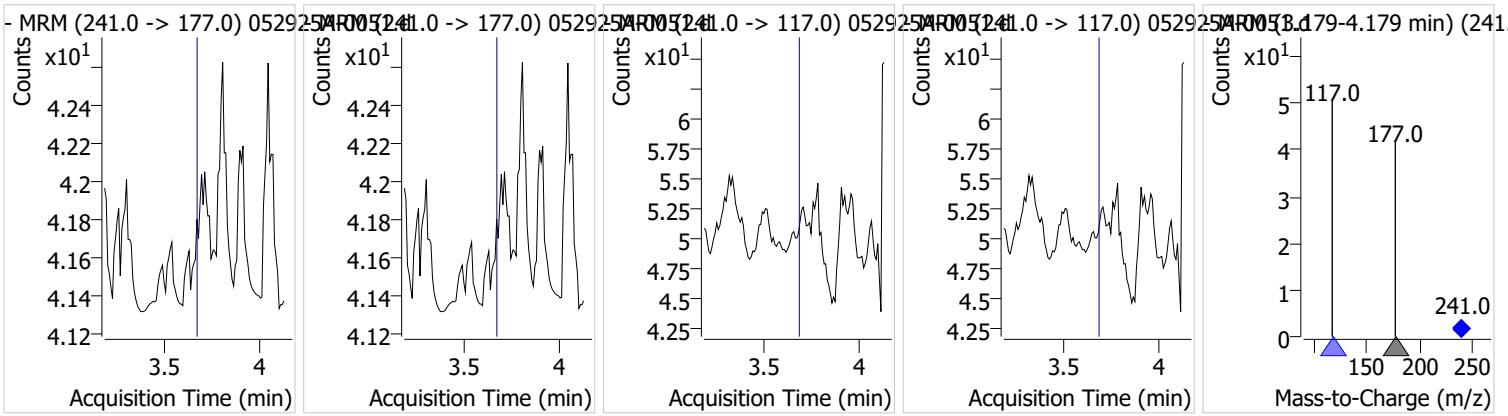




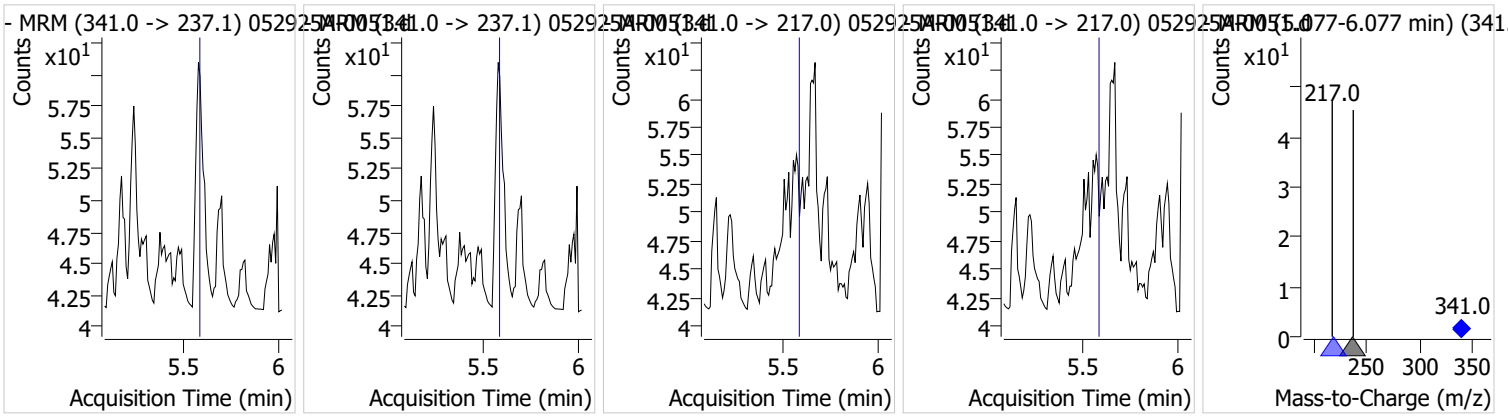
13C3-PFBA



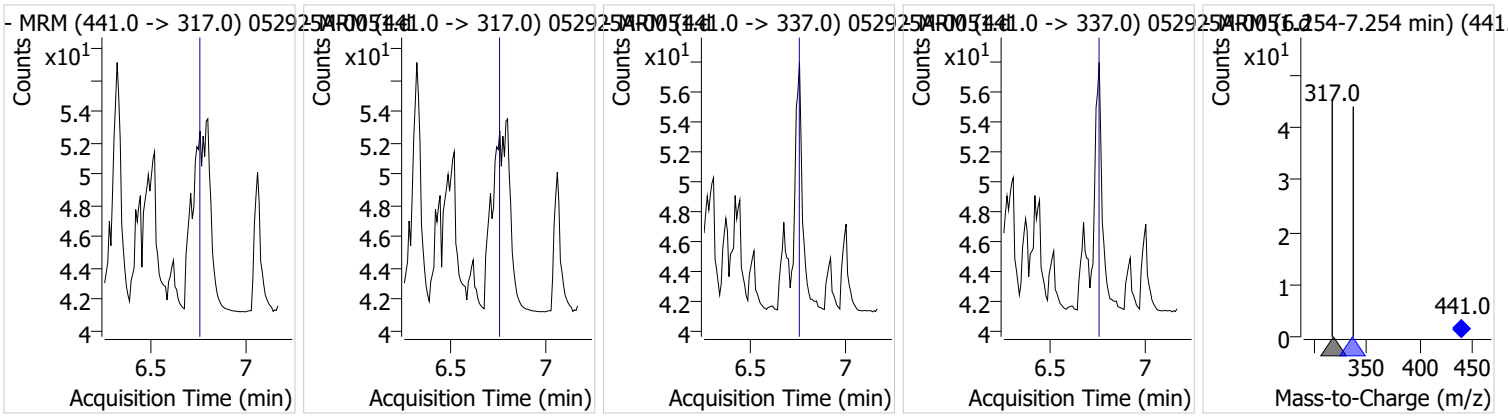
3:3FTCA



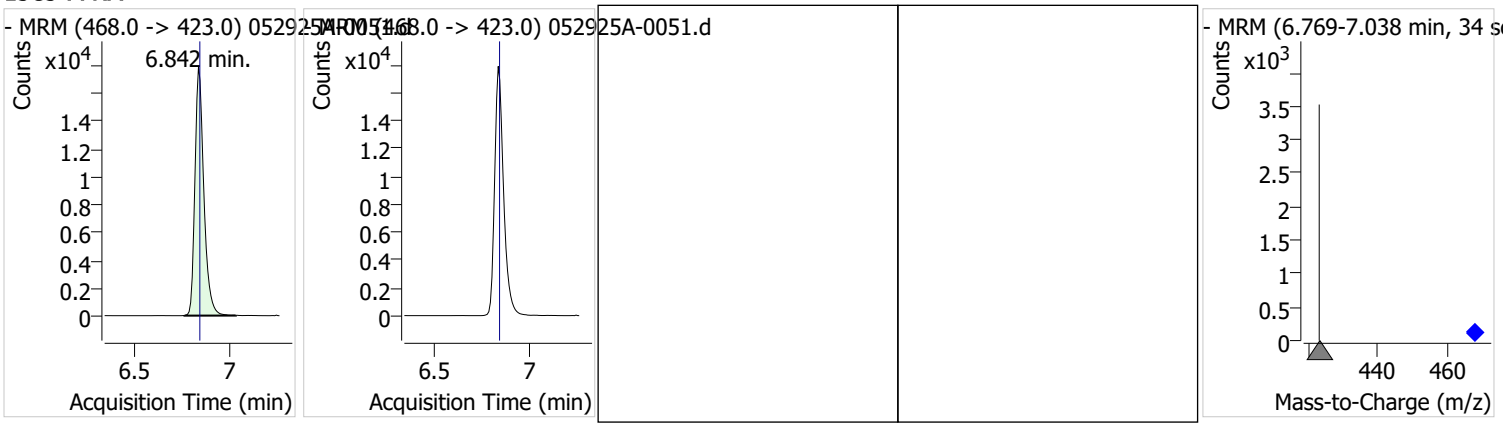
5:3FTCA



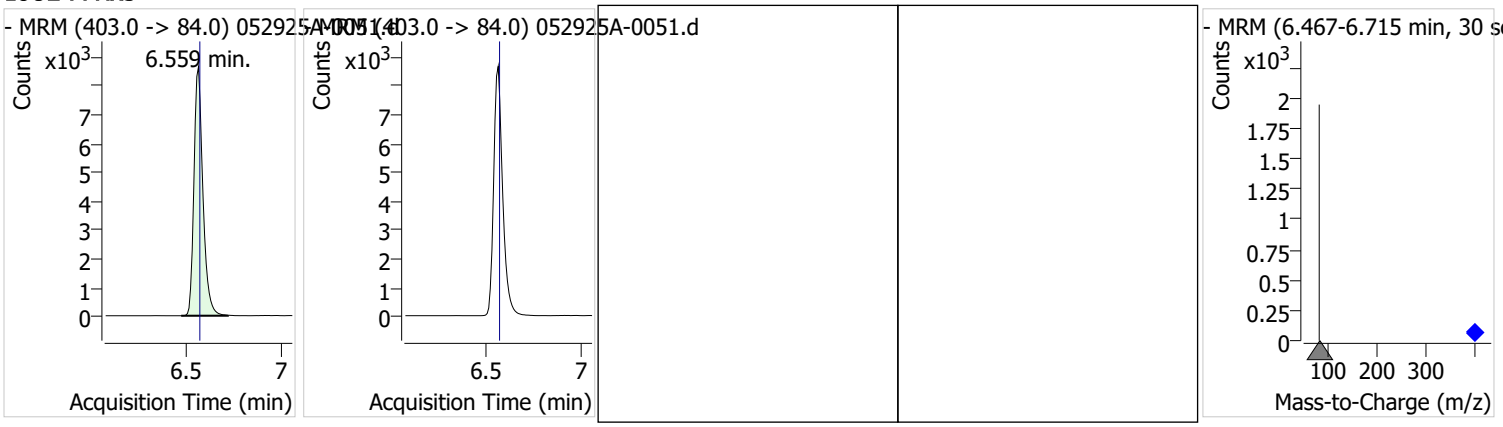
7:3FTCA



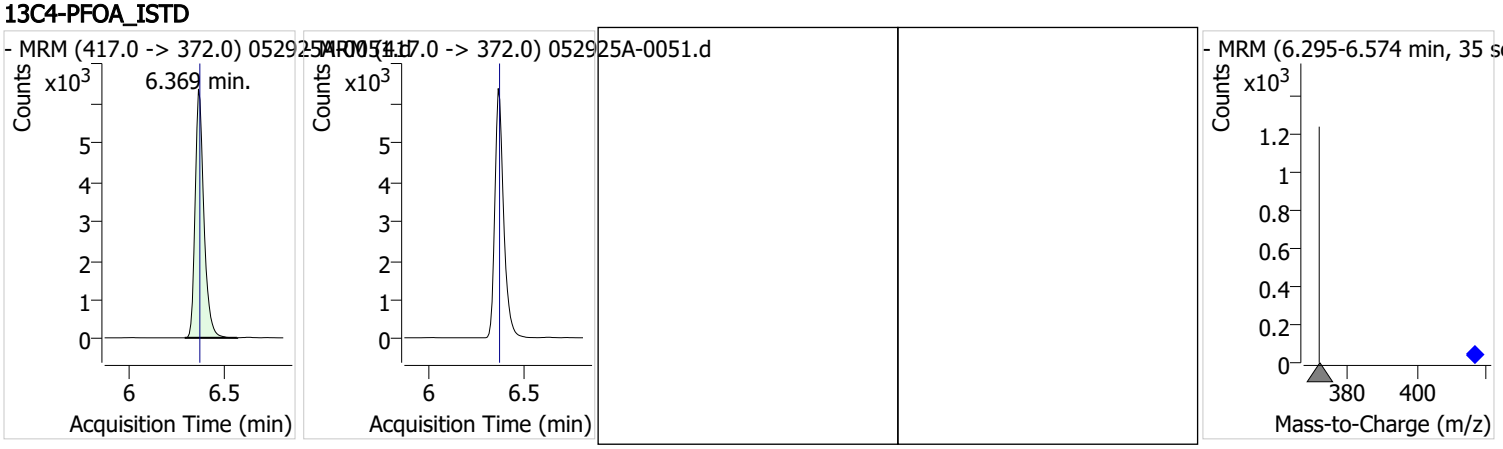
13C5-PFNA



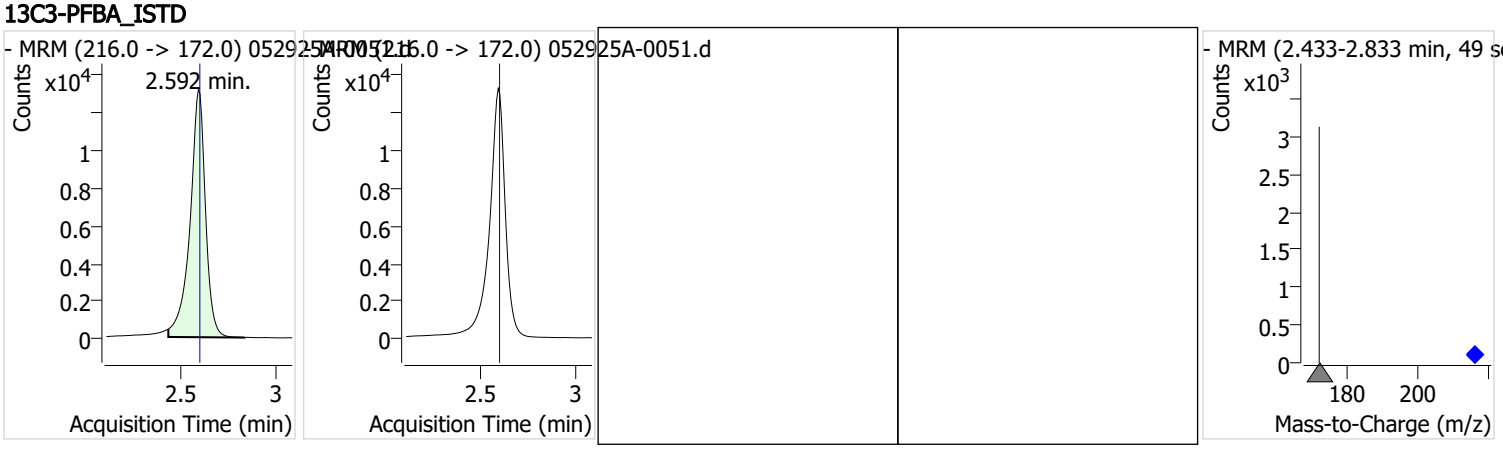
18O2-PFHxS



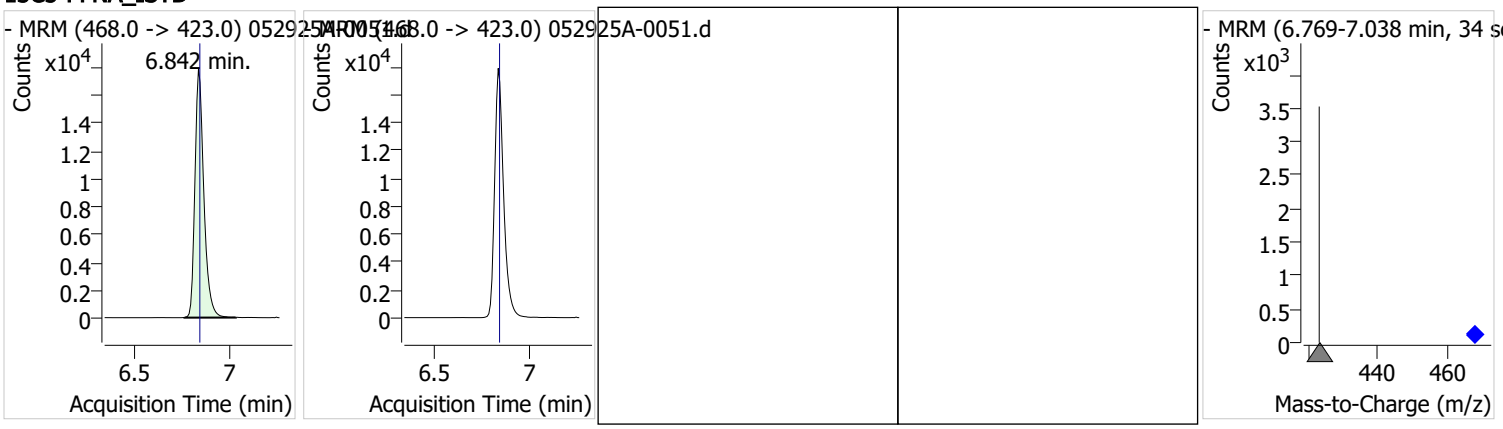
13C4-PFOA_ISTD



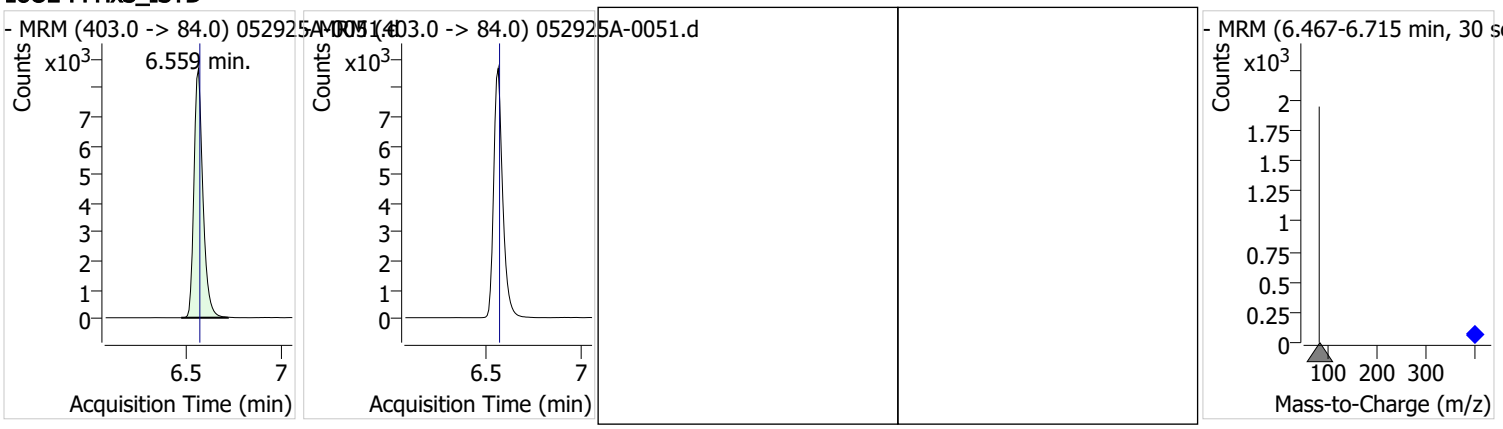
13C3-PFBA_ISTD



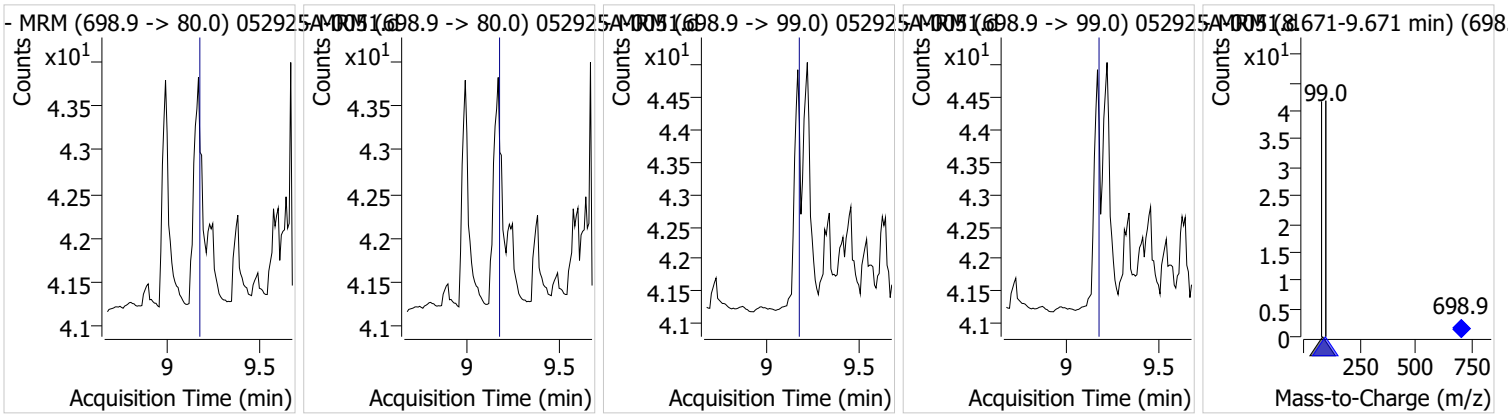
13C5-PFNA_ISTD



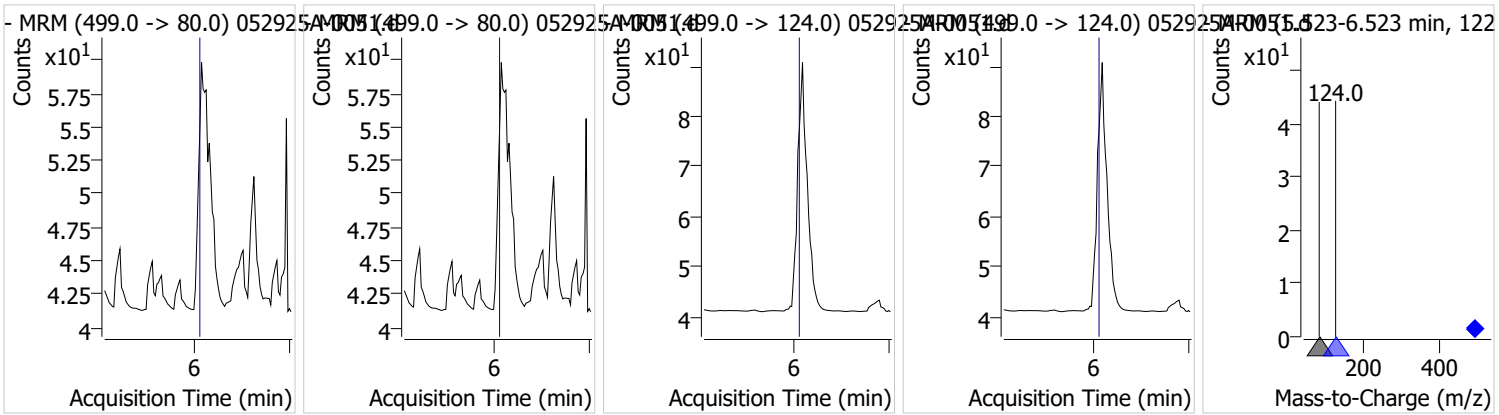
18O2-PFHxS_ISTD



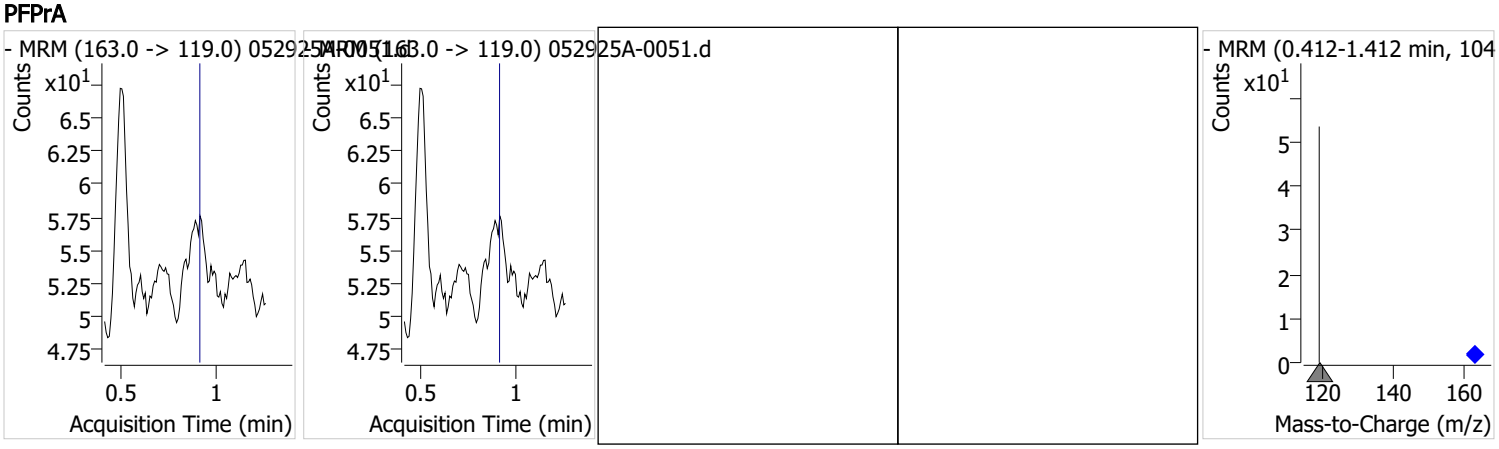
PFDoS



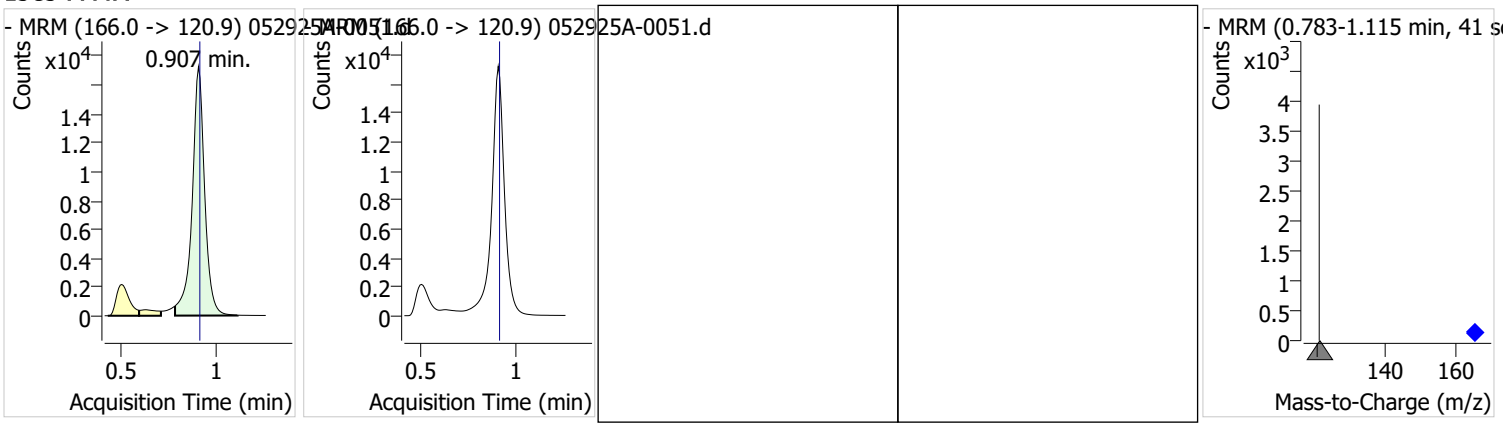
TDCA



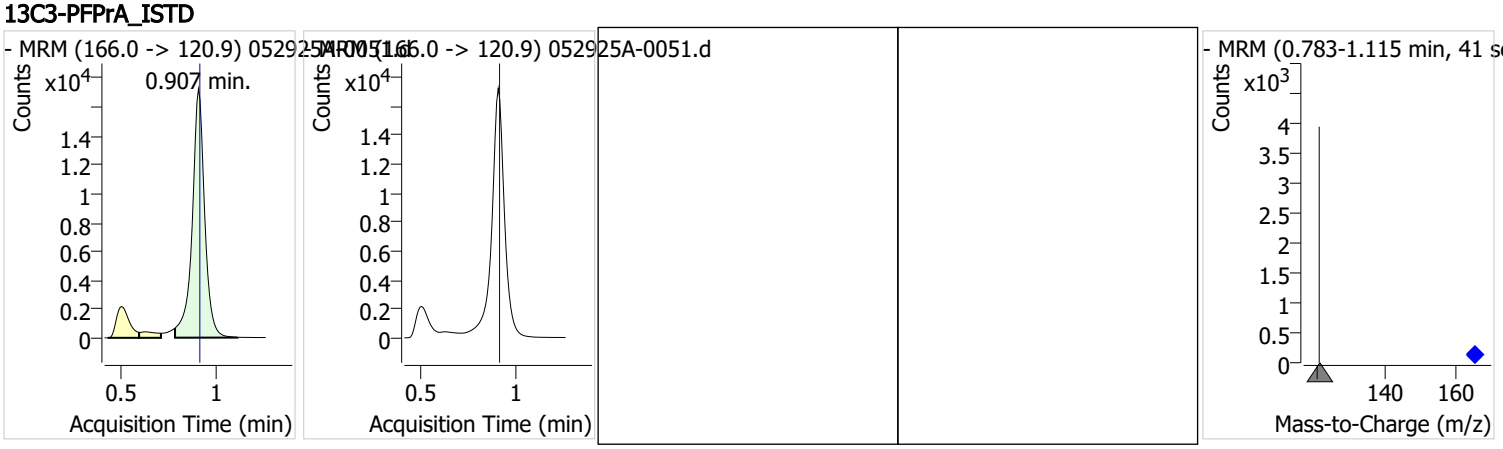
PFPrA



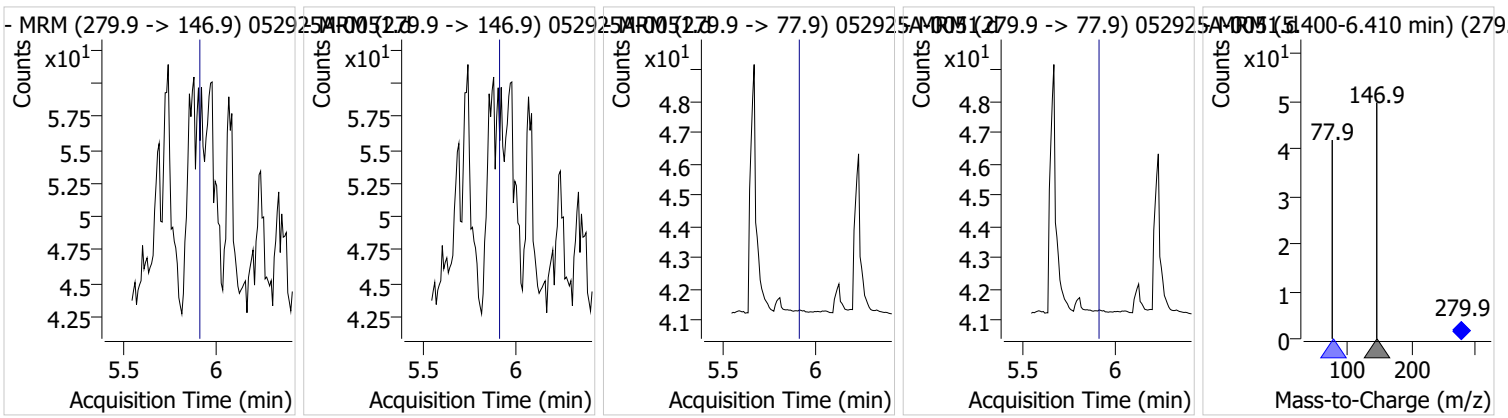
13C3-PFPrA



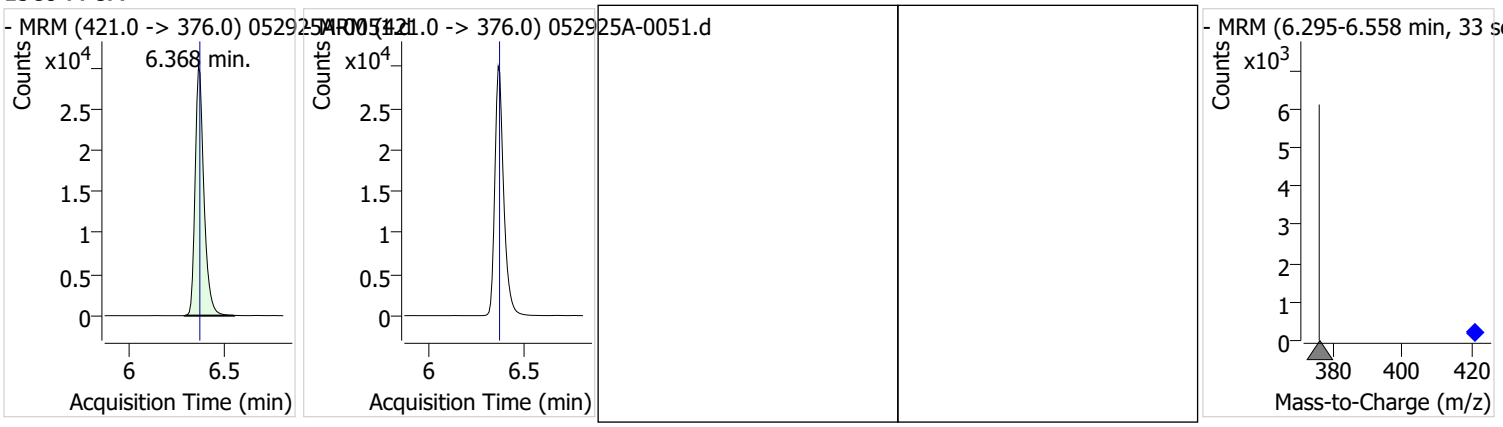
13C3-PFPrA_ISTD



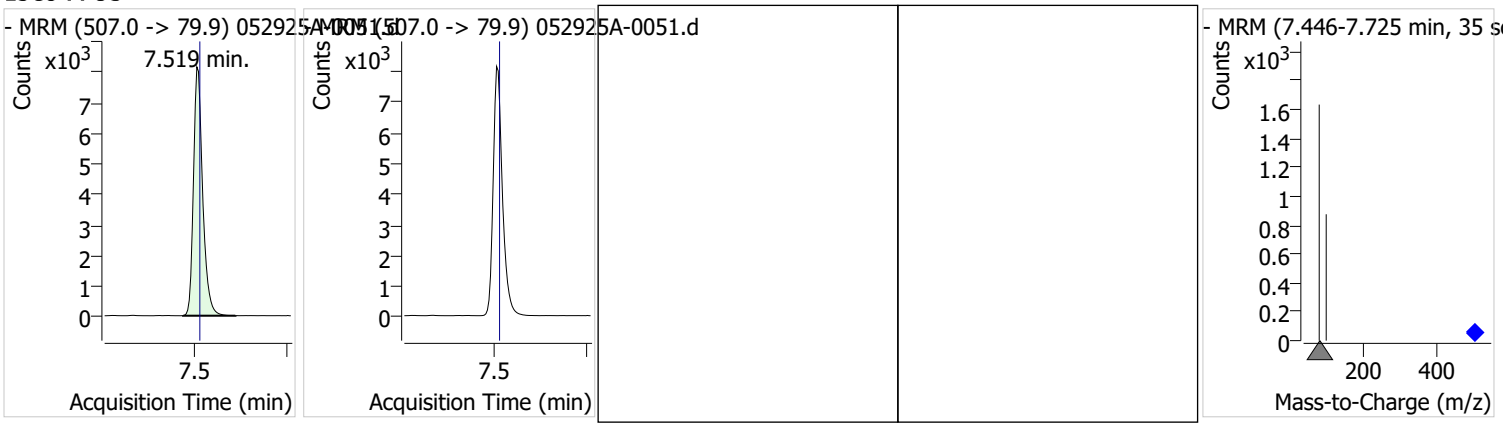
TFSI



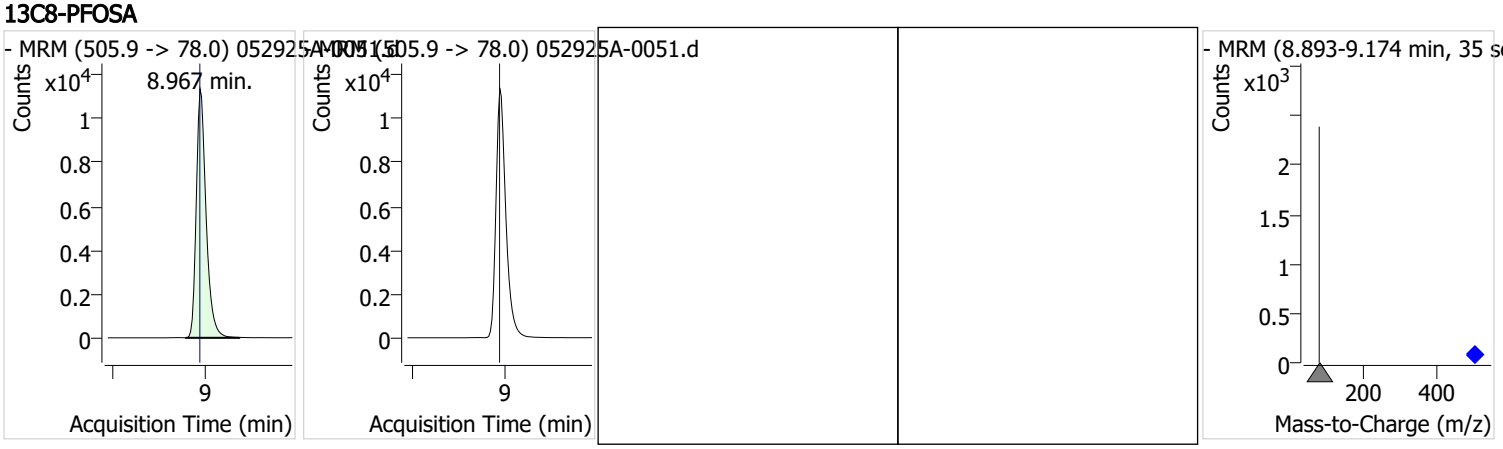
13C8-PFOA



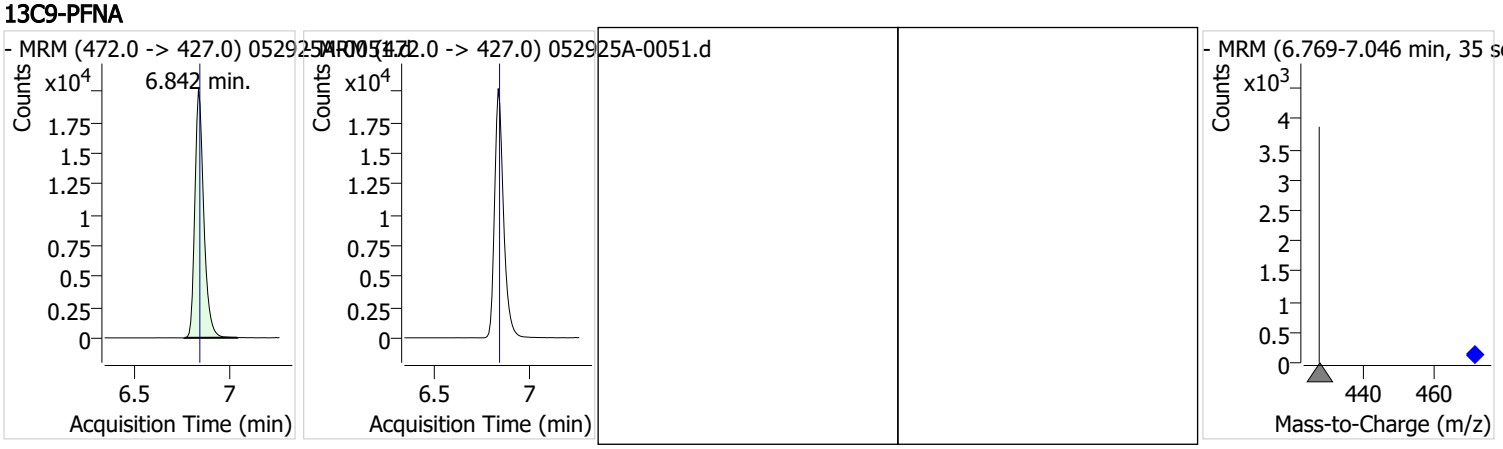
13C8-PFOS



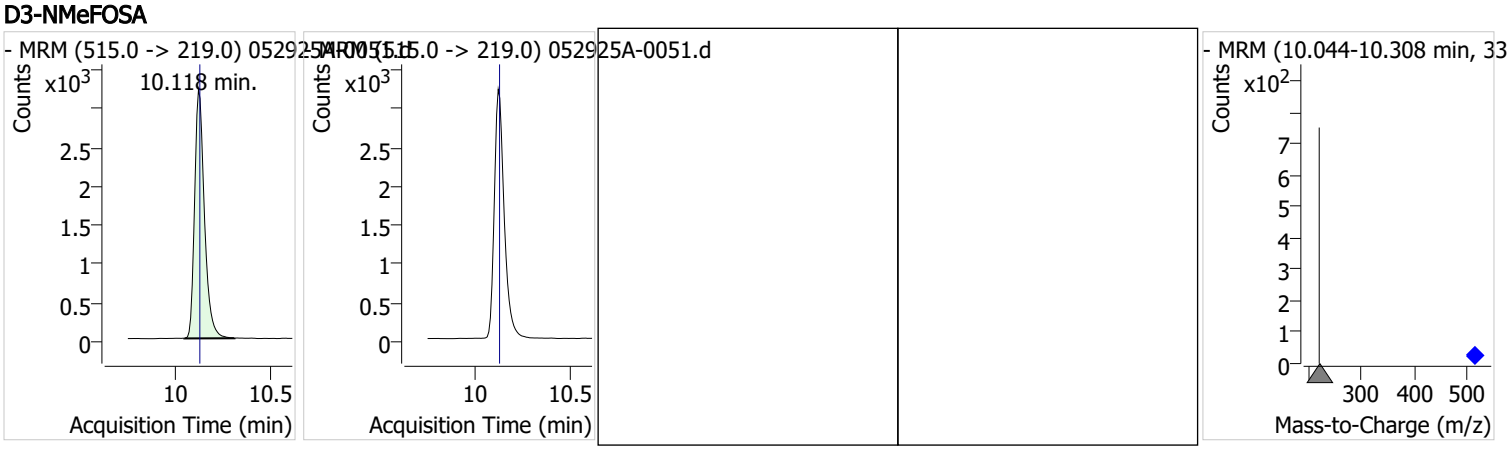
13C8-PFOSA



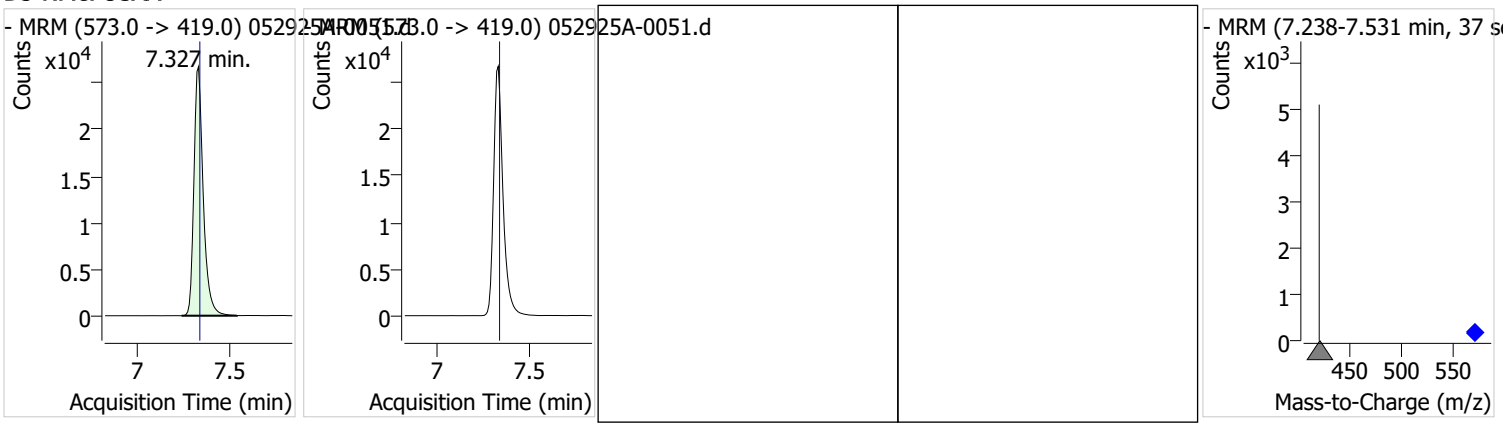
13C9-PFNA



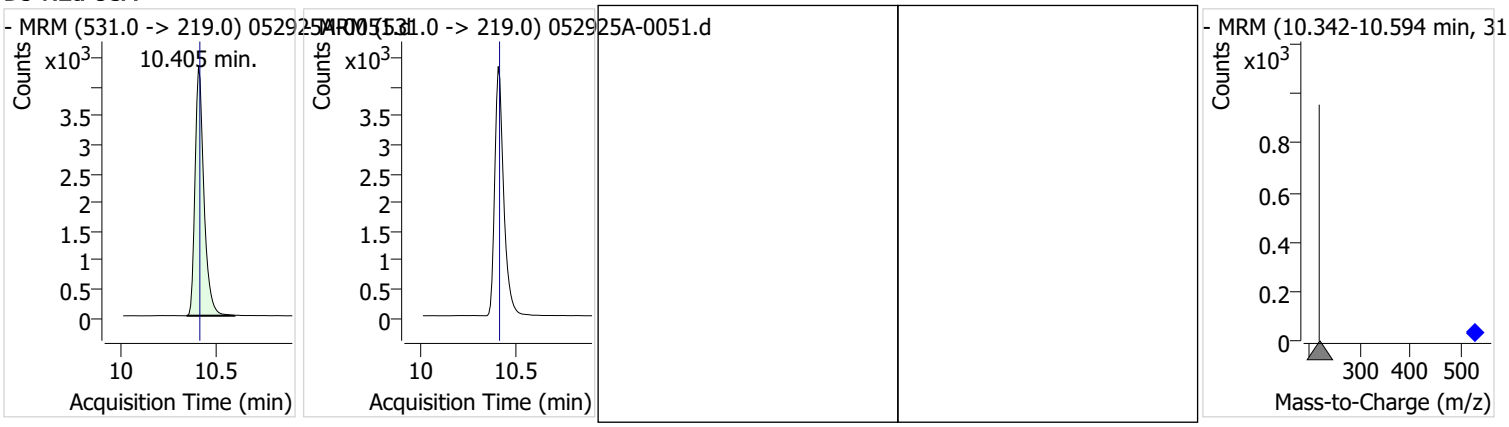
D3-NMeFOSA



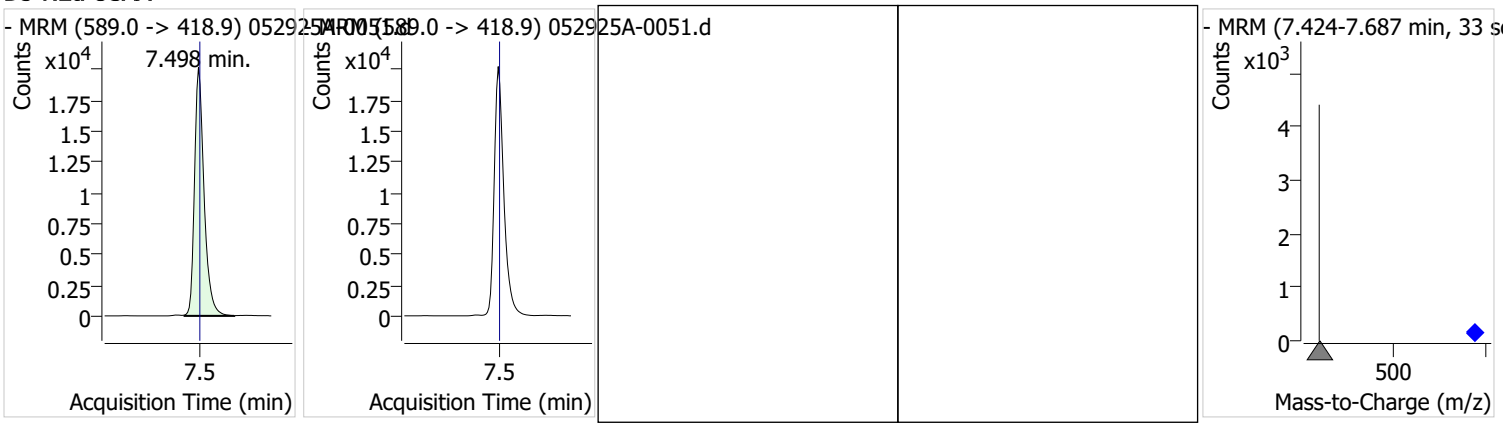
D3-NMeFOSAA



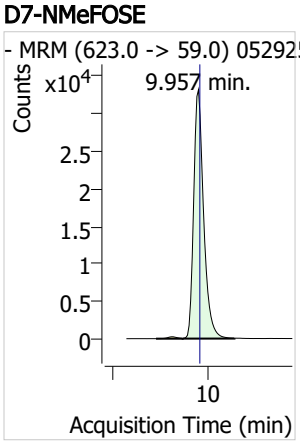
D5-NEtFOSA

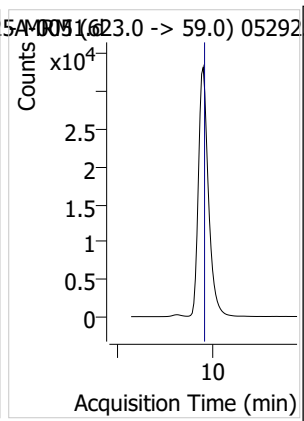


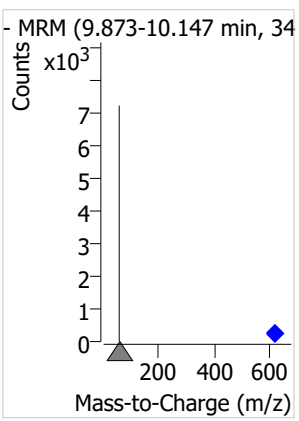
D5-NEtFOSAA



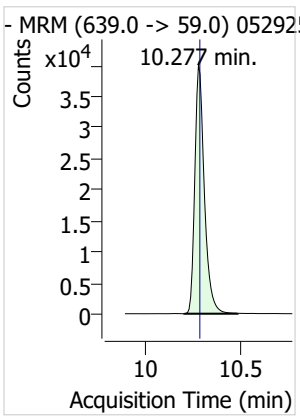
D7-NMeFOSE

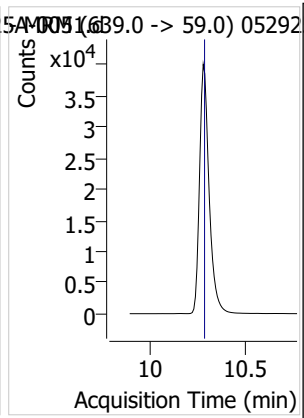


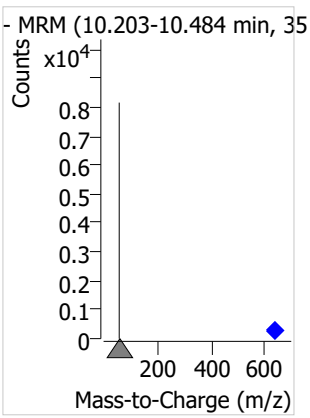




D9-NEtFOSE

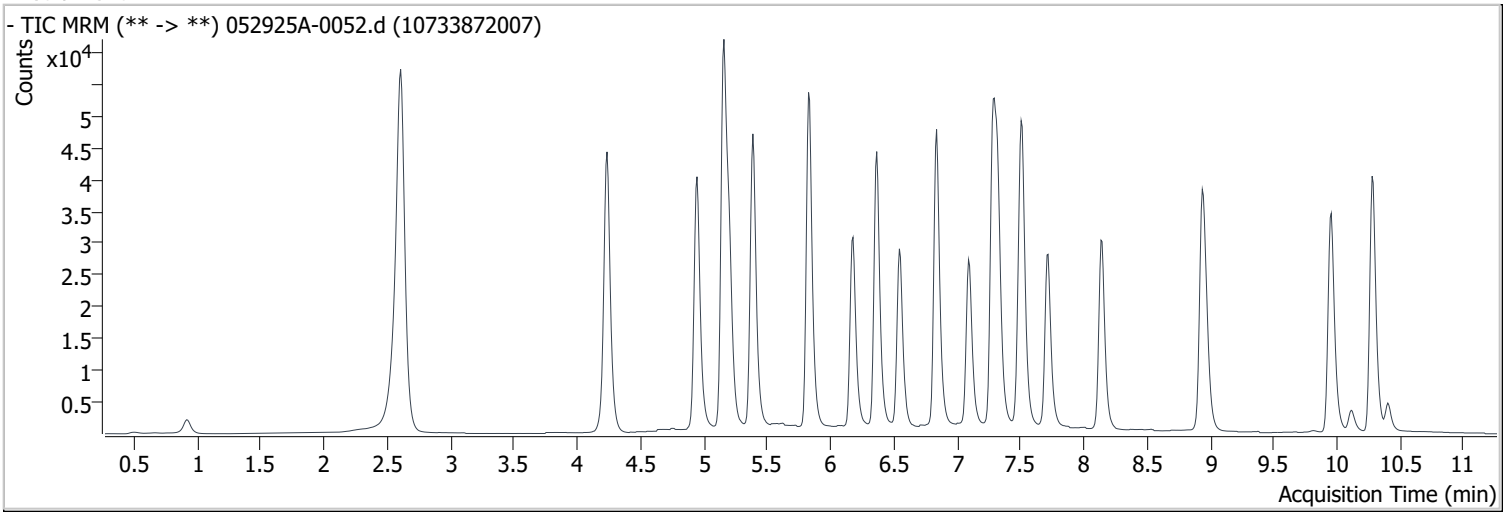






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 10:10 PM	**Data File**	052925A-0052.d
Sample Type	Sample	**Sample Name**	10733872007
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	97590	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	40742	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	27917	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.831	171268	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.092	26375	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	219841	3443.21		13C3-PFBA_ISTD	2.608	91312	9.8920	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.519	31809	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.519	31809	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.519	31809	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	40742	8963.58		18O2-PFHxS_ISTD	6.550	33880	6.9837	ng/ml			
13C2-6:2FTS	6.180	27917	8368.78		18O2-PFHxS_ISTD	6.550	33880	6.3511	ng/ml			
13C2-8:2FTS	7.092	26375	86726.43		18O2-PFHxS_ISTD	6.550	33880	5.9779	ng/ml			
13C2-PFDoA	8.138	101907	5657.59		13C2-PFDA_ISTD	7.281	70070	1.1640	ng/ml			
13C2-PFDA	7.281	70070	20991.84					1.4412	ng/ml			
13C2-PFHxA	5.162	90228	5441.81					2.9273	ng/ml			
13C2-PFTeDA	8.936	110185	7119.36		13C2-PFDA_ISTD	7.281	70070	1.1201	ng/ml			
13C4-PFOS	7.520	33682	1811.31					3.0556	ng/ml			
13C3-HFPODA	5.394	97590	7246.87		13C2-PFHxA_ISTD	5.162	90228	10.1231	ng/ml			
13C3-PFBS	5.205	56325	6938.13		18O2-PFHxS_ISTD	6.550	33880	2.4350	ng/ml			
13C3-PFHxS	6.551	39649	2631.67		18O2-PFHxS_ISTD	6.550	33880	2.5314	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	80555	-	ng/ml			
584.0 -> 526.0				*								

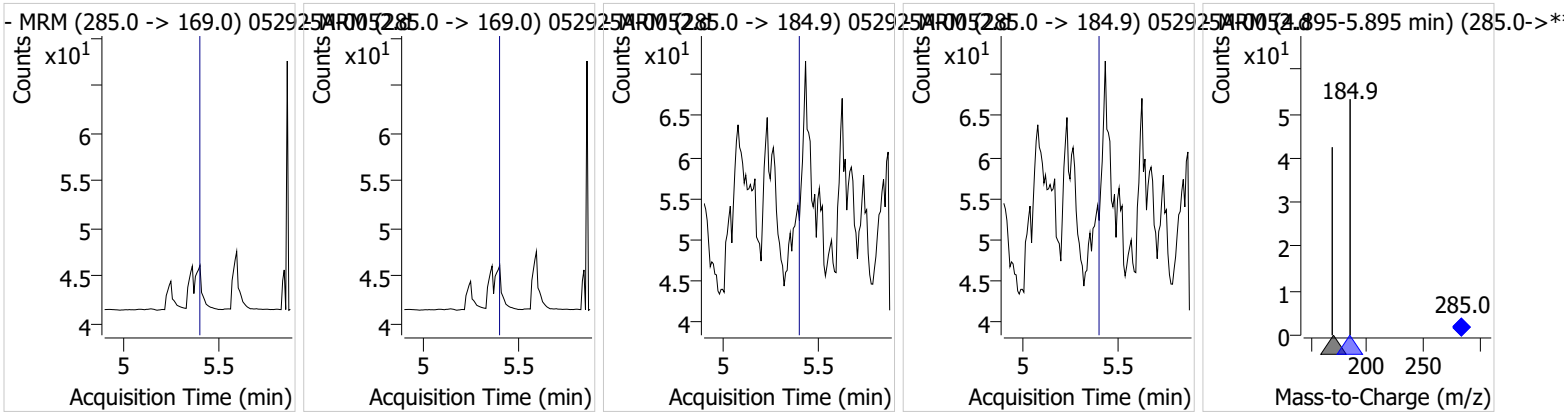
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.831	171268	14945.64		13C2-PFHxA_ISTD	5.162	90228	2.6730	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.319	108602	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.606	219841	-	ng/ml			
13C5-PFHxA	5.161	101869	600629.51		13C2-PFHxA_ISTD	5.162	90228	2.5433	ng/ml			
PFBS	5.377	0	0.00		13C3-PFBS_ISTD	5.205	56325	-	ng/ml	✔	INT	MJL 5/30/25
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	11571	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.281	80253	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.138	101907	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	13312	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.831	171268	-	ng/ml			
362.9 -> 169.0				*								
PFHxA					13C5-PFHxA_ISTD	5.161	101869	-	ng/ml			
313.0 -> 118.9				*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	125454	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.551	39649	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	77459	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	140542	-	ng/ml			
PFOA	6.300	867	20.98		13C8-PFOA_ISTD	6.368	113722	0.0161	ng/ml			
413.0 -> 169.0	6.369	105	57.47	**12.1								
PFOS	7.399	505	80.18		13C8-PFOS_ISTD	7.519	31809	0.0268	ng/ml			
499.0 -> 99.0	7.402	262	44.70	51.8								
PFPeA					13C5-PFPeA_ISTD	4.237	163897	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	219841	-	ng/ml			
13C5-PFPeA	4.237	163897	44113.61		13C2-PFHxA_ISTD	5.162	90228	5.1290	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	163897	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.138	101907	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	101869	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.281	80253	190201.45		13C2-PFDA_ISTD	7.281	70070	1.2164	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	101869	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.967	45290	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	91565	27023.74		13C2-PFDA_ISTD	7.281	70070	1.2426	ng/ml			
13C4-PFOA	6.369	24634	7630.67					2.9793	ng/ml			
PFDS					13C8-PFOS_ISTD	7.519	31809	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.519	31809	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.551	39649	-	ng/ml			
349.0 -> 98.9				*								

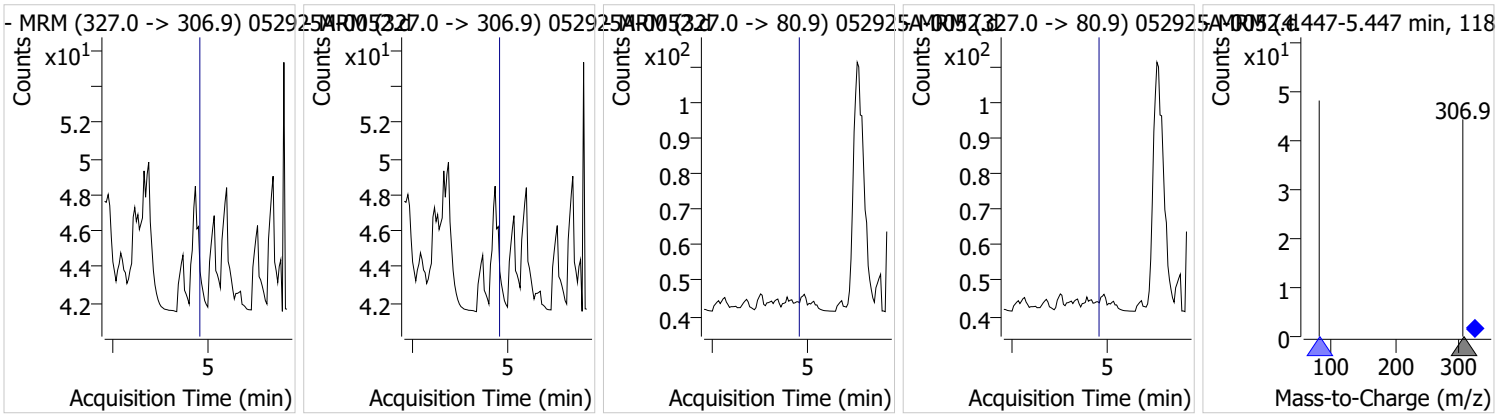
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA					13C2-PFTeDA_ISTD	8.936	110185	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	91565	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.608	91312	1879.38					6.0127	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	163897	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	101869	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	77459	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	72911	22616.39					1.5417	ng/ml			
18O2-PFHxS	6.550	33880	131342.39					2.9826	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.519	31809	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.519	31809	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.670	0	0.00		13C3-PFPrA_ISTD	0.916	10098	-	ng/ml	✔	INT	MJL 5/30/25
13C3-PFPrA	0.916	10098	2673.07		13C3-PFBA_ISTD	2.608	91312	1.0223	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	97590	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	113722	13830.21		13C4-PFOA_ISTD	6.369	24634	2.4640	ng/ml			
13C8-PFOS	7.519	31809	7088.77		13C4-PFOS_ISTD	7.520	33682	2.4147	ng/ml			
13C8-PFOSA	8.967	45290	12616.15		13C4-PFOS_ISTD	7.520	33682	2.3910	ng/ml			
13C9-PFNA	6.842	77459	23753.94		13C5-PFNA_ISTD	6.842	72911	1.2024	ng/ml			
D3-NMeFOSA	10.118	11571	2256.42		13C4-PFOS_ISTD	7.520	33682	1.9173	ng/ml			
D3-NMeFOSAA	7.319	108602	516365.41		13C4-PFOS_ISTD	7.520	33682	5.1839	ng/ml			
D5-NEtFOSA	10.405	13312	1102.39		13C4-PFOS_ISTD	7.520	33682	1.8350	ng/ml			
D5-NEtFOSAA	7.498	80555	23078.80		13C4-PFOS_ISTD	7.520	33682	5.0630	ng/ml			
D7-NMeFOSE	9.957	125454	16250.88		13C4-PFOS_ISTD	7.520	33682	21.6535	ng/ml			
D9-NEtFOSE	10.277	140542	40052.90		13C4-PFOS_ISTD	7.520	33682	21.8454	ng/ml			

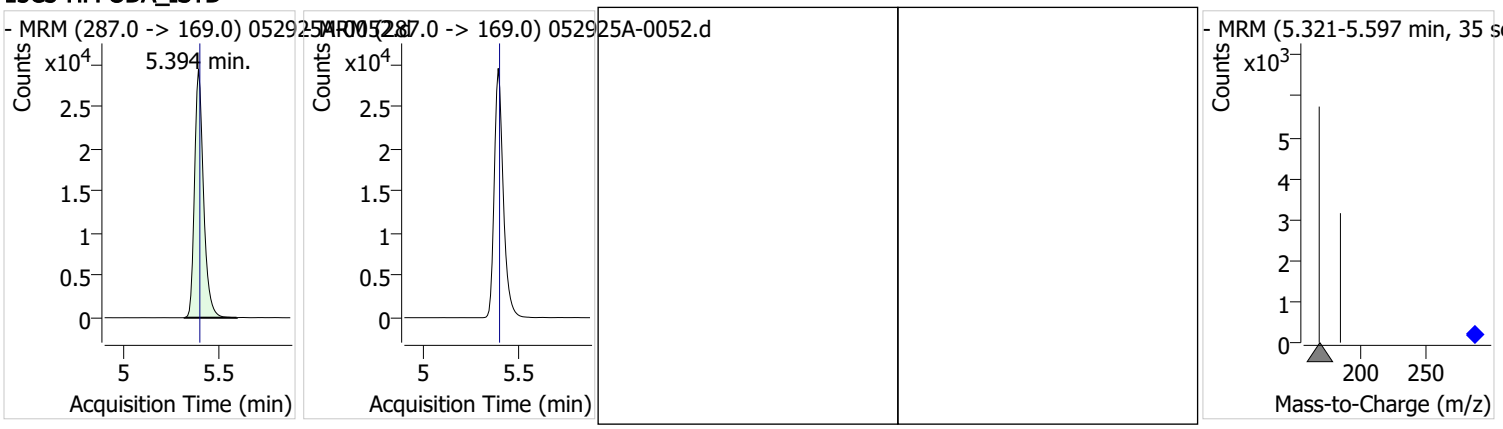
HFPO-DA



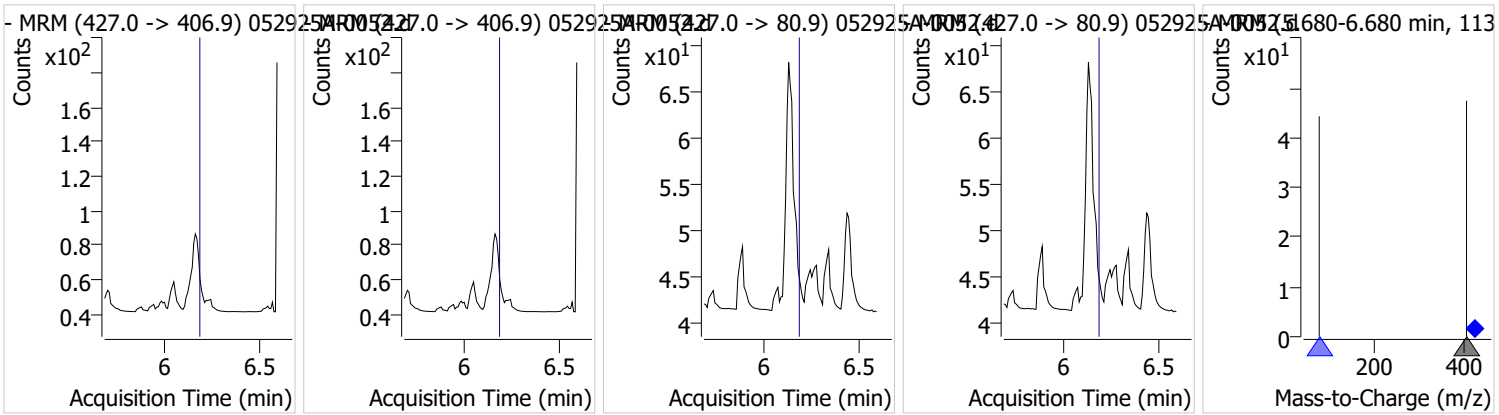
4:2FTS



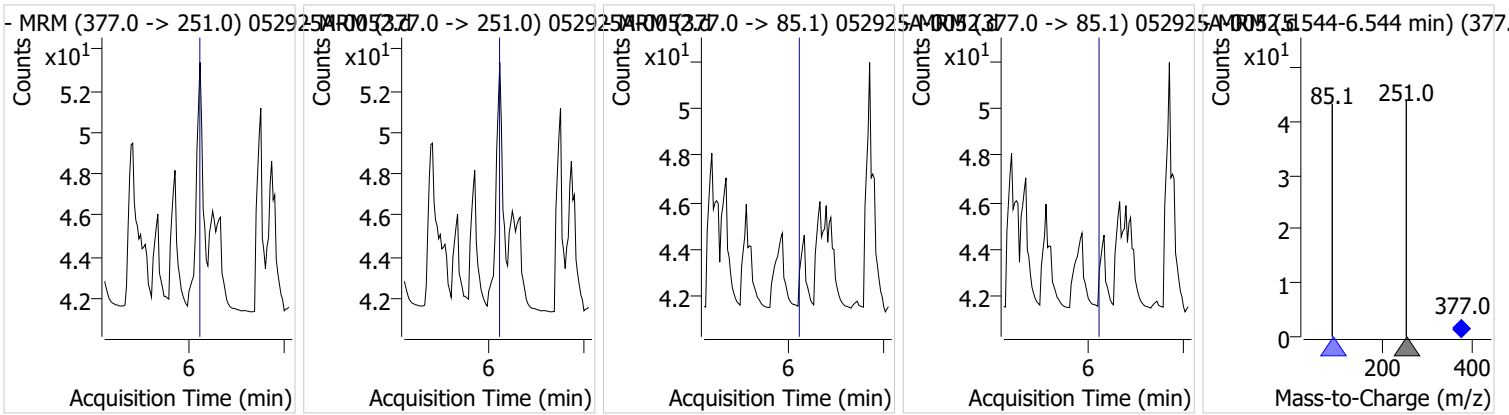
13C3-HFPODA_ISTD



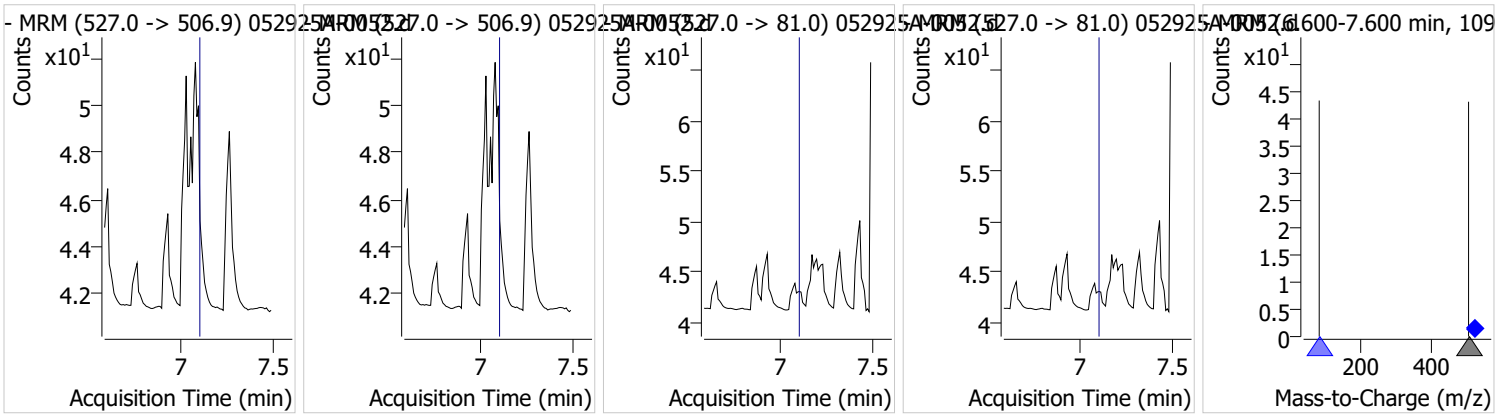
6:2FTS



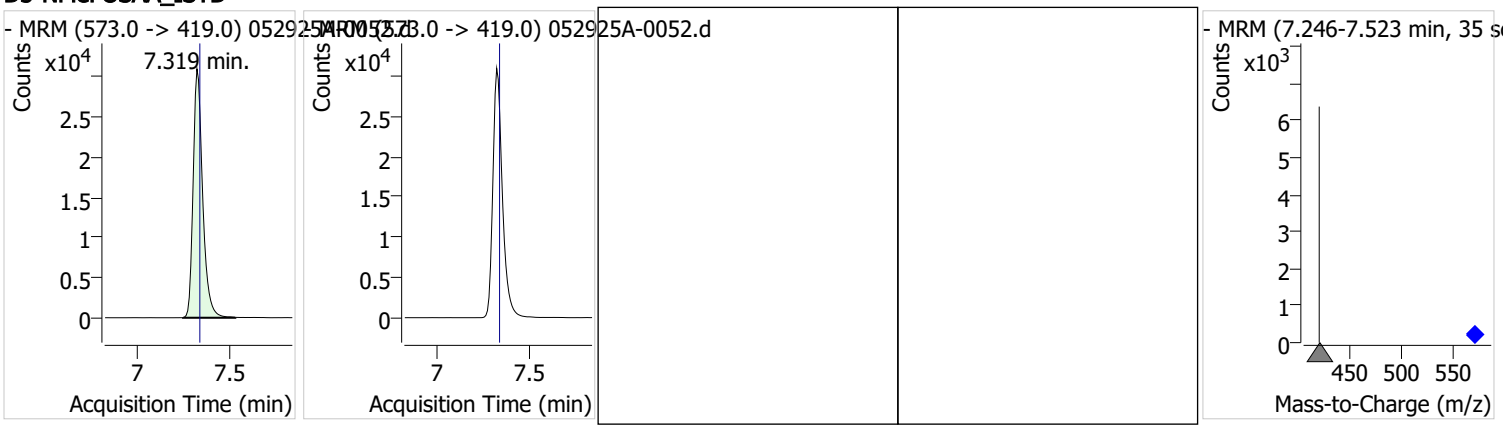
ADONA



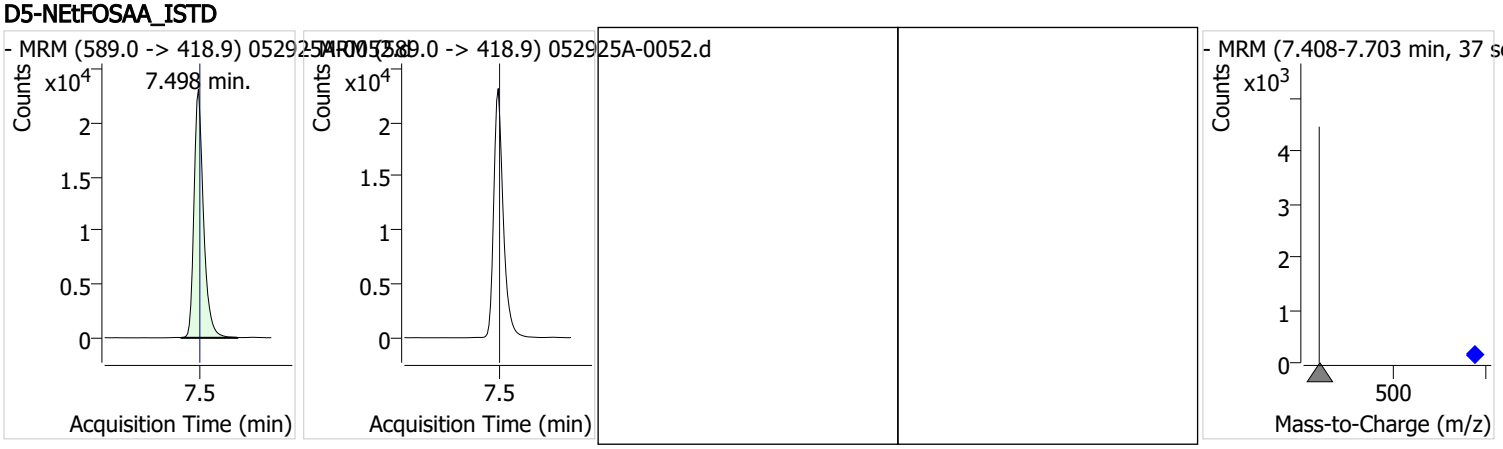
8:2FTS



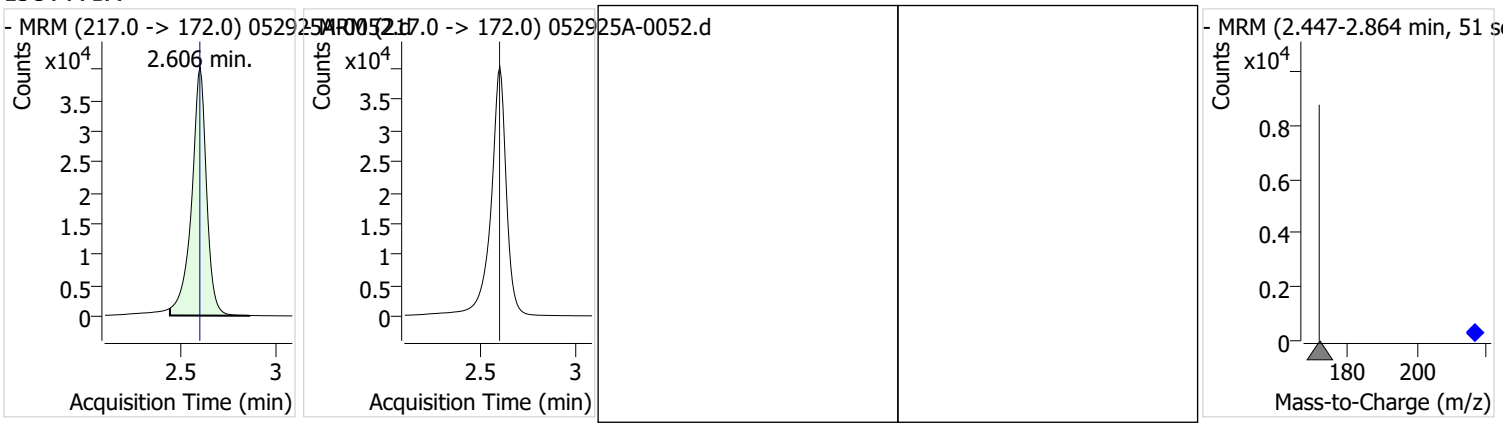
D3-NMeFOSAA_ISTD



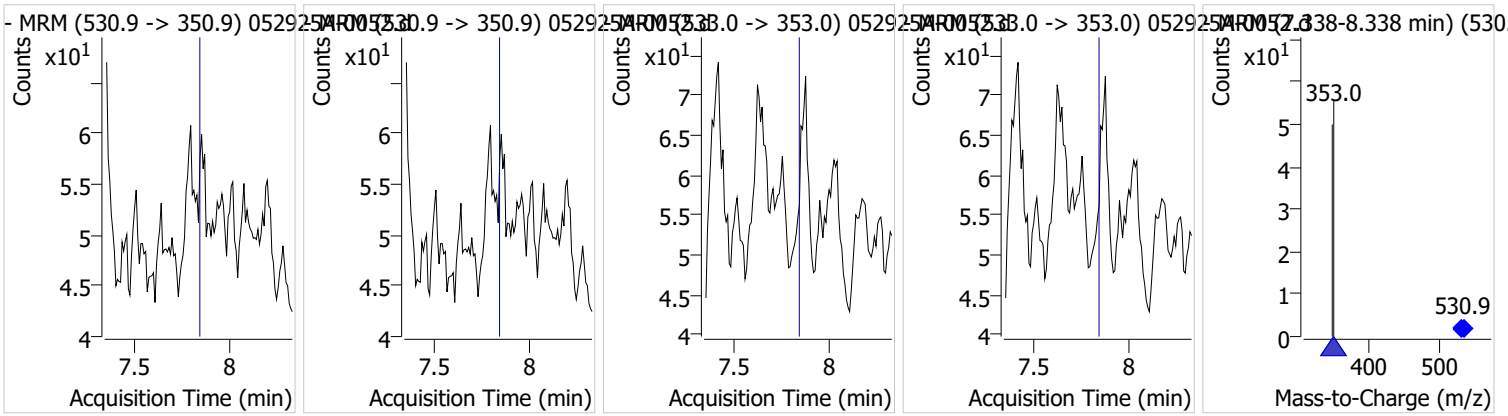
D5-NEtFOSAA_ISTD



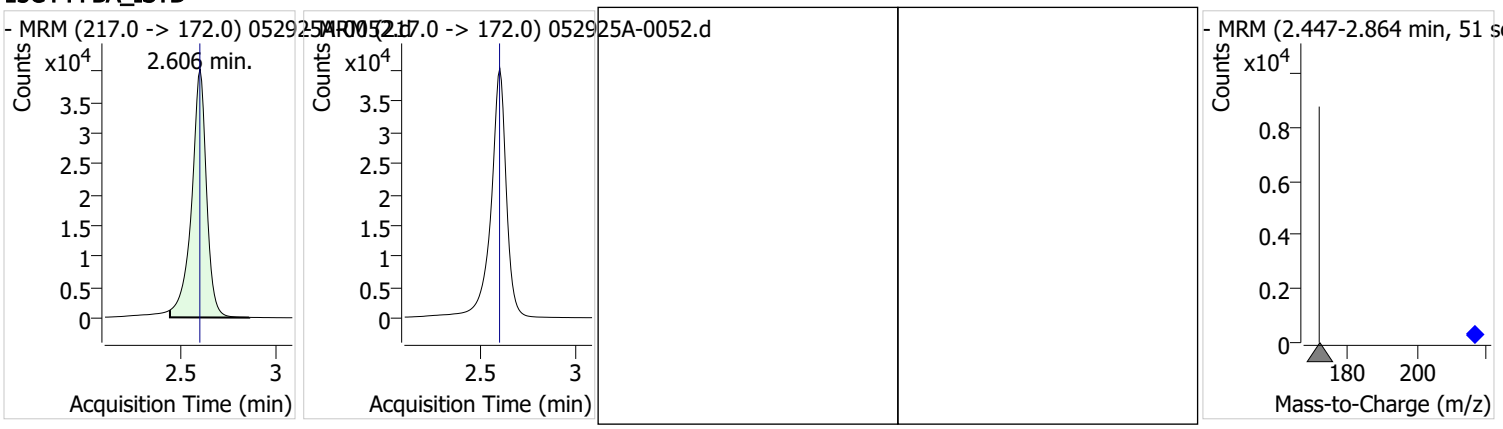
13C4-PFBA



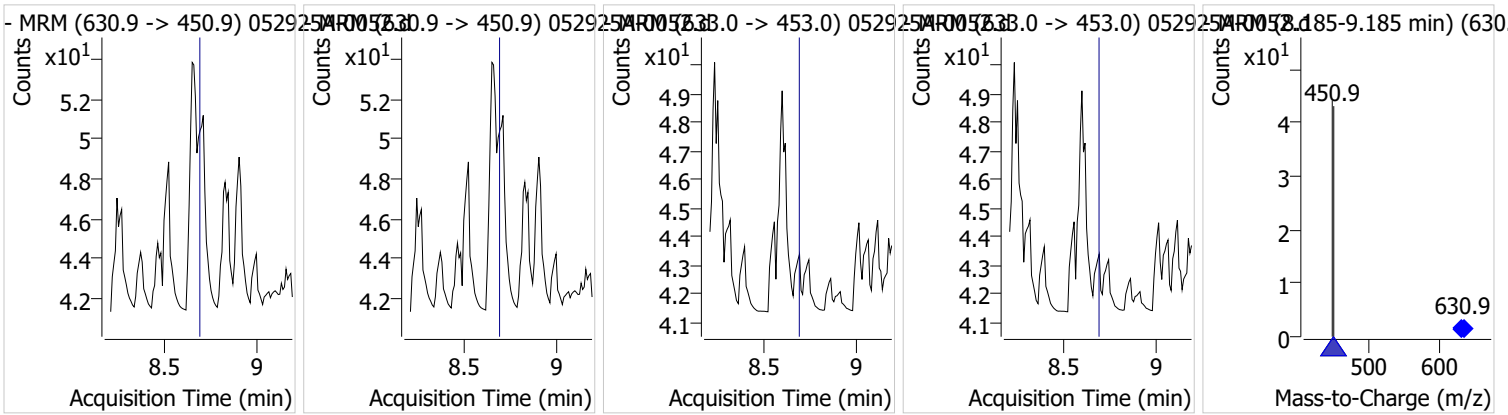
9Cl-PF3ONS



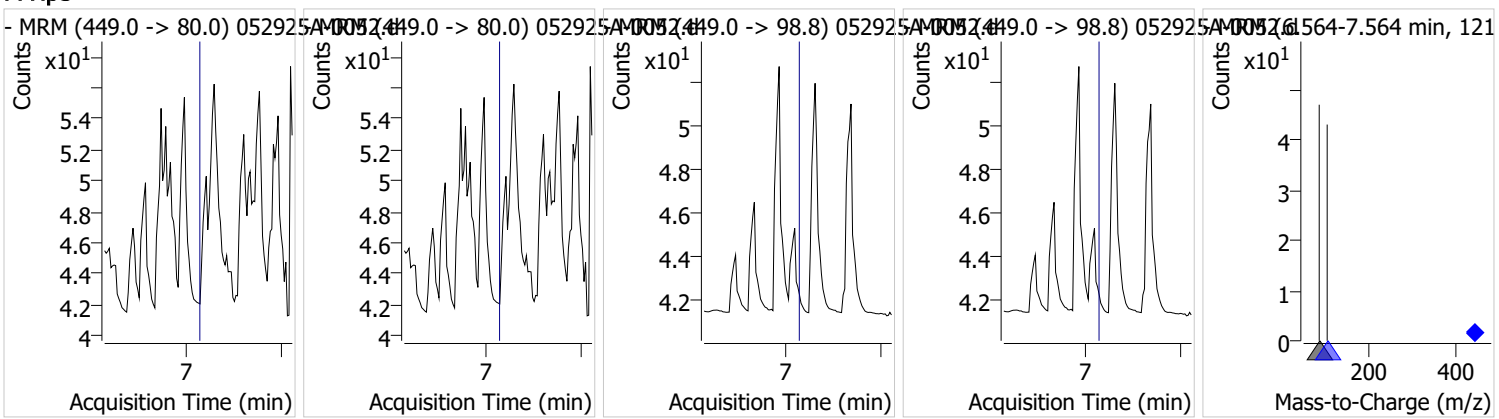
13C4-PFBA_ISTD



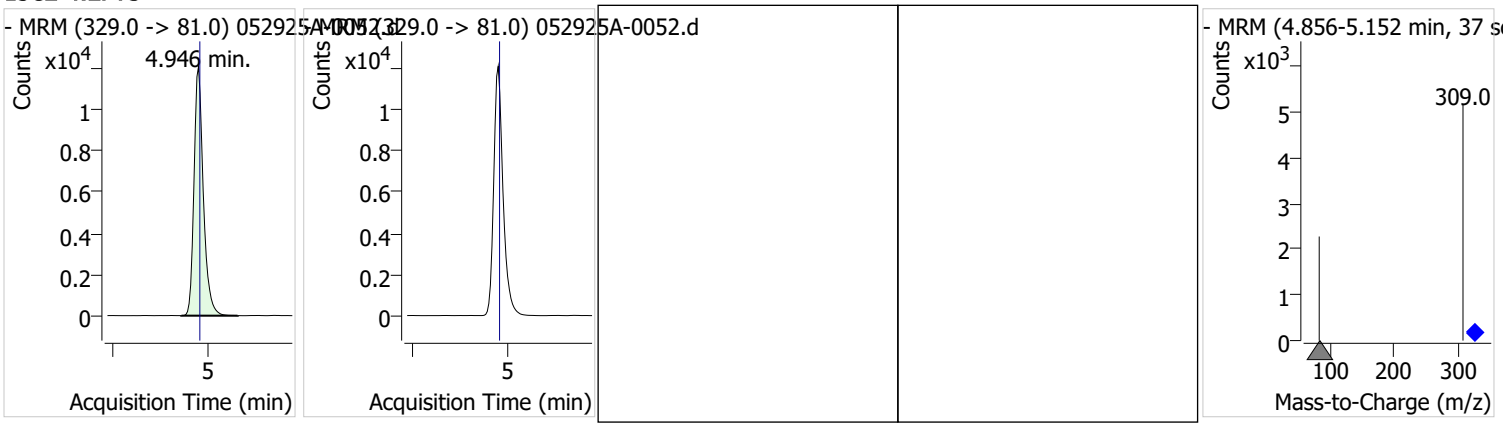
11Cl-PF3OUdS



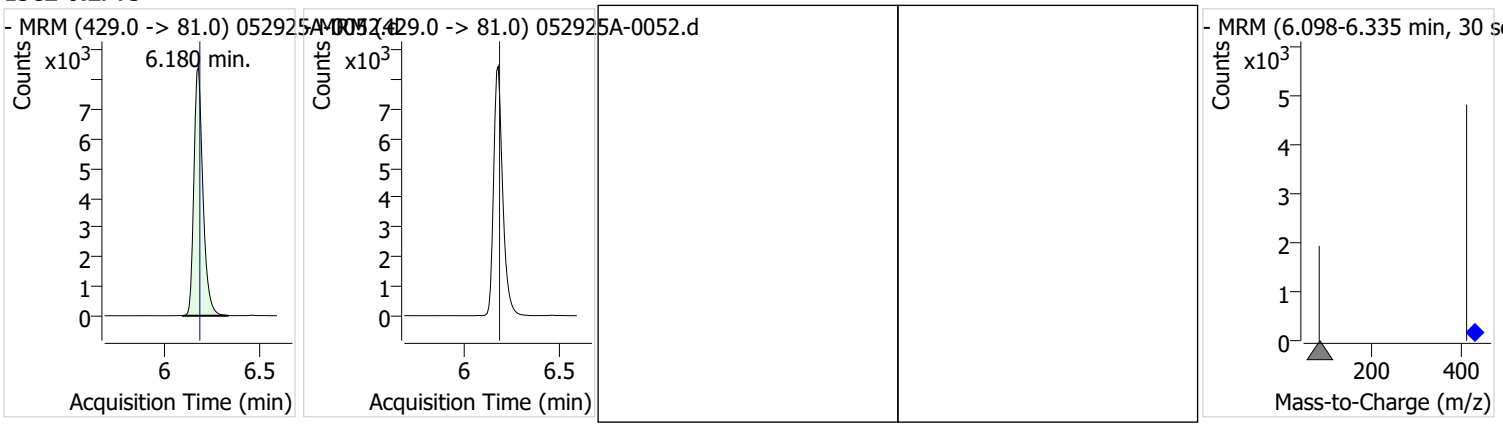
PFHpS



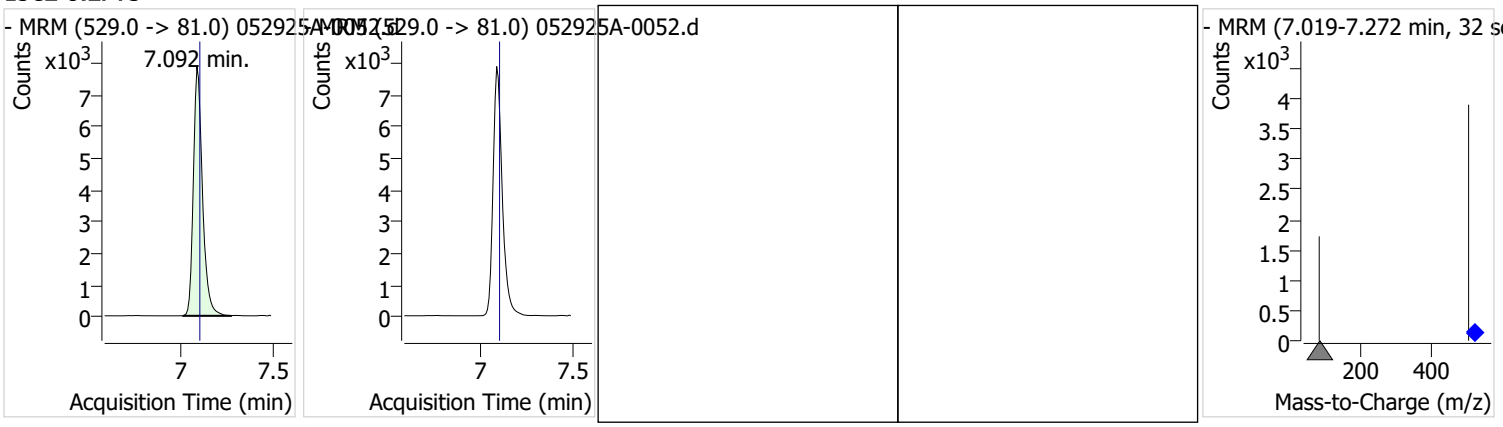
13C2-4:2FTS



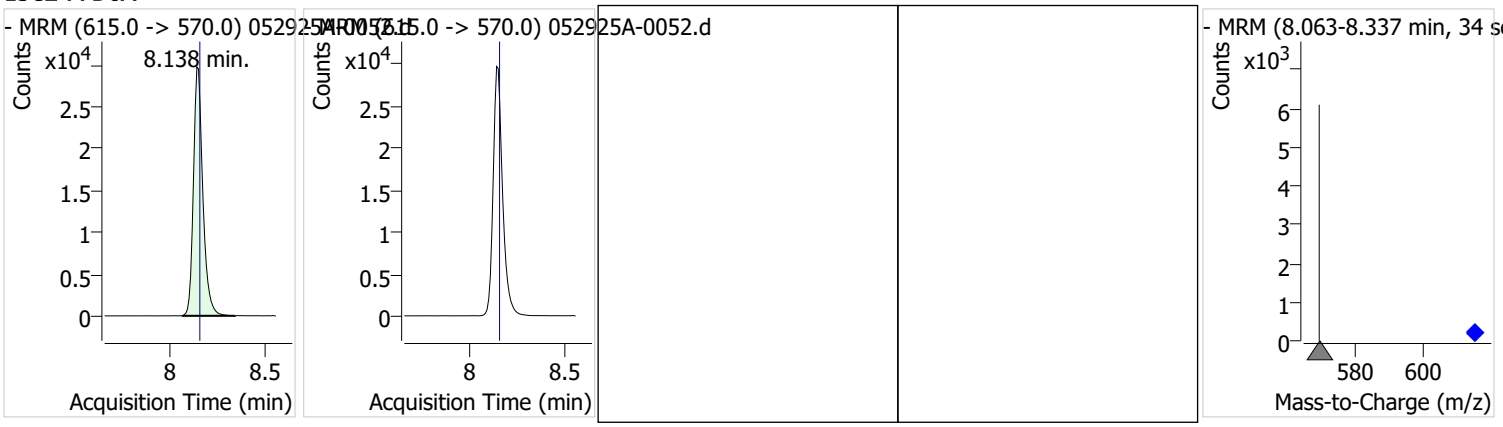
13C2-6:2FTS



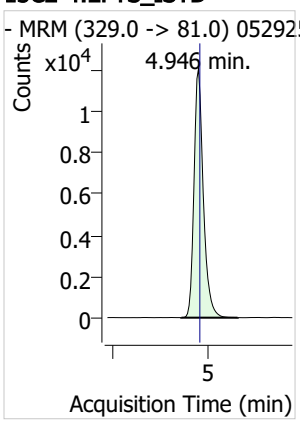
13C2-8:2FTS

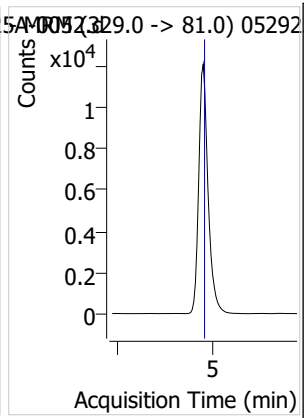


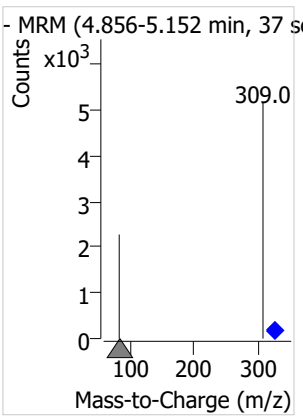
13C2-PFDoA



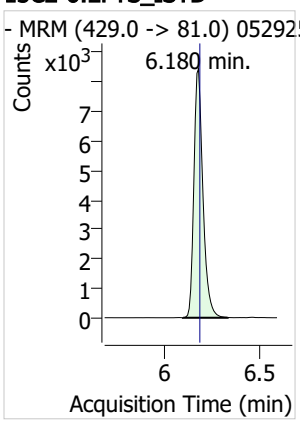
13C2-4:2FTS_ISTD

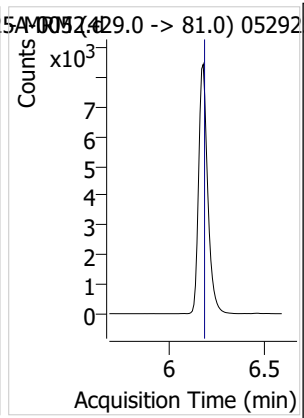


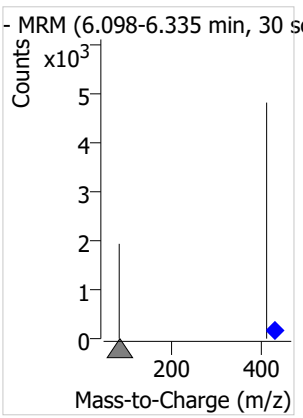




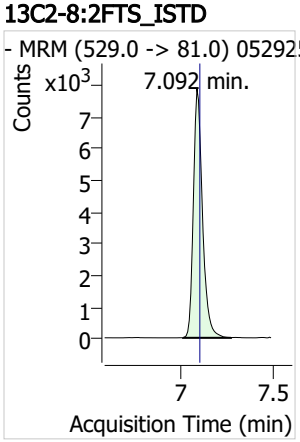
13C2-6:2FTS_ISTD

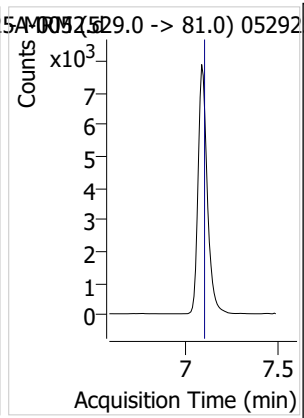


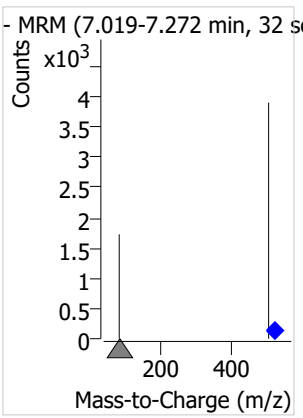




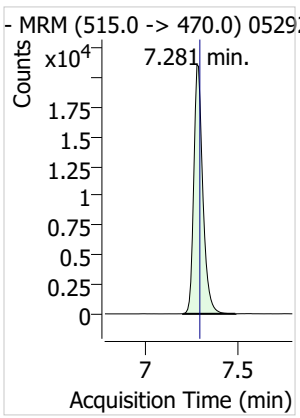
13C2-8:2FTS_ISTD

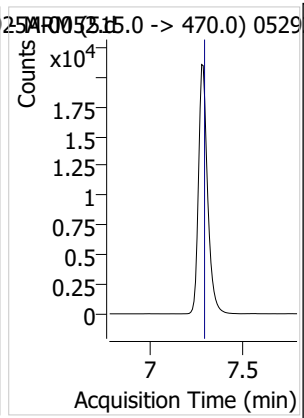


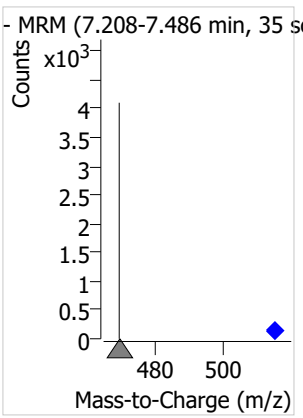




13C2-PFDA



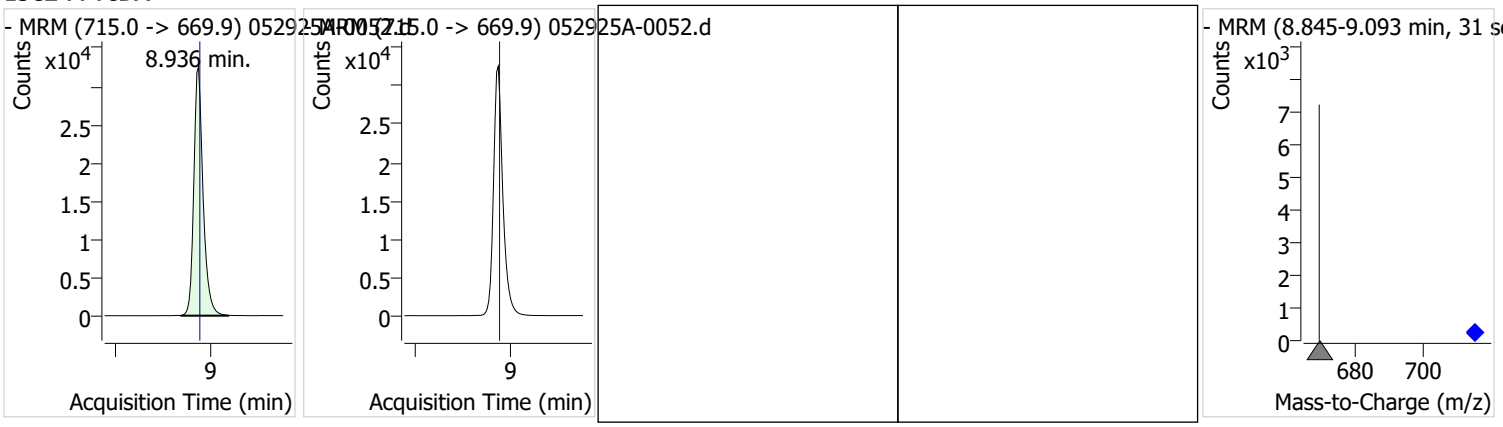




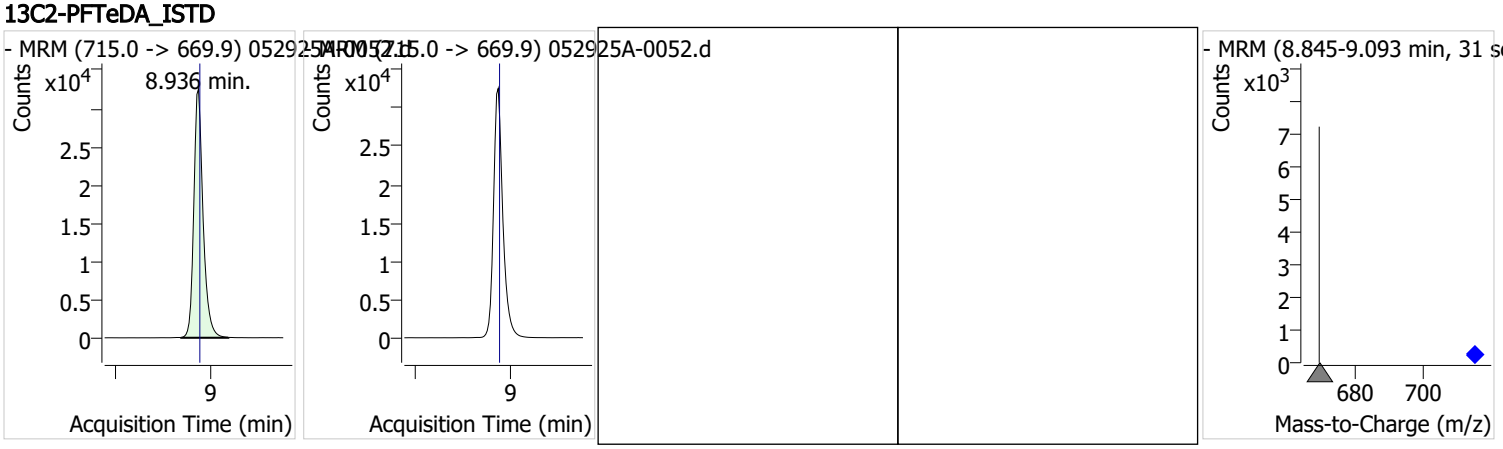
13C2-PFHxA



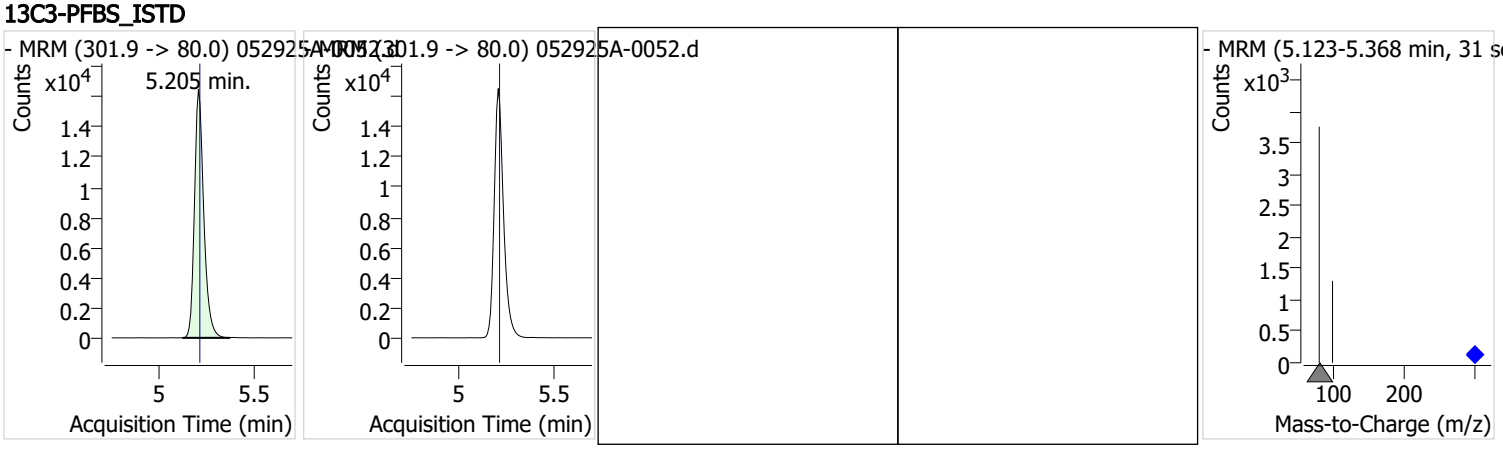
13C2-PFTeDA



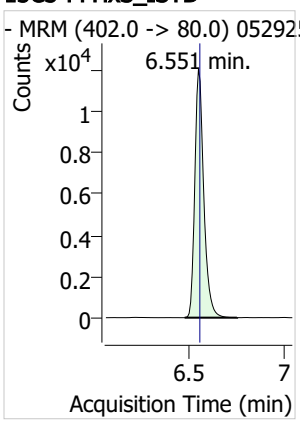
13C2-PFTeDA_ISTD

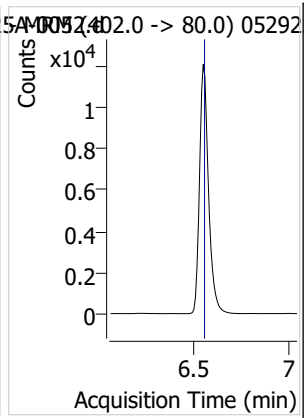


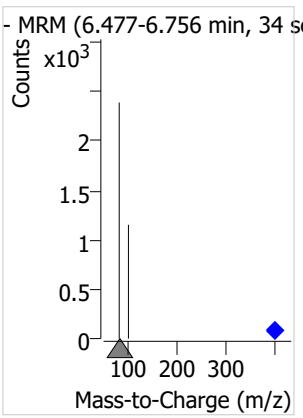
13C3-PFBS_ISTD



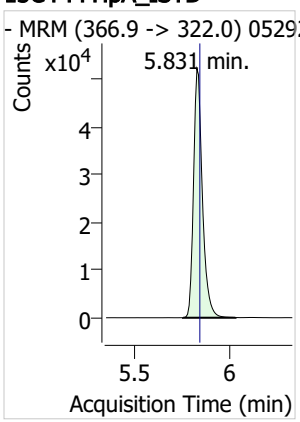
13C3-PFHxS_ISTD

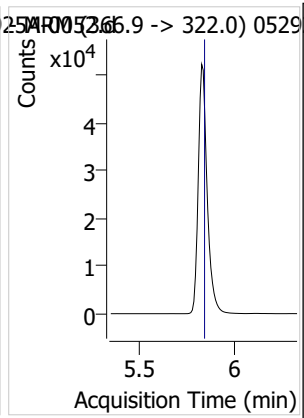


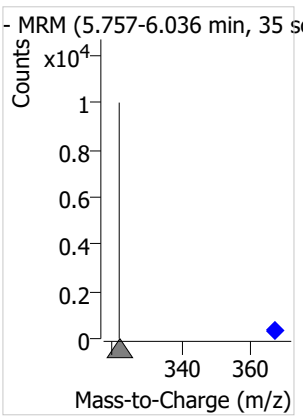




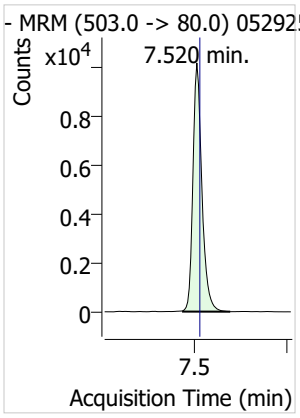
13C4-PFHpA_ISTD

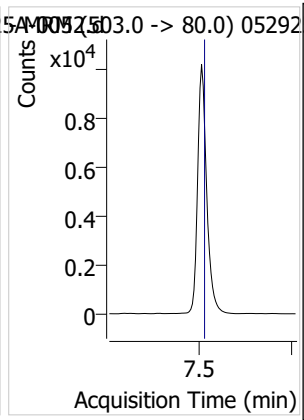


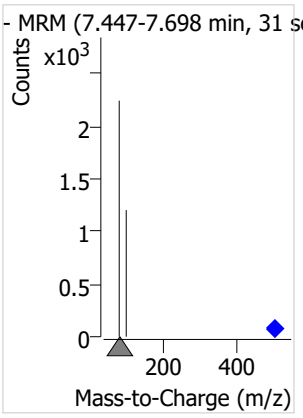




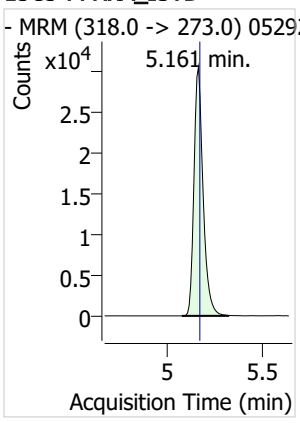
13C4-PFOS

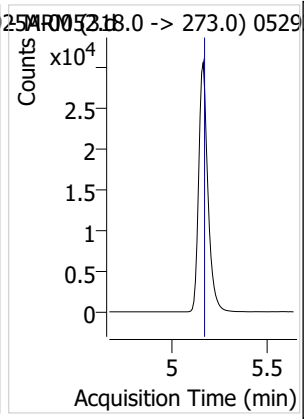


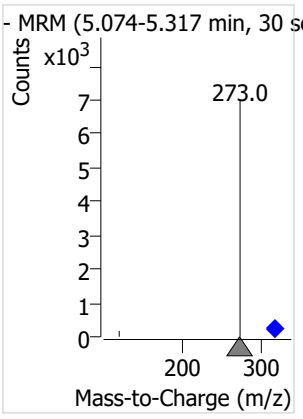




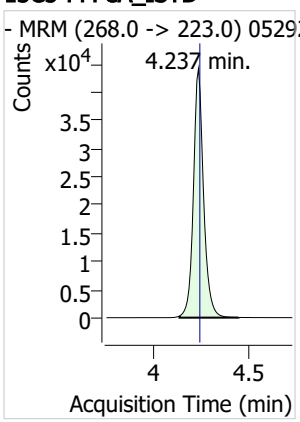
13C5-PFHxA_ISTD

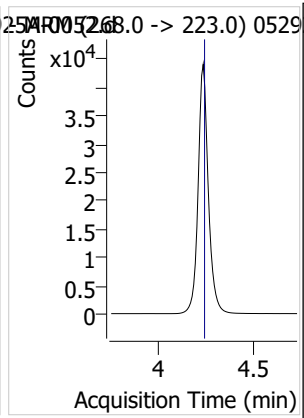


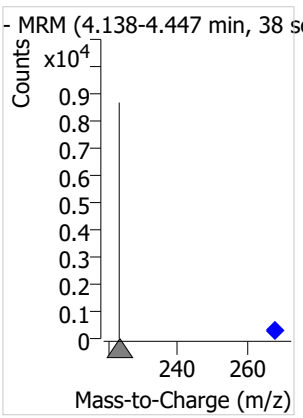




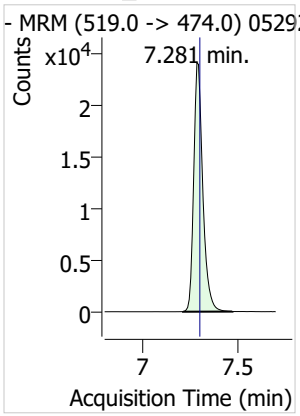
13C5-PFPeA_ISTD

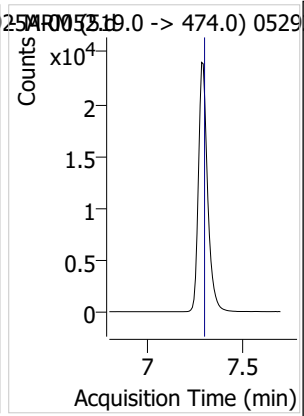


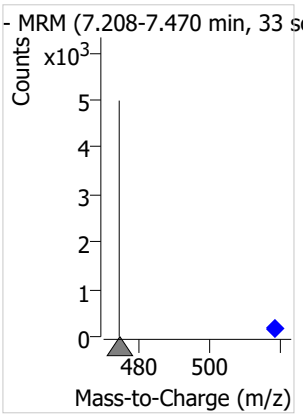




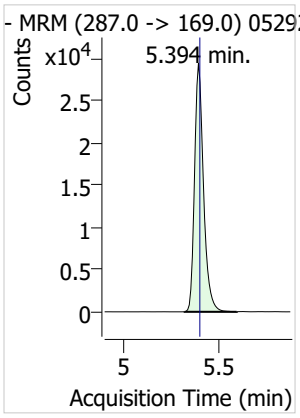
13C6-PFDA_ISTD

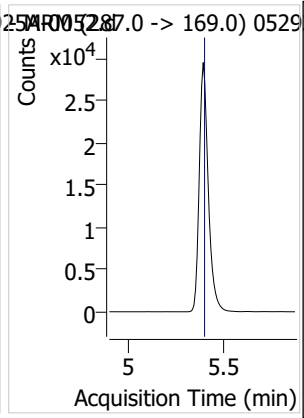


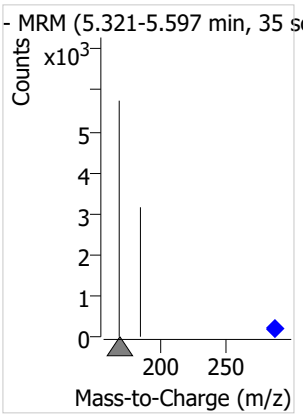




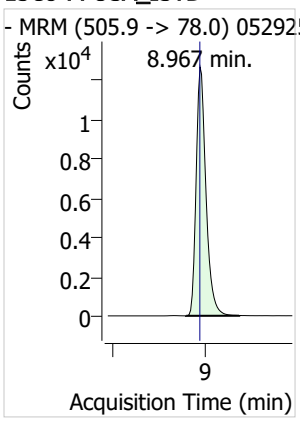
13C3-HFPODA

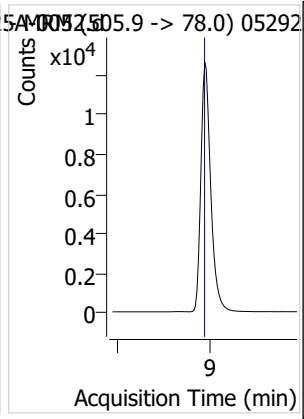


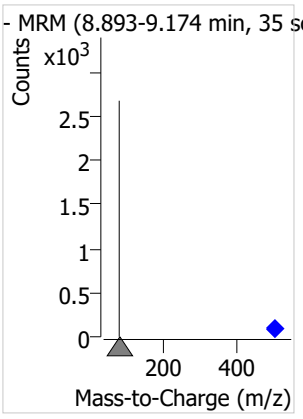




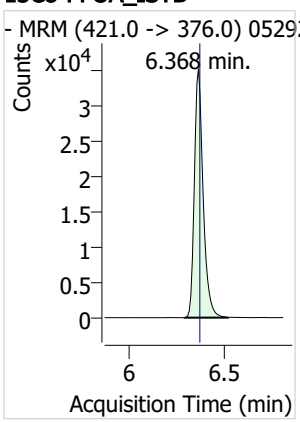
13C8-PFOSA_ISTD

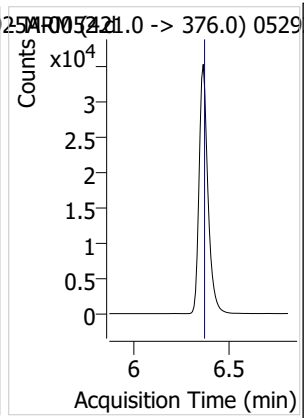


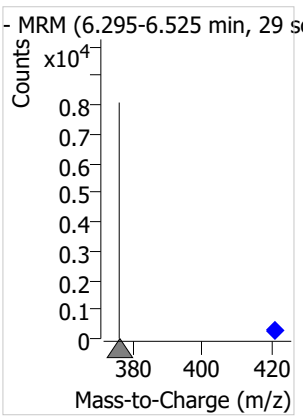




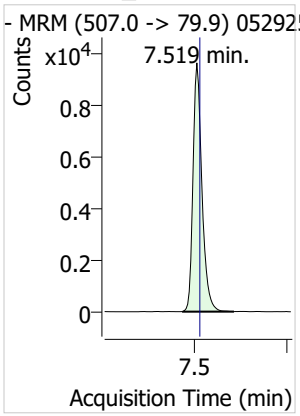
13C8-PFOA_ISTD

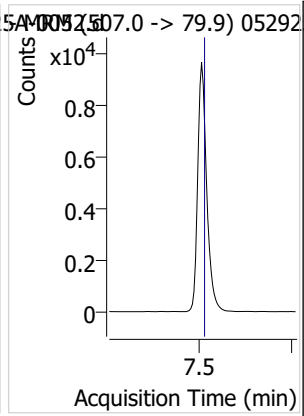


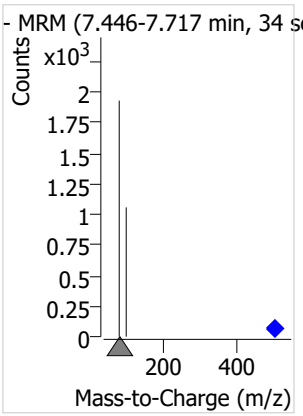




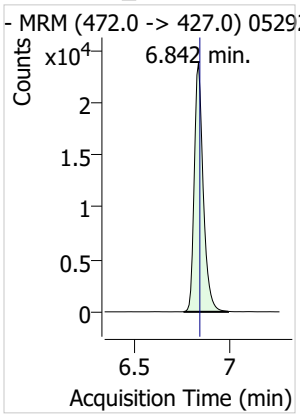
13C8-PFOS_ISTD

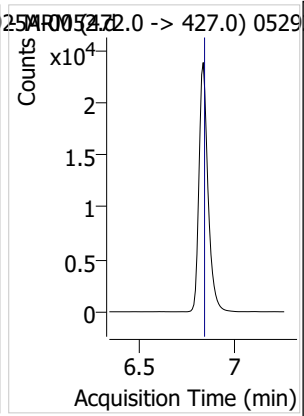


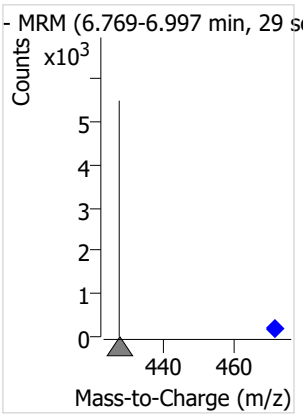




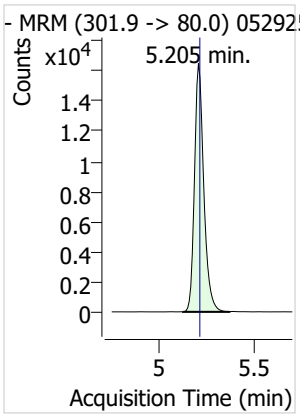
13C9-PFNA_ISTD

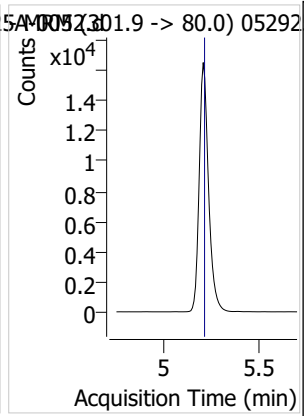


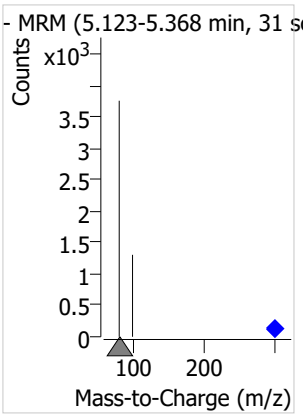




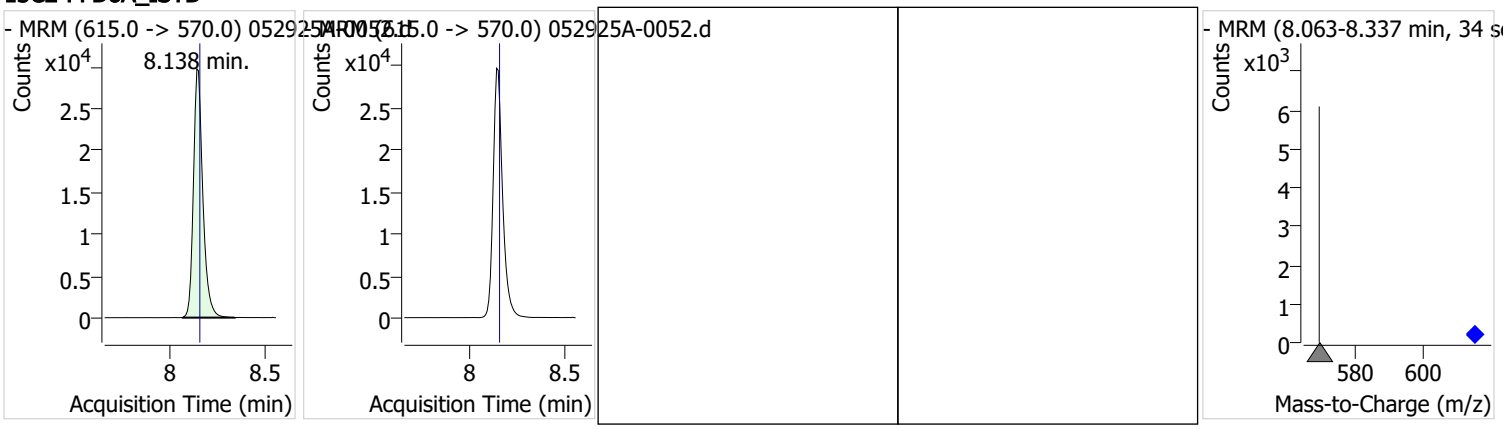
13C3-PFBS



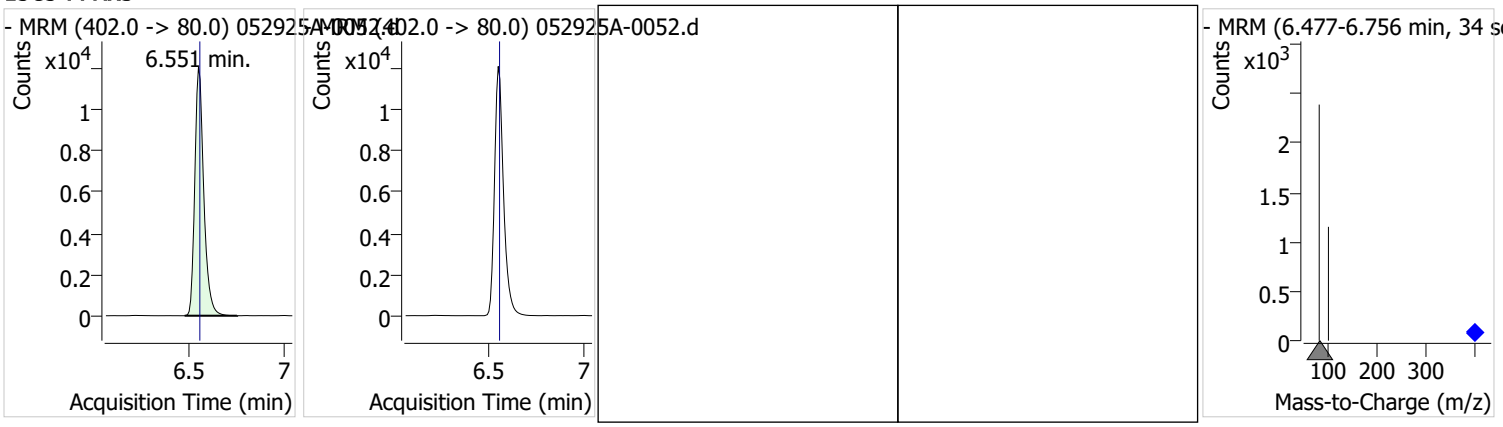




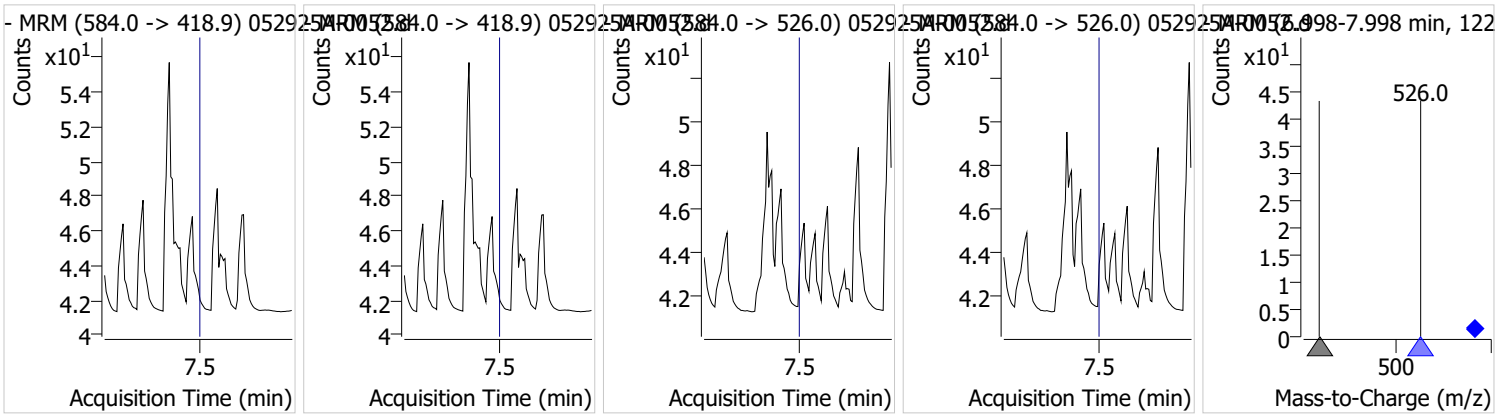
13C2-PFDoA_ISTD



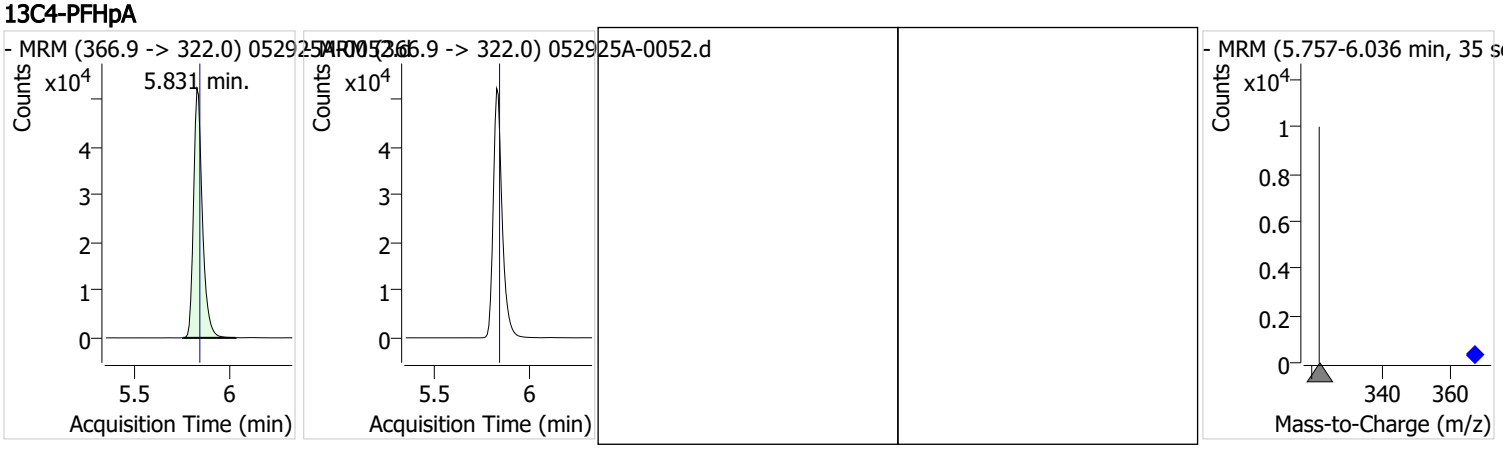
13C3-PFHxS



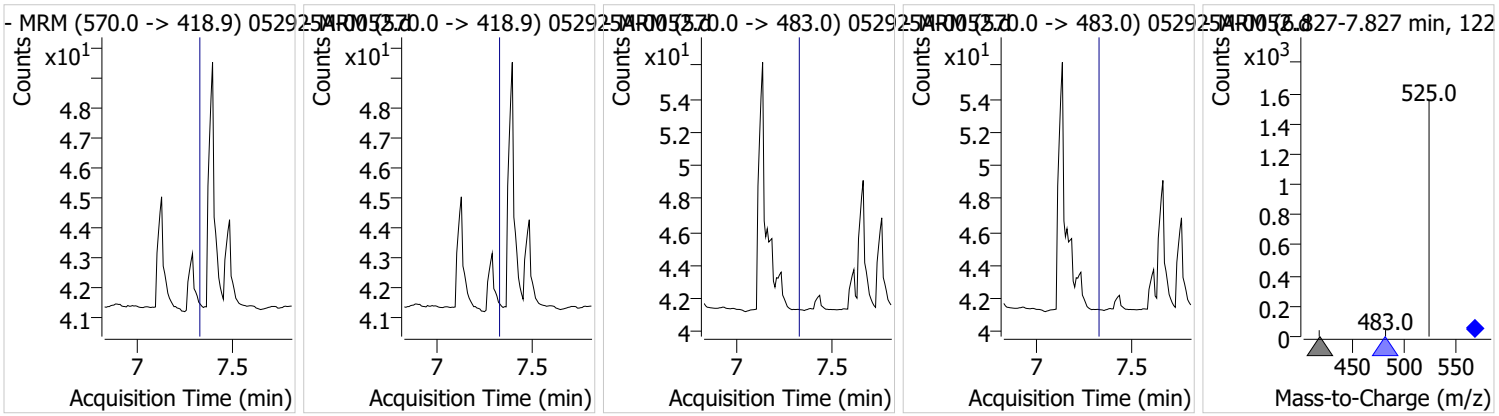
NEtFOSAA



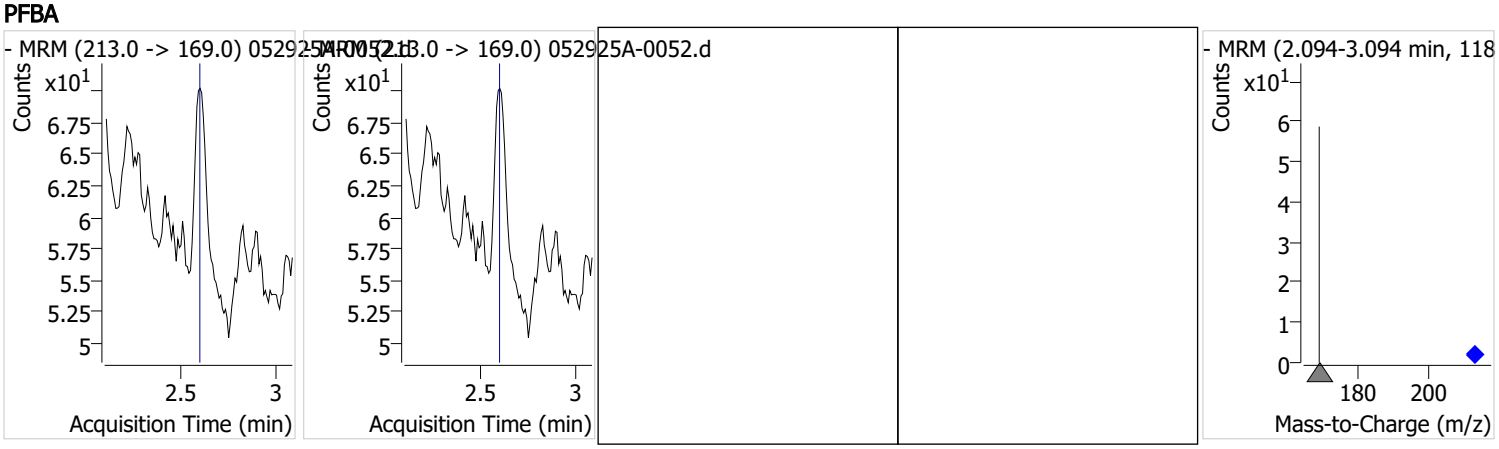
13C4-PFHpA



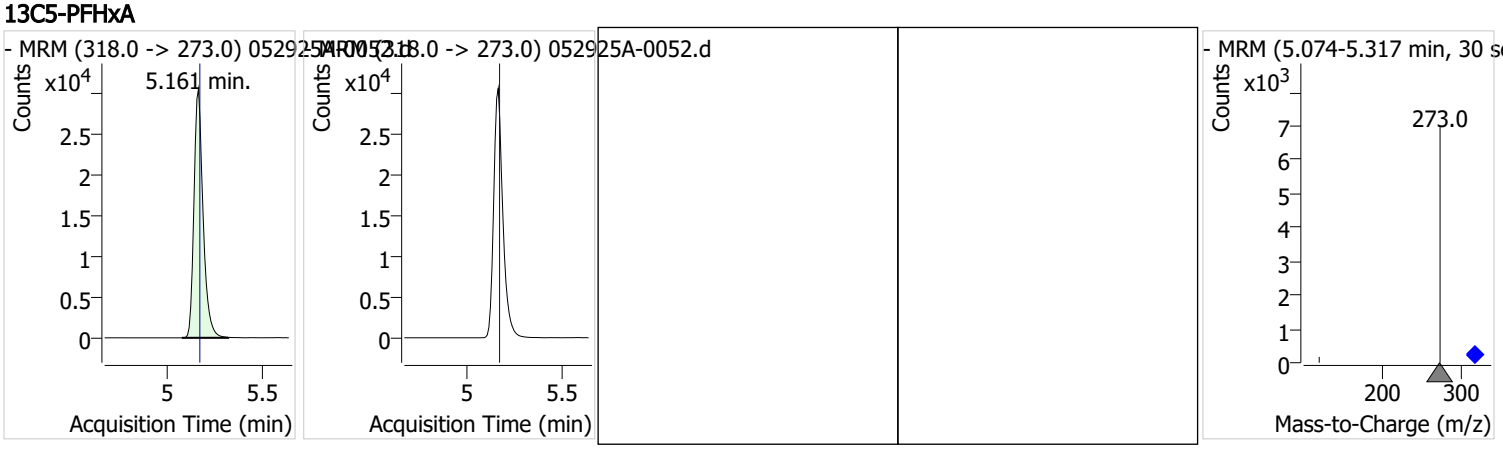
NMeFOSAA



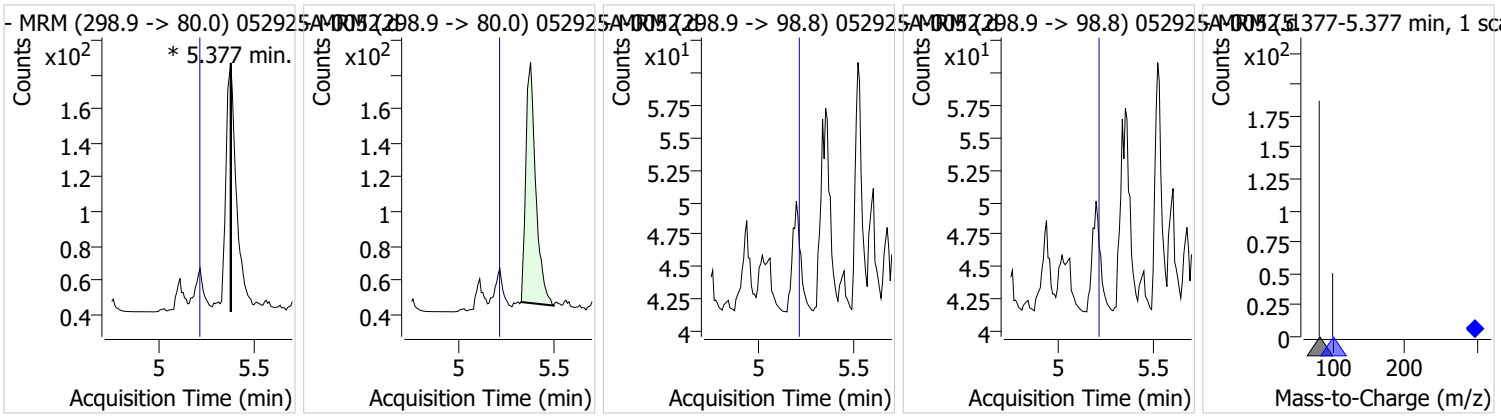
PFBA



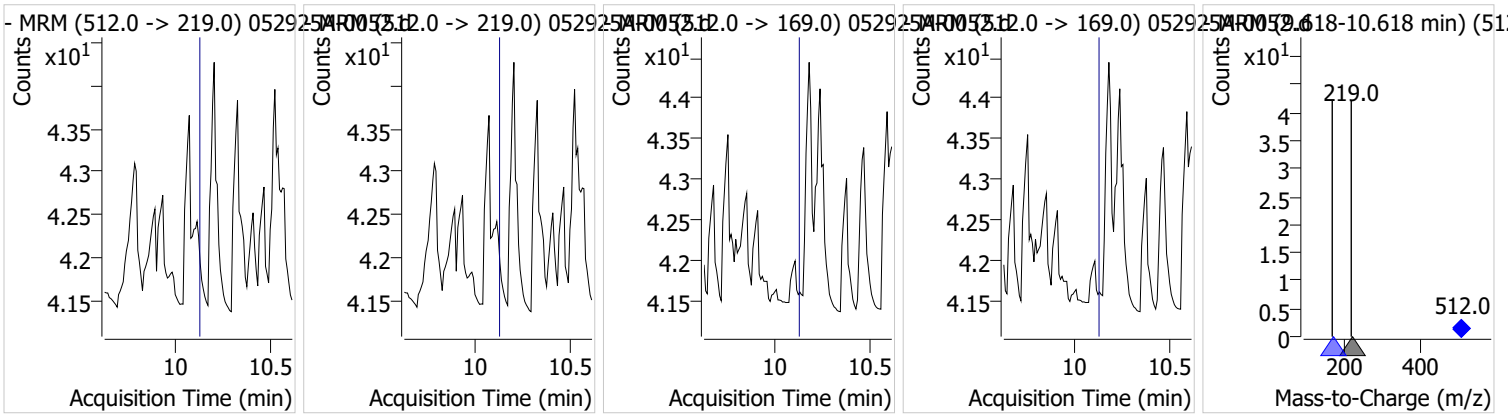
13C5-PFHxA



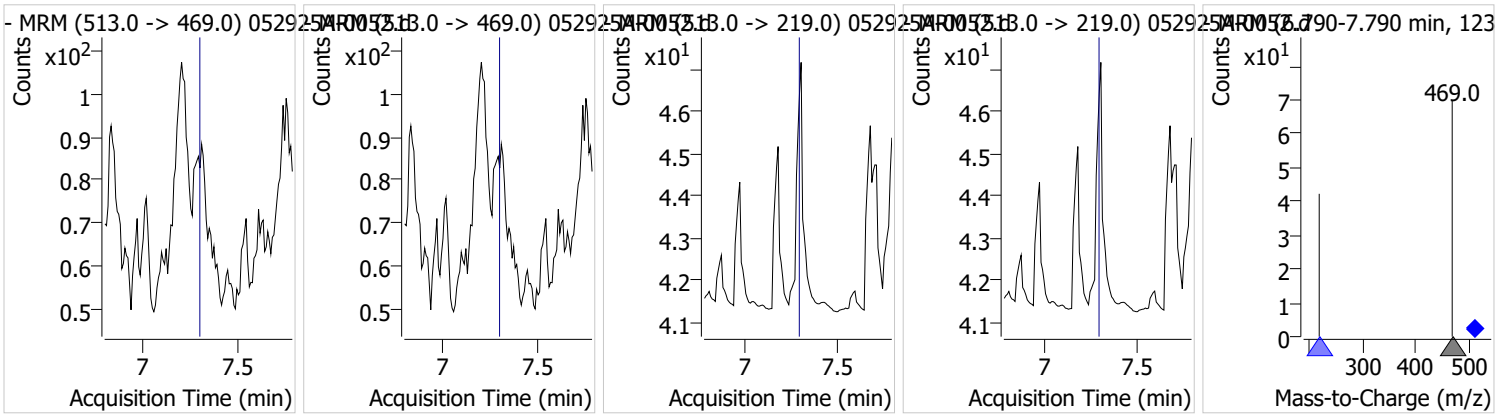
PFBS



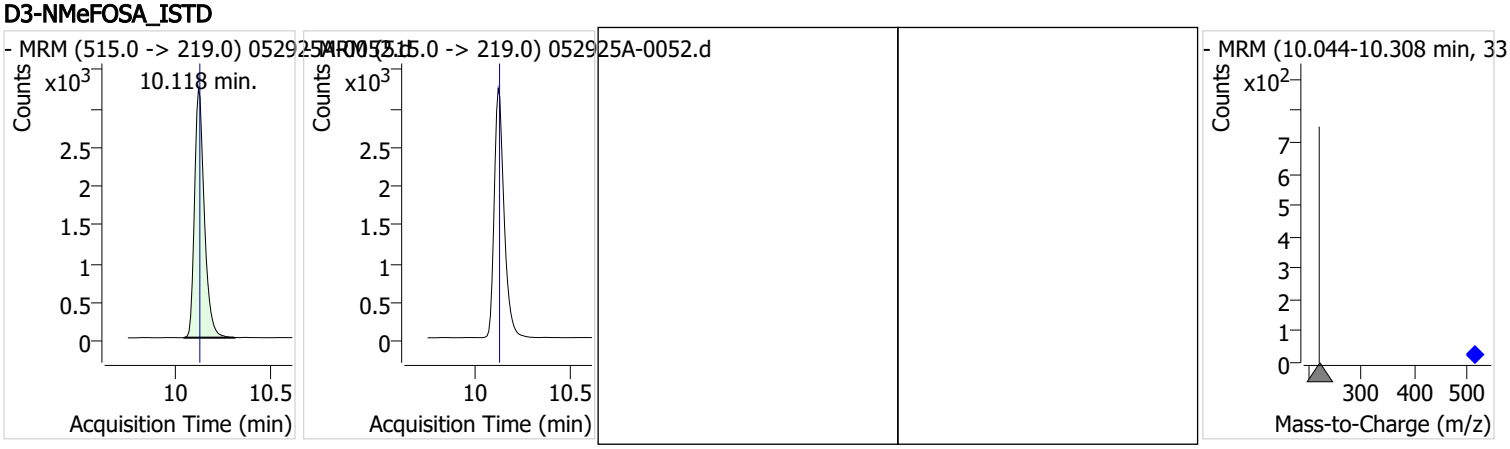
NMeFOSA



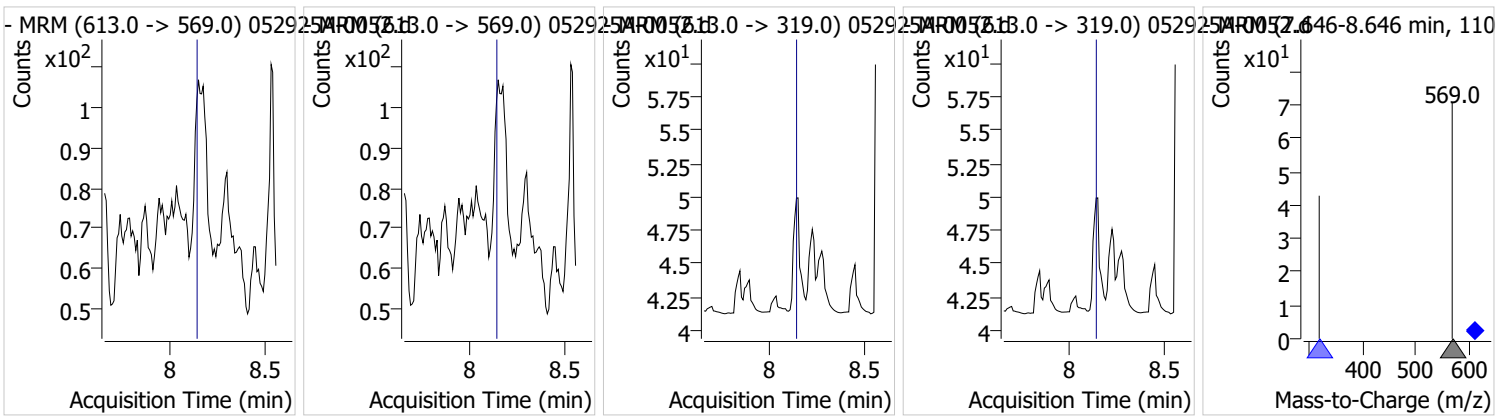
PFDA



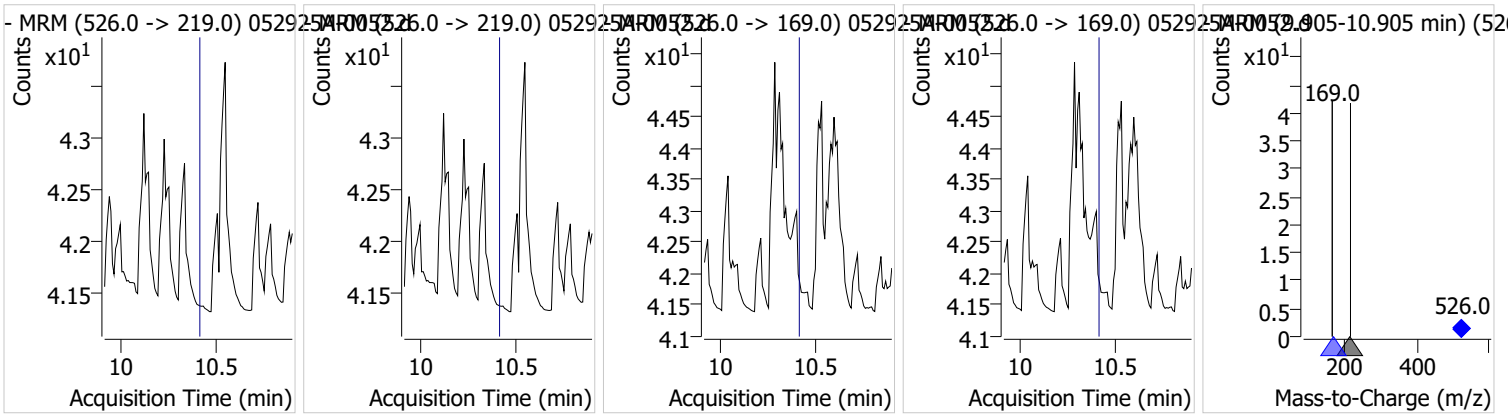
D3-NMeFOSA_ISTD



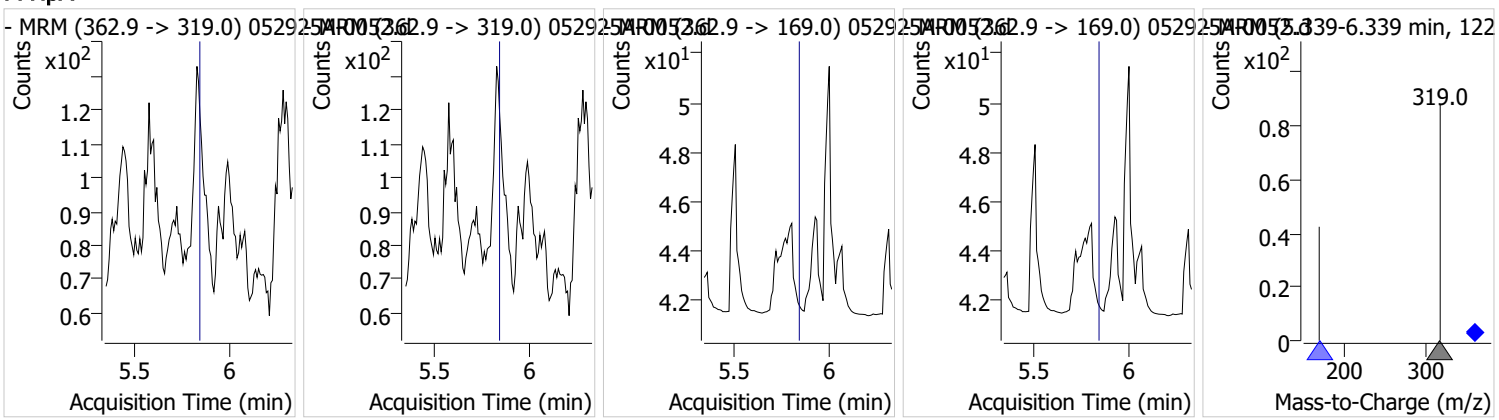
PFDoA



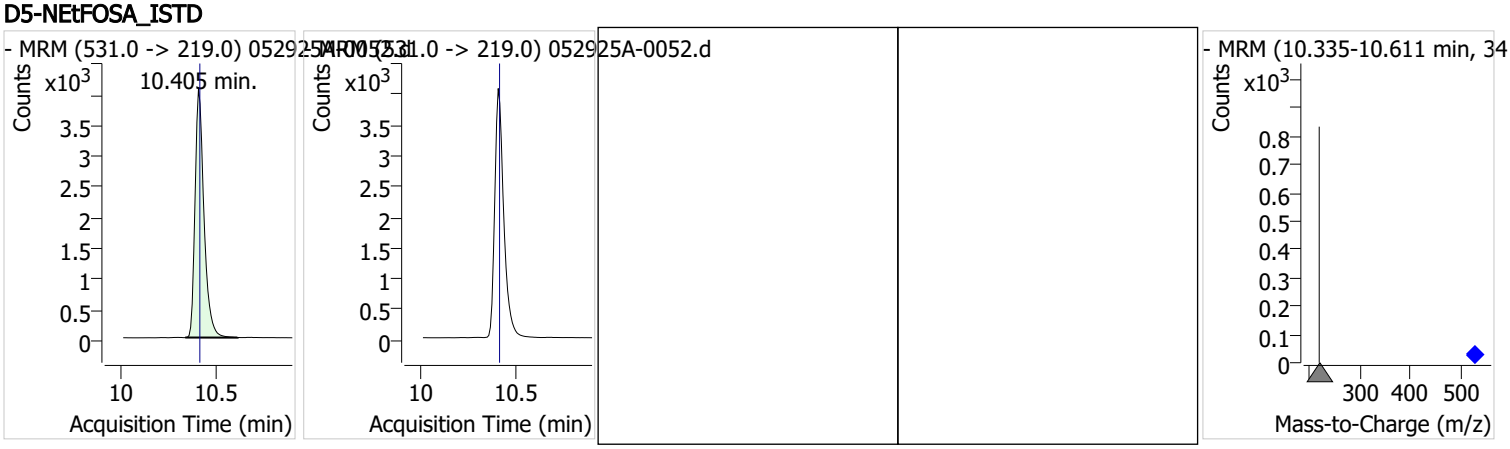
NEtFOSA



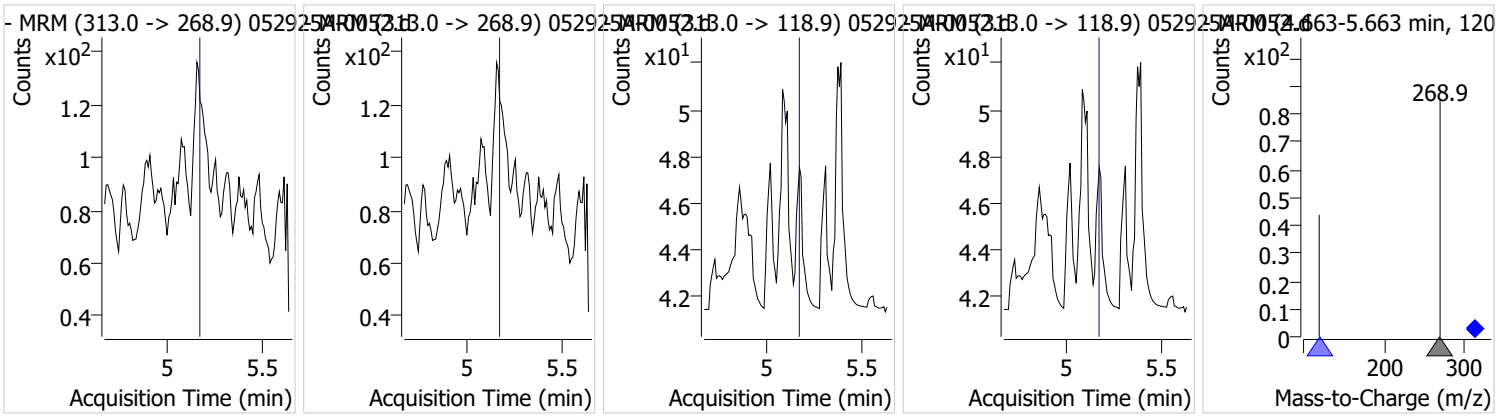
PFHpA



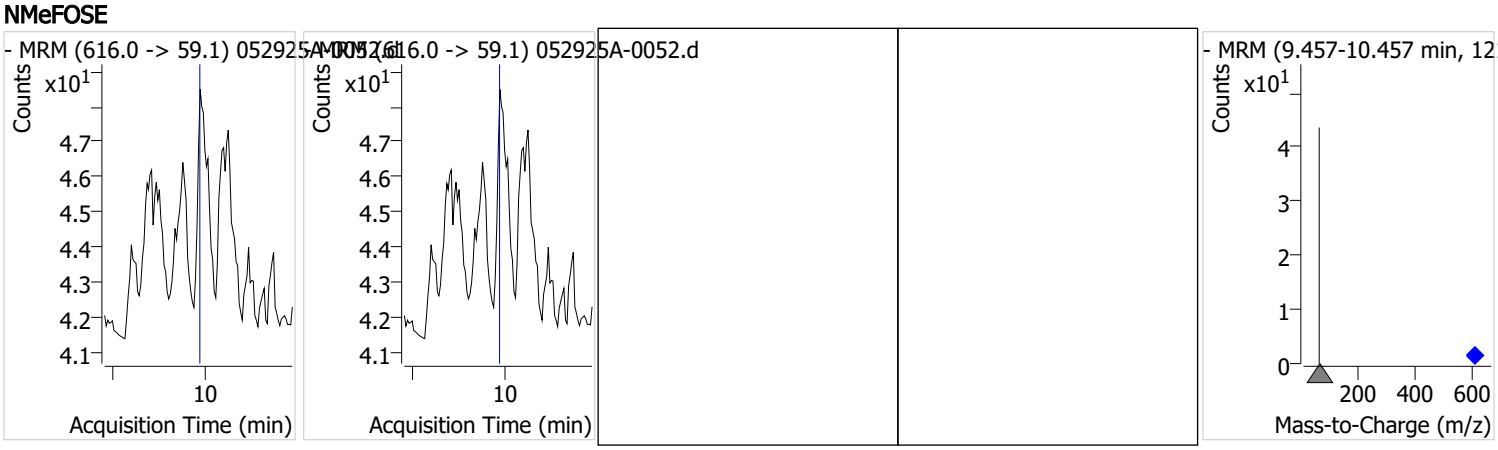
D5-NEtFOSA_ISTD



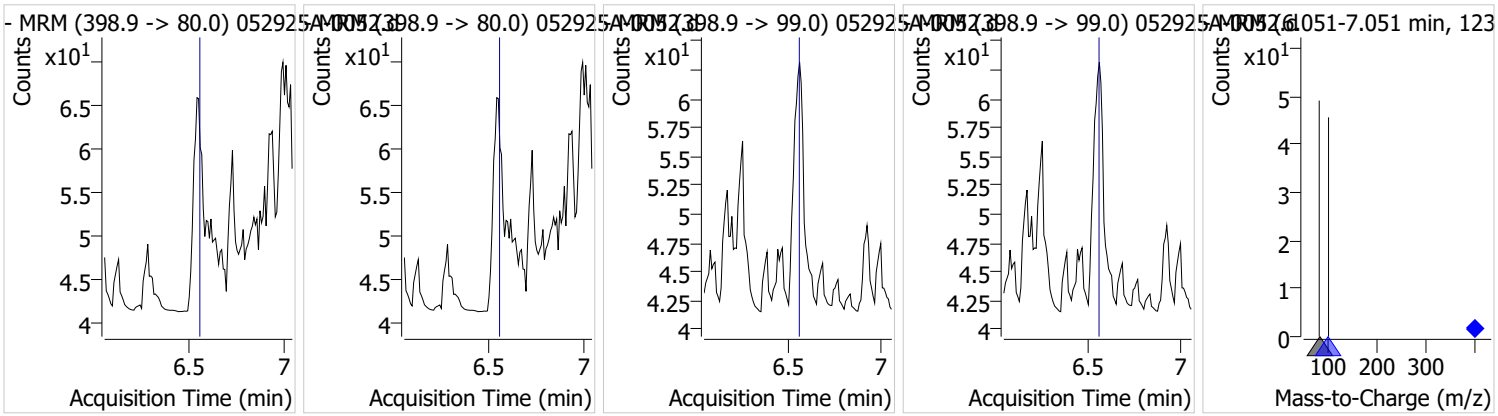
PFHxA



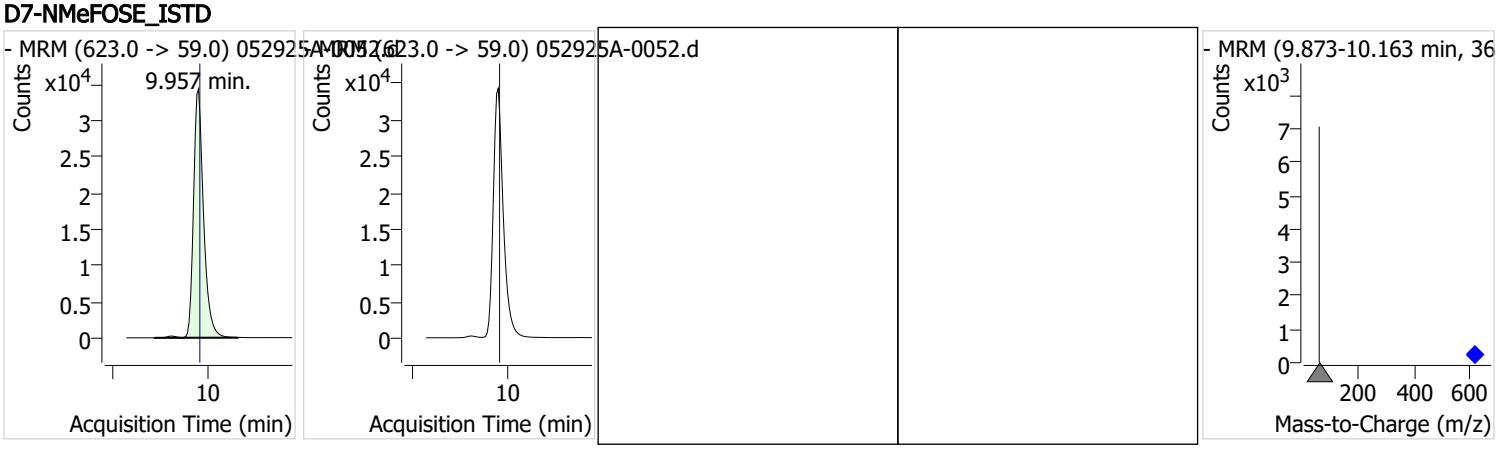
NMeFOSE



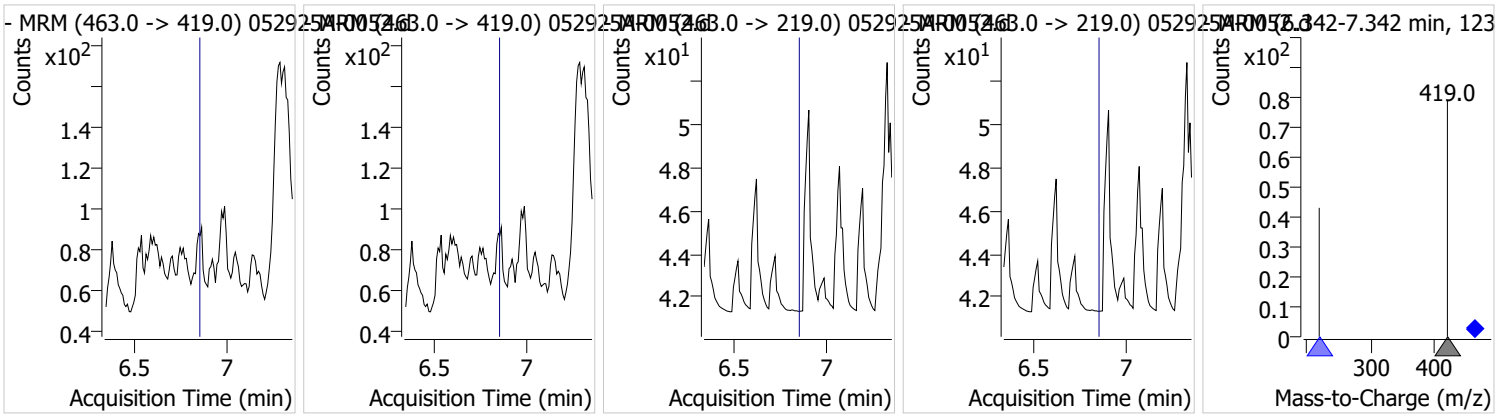
PFHxS



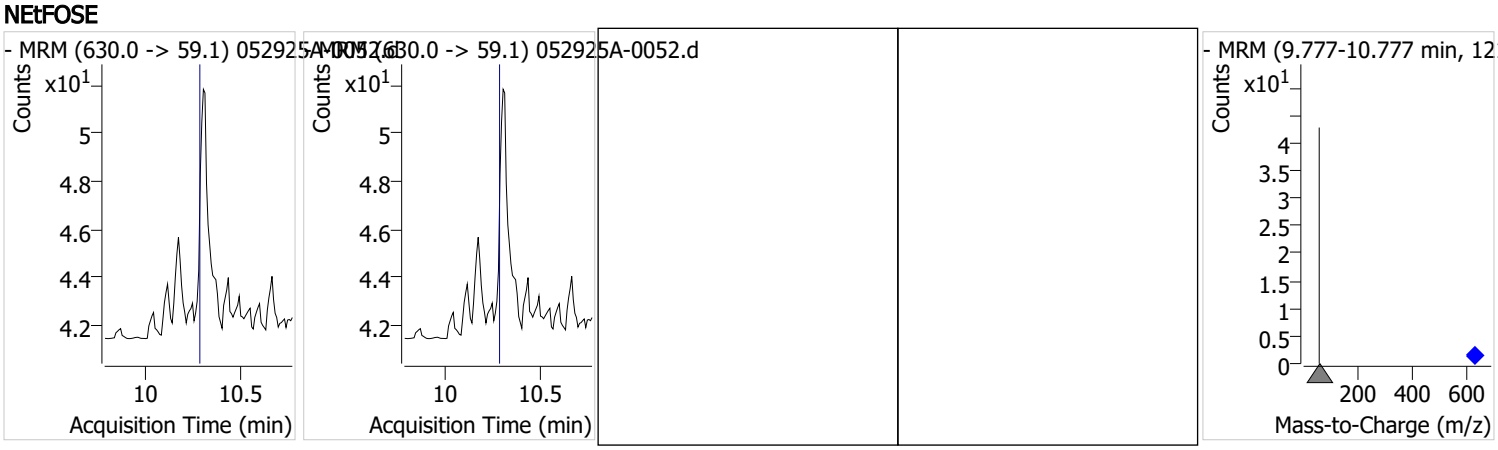
D7-NMeFOSE_ISTD



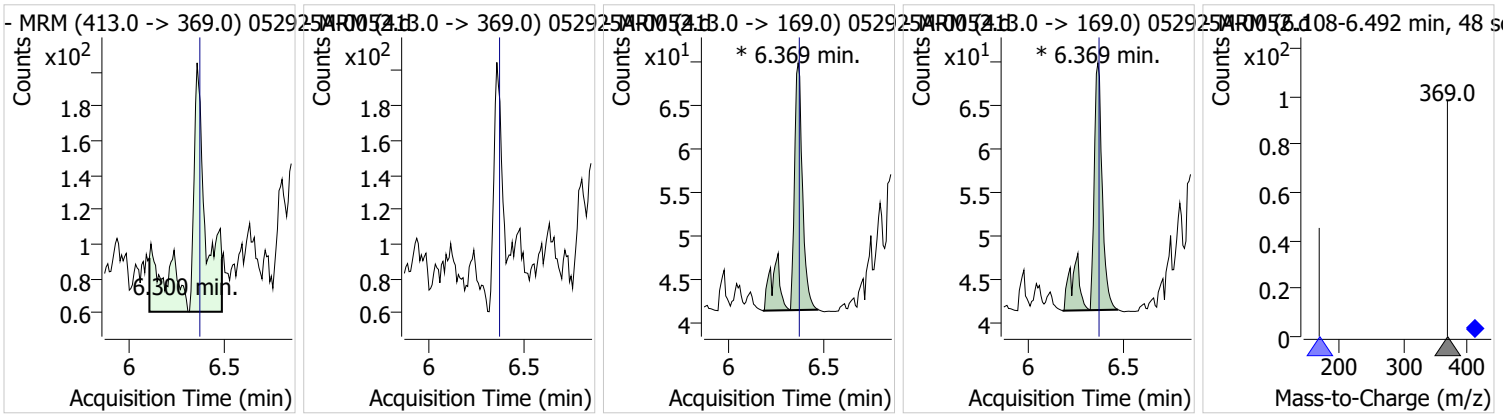
PFNA



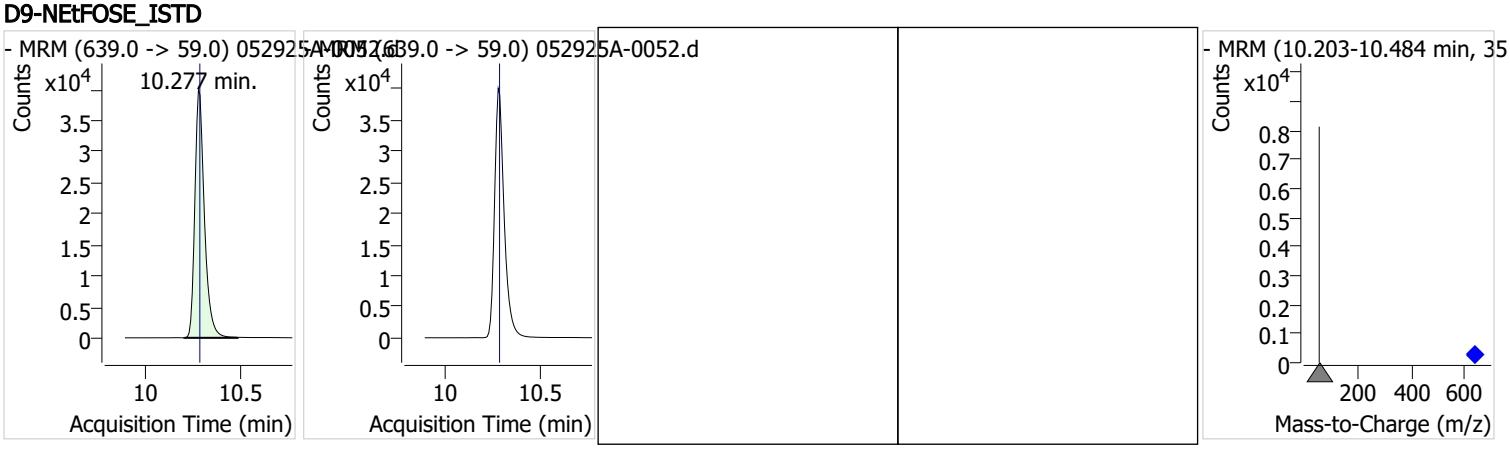
NEtFOSE



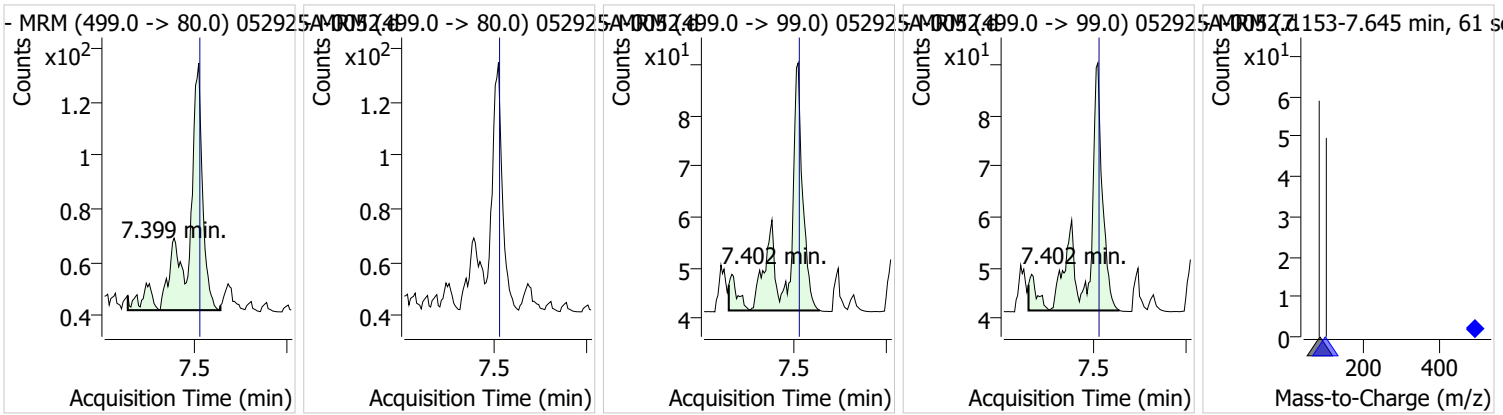
PFOA



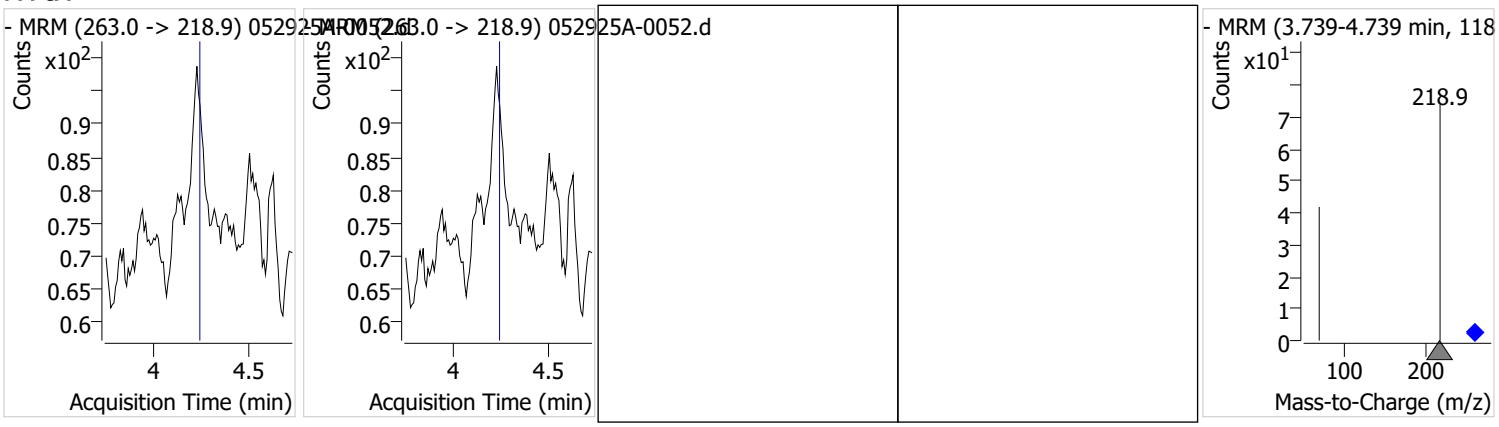
D9-NEtFOSE_ISTD



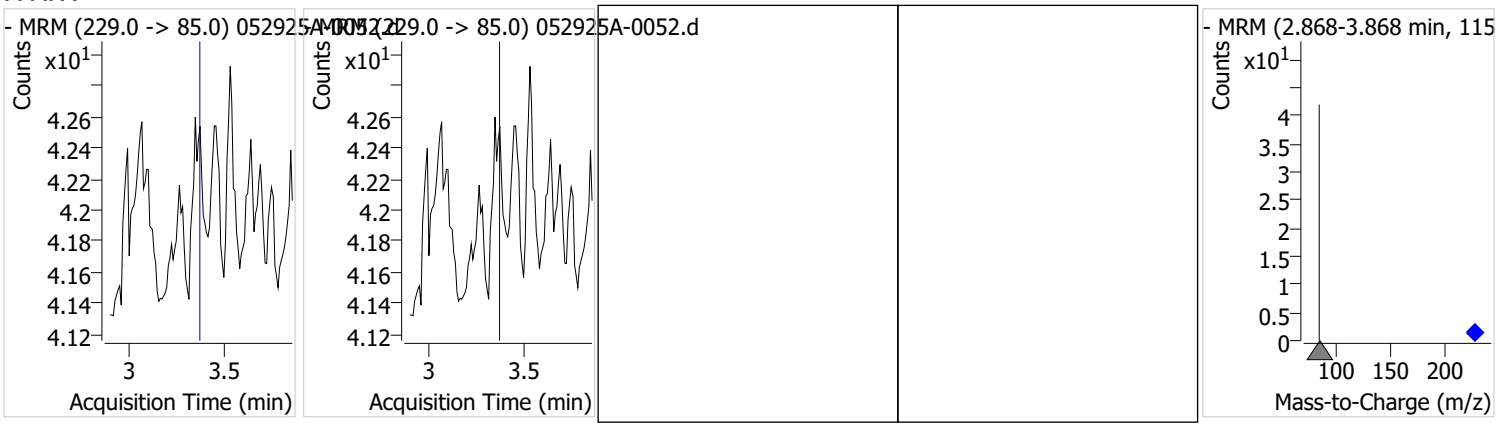
PFOS



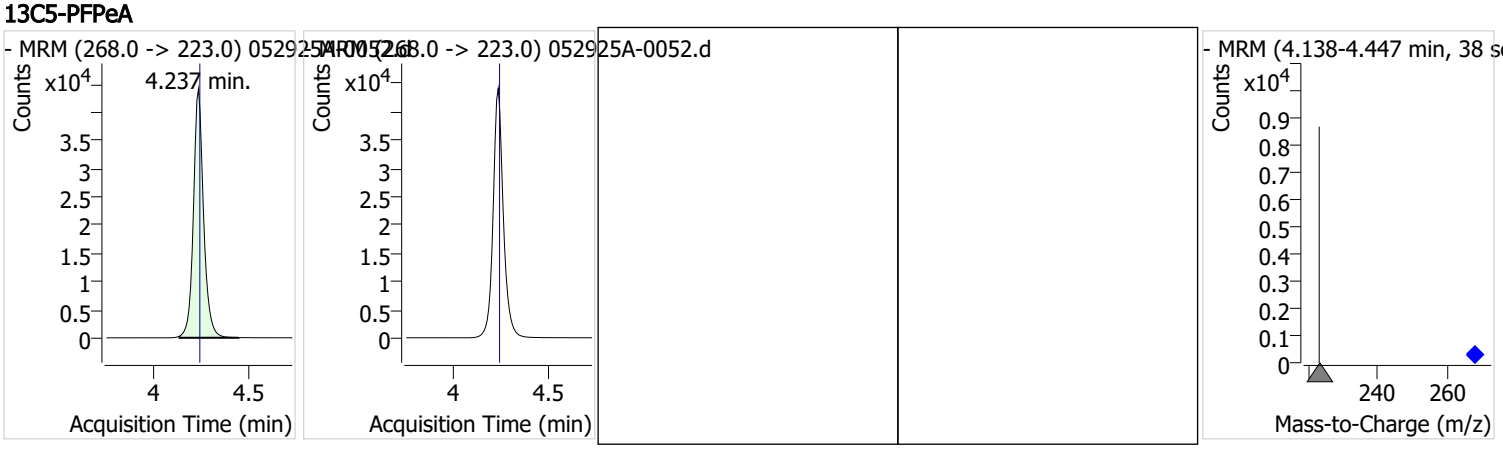
PFPeA



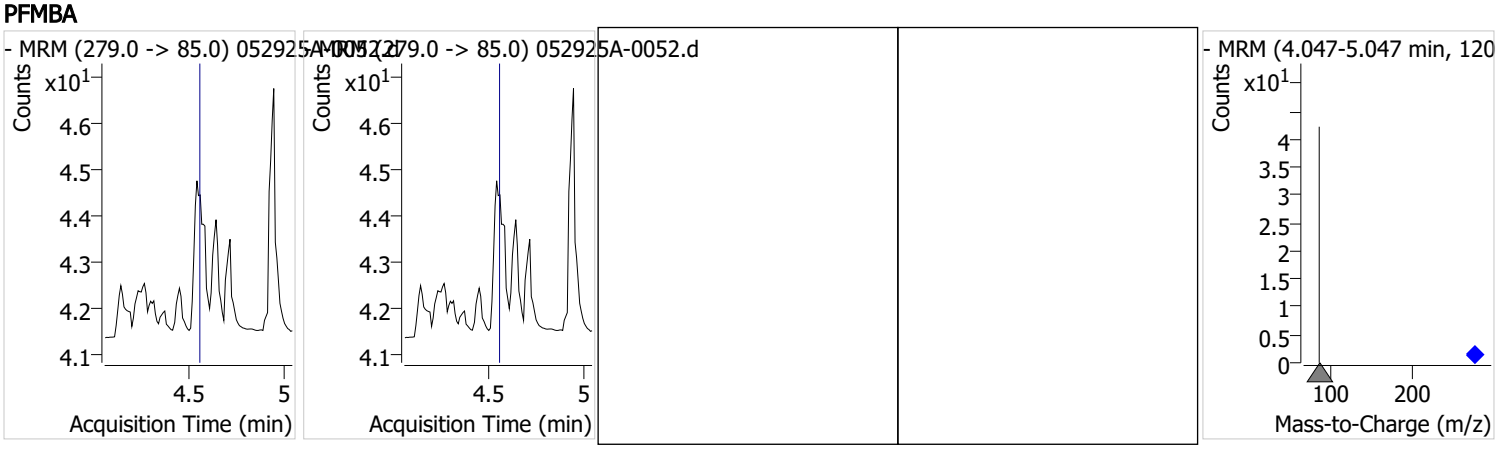
PFMPA



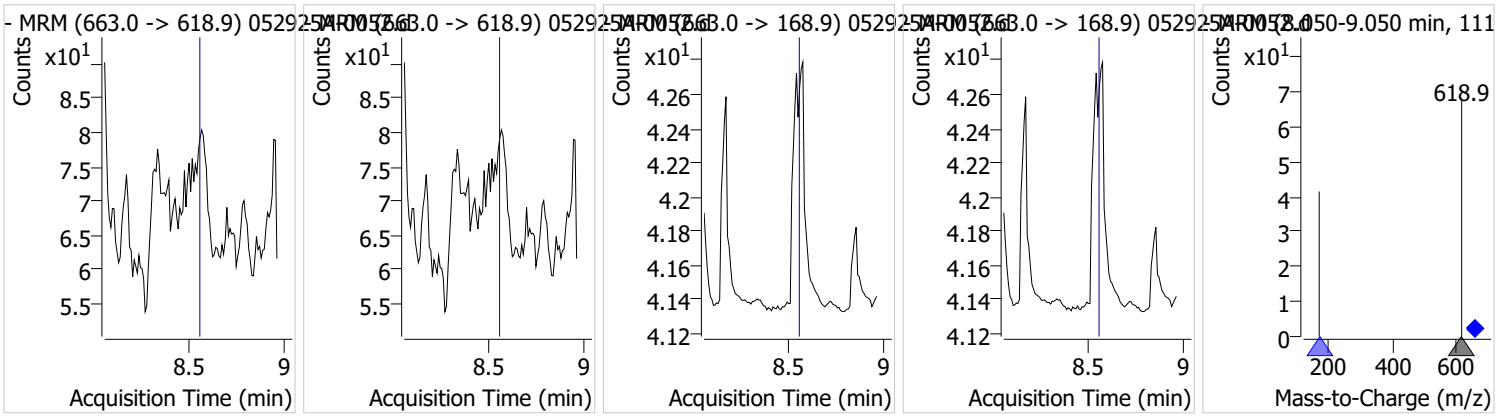
13C5-PFPeA



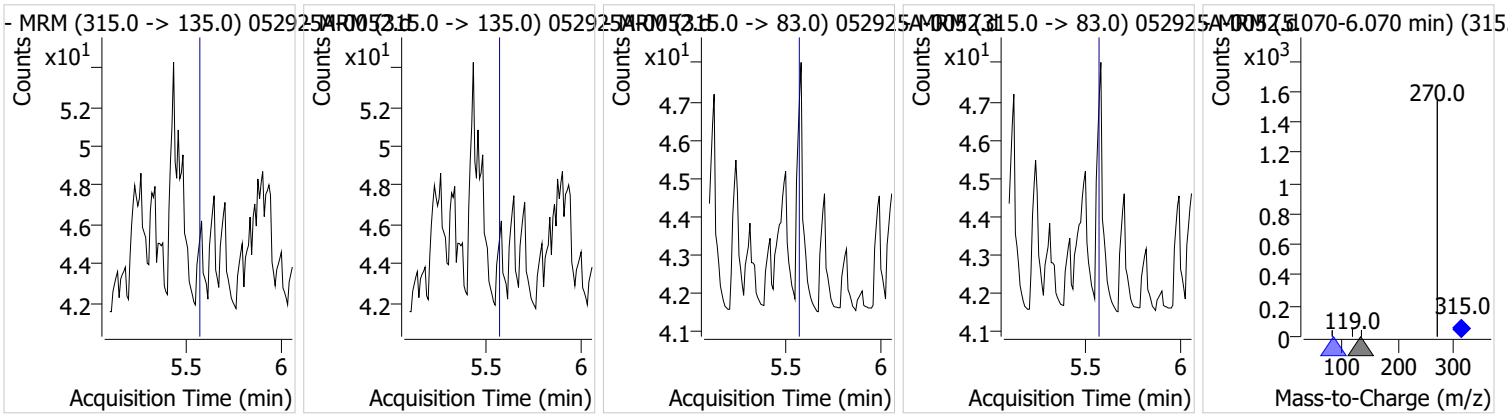
PFMBA



PFTrDA



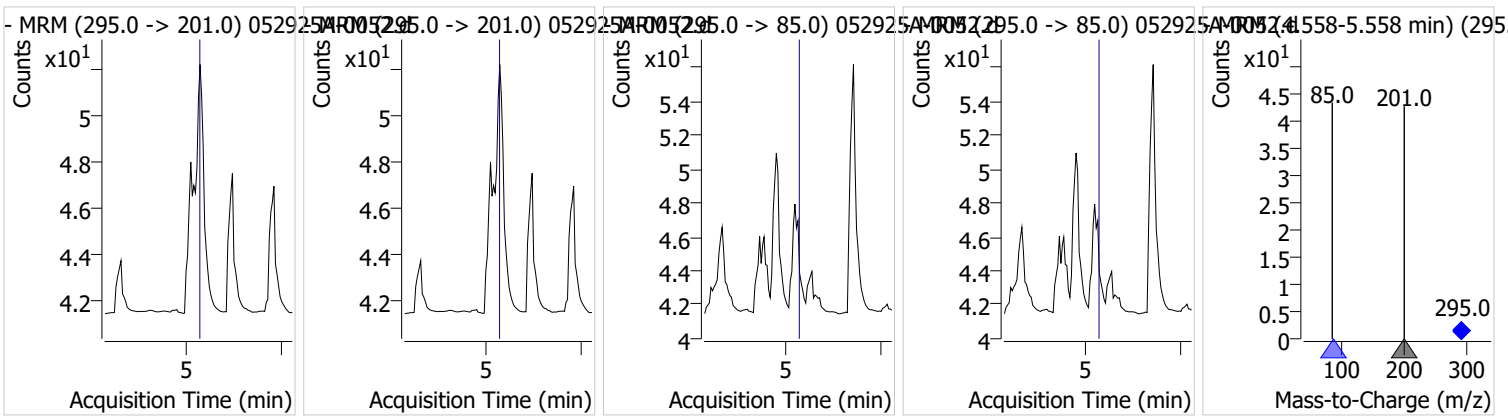
PFEESA



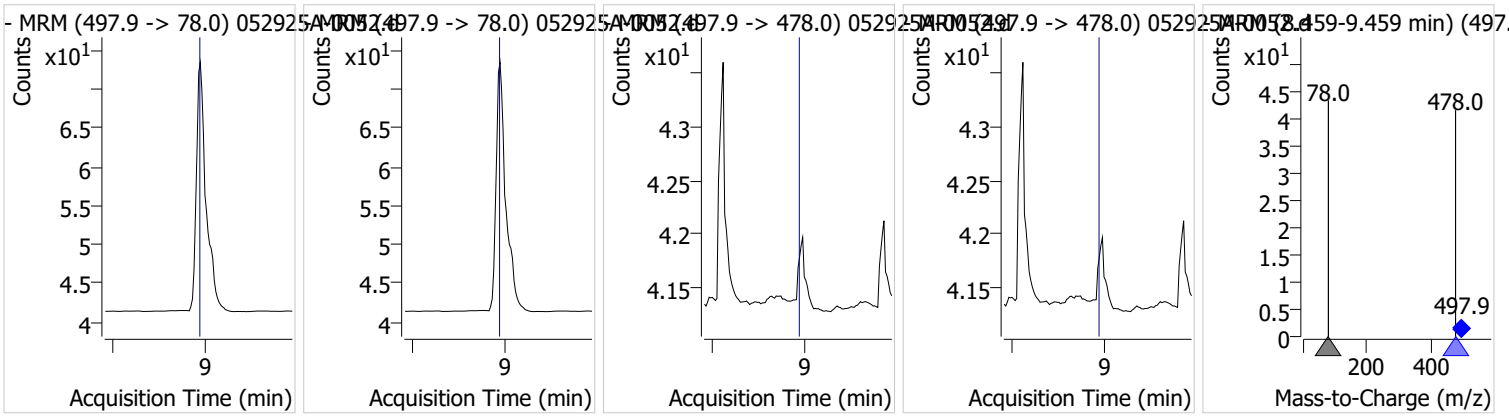
13C6-PFDA



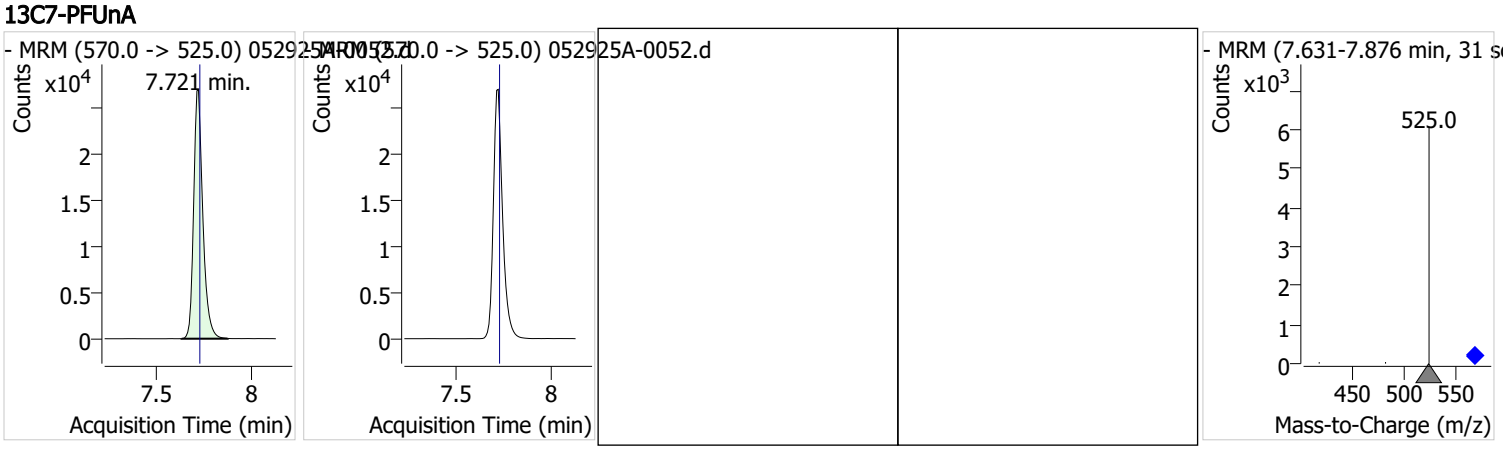
NFDHA



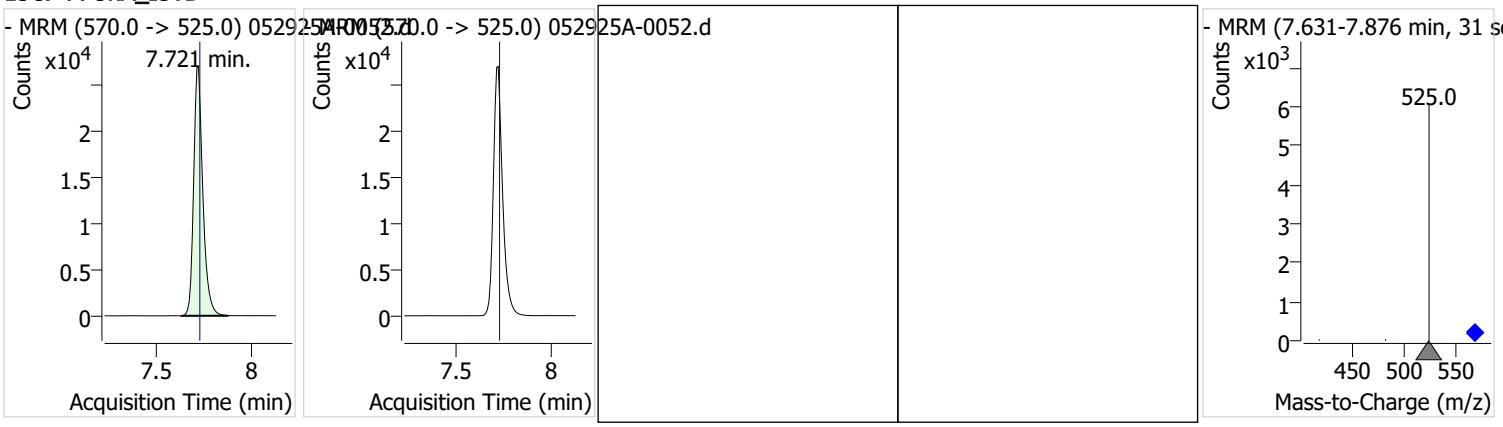
PFOSA



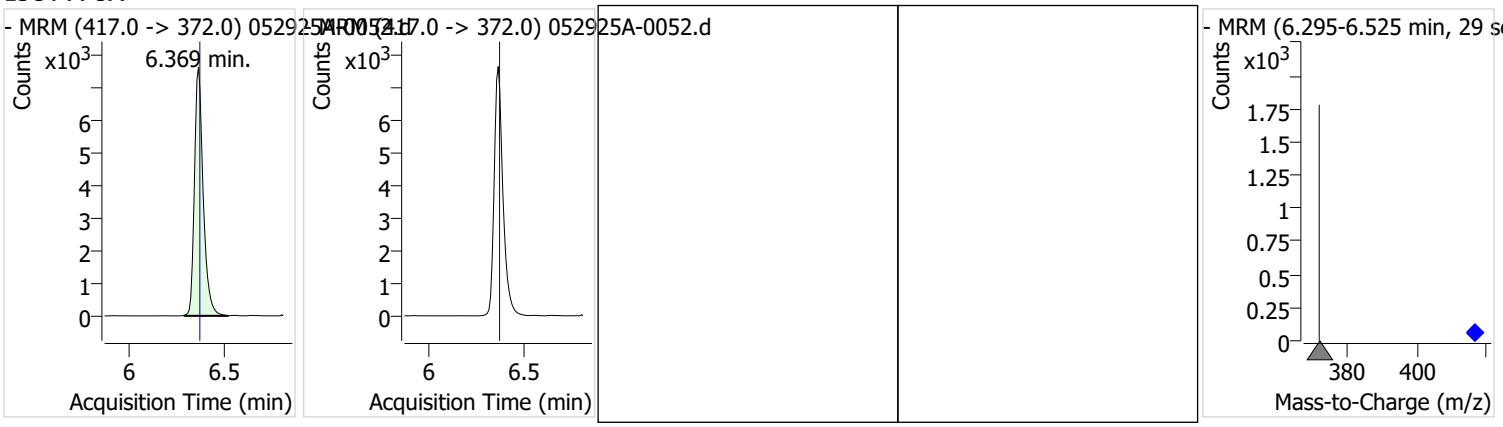
13C7-PFUnA



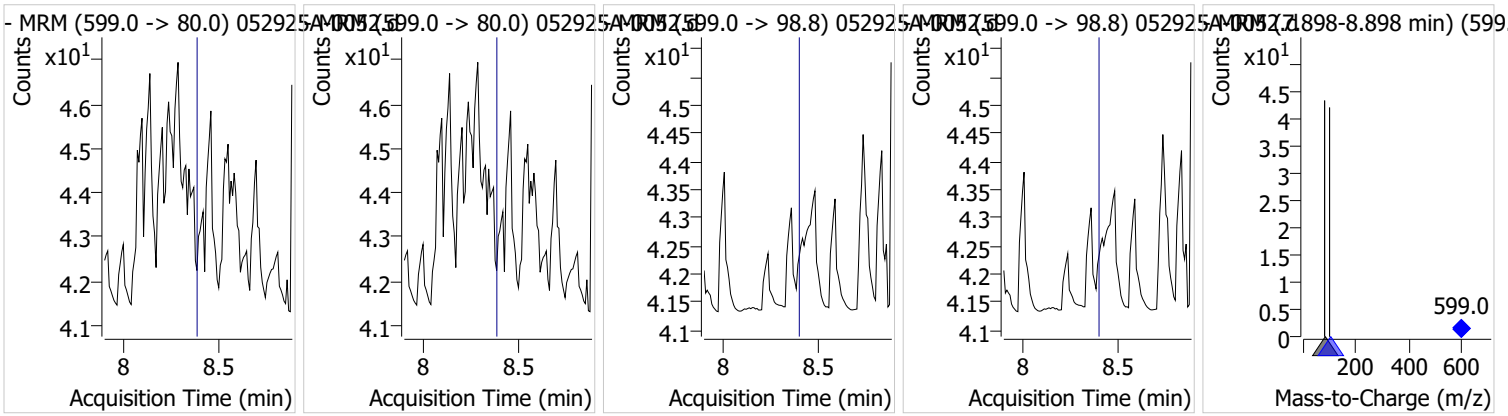
13C7-PFUnA_ISTD



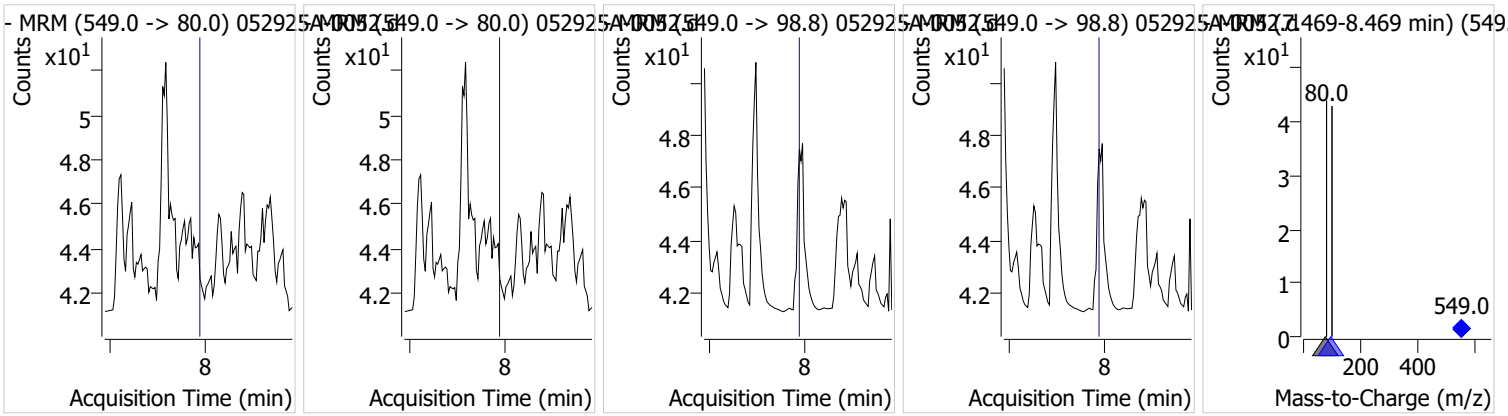
13C4-PFOA



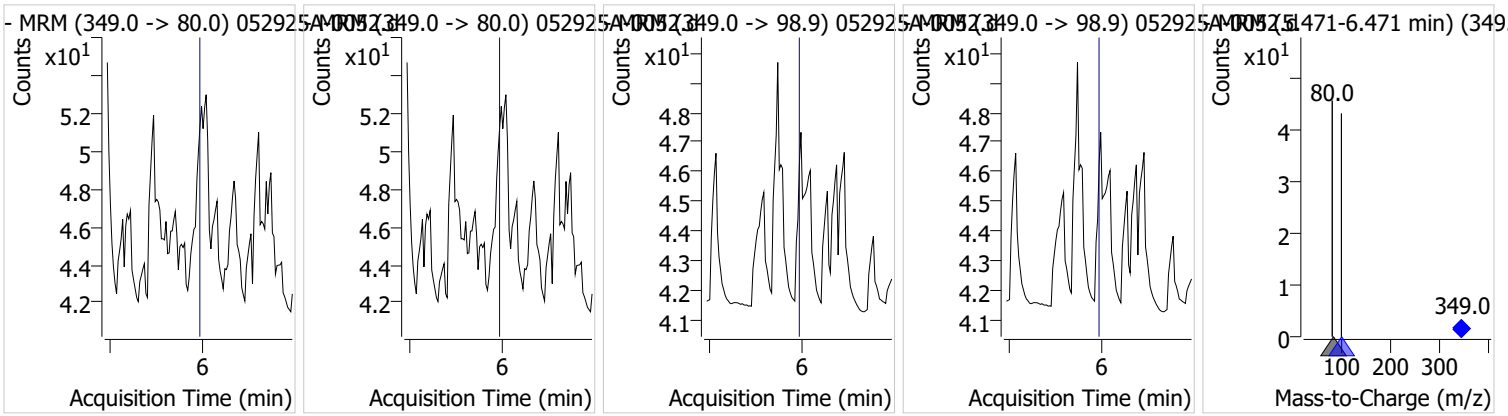
PFDS



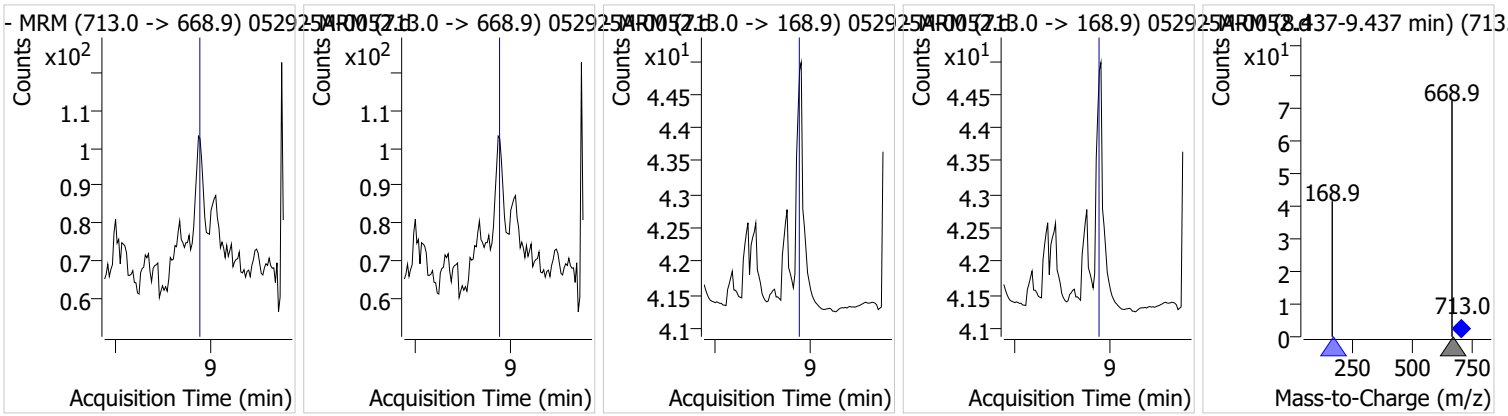
PFNS



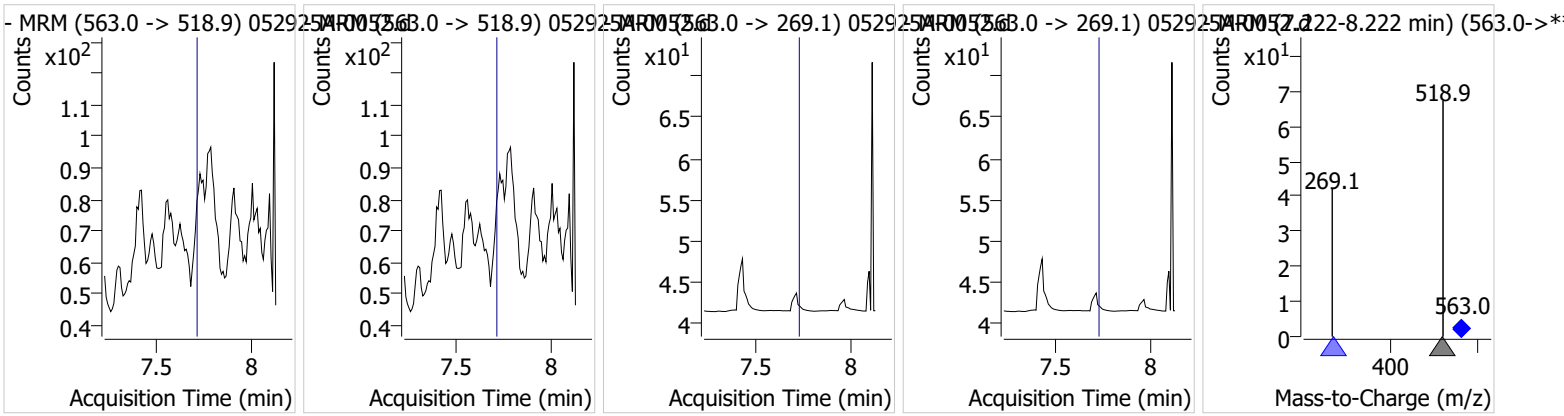
PFPeS



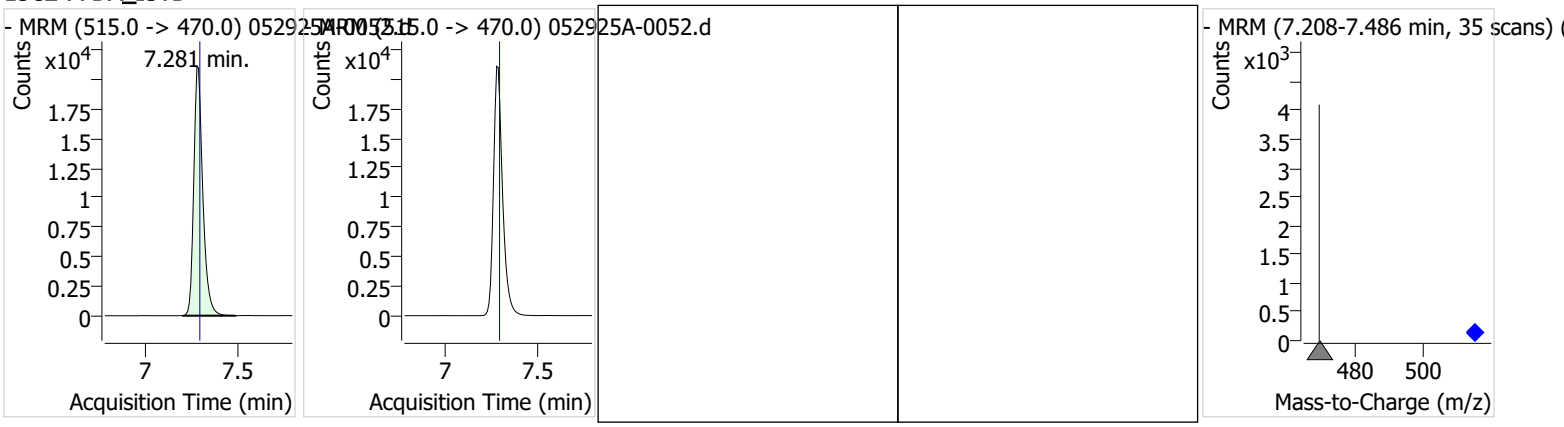
PFTeDA



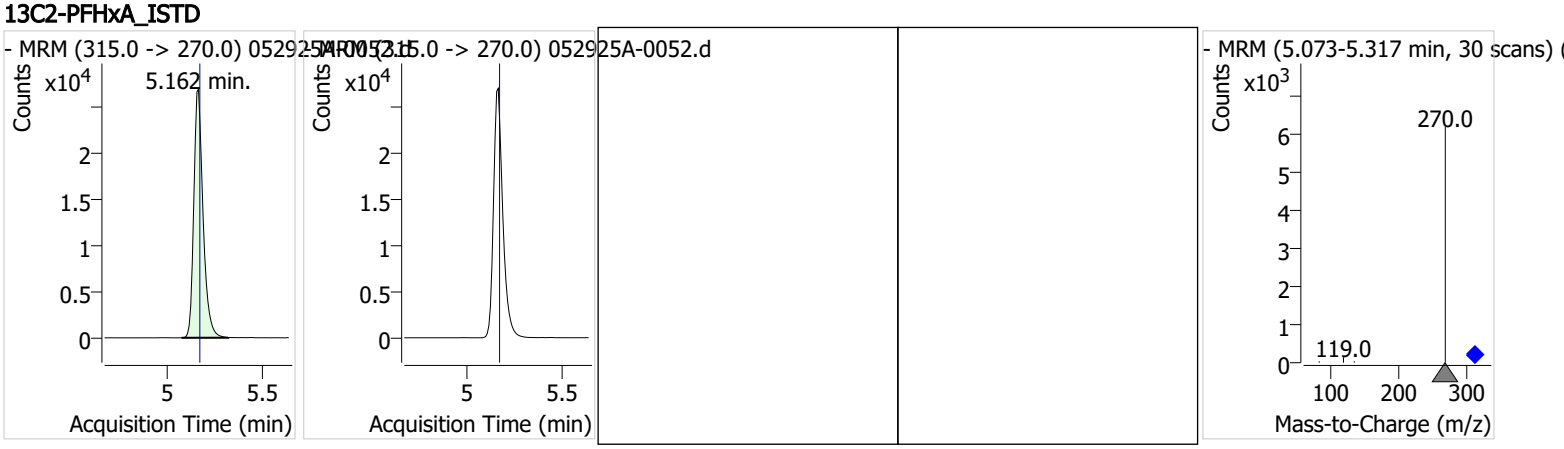
PFUnA



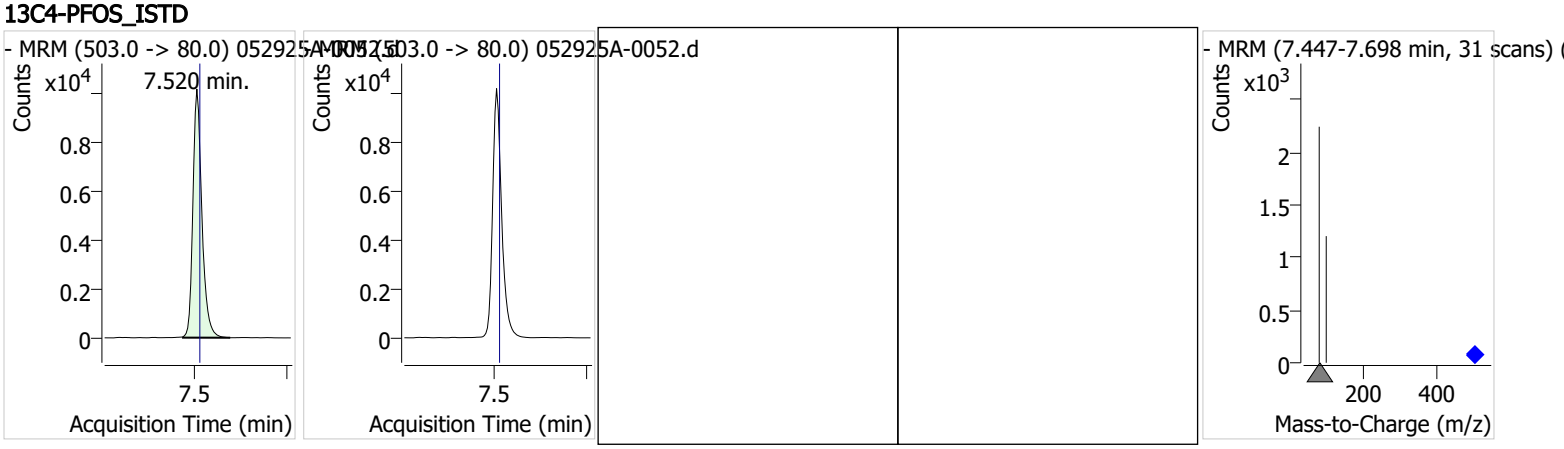
13C2-PFDA_ISTD



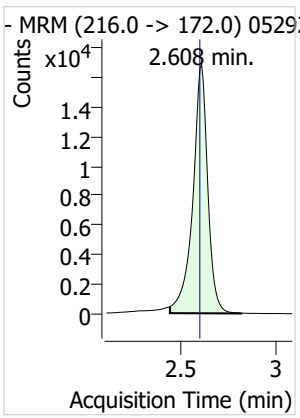
13C2-PFHxA_ISTD

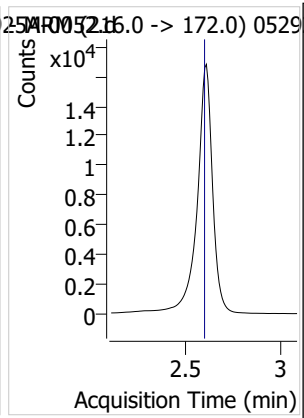


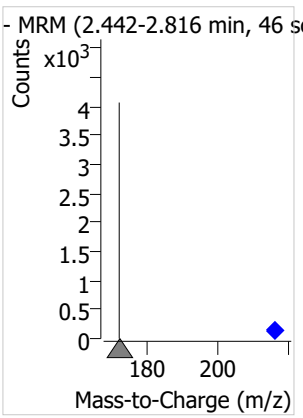
13C4-PFOS_ISTD



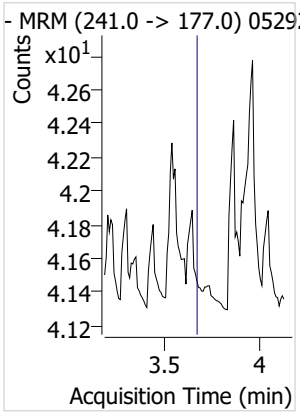
13C3-PFBA

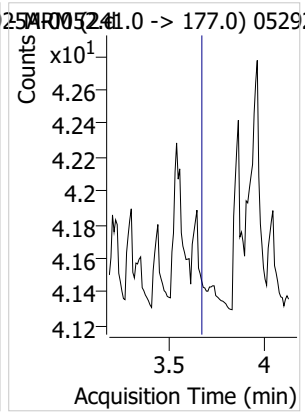


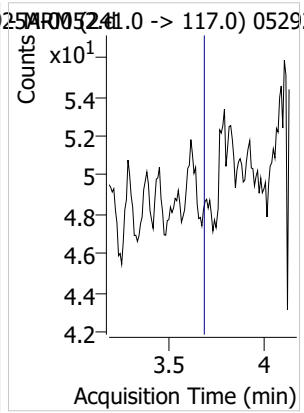


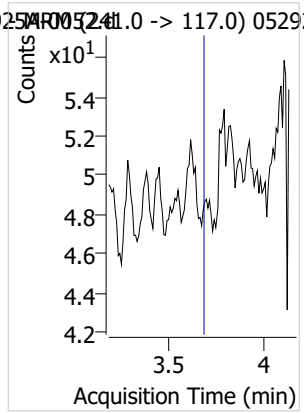


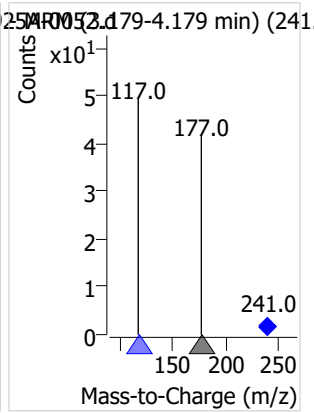
3:3FTCA



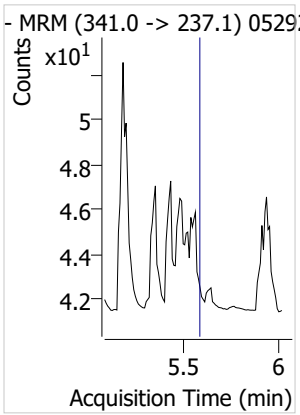


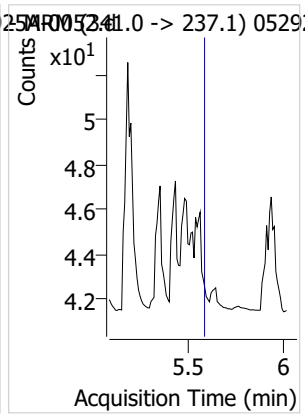


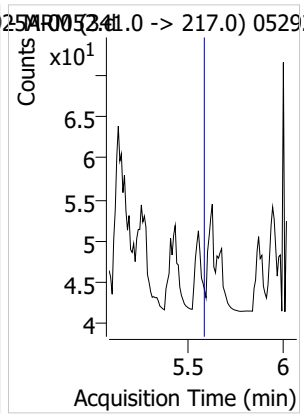


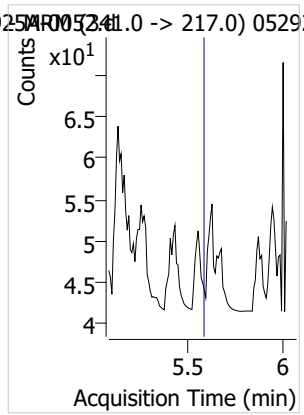


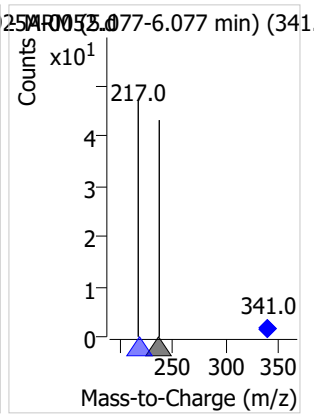
5:3FTCA



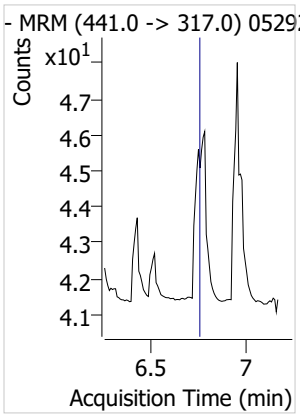


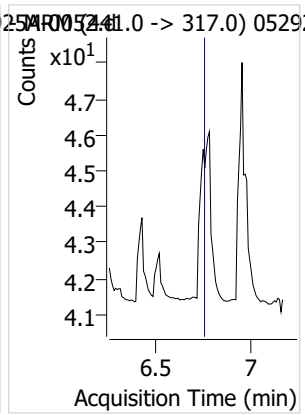


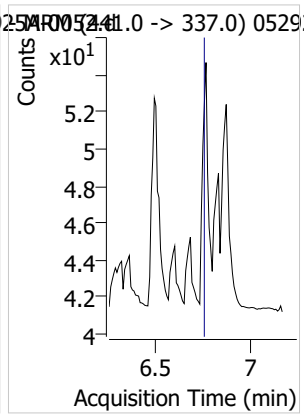


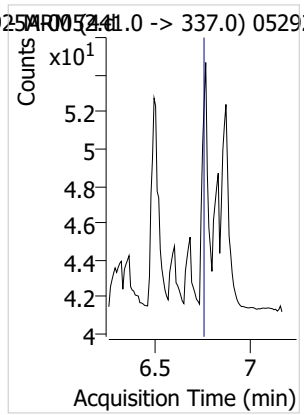


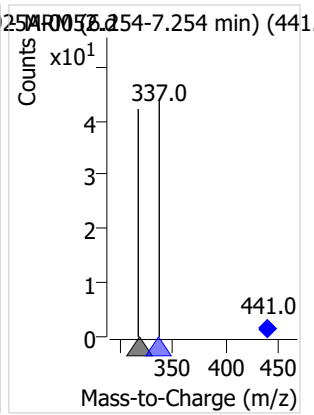
7:3FTCA



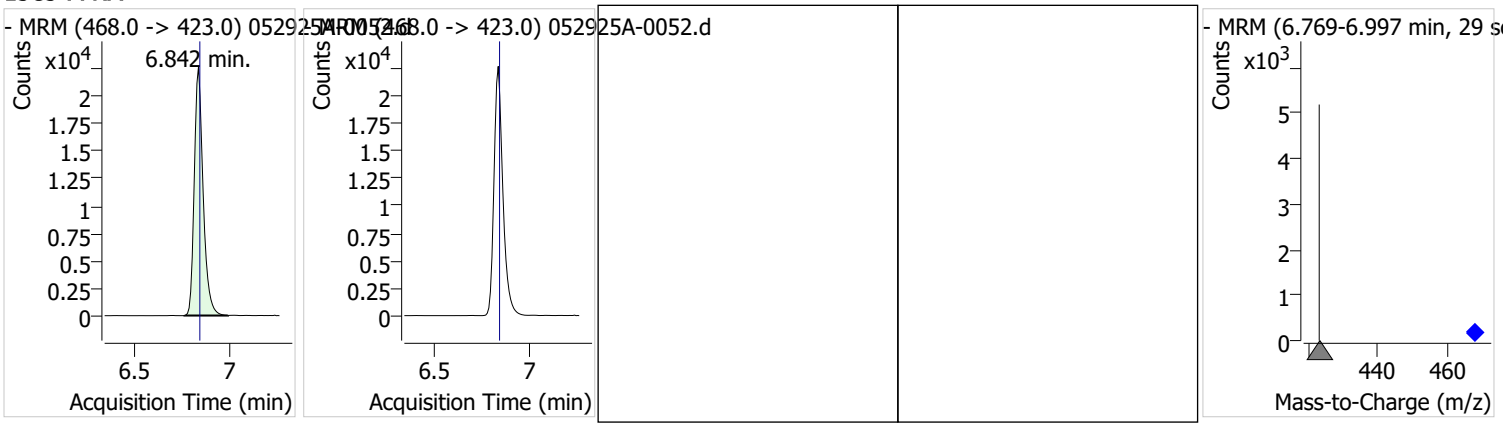




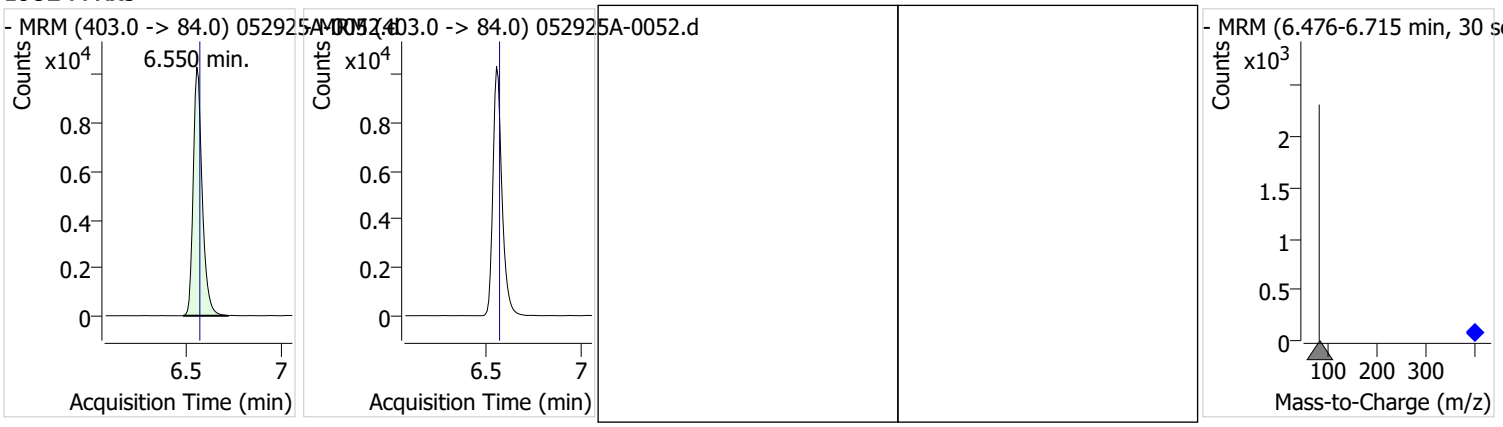




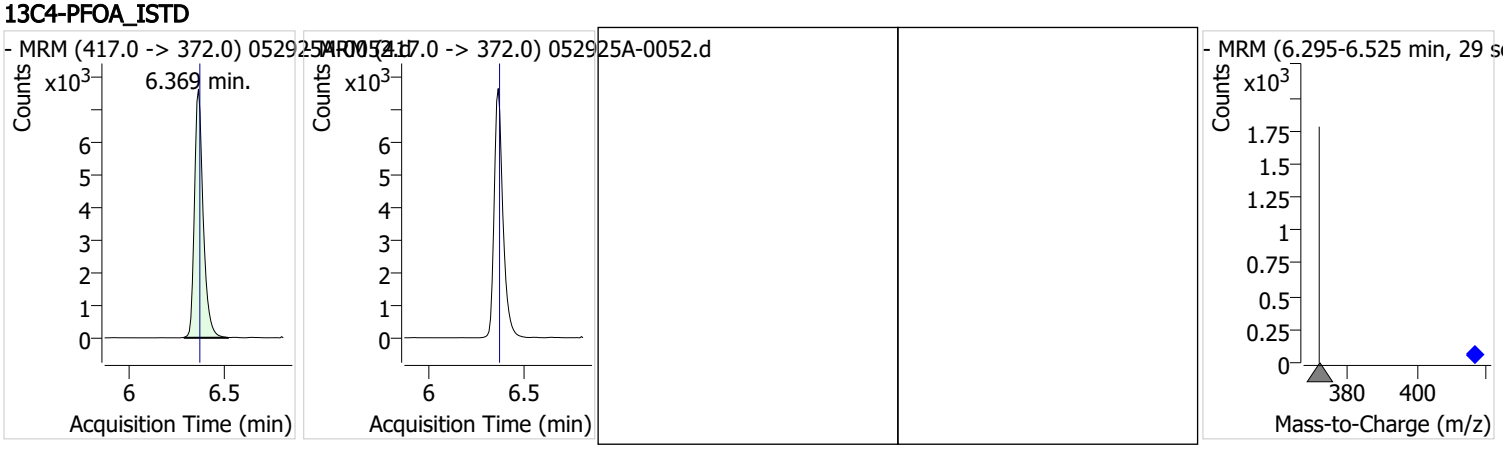
13C5-PFNA



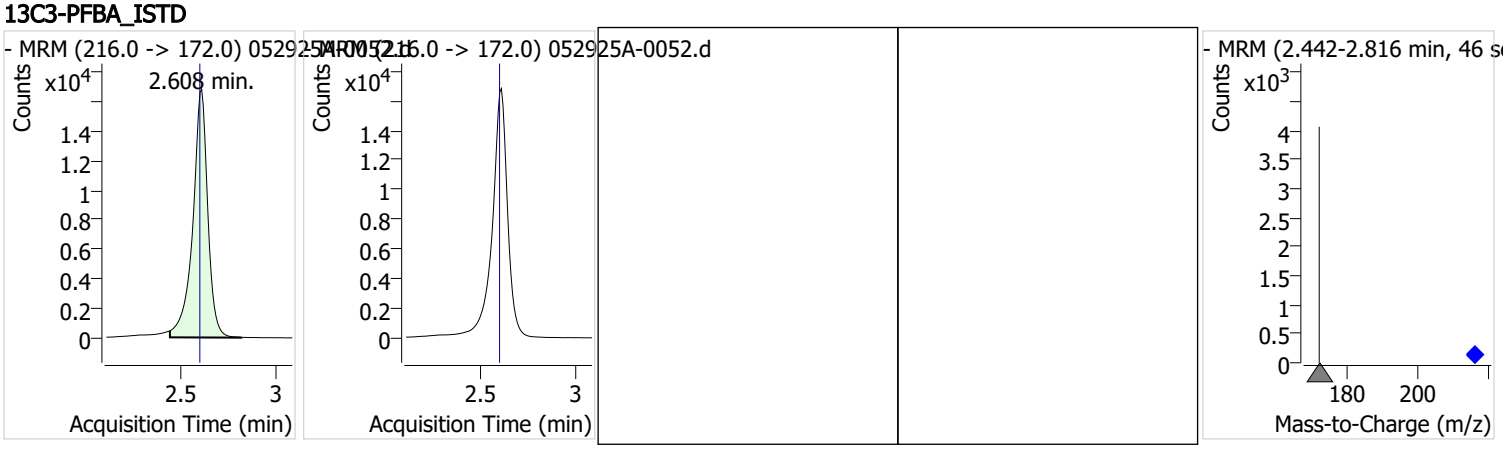
18O2-PFHxS



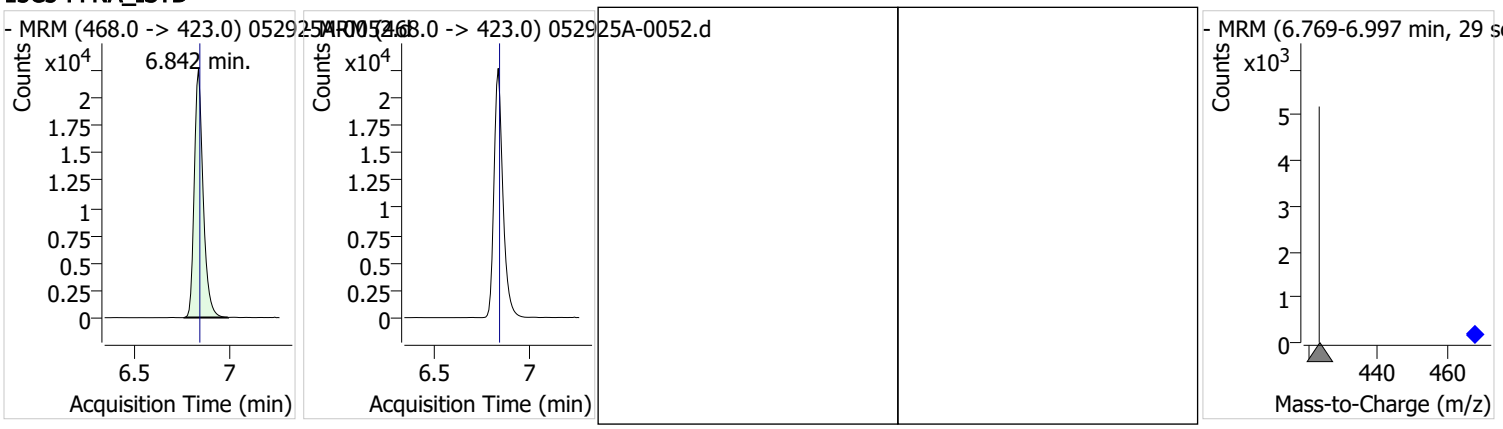
13C4-PFOA_ISTD



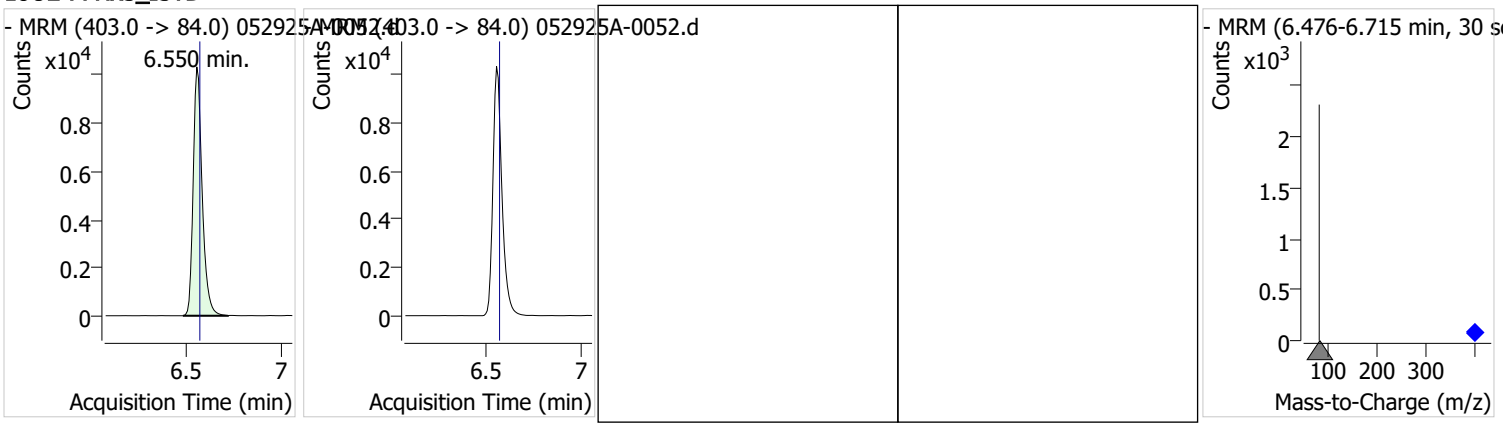
13C3-PFBA_ISTD



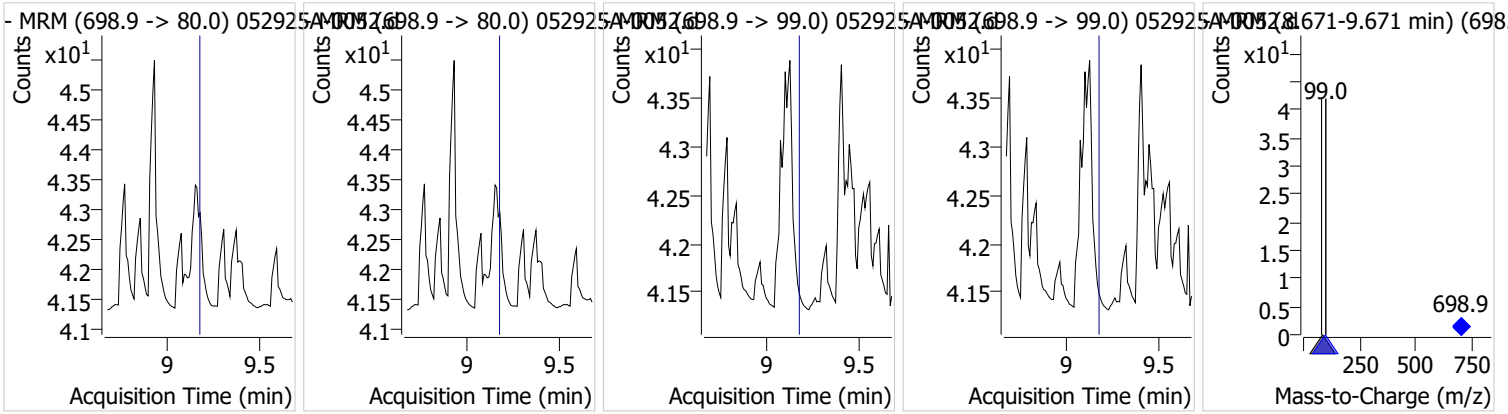
13C5-PFNA_ISTD



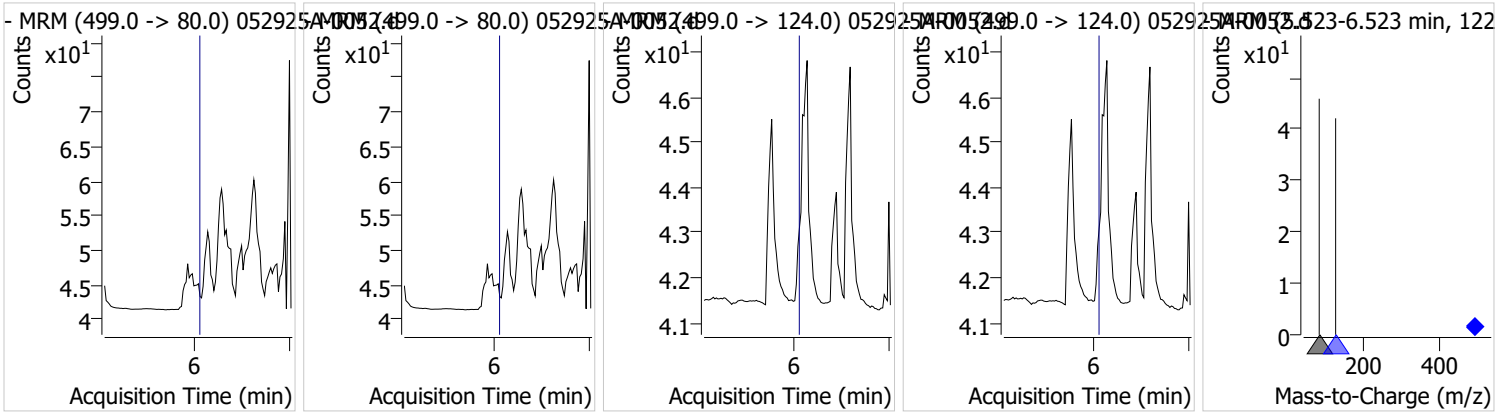
18O2-PFHxS_ISTD



PFDoS



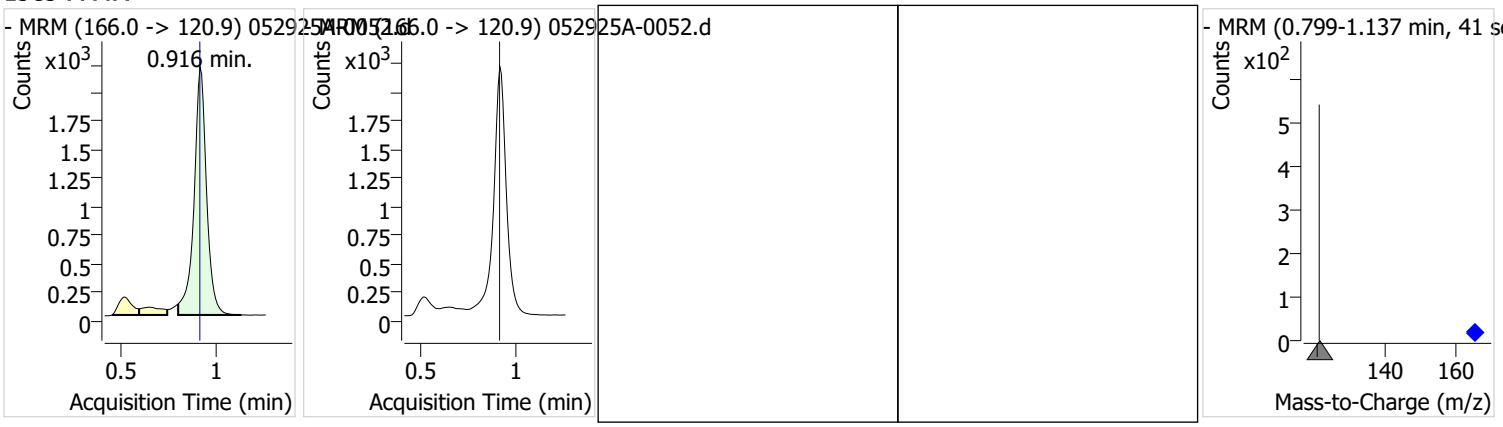
TDCA



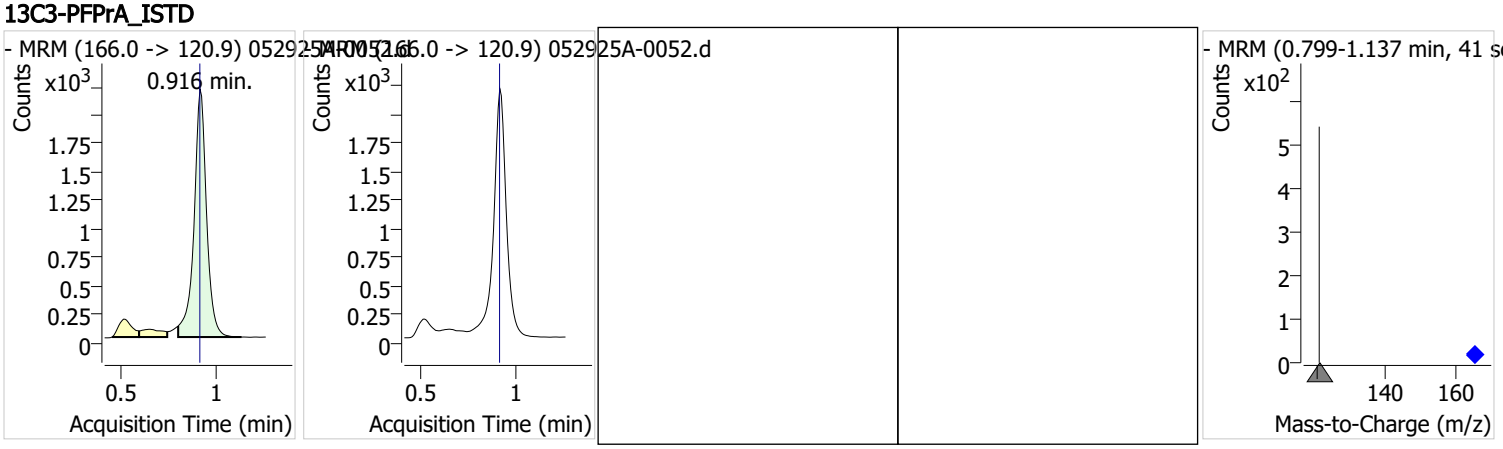
PFPrA



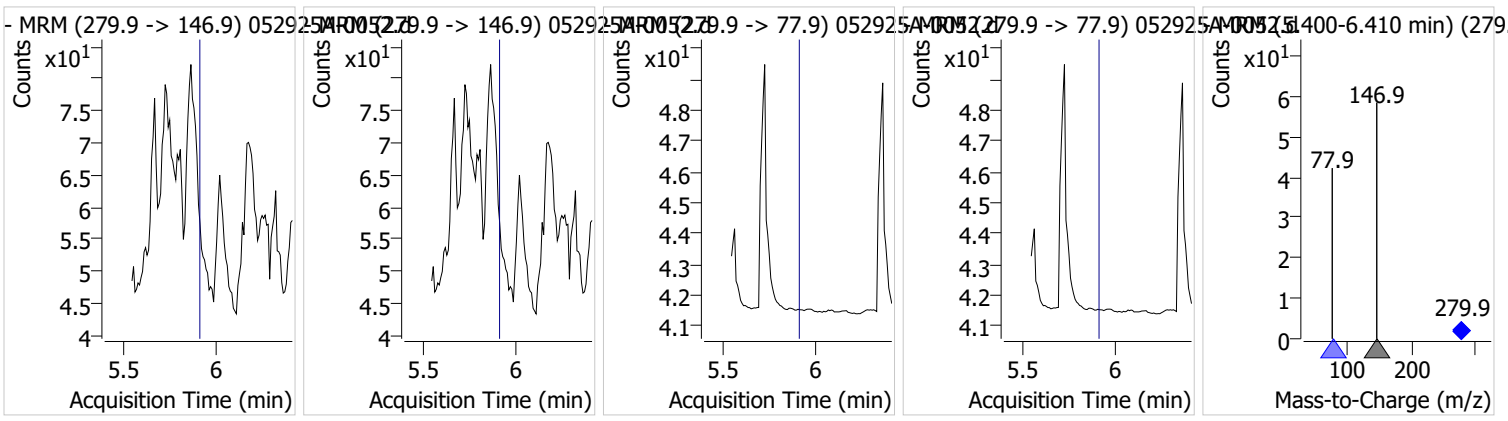
13C3-PFPrA



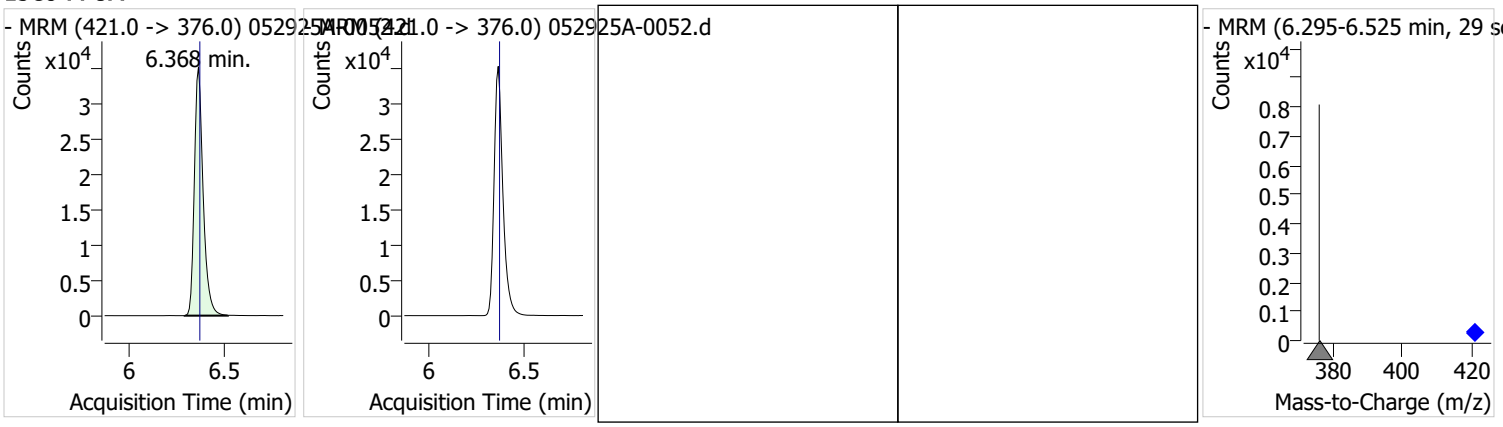
13C3-PFPrA_ISTD



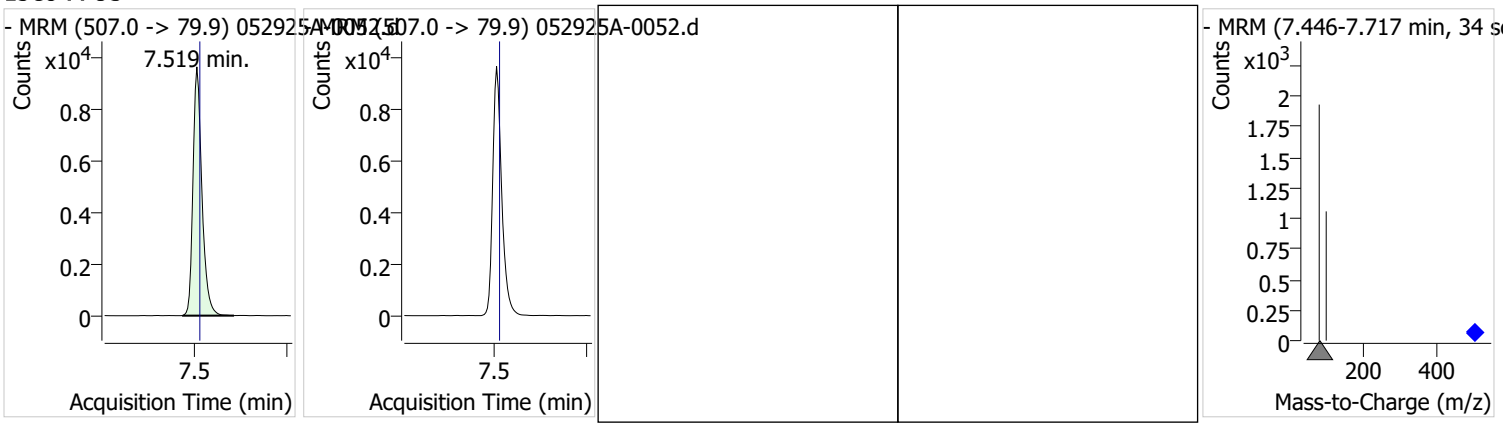
TFSI



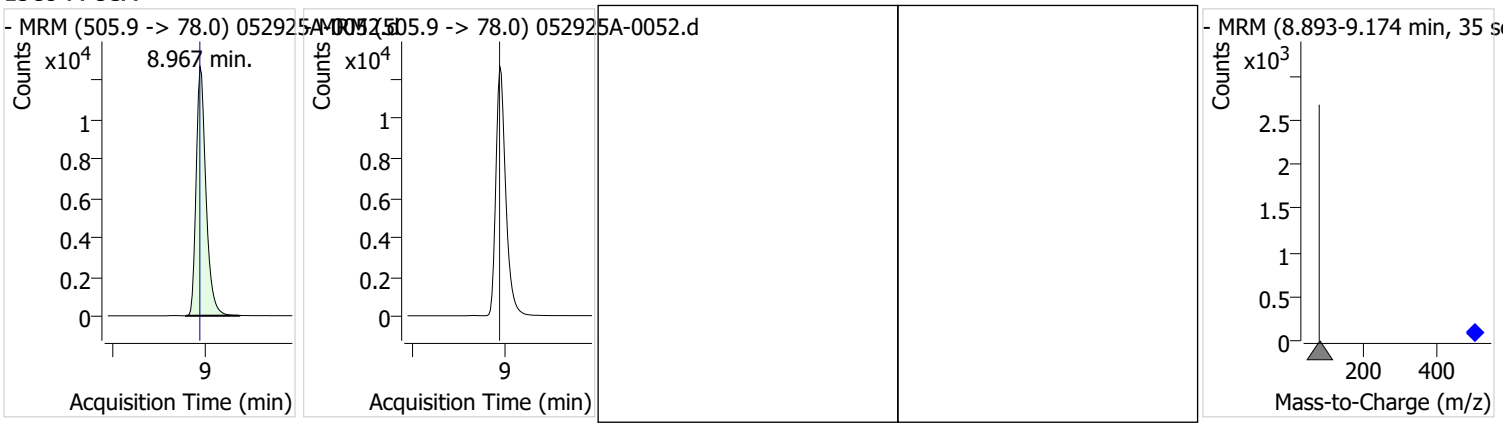
13C8-PFOA



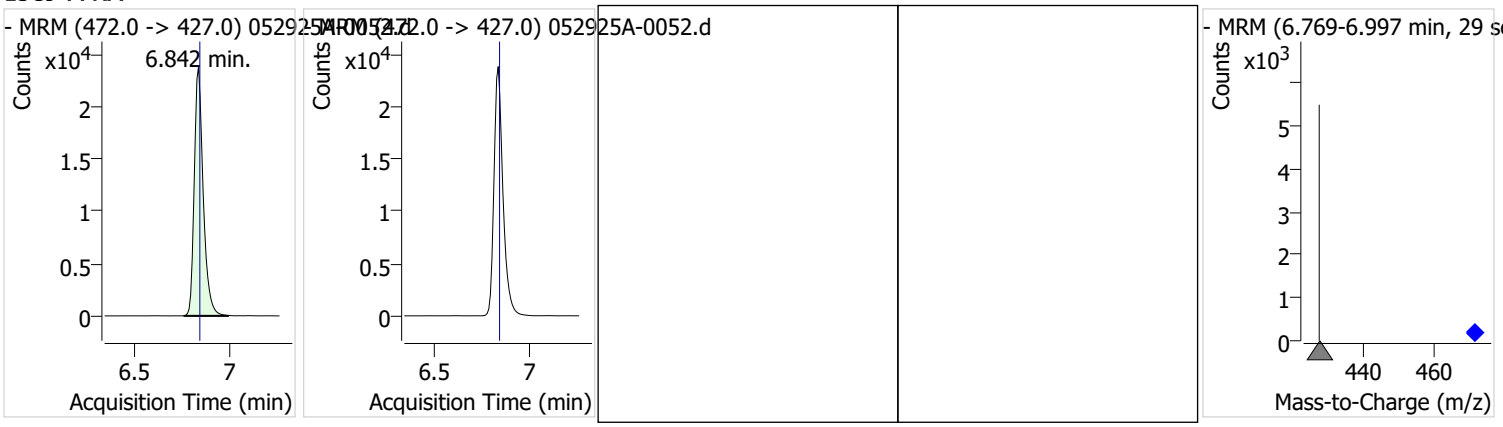
13C8-PFOS



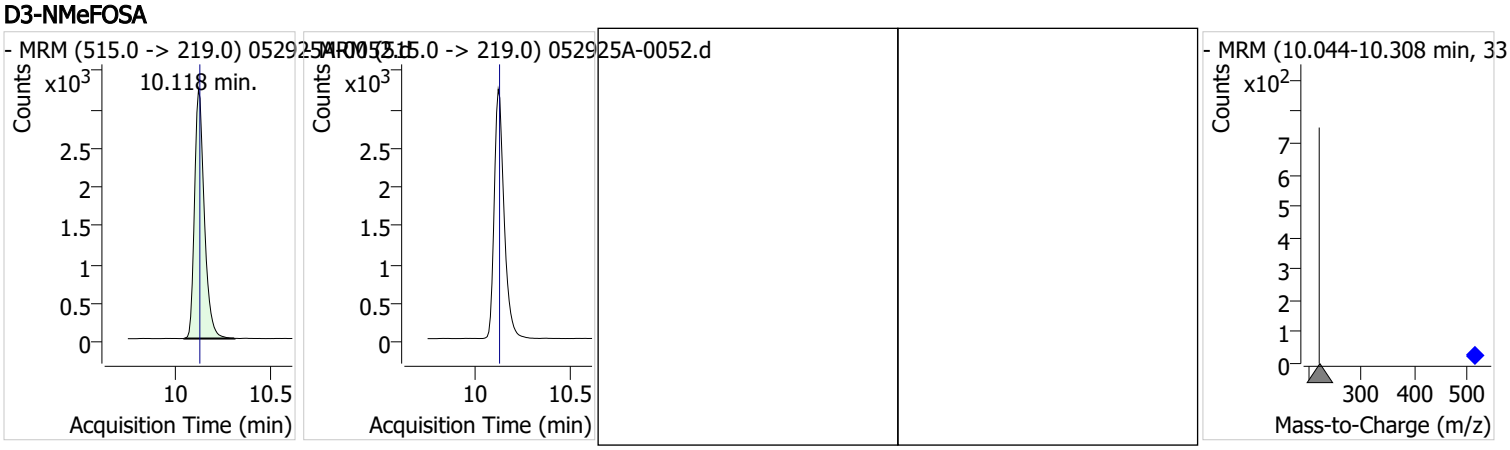
13C8-PFOSA



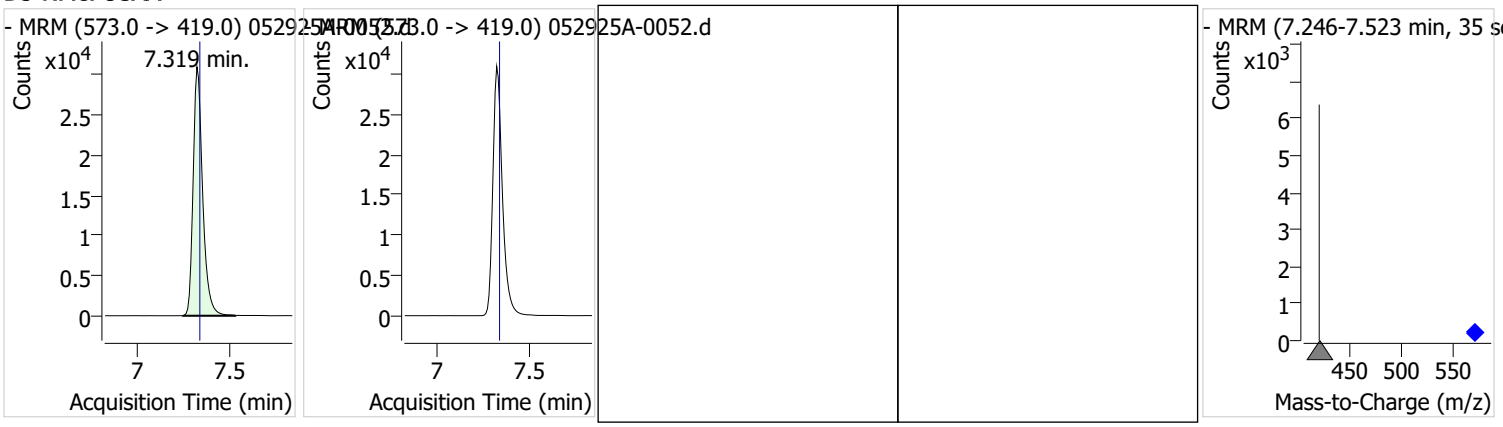
13C9-PFNA



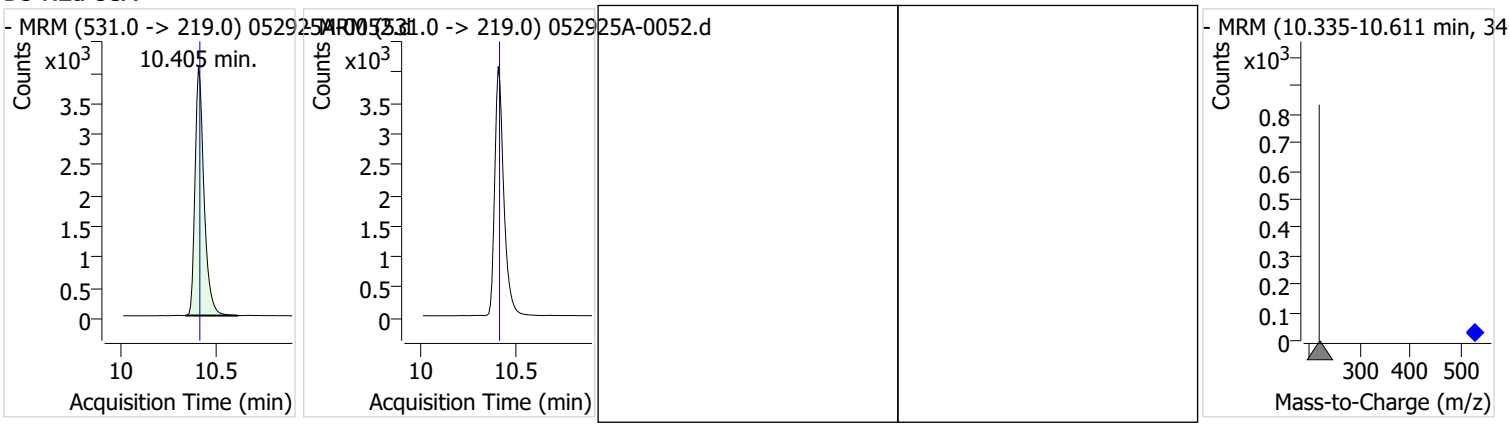
D3-NMeFOSA



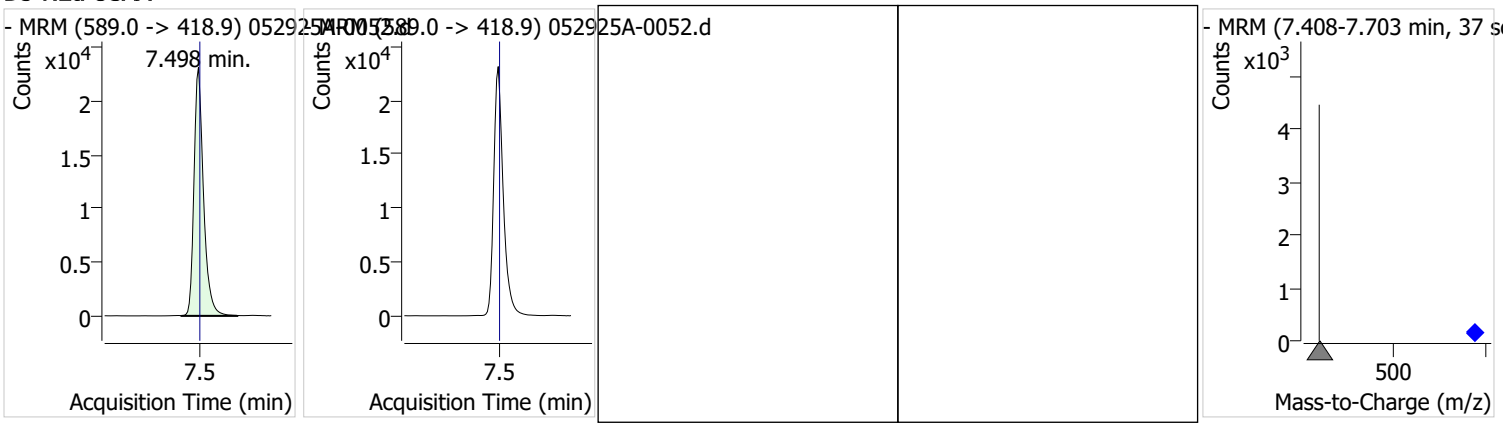
D3-NMeFOSAA



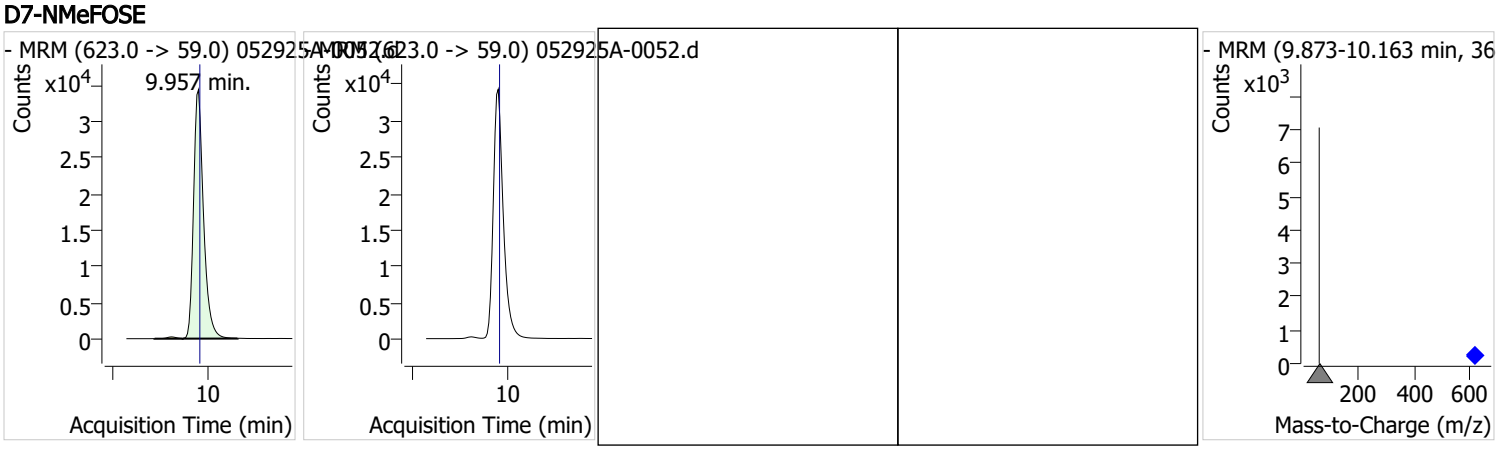
D5-NEtFOSA



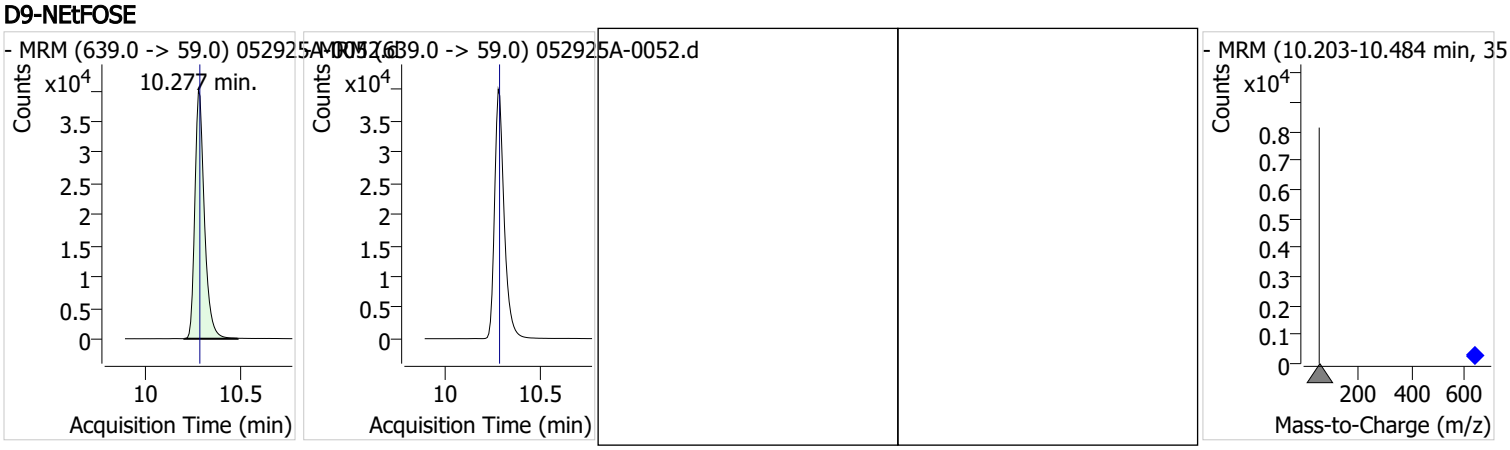
D5-NEtFOSAA



D7-NMeFOSE

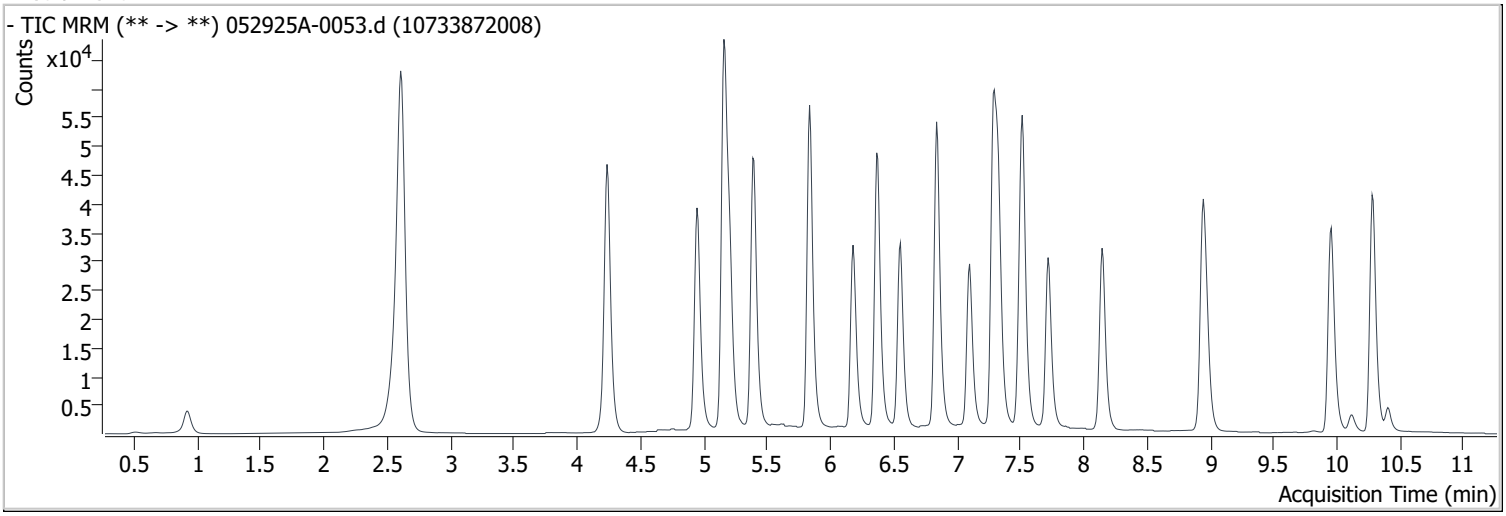


D9-NEtFOSE



Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 10:24 PM	**Data File**	052925A-0053.d
Sample Type	Sample	**Sample Name**	10733872008
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	102955	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	38624	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	30392	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	178904	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	27686	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	232344	42559.24		13C3-PFBA_ISTD	2.608	109786	8.6953	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.528	33584	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.528	33584	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.528	33584	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	38624	14357.78		18O2-PFHxS_ISTD	6.559	40537	5.5334	ng/ml			
13C2-6:2FTS	6.180	30392	12740.23		18O2-PFHxS_ISTD	6.559	40537	5.7788	ng/ml			
13C2-8:2FTS	7.100	27686	72378.36		18O2-PFHxS_ISTD	6.559	40537	5.2446	ng/ml			
13C2-PFDoA	8.146	107768	31589.50		13C2-PFDA_ISTD	7.290	88836	0.9710	ng/ml			
13C2-PFDA	7.290	88836	25271.41					1.8272	ng/ml			
13C2-PFHxA	5.162	107241	5647.56					3.4793	ng/ml			
13C2-PFTeDA	8.936	115321	50657.30		13C2-PFDA_ISTD	7.290	88836	0.9247	ng/ml			
13C4-PFOS	7.529	41704	12467.84					3.7833	ng/ml			
13C3-HFPODA	5.394	102955	171221.11		13C2-PFHxA_ISTD	5.162	107241	8.9855	ng/ml			
13C3-PFBS	5.205	60765	466823.30		18O2-PFHxS_ISTD	6.559	40537	2.1956	ng/ml			
13C3-PFHxS	6.560	43275	232489.84		18O2-PFHxS_ISTD	6.559	40537	2.3092	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	85328	-	ng/ml			
584.0 -> 526.0				*								

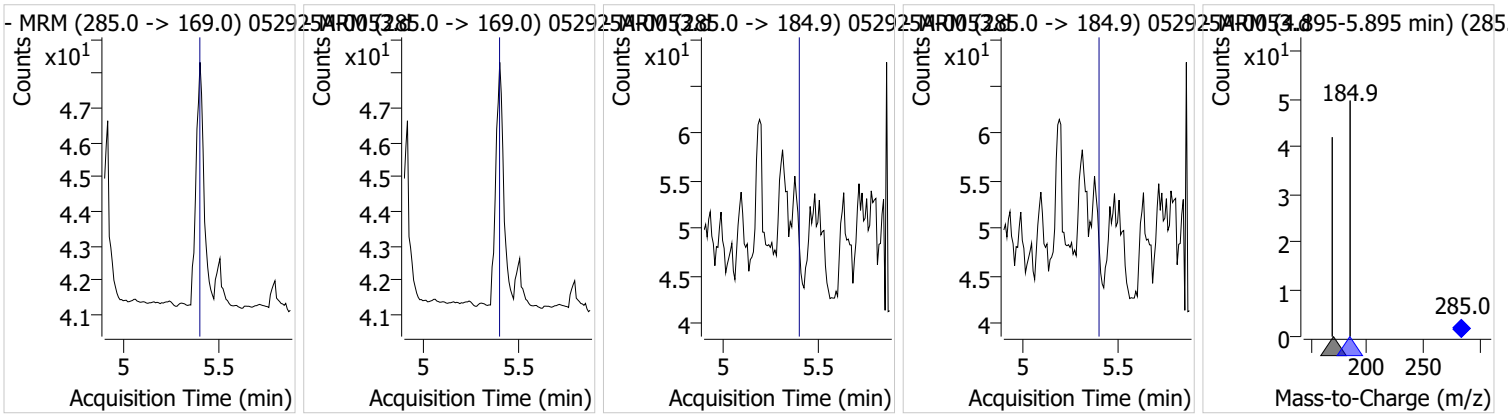
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	178904	55505.68		13C2-PFHxA_ISTD	5.162	107241	2.3492	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.327	114052	-	ng/ml			
570.0 -> 483.0				*								
PFBA	2.611	802	29.34		13C4-PFBA_ISTD	2.606	232344	0.0346	ng/ml			
13C5-PFHxA	5.161	105585	7981.94		13C2-PFHxA_ISTD	5.162	107241	2.2179	ng/ml			
PFBS	5.213	676	34.05		13C3-PFBS_ISTD	5.205	60765	0.0211	ng/ml			
298.9 -> 98.8	5.213	265	70.85	39.1								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	10325	-	ng/ml			
512.0 -> 169.0				*								
PFDA					13C6-PFDA_ISTD	7.289	88042	-	ng/ml			
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.146	107768	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	12259	-	ng/ml			
526.0 -> 169.0				*								
PFHpA	5.839	752	12.10		13C4-PFHpA_ISTD	5.839	178904	0.0094	ng/ml			
362.9 -> 169.0	5.848	108	5.36	14.4								
PFHxA	5.163	2116	66.47		13C5-PFHxA_ISTD	5.161	105585	0.0430	ng/ml			
313.0 -> 118.9	5.163	52	225.71	2.4								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	130350	-	ng/ml			
PFHxS	6.498	364	76.23		13C3-PFHxS_ISTD	6.560	43275	0.0166	ng/ml			
398.9 -> 99.0	6.498	289	32.05	*79.4								
PFNA					13C9-PFNA_ISTD	6.842	84154	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	145251	-	ng/ml			
PFOA	6.300	1231	21.40		13C8-PFOA_ISTD	6.368	122843	0.0212	ng/ml			
413.0 -> 169.0	6.300	326	64.23	26.5								
PFOS	7.399	499	91.64		13C8-PFOS_ISTD	7.528	33584	0.0252	ng/ml			
499.0 -> 99.0	7.402	306	69.96	61.2								
PFPeA	4.239	2071	105.45		13C5-PFPeA_ISTD	4.237	170663	0.0539	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	232344	-	ng/ml			
13C5-PFPeA	4.237	170663	28650.52		13C2-PFHxA_ISTD	5.162	107241	4.4935	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	170663	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.146	107768	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	105585	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	88042	26788.93		13C2-PFDA_ISTD	7.290	88836	1.0525	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	105585	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	48776	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	97187	29400.26		13C2-PFDA_ISTD	7.290	88836	1.0403	ng/ml			
13C4-PFOA	6.369	30724	2292.52					3.7158	ng/ml			
PFDS					13C8-PFOS_ISTD	7.528	33584	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.528	33584	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.560	43275	-	ng/ml			
349.0 -> 98.9				*								
PFTeDA					13C2-PFTeDA_ISTD	8.936	115321	-	ng/ml			

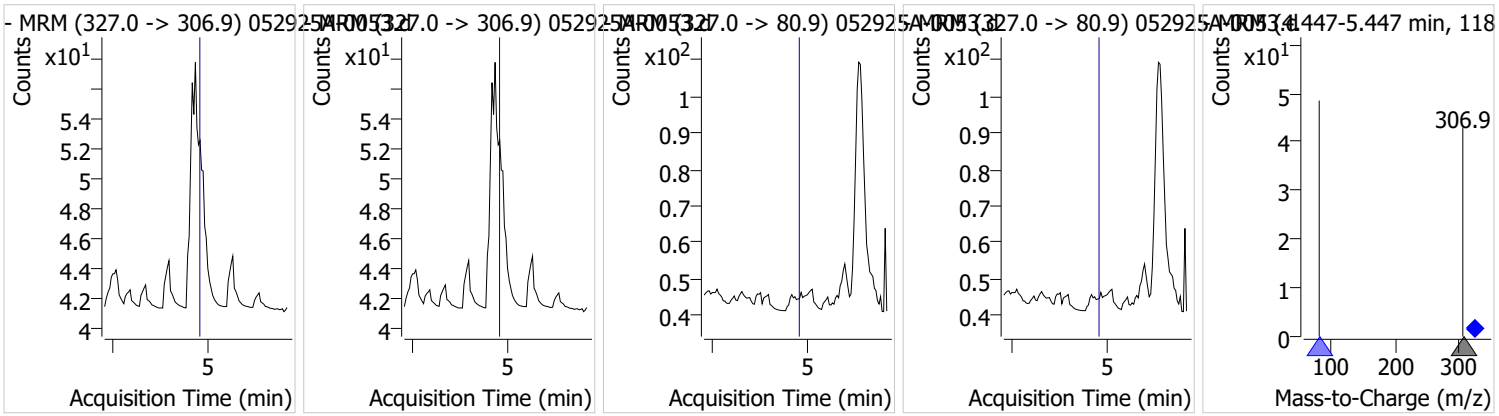
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	97187	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.608	109786	5280.85					7.2292	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	170663	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	105585	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	84154	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	86582	5502.55					1.8308	ng/ml			
18O2-PFHxS	6.559	40537	200879.18					3.5687	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.528	33584	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.528	33584	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.920	98	22.27		13C3-PFPrA_ISTD	0.916	18455	0.0603	ng/ml	✔	WP	MJL 5/30/25
13C3-PFPrA	0.916	18455	1527.27		13C3-PFBA_ISTD	2.608	109786	1.5539	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	102955	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	122843	545824.11		13C4-PFOA_ISTD	6.369	30724	2.1341	ng/ml			
13C8-PFOS	7.528	33584	10043.73		13C4-PFOS_ISTD	7.529	41704	2.0591	ng/ml			
13C8-PFOSA	8.975	48776	13767.73		13C4-PFOS_ISTD	7.529	41704	2.0798	ng/ml			
13C9-PFNA	6.842	84154	465491.13		13C5-PFNA_ISTD	6.842	86582	1.1001	ng/ml			
D3-NMeFOSA	10.118	10325	2798.33		13C4-PFOS_ISTD	7.529	41704	1.3818	ng/ml			
D3-NMeFOSAA	7.327	114052	33194.82		13C4-PFOS_ISTD	7.529	41704	4.3969	ng/ml			
D5-NEtFOSA	10.405	12259	3772.84		13C4-PFOS_ISTD	7.529	41704	1.3648	ng/ml			
D5-NEtFOSAA	7.498	85328	24227.43		13C4-PFOS_ISTD	7.529	41704	4.3314	ng/ml			
D7-NMeFOSE	9.957	130350	19554.05		13C4-PFOS_ISTD	7.529	41704	18.1711	ng/ml			
D9-NEtFOSE	10.277	145251	41106.39		13C4-PFOS_ISTD	7.529	41704	18.2347	ng/ml			

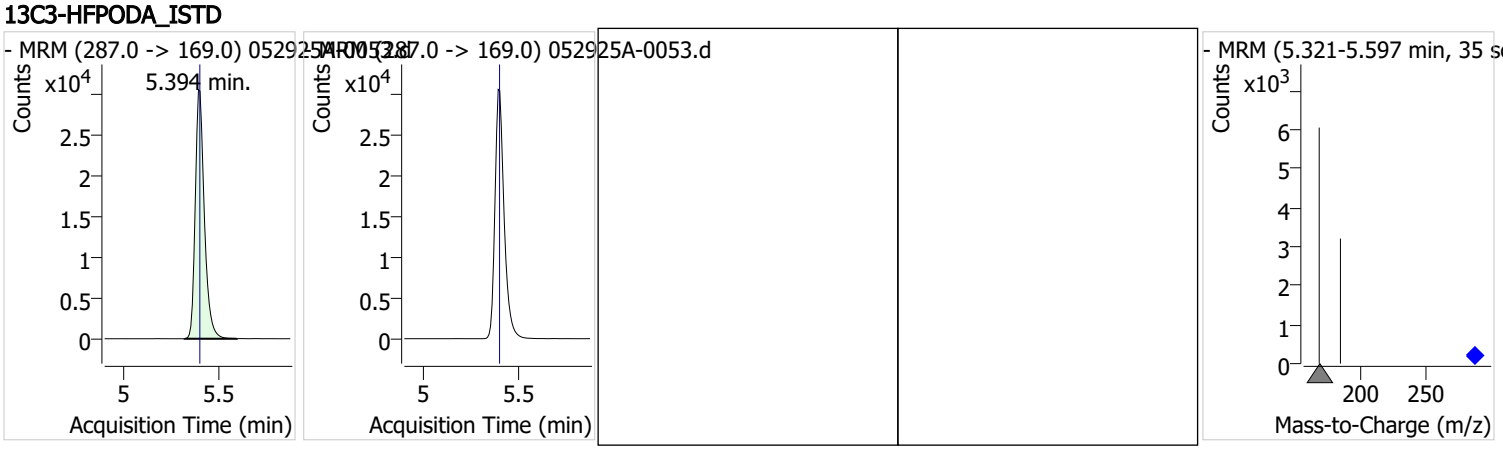
HFPO-DA



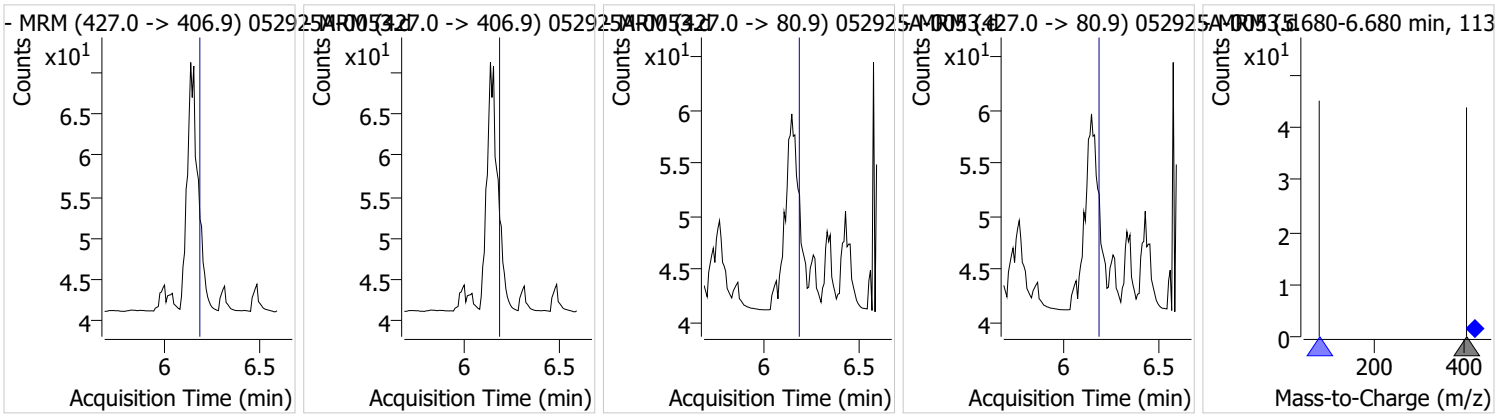
4:2FTS



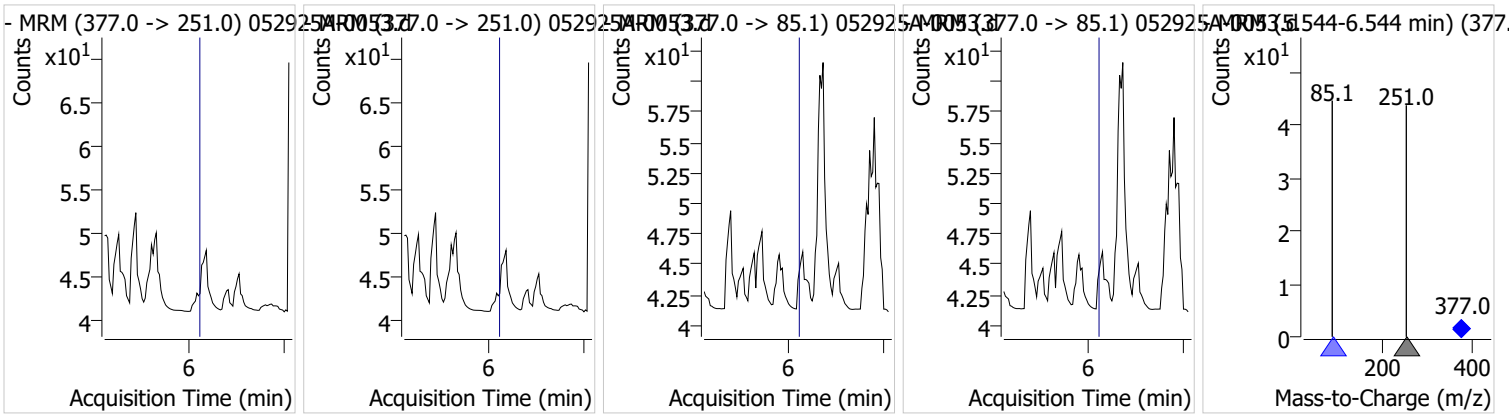
13C3-HFPODA_ISTD



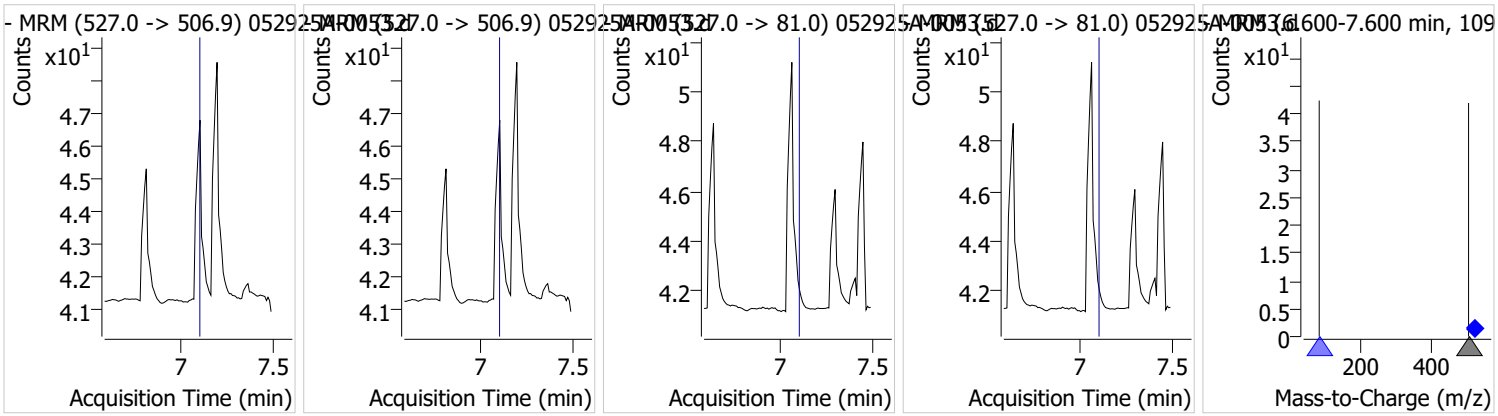
6:2FTS



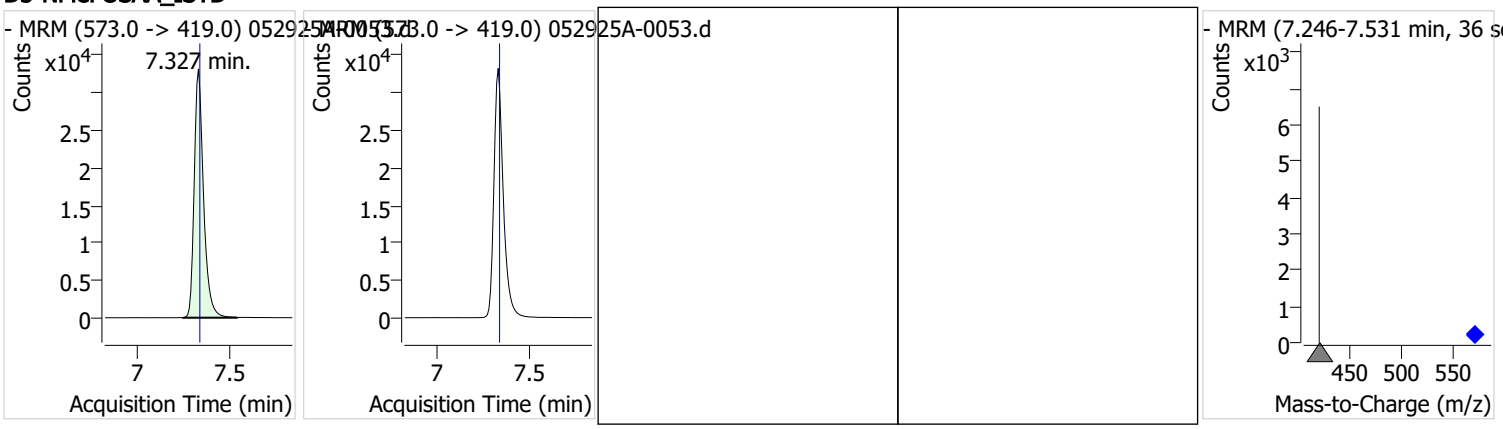
ADONA



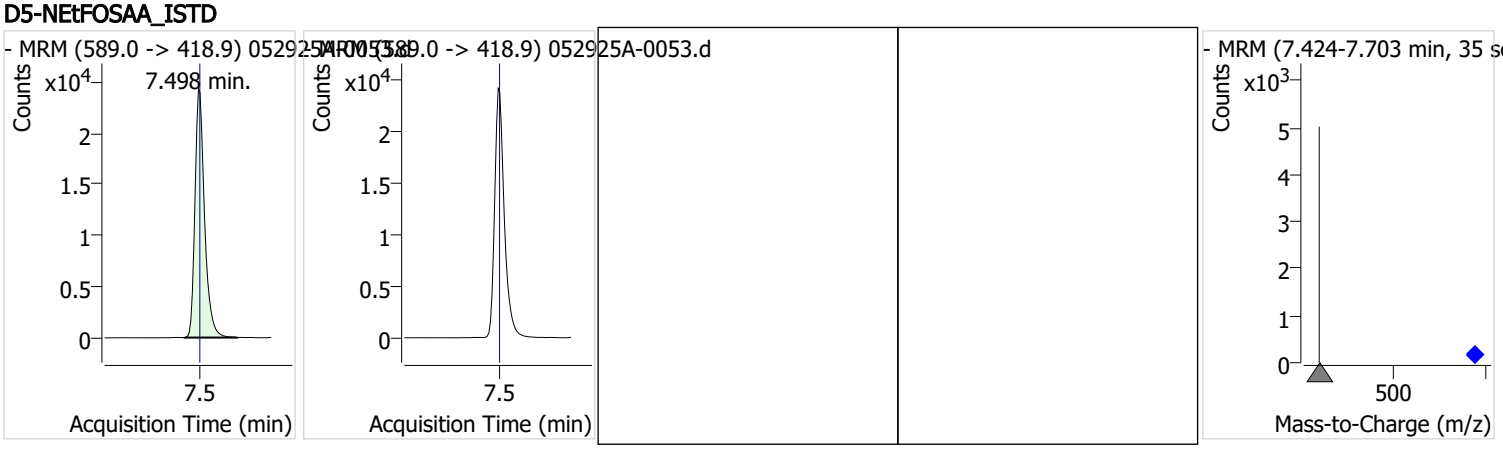
8:2FTS



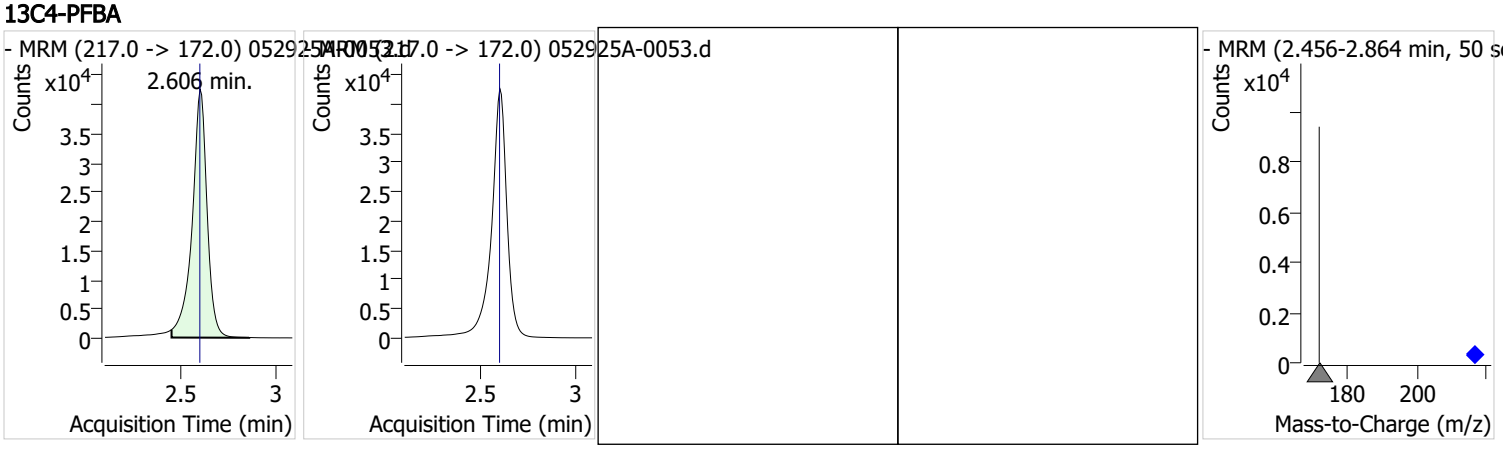
D3-NMeFOSAA_ISTD



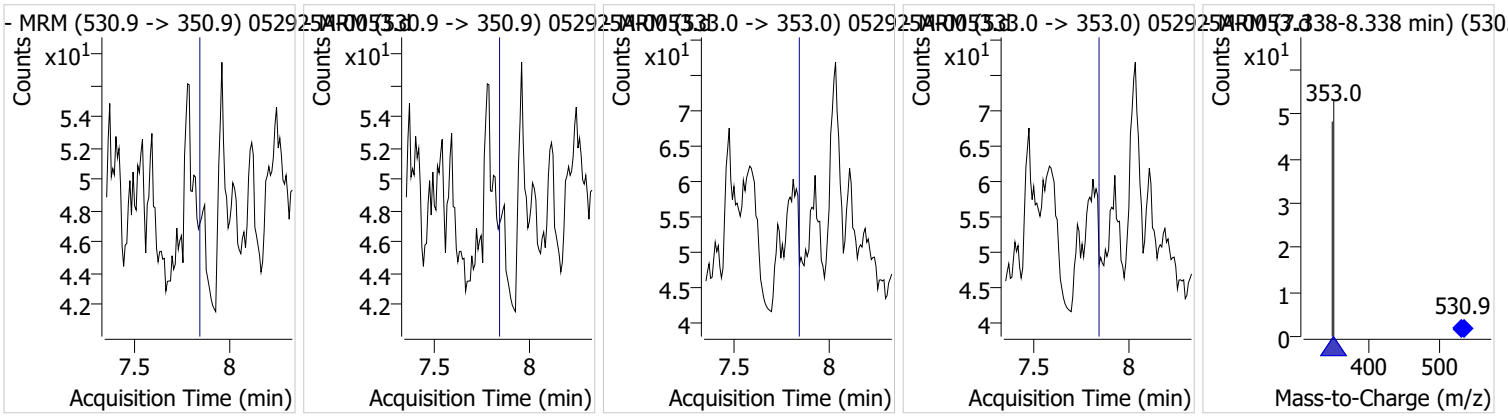
D5-NEtFOSAA_ISTD



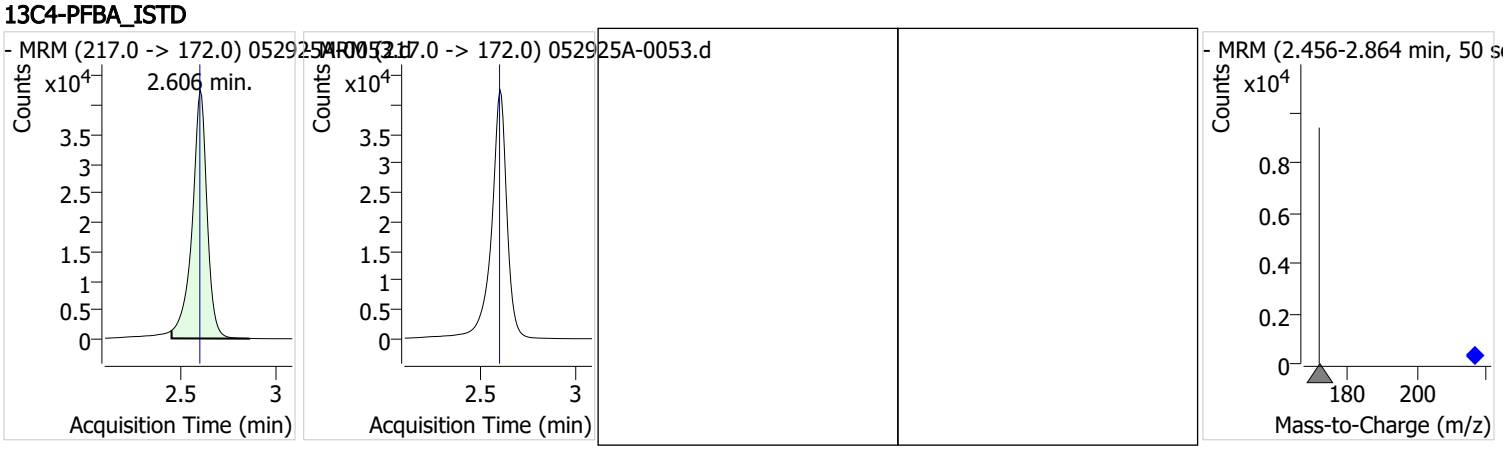
13C4-PFBA



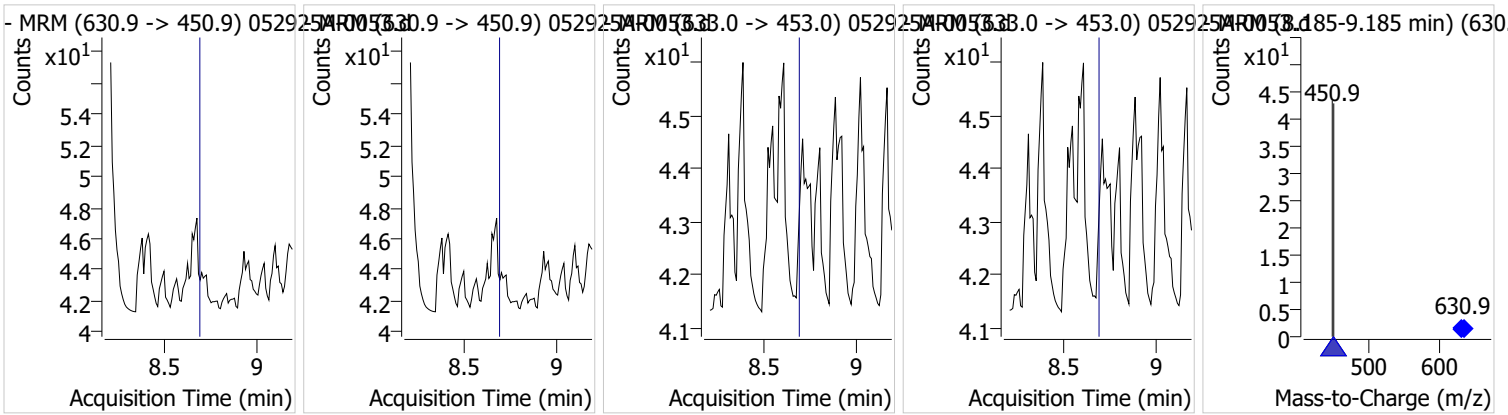
9Cl-PF3ONS



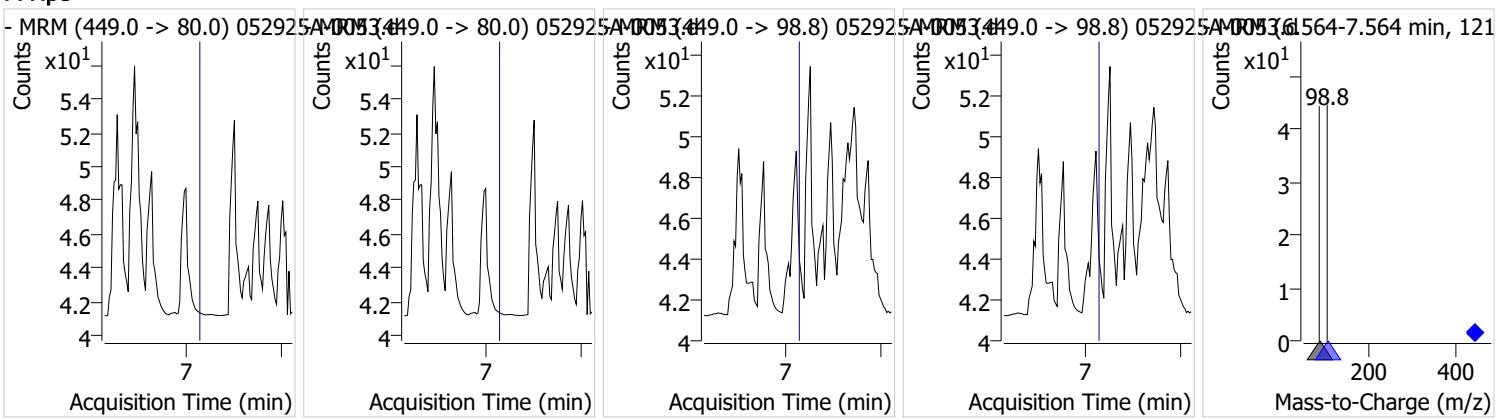
13C4-PFBA_ISTD



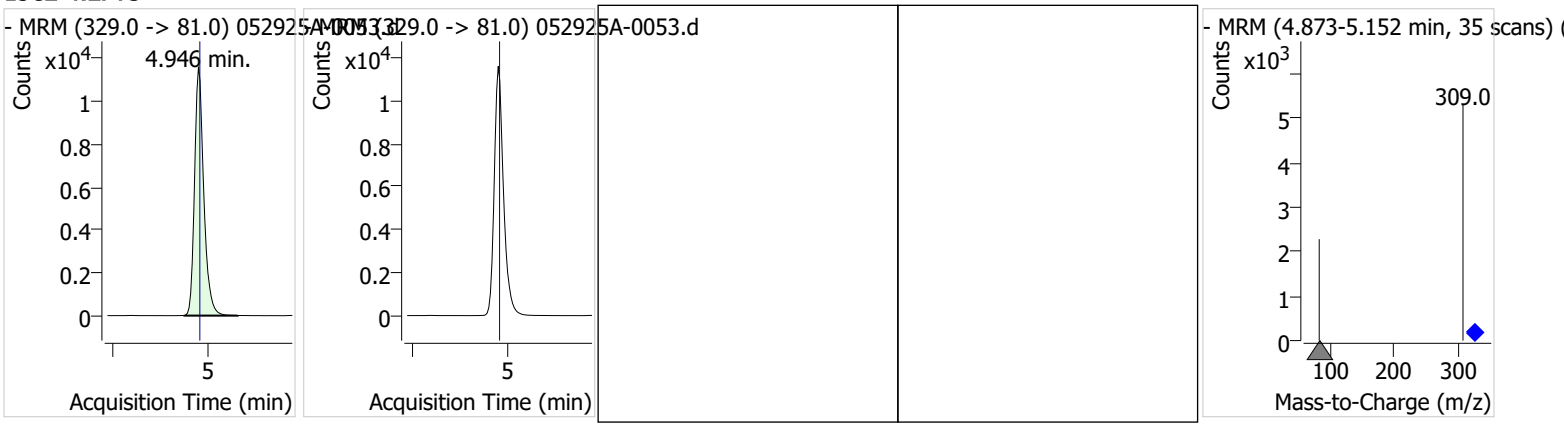
11Cl-PF3OUdS



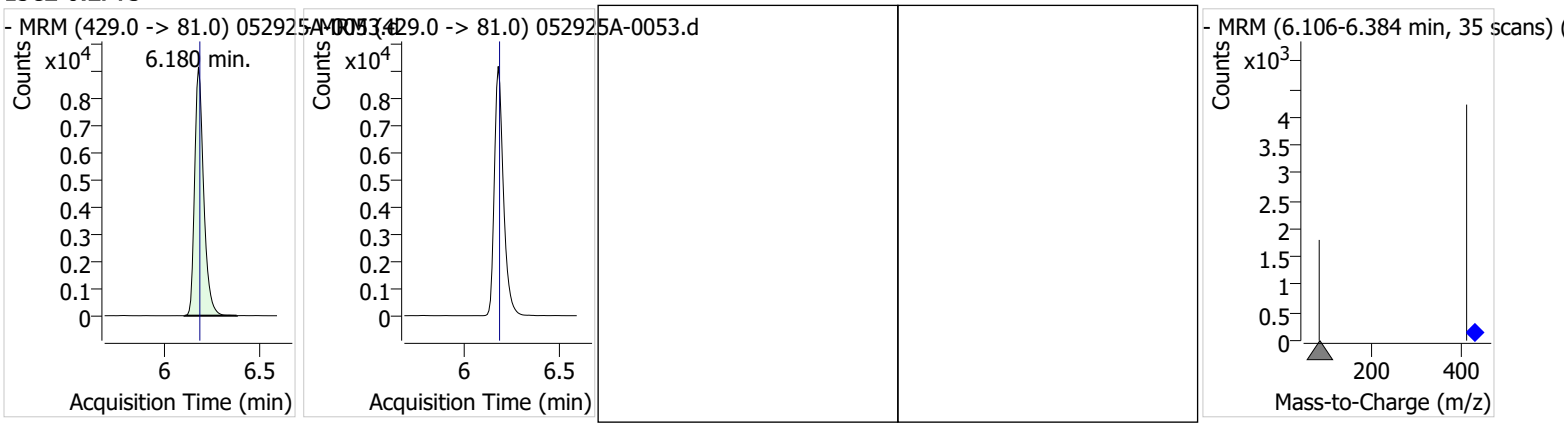
PFHpS



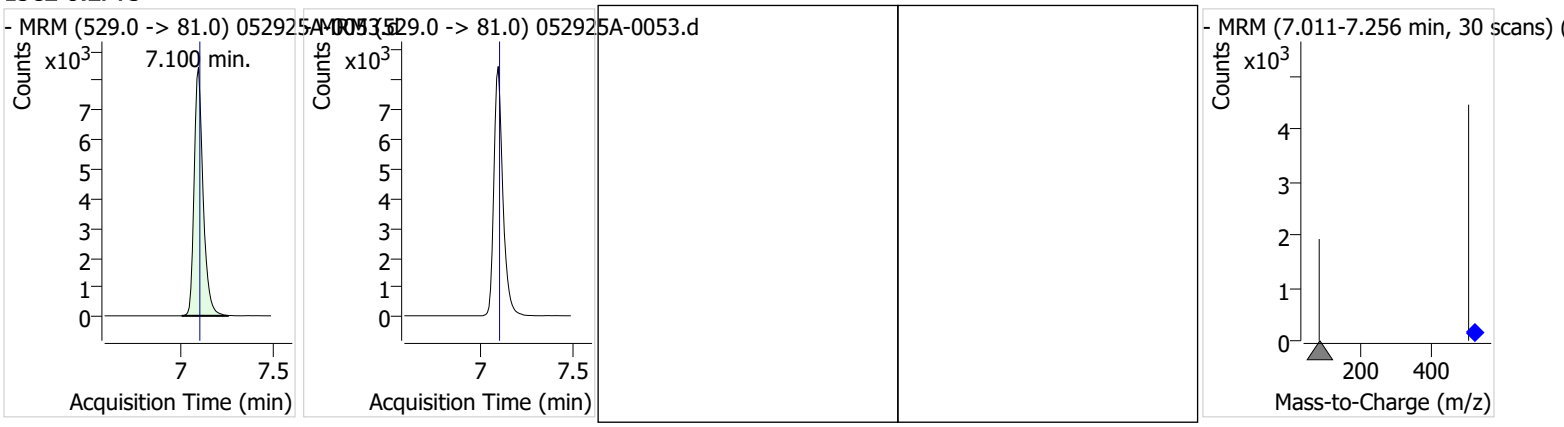
13C2-4:2FTS



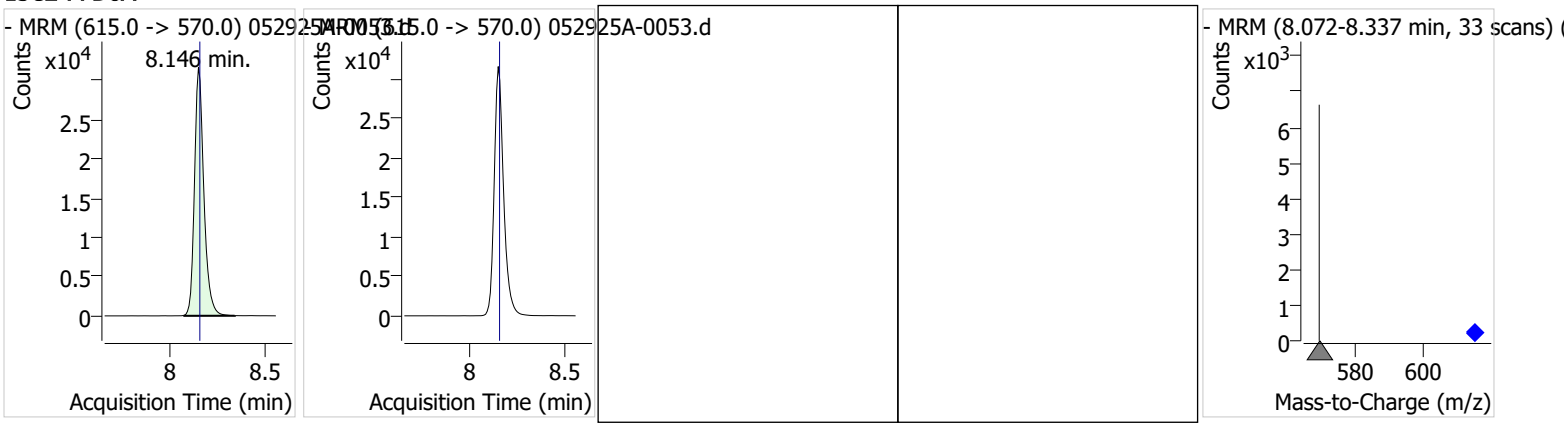
13C2-6:2FTS



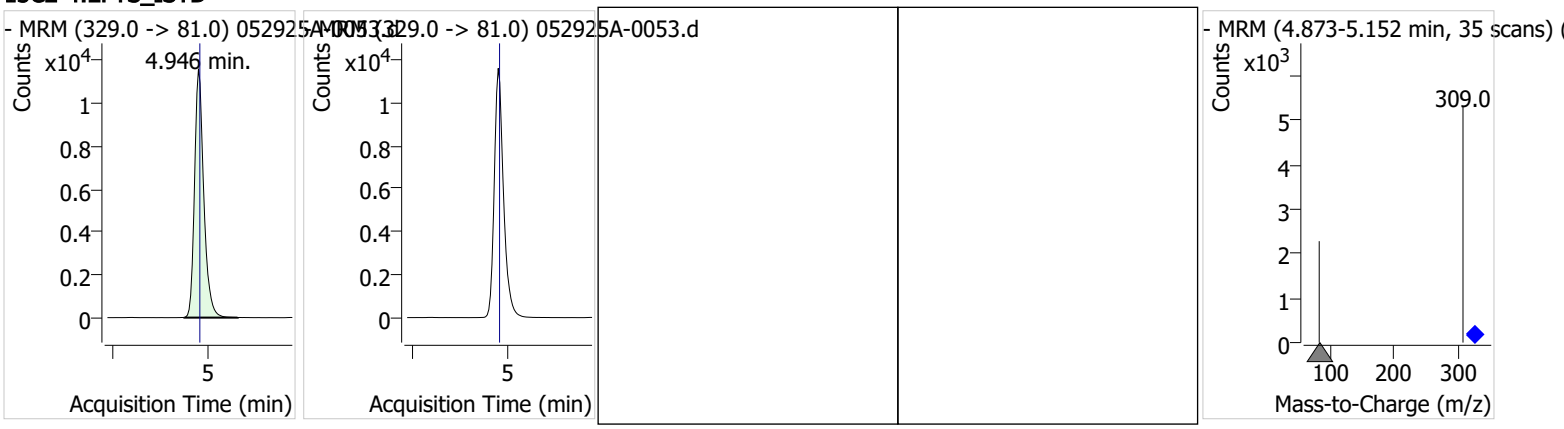
13C2-8:2FTS



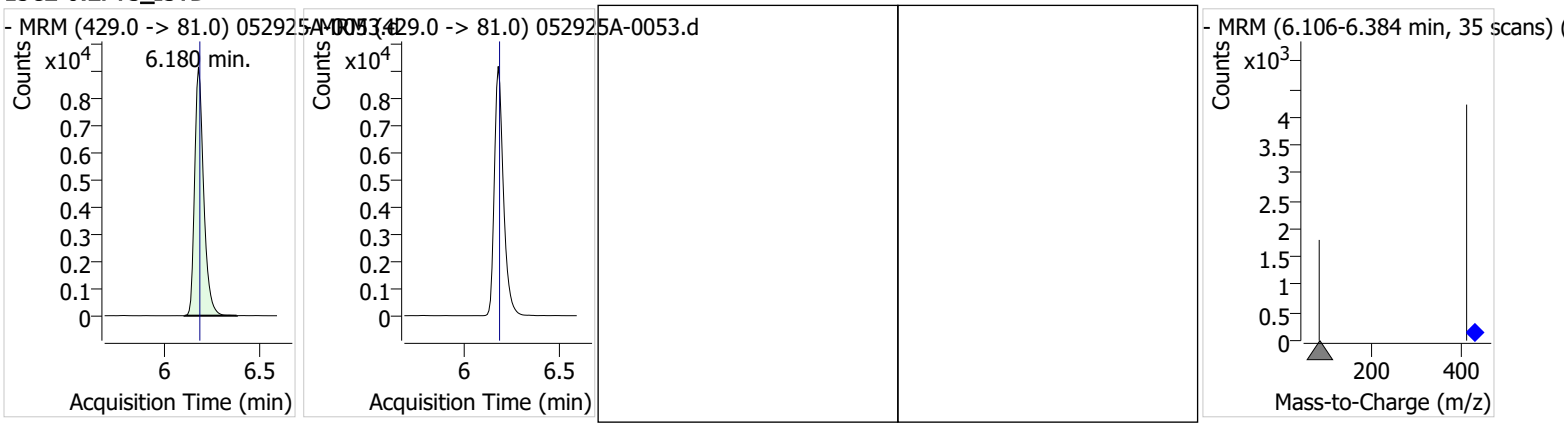
13C2-PFDoA



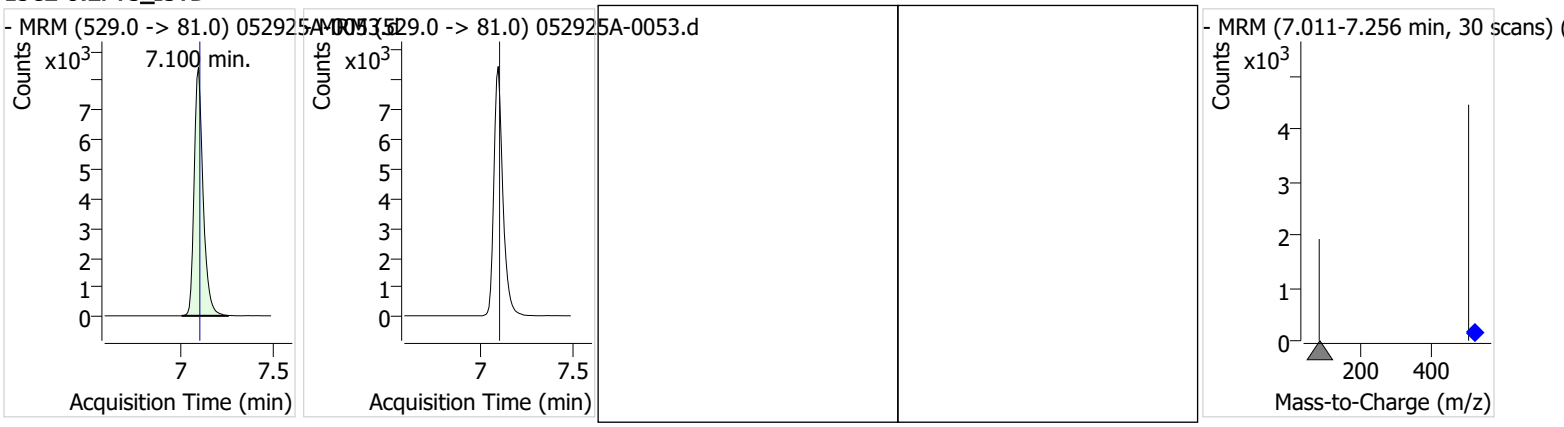
13C2-4:2FTS_ISTD



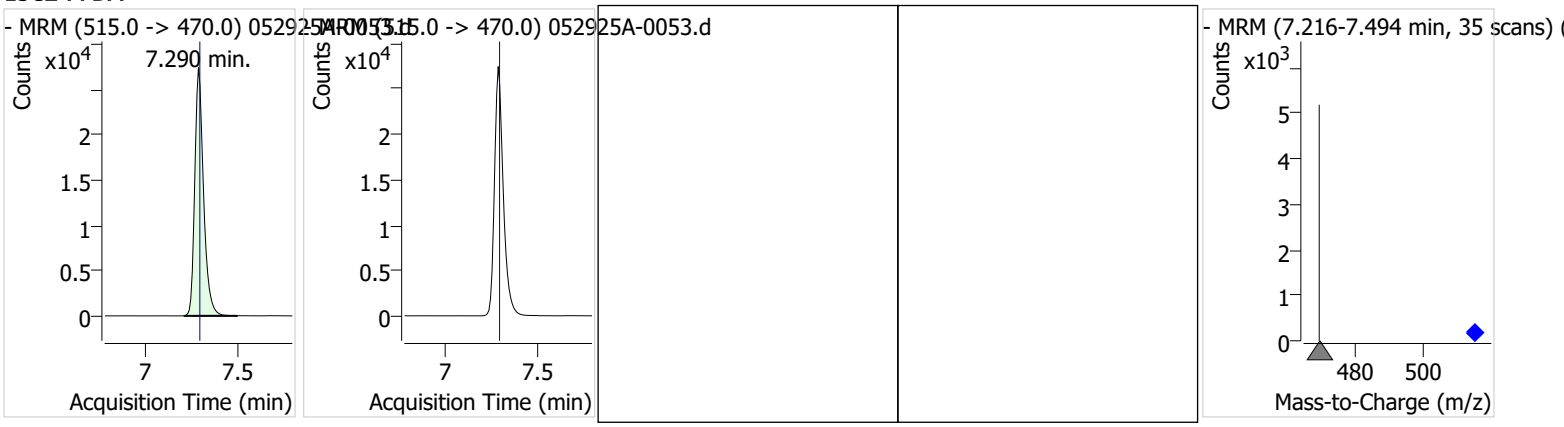
13C2-6:2FTS_ISTD



13C2-8:2FTS_ISTD



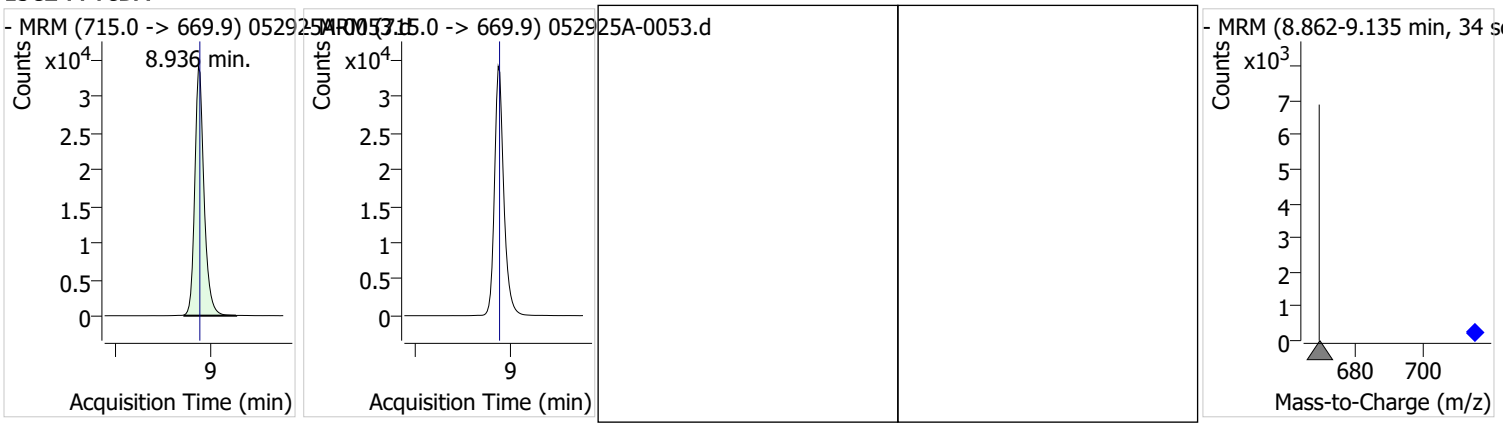
13C2-PFDA



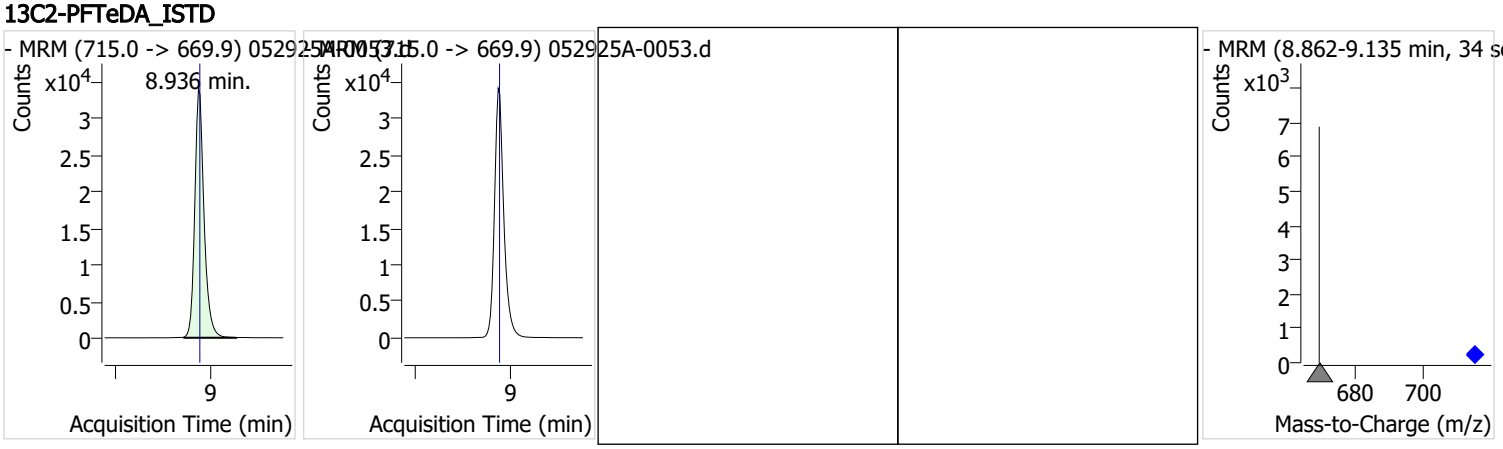
13C2-PFHxA



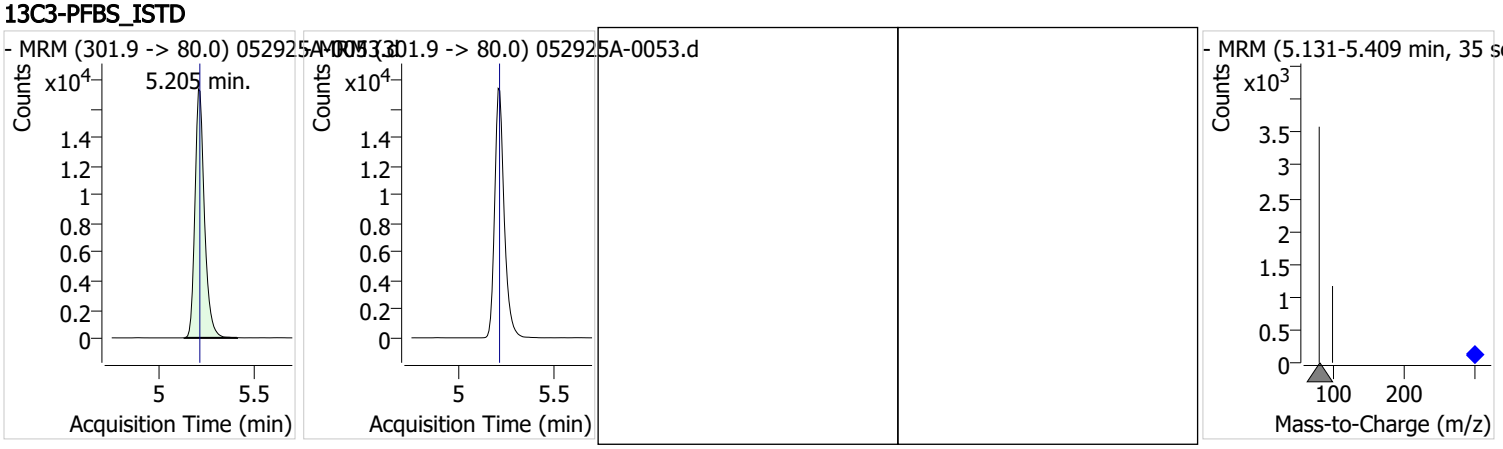
13C2-PFTeDA



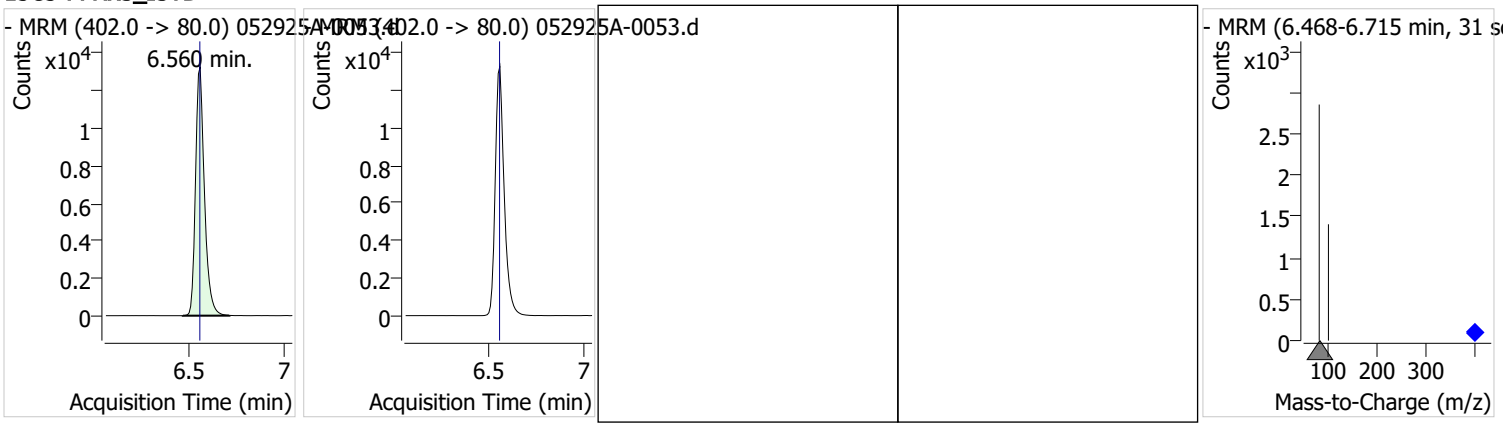
13C2-PFTeDA_ISTD



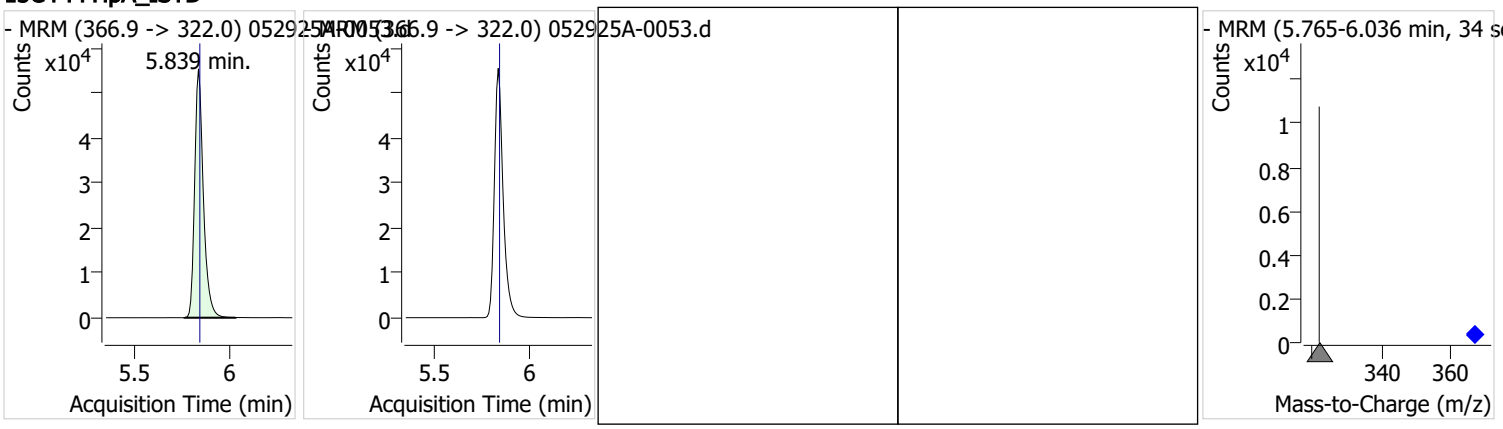
13C3-PFBS_ISTD



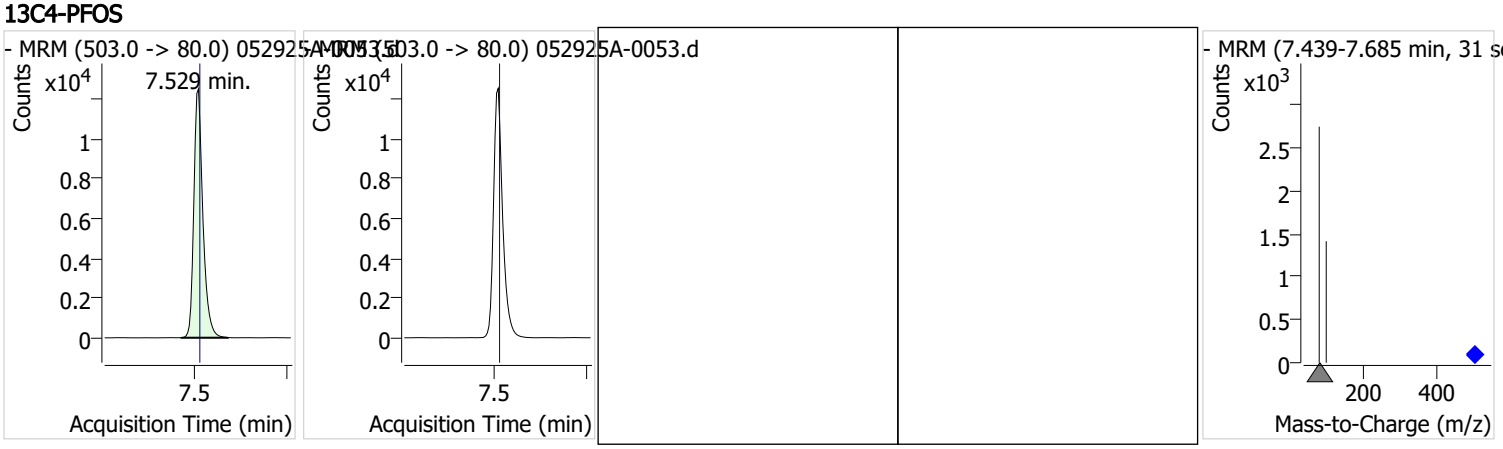
13C3-PFHxS_ISTD



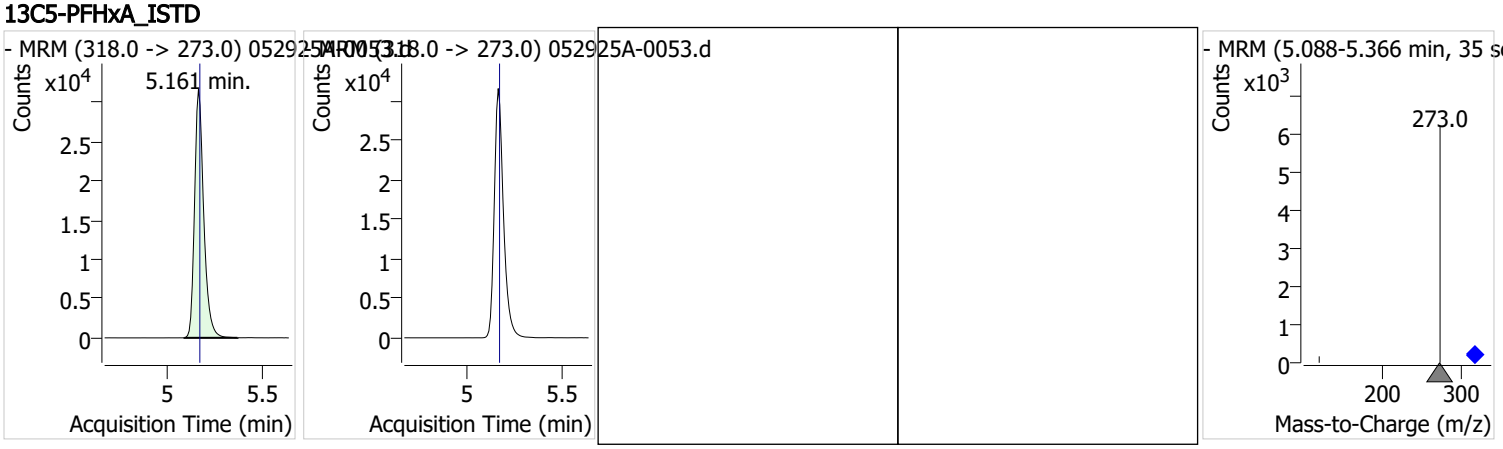
13C4-PFHpA_ISTD



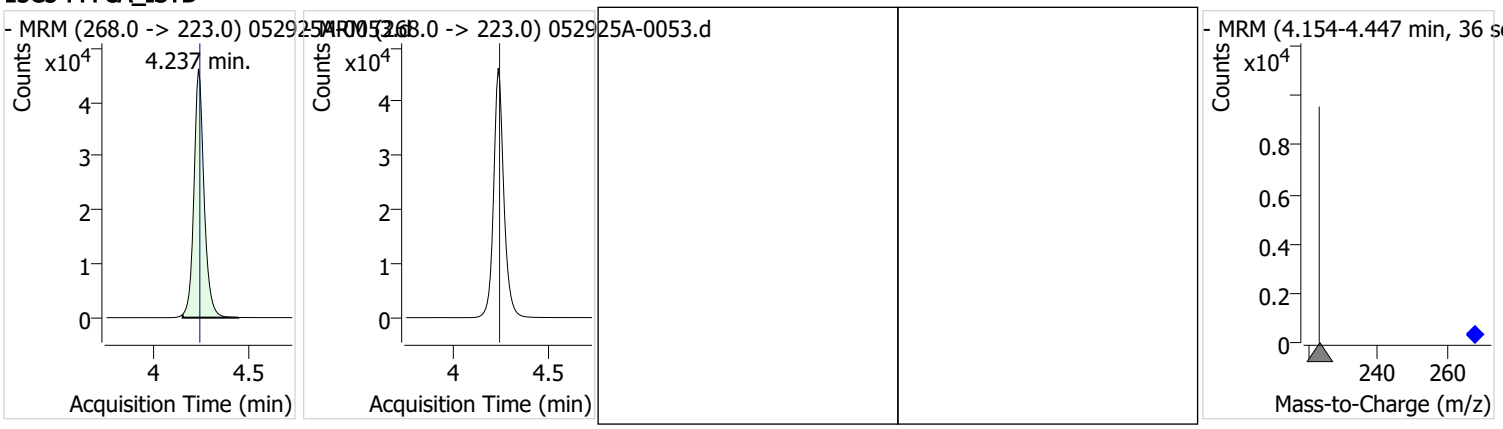
13C4-PFOS



13C5-PFHxA_ISTD



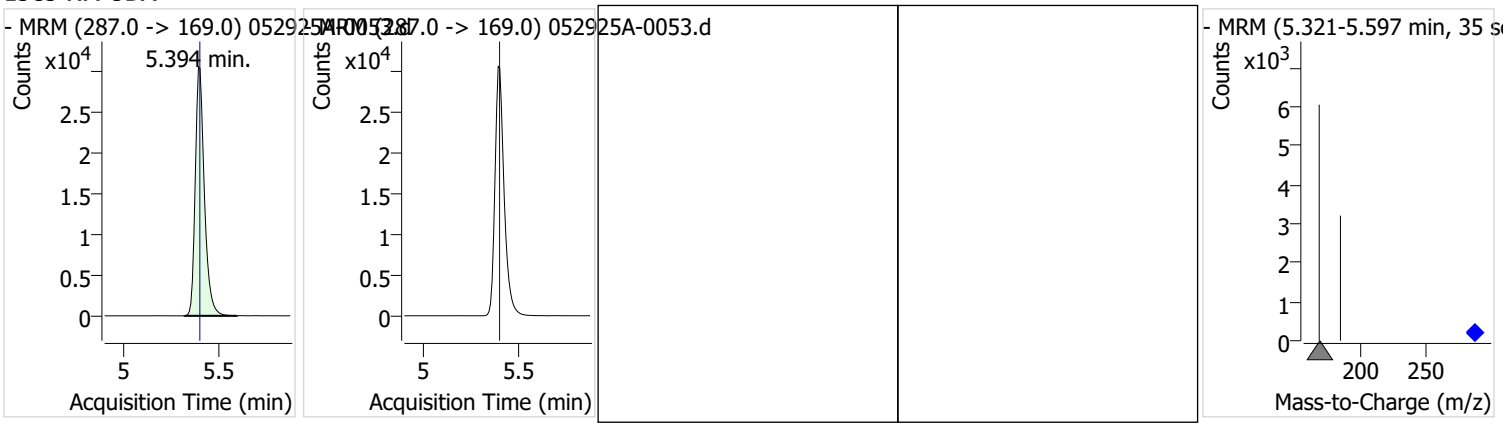
13C5-PFPeA_ISTD



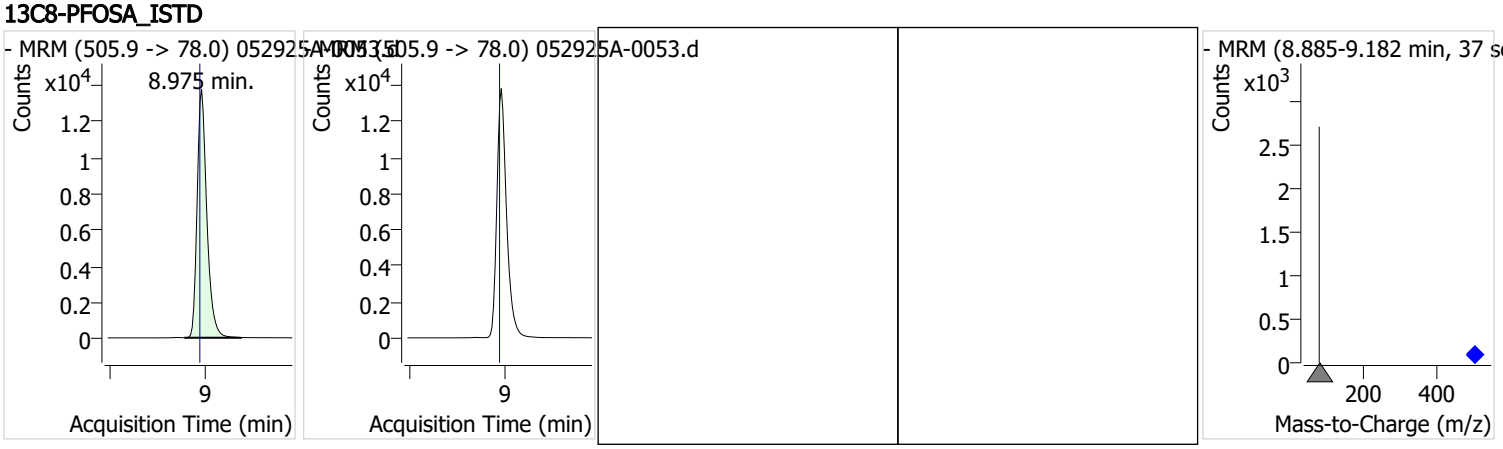
13C6-PFDA_ISTD



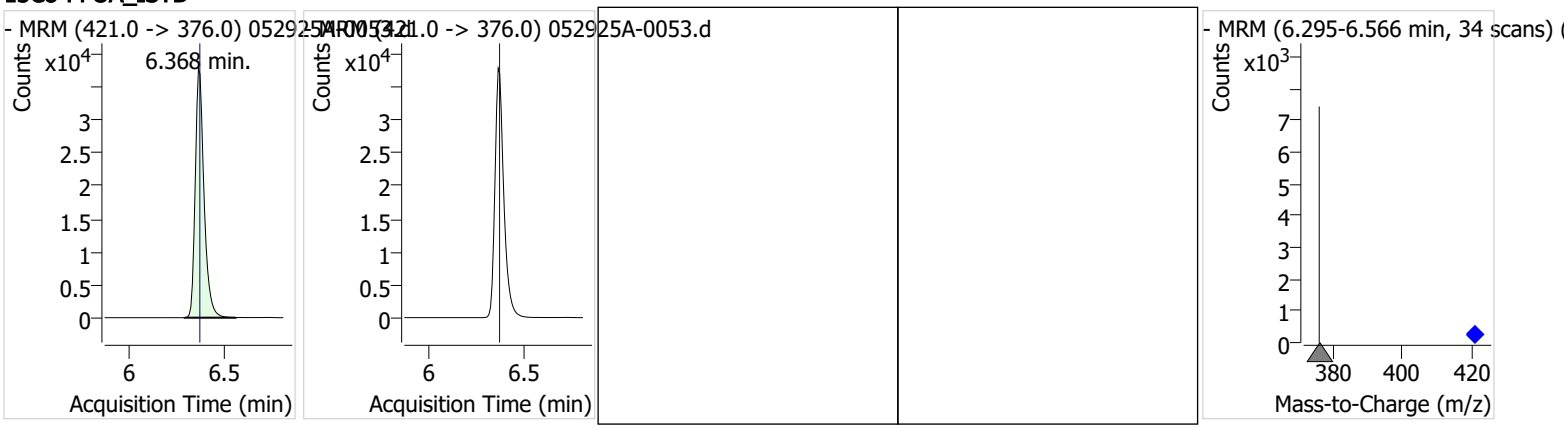
13C3-HFPODA



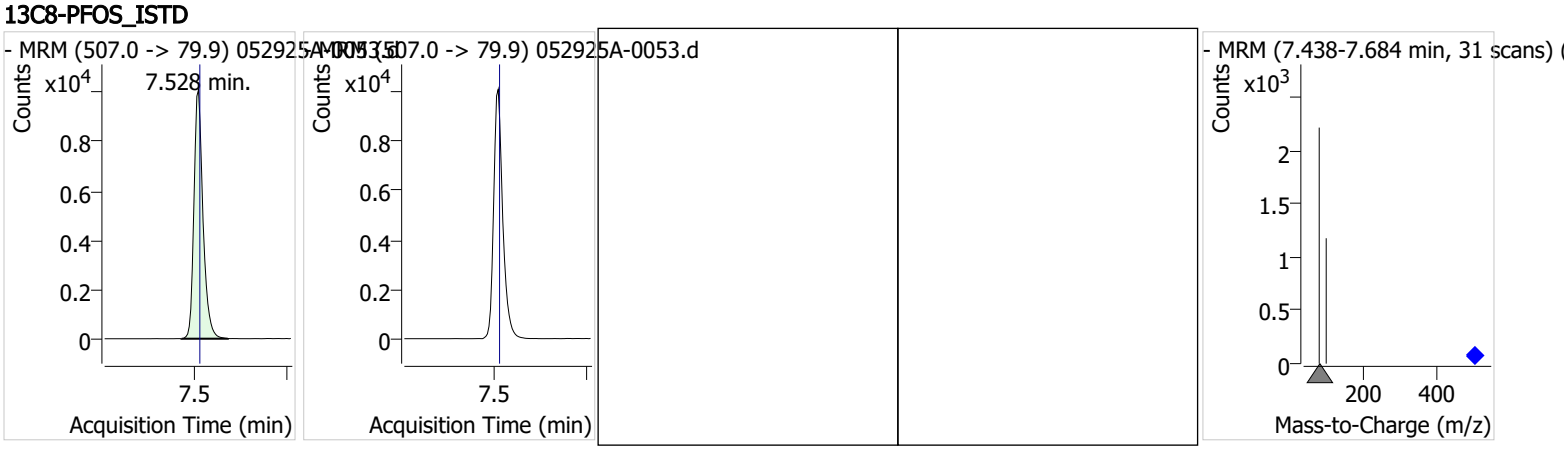
13C8-PFOSA_ISTD



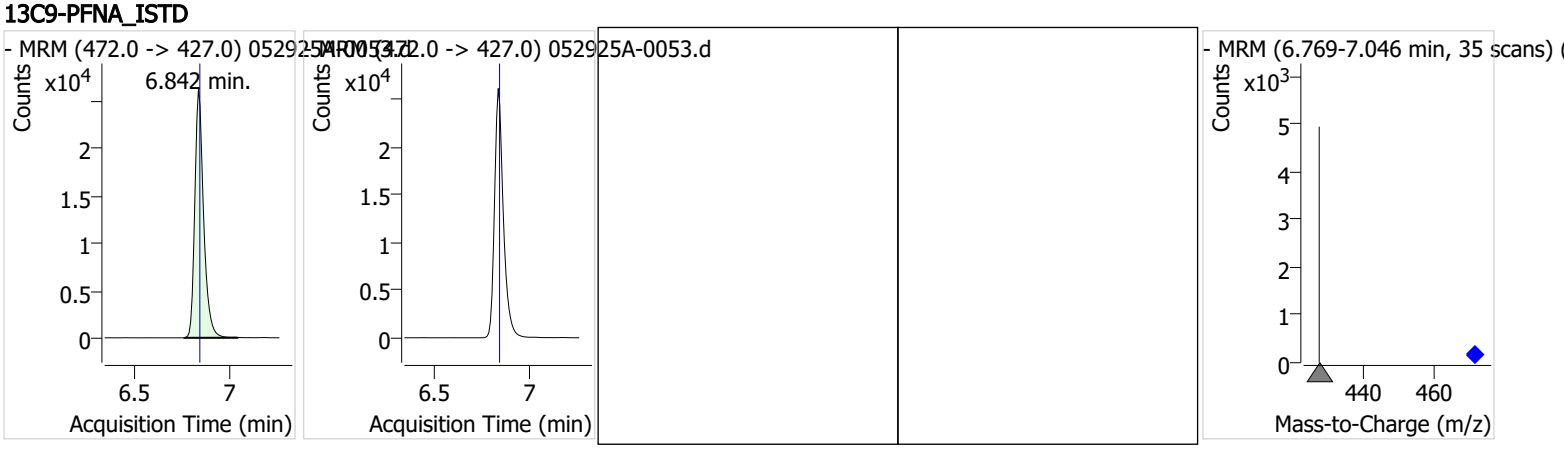
13C8-PFOA_ISTD



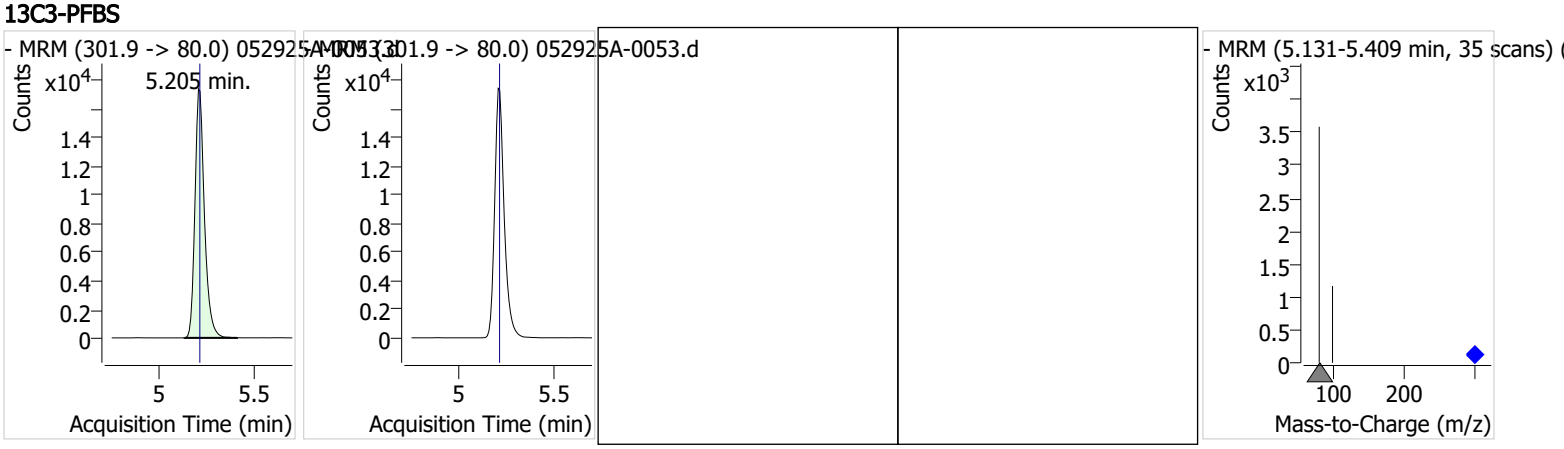
13C8-PFOS_ISTD



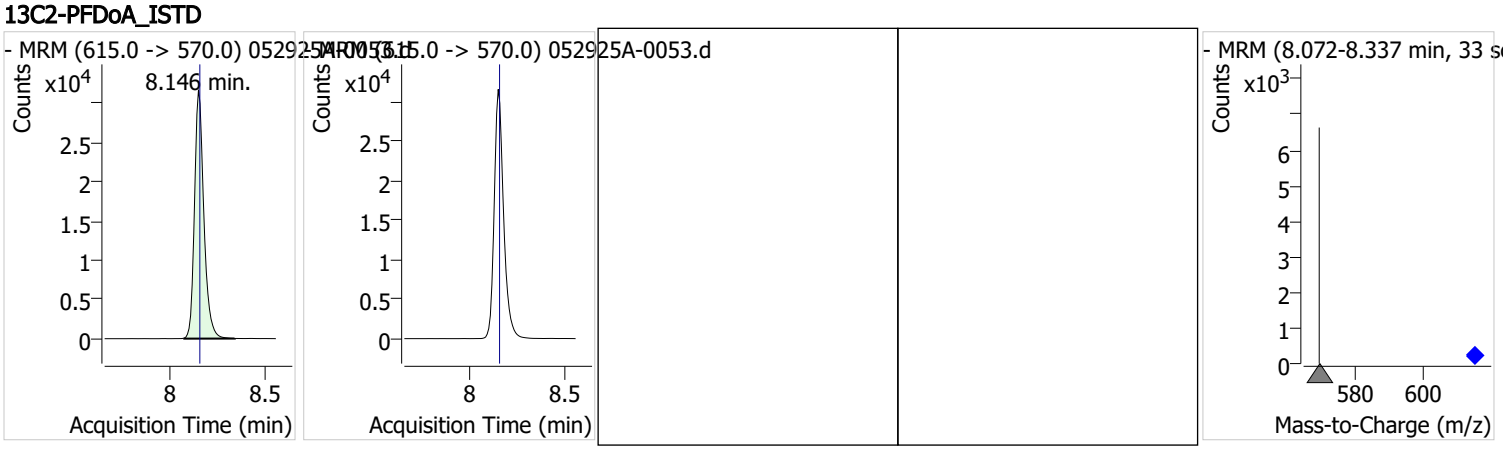
13C9-PFNA_ISTD



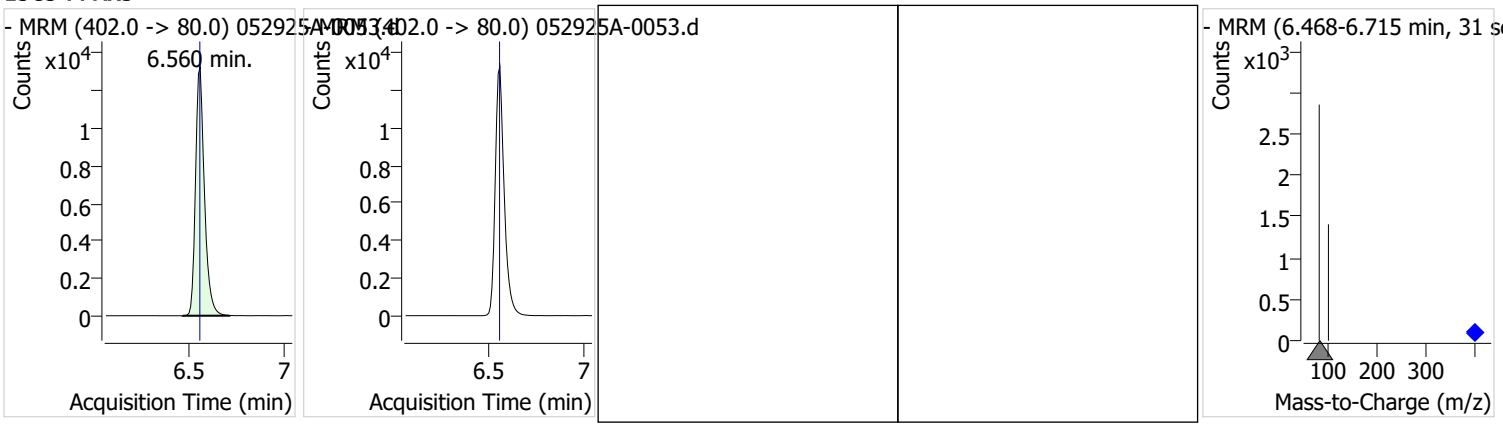
13C3-PFBS



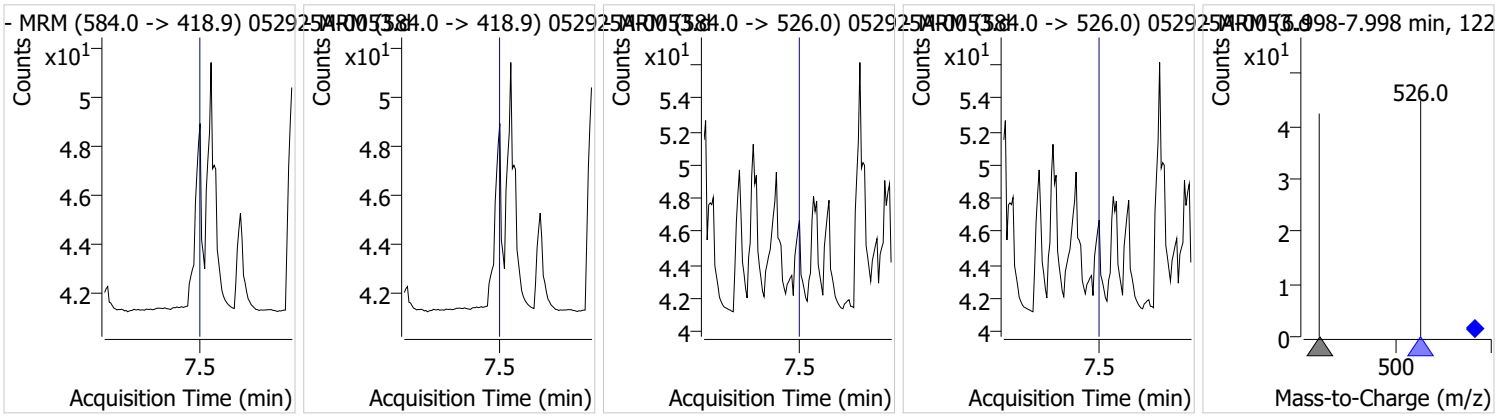
13C2-PFDoA_ISTD



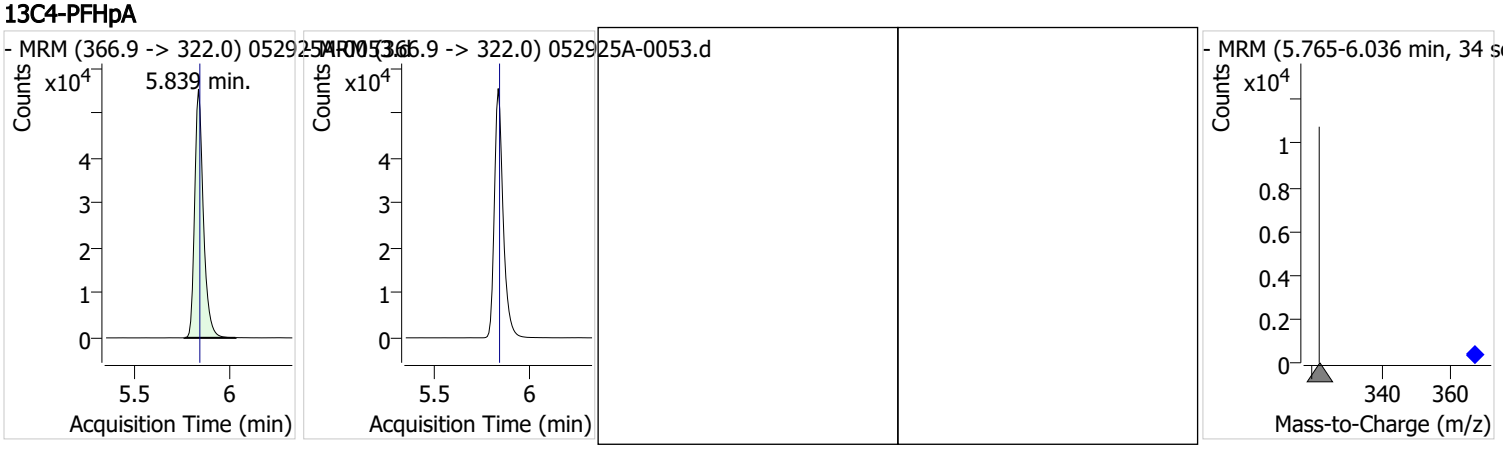
13C3-PFHxS



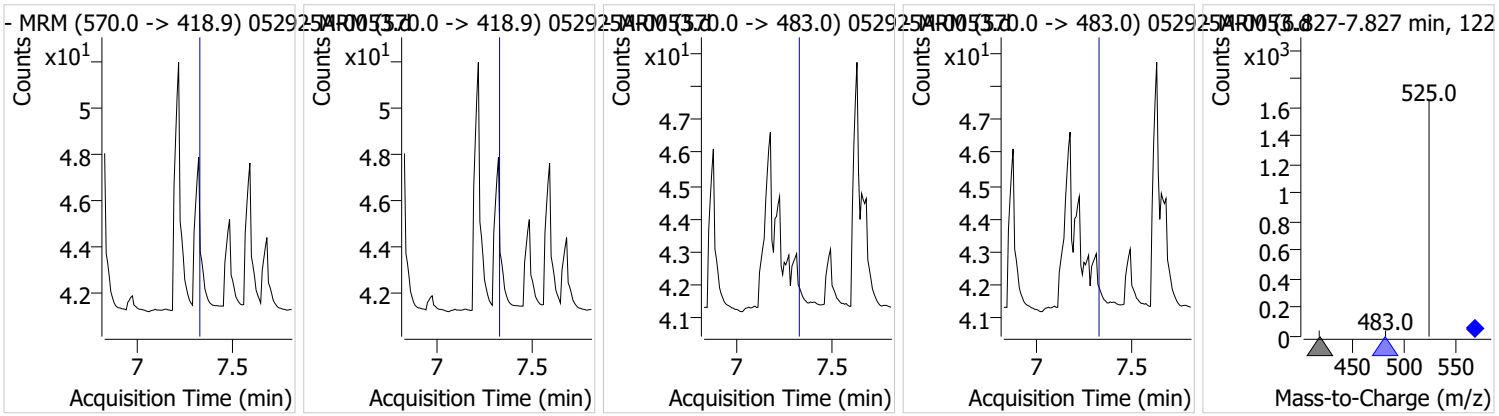
NEtFOSAA



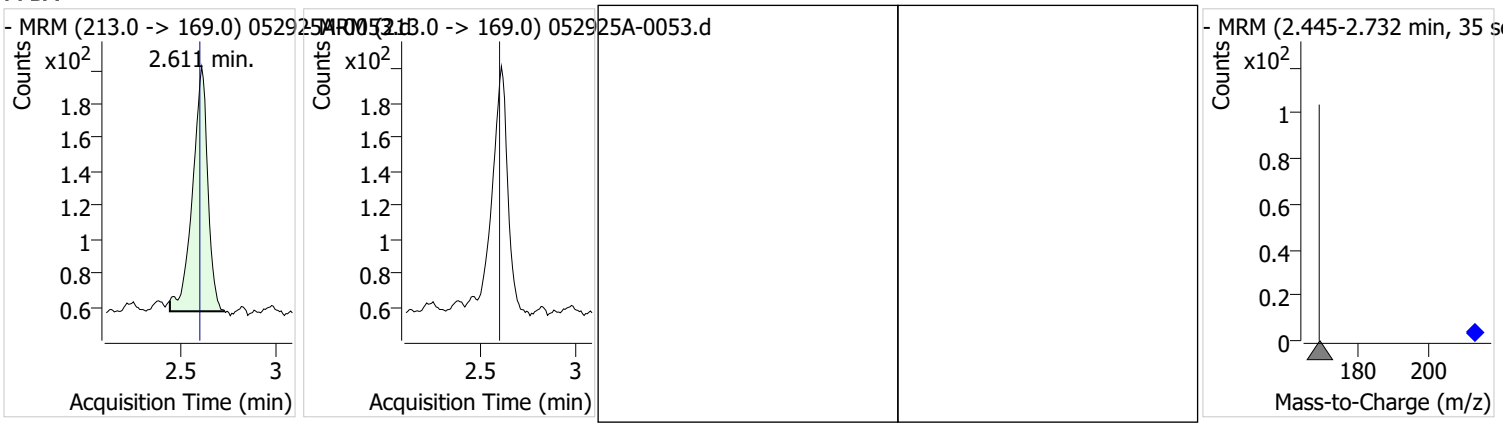
13C4-PFHpA



NMeFOSAA



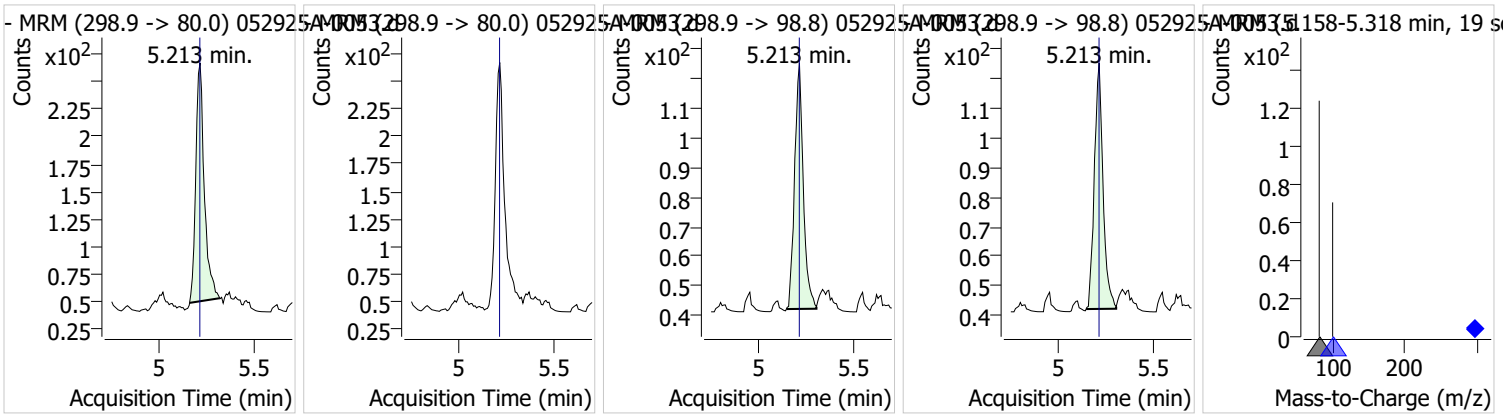
PFBA



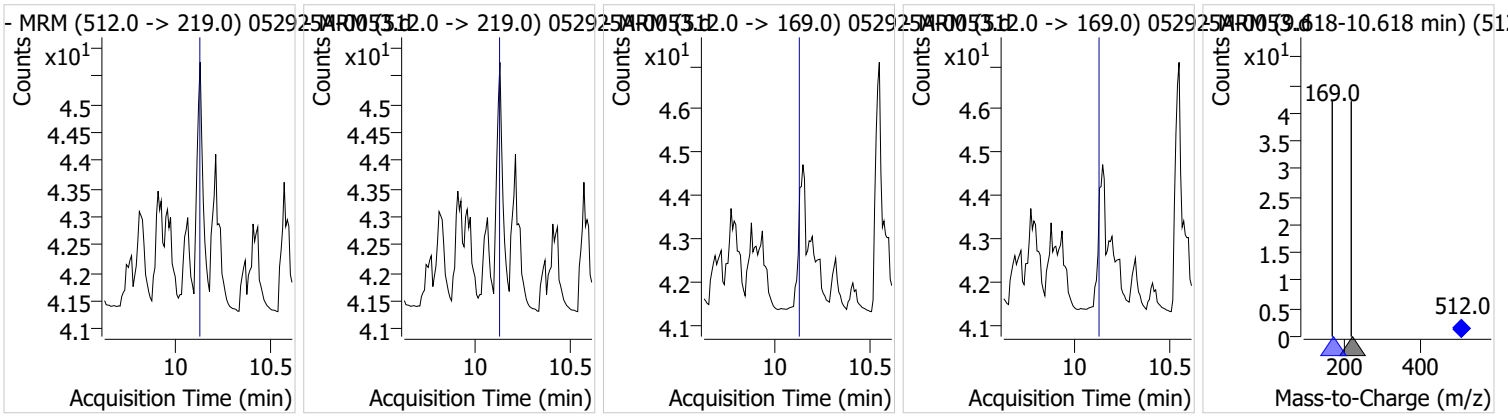
13C5-PFHxA



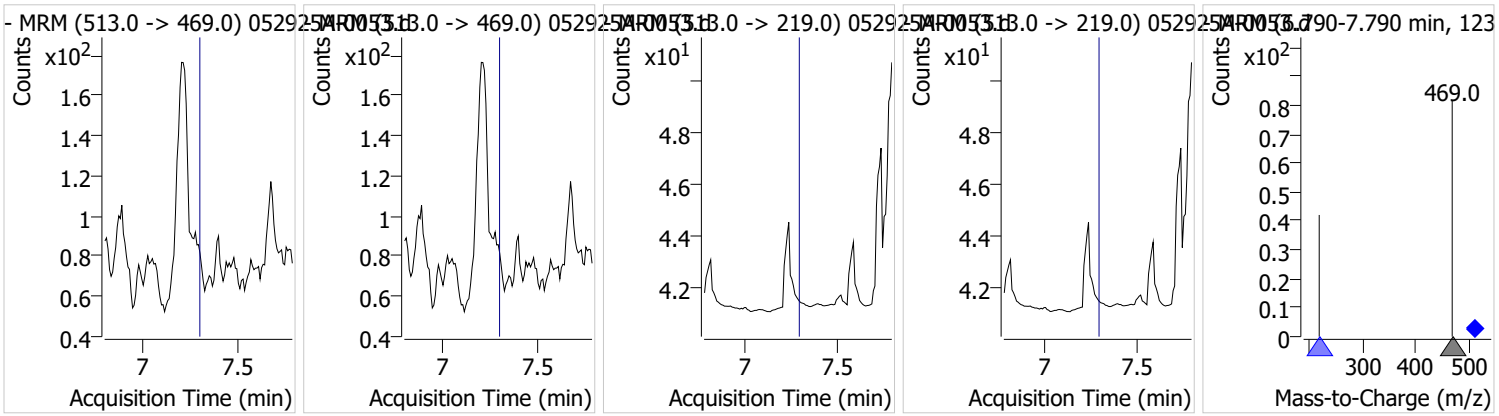
PFBS



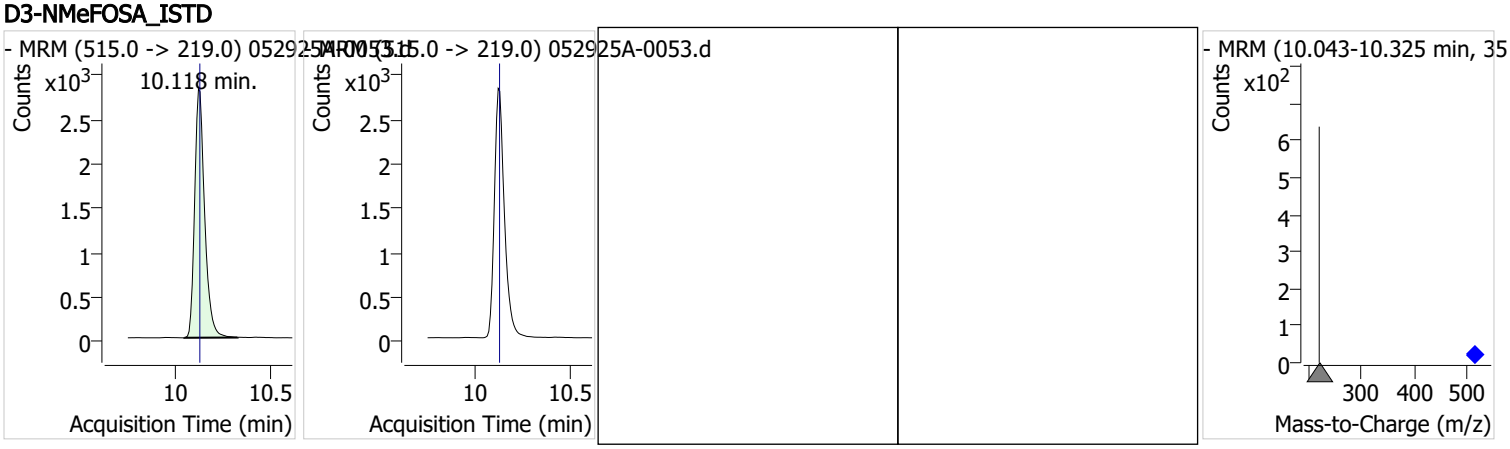
NMeFOSA



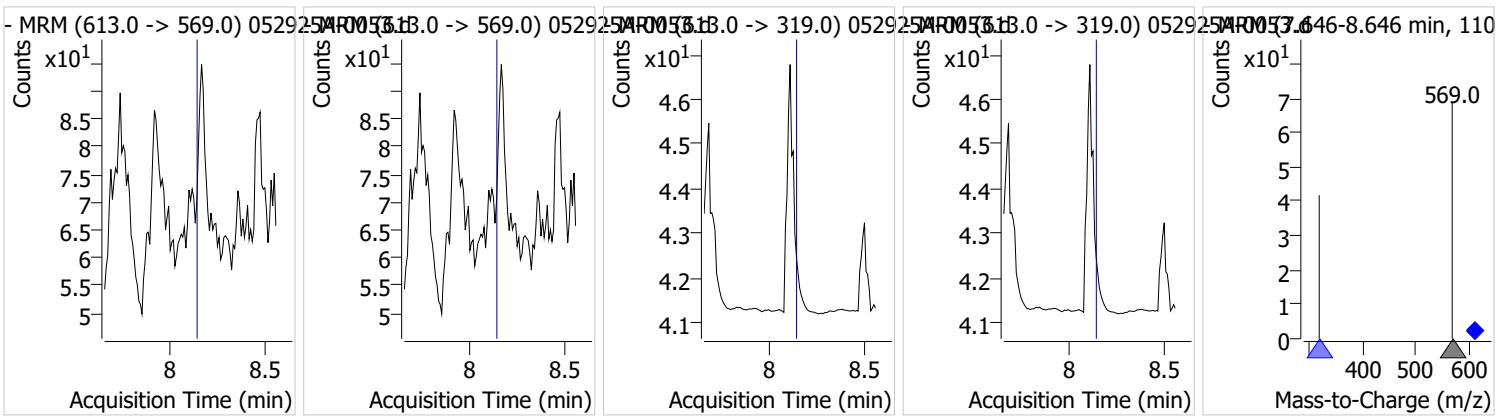
PFDA



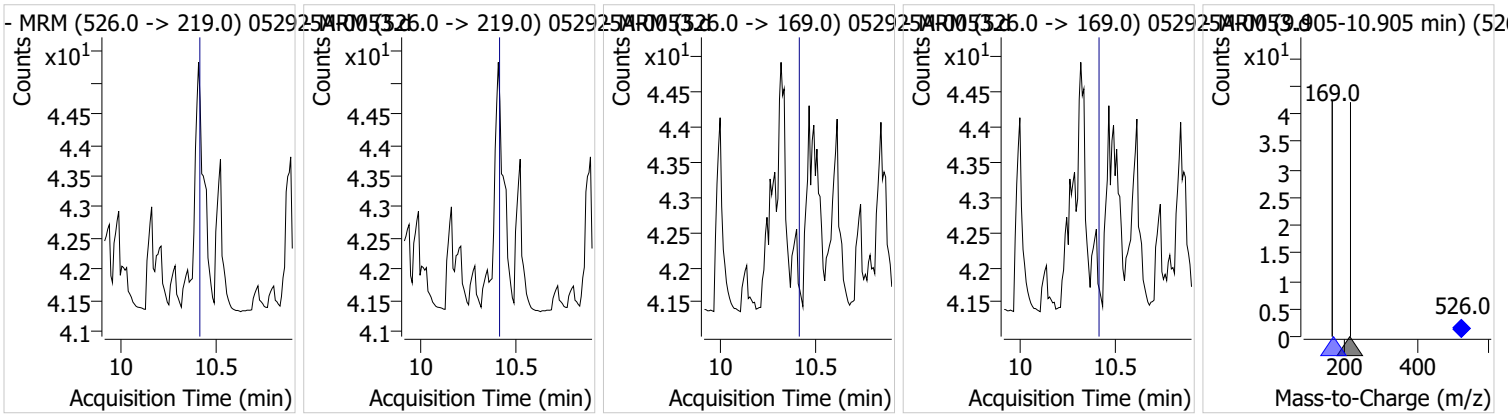
D3-NMeFOSA_ISTD



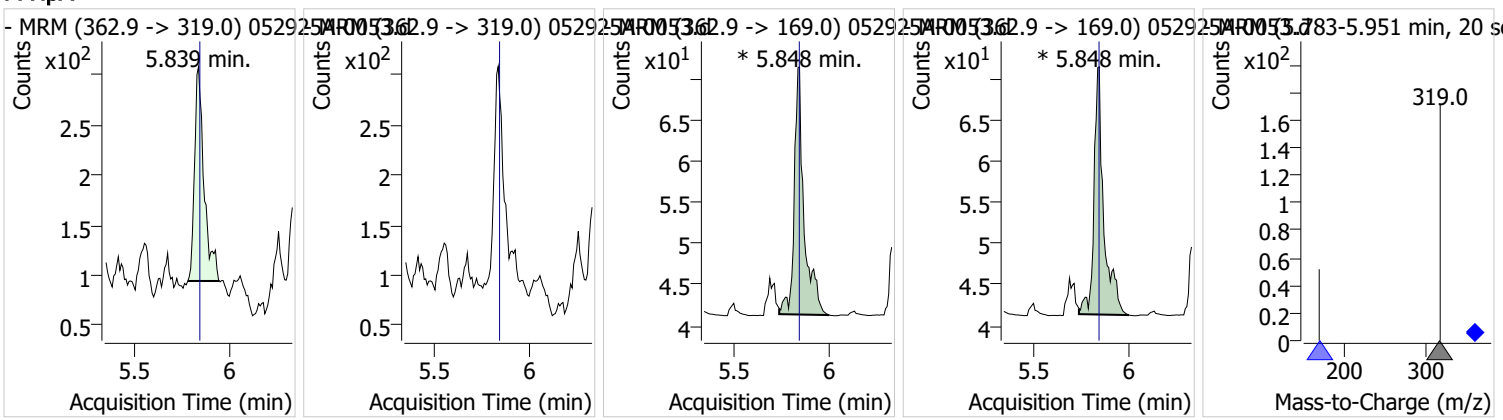
PFDoA



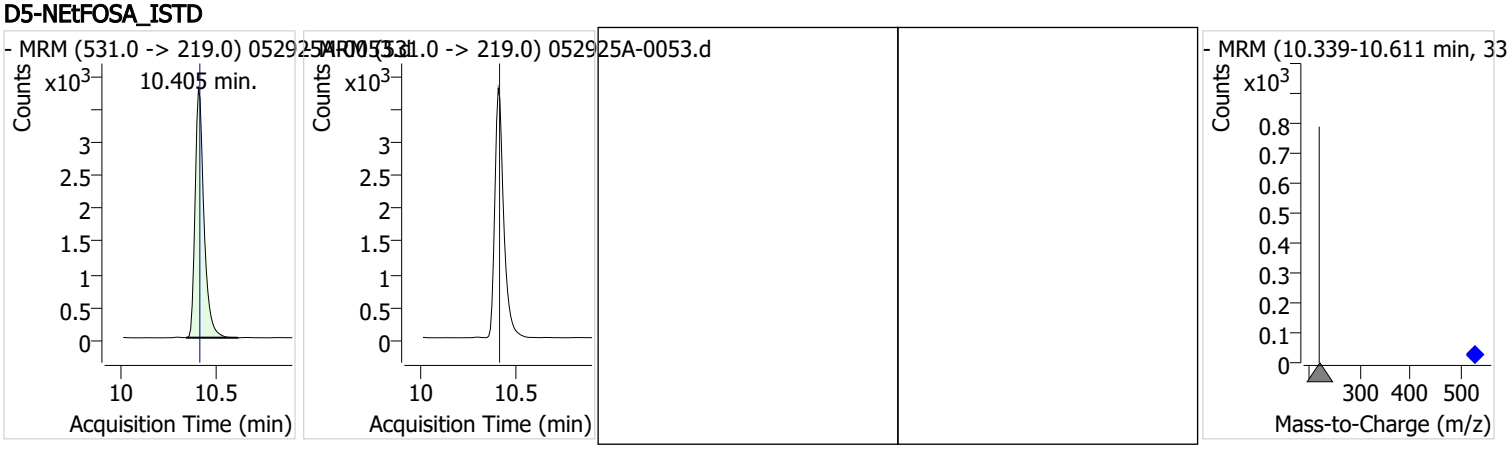
NEtFOSA



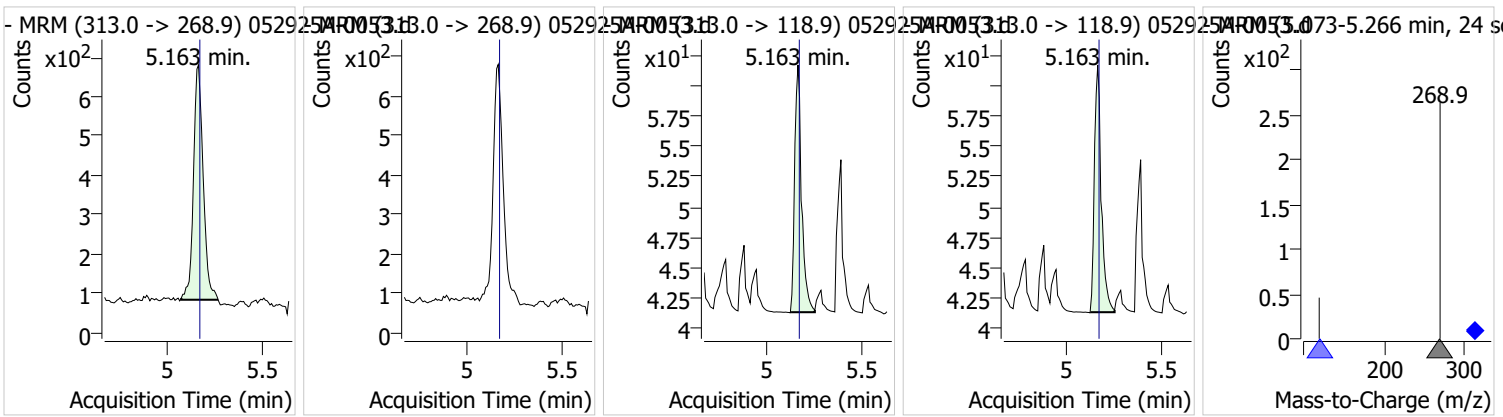
PFHpA



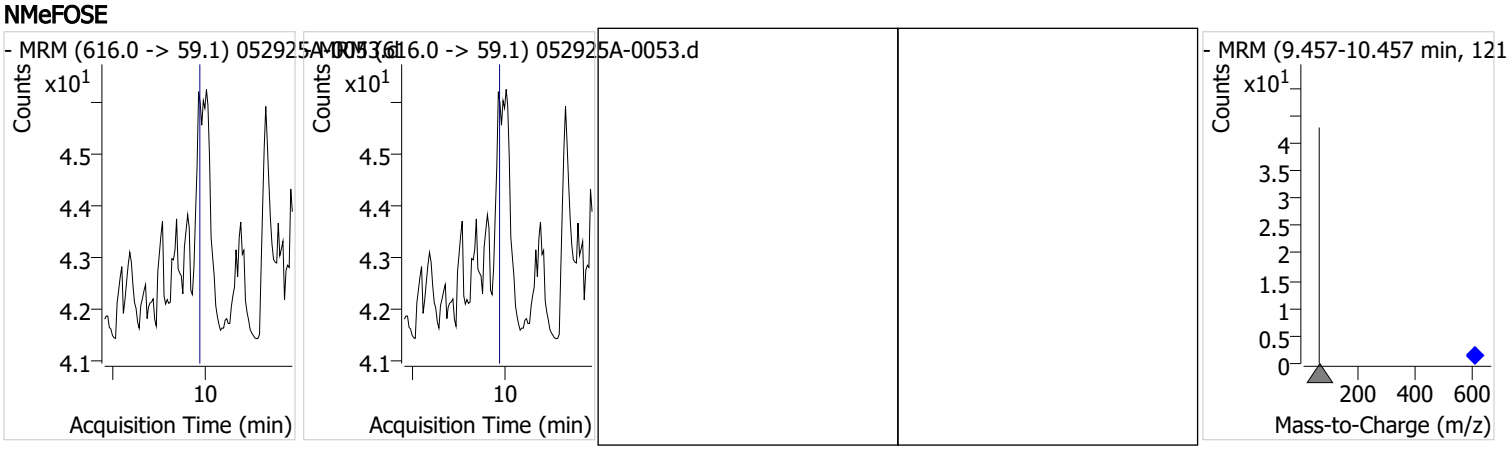
D5-NEtFOSA_ISTD



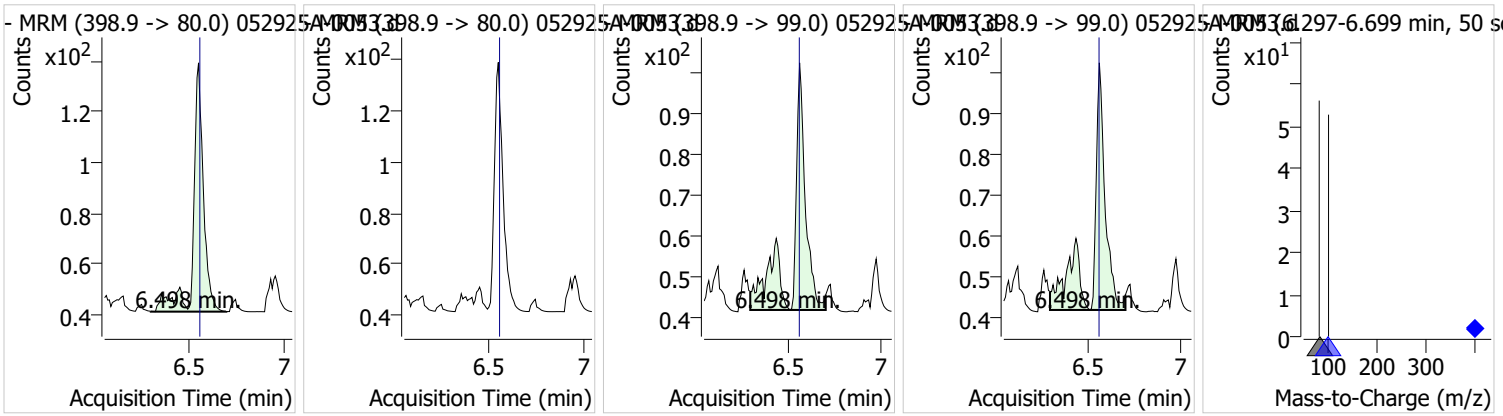
PFHxA



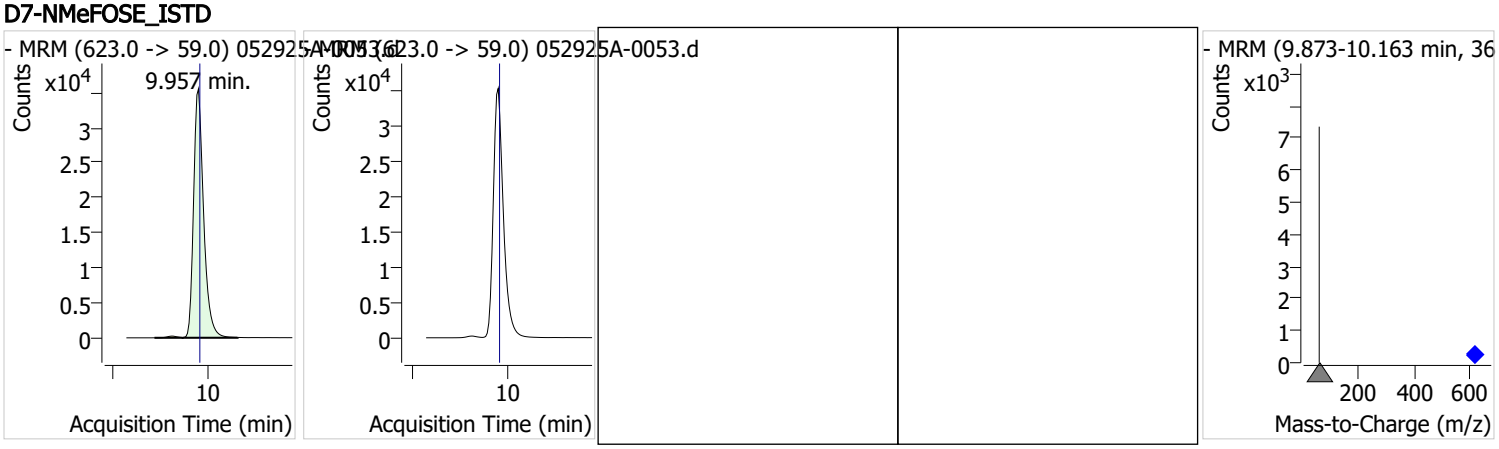
NMeFOSE



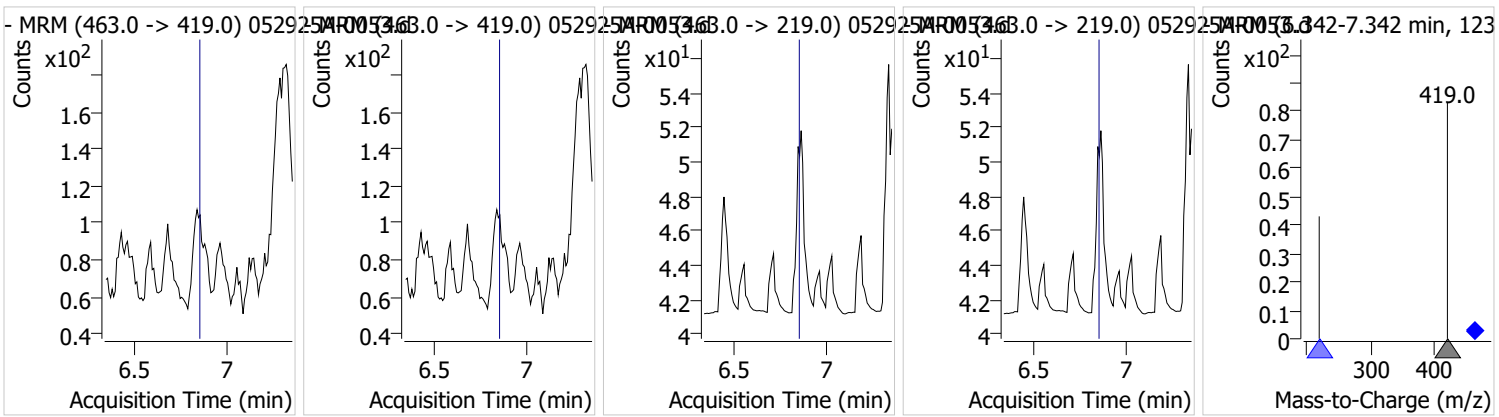
PFHxS



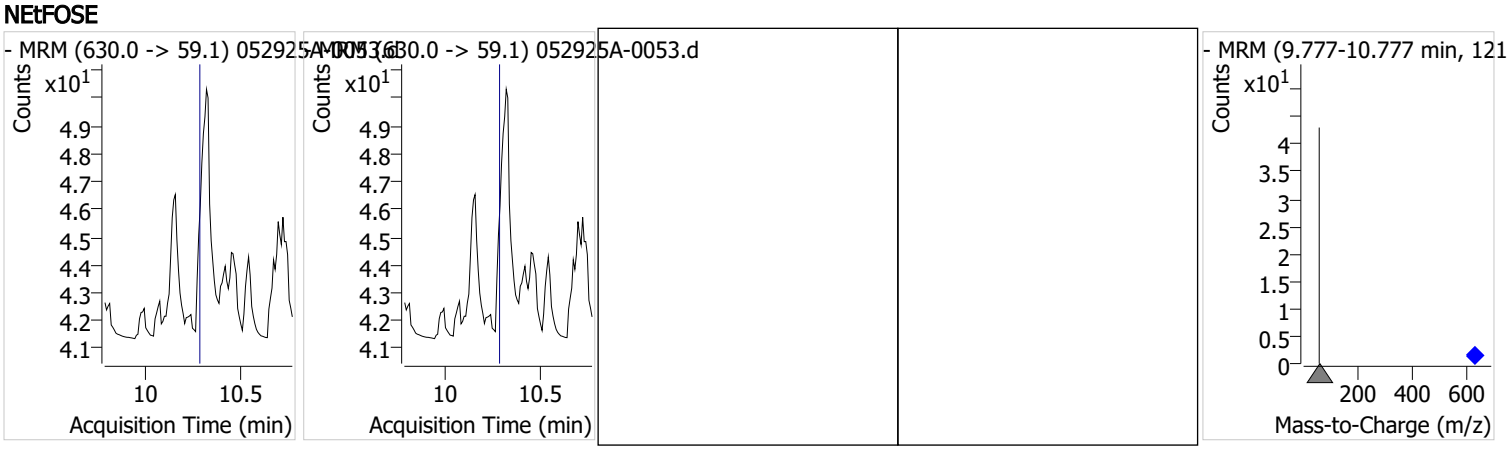
D7-NMeFOSE_ISTD



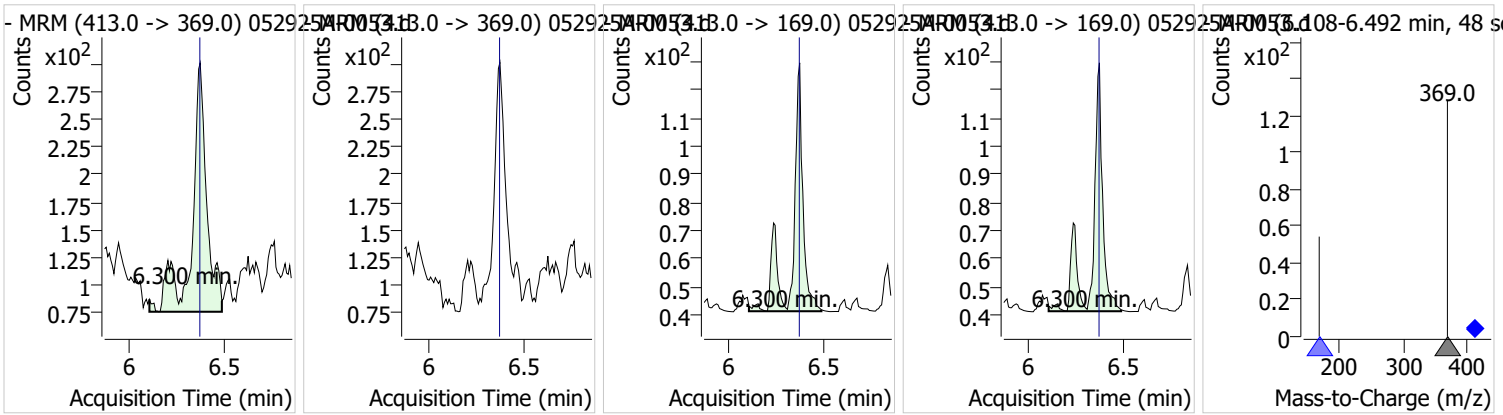
PFNA



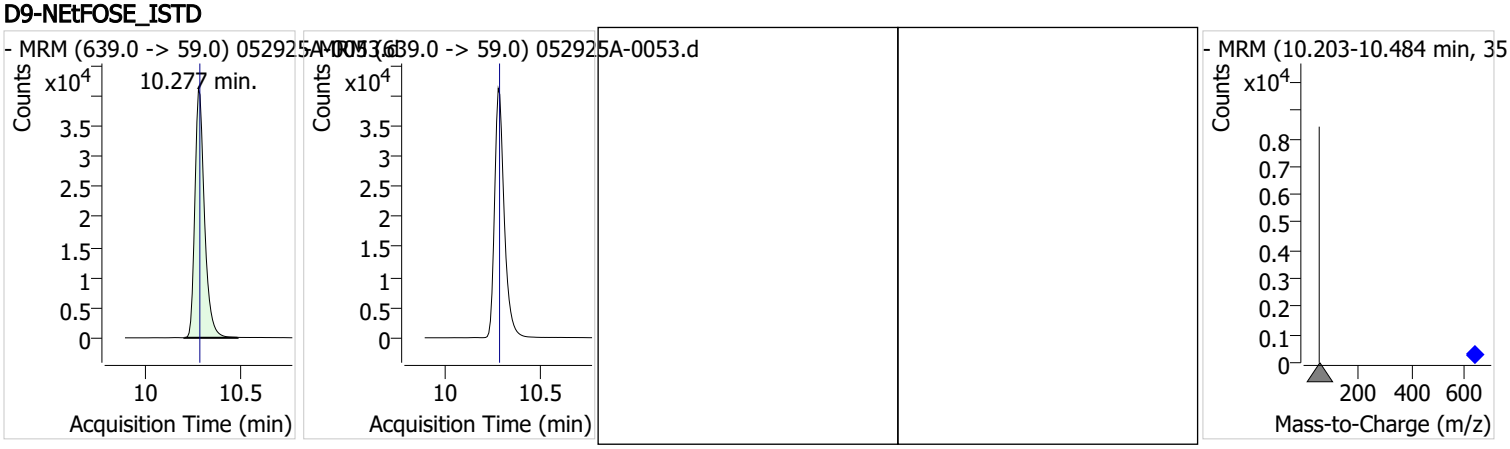
NEtFOSE



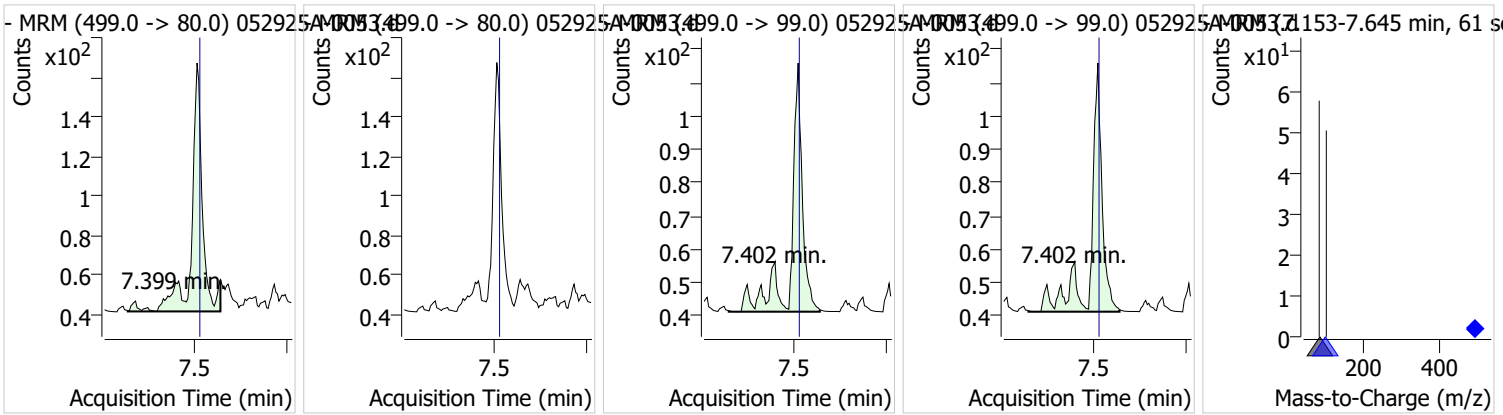
PFOA



D9-NEtFOSE_ISTD



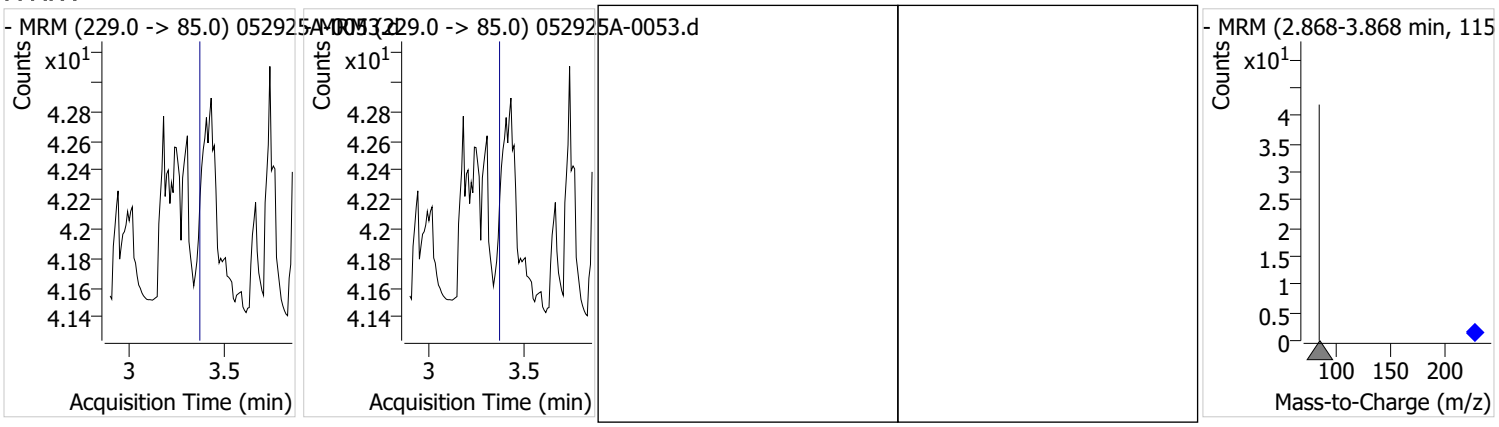
PFOS



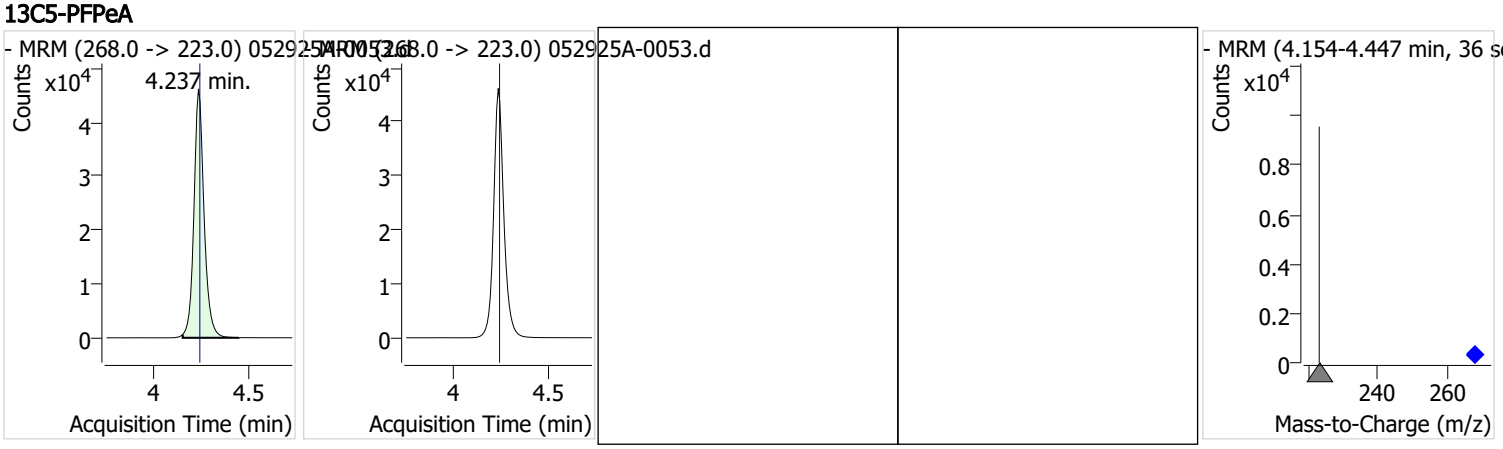
PFPeA



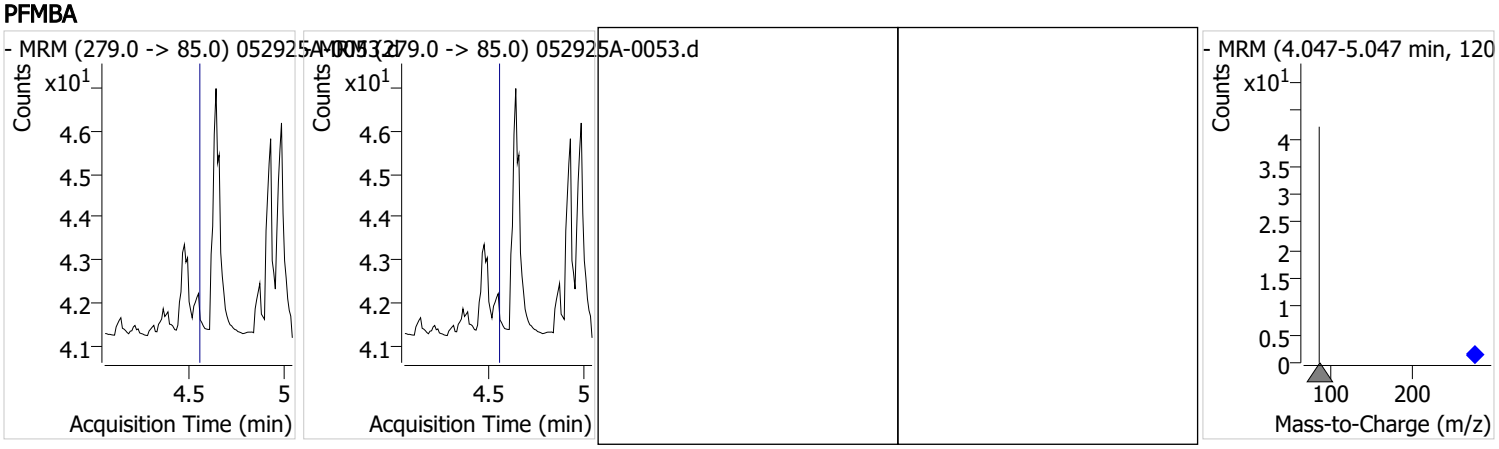
PFMPA



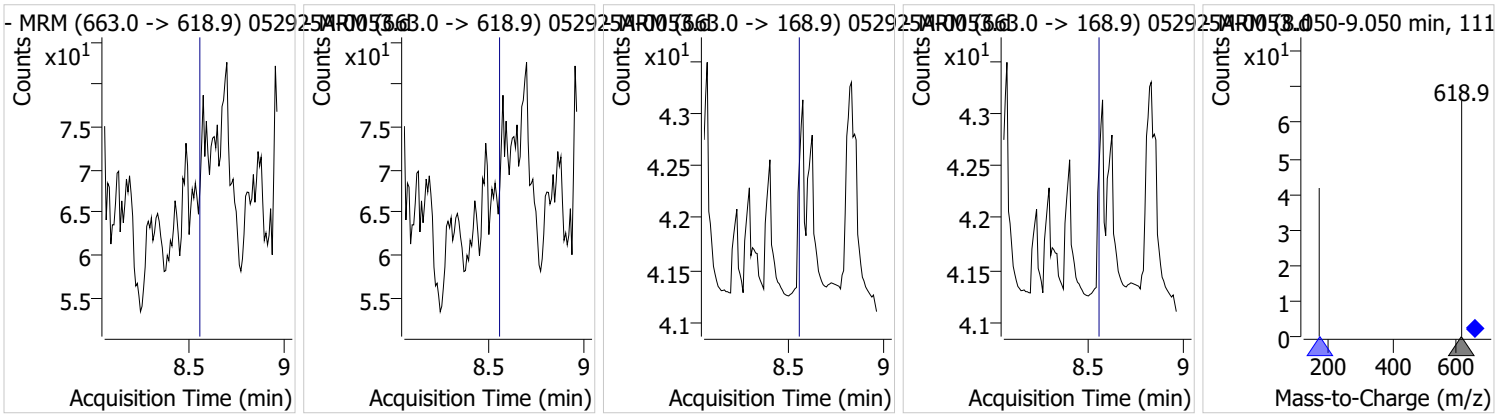
13C5-PFPeA



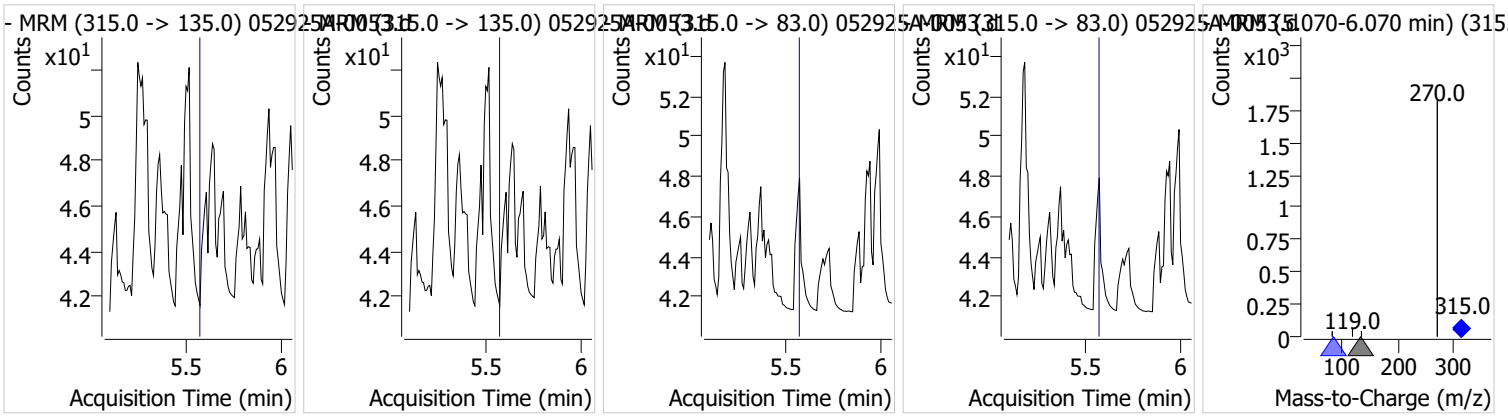
PFMBA



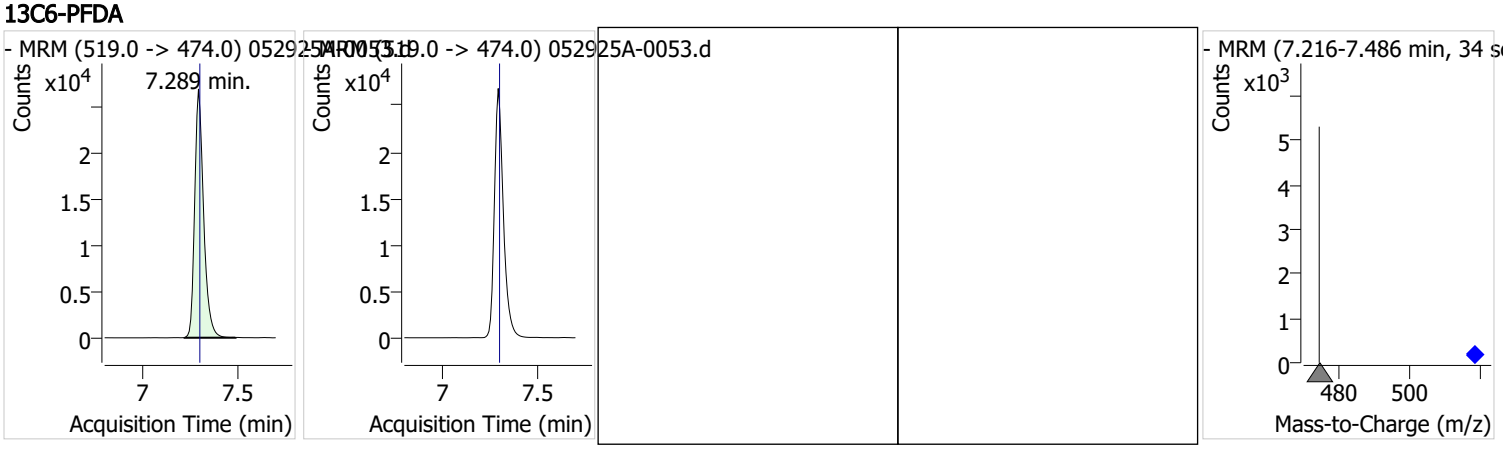
PFTrDA



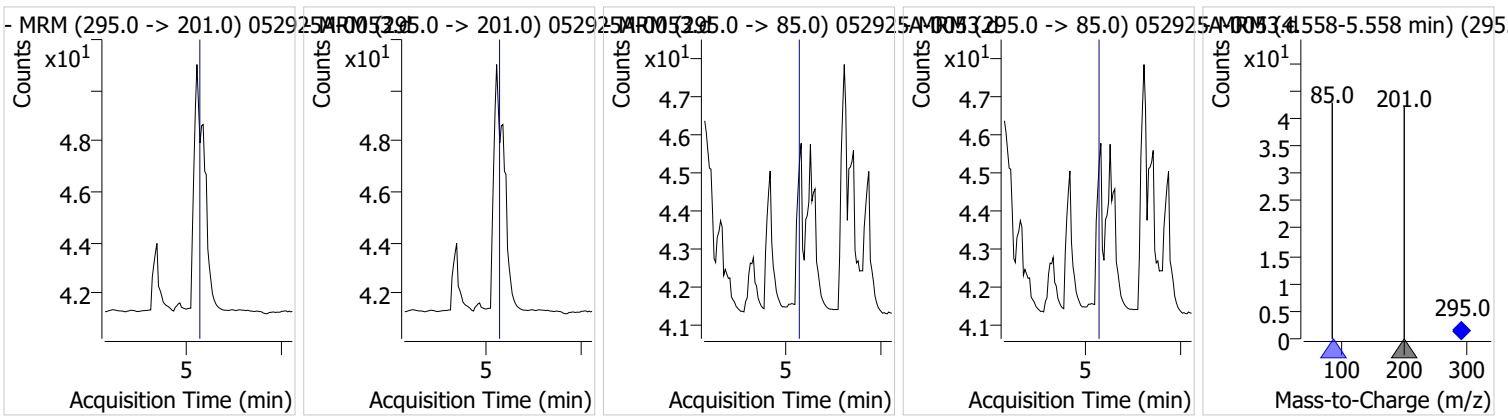
PFEESA



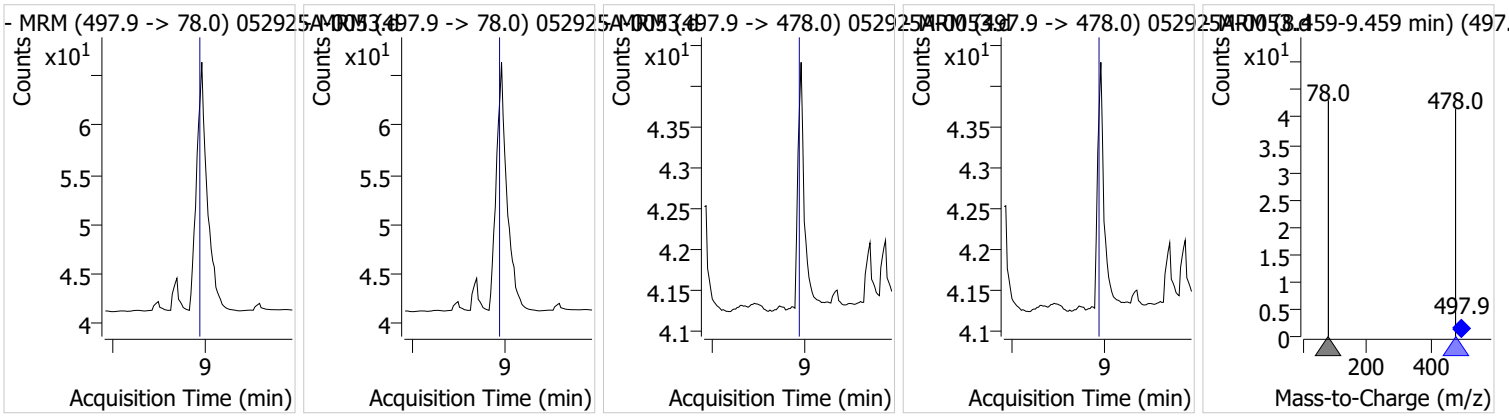
13C6-PFDA



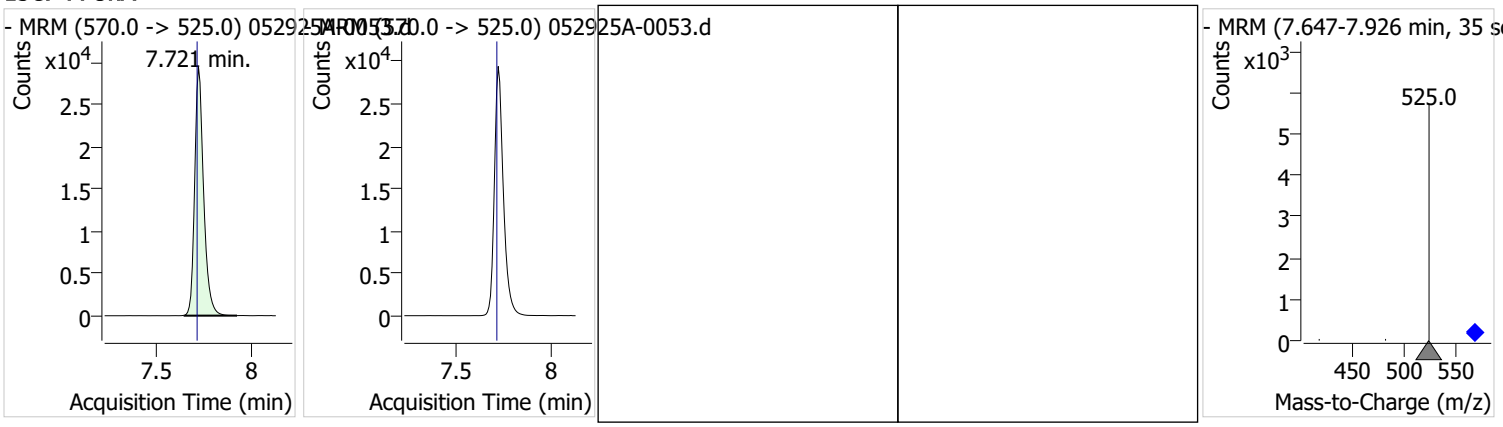
NFDHA



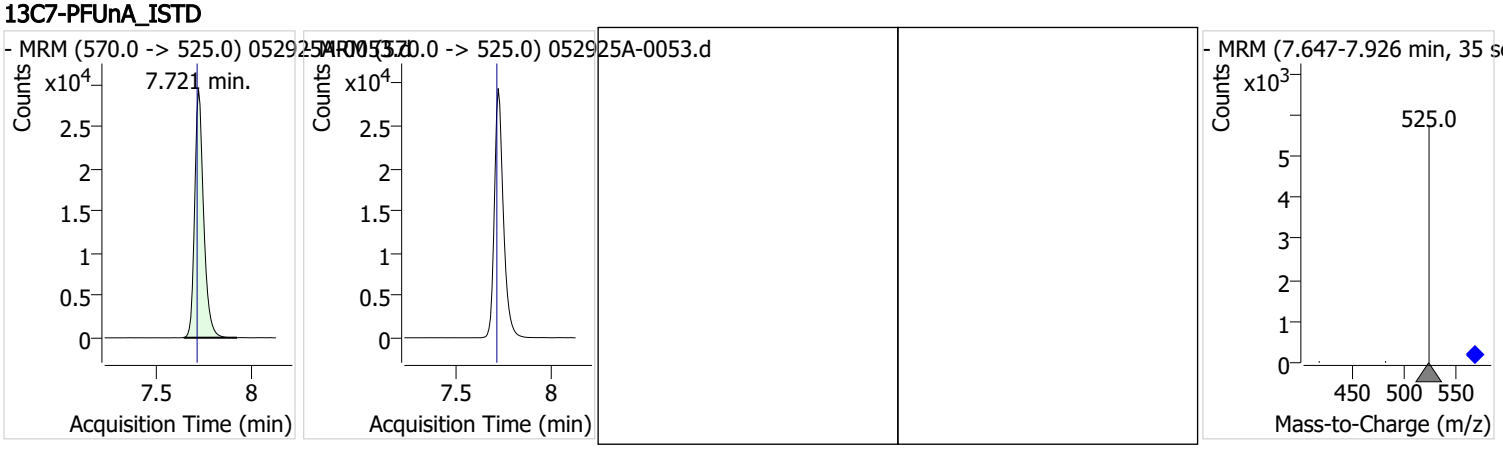
PFOSA



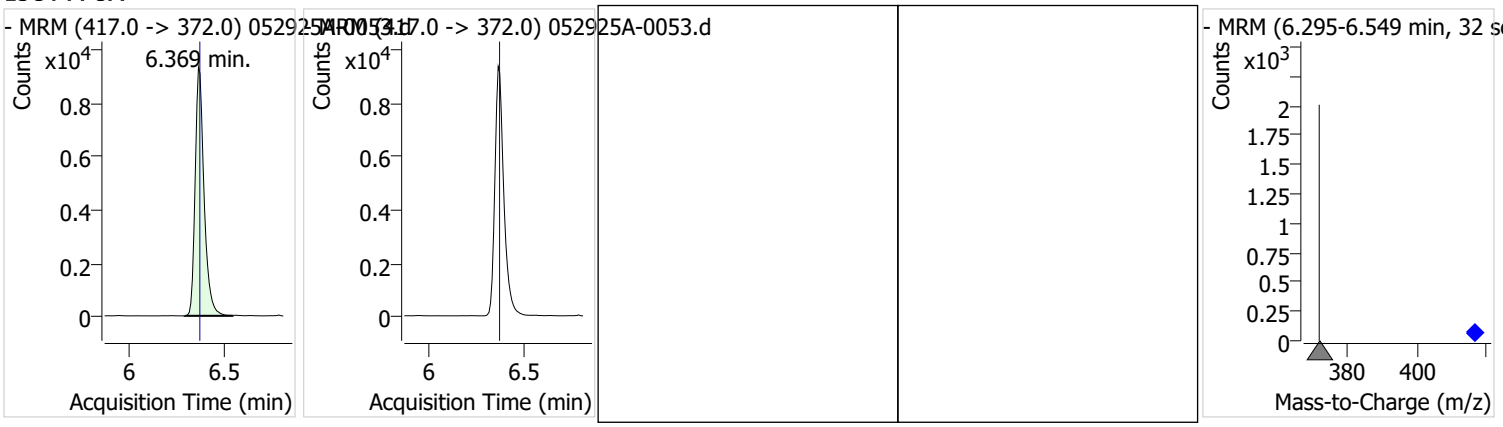
13C7-PFUnA



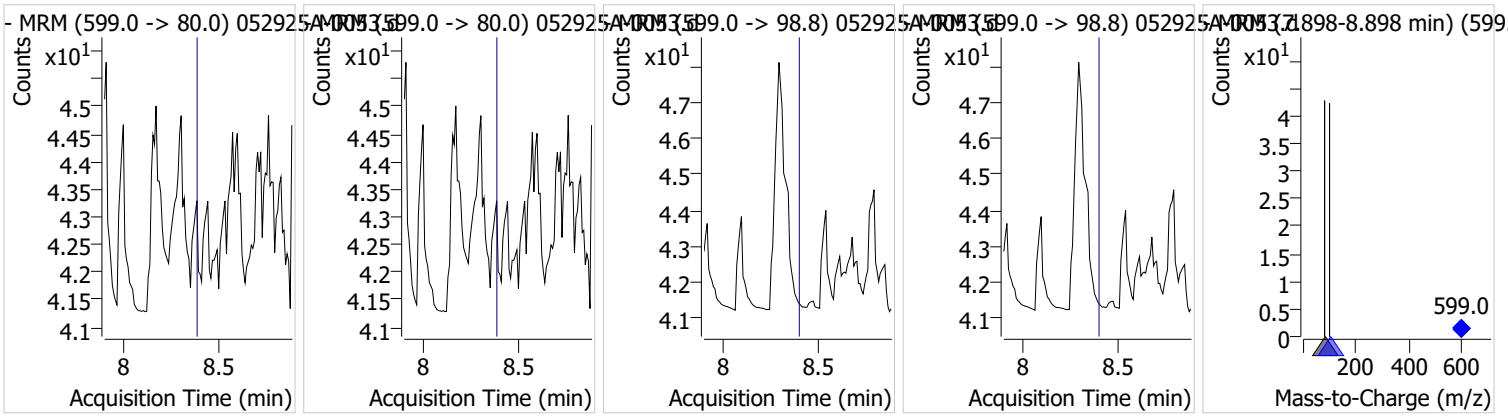
13C7-PFUnA_ISTD



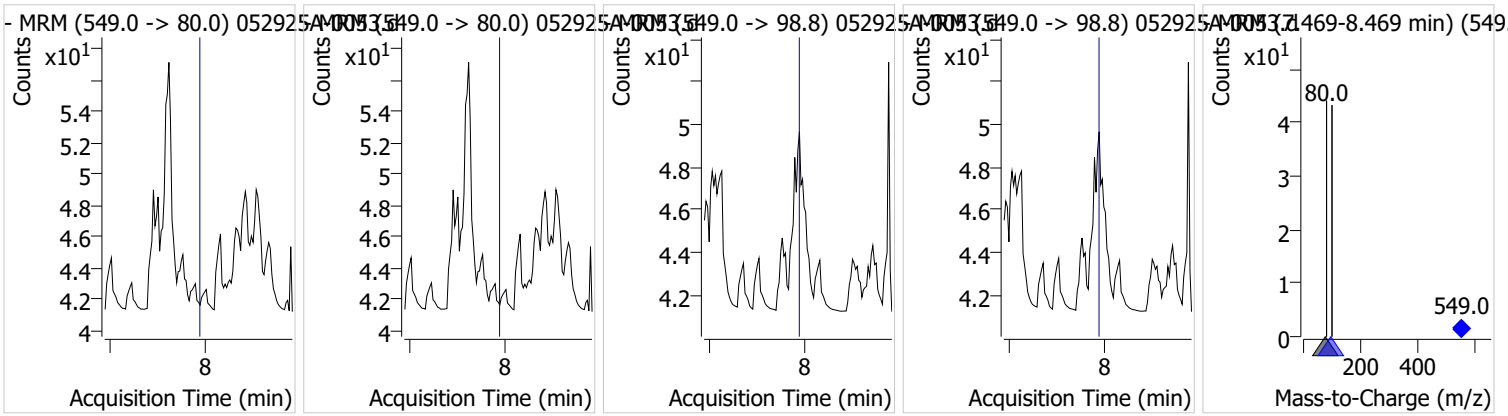
13C4-PFOA



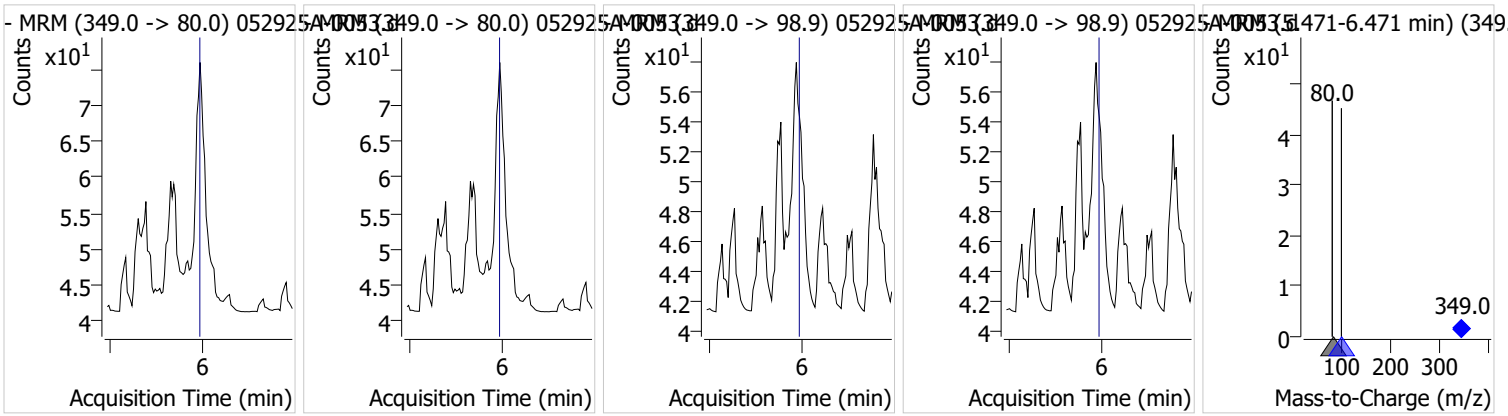
PFDS



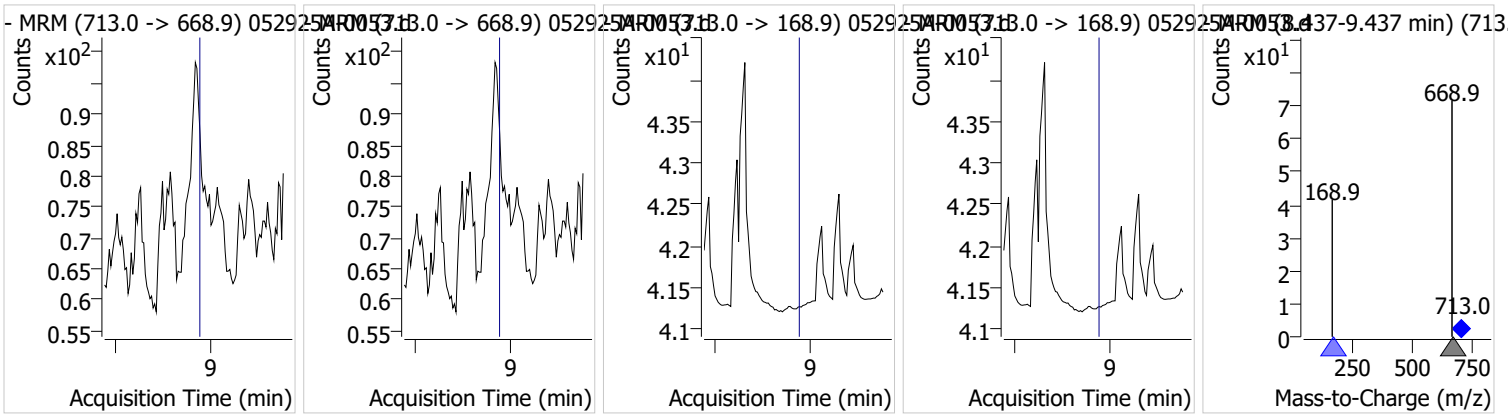
PFNS



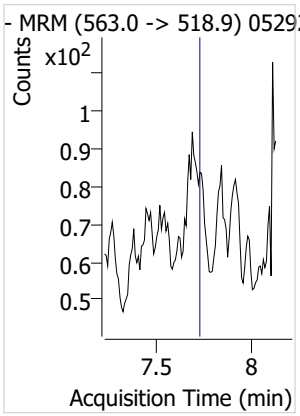
PFPeS

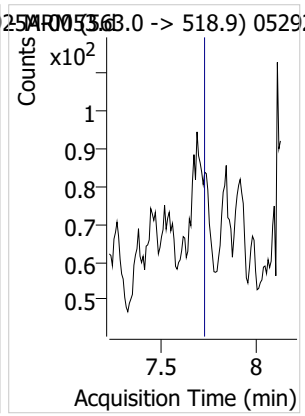


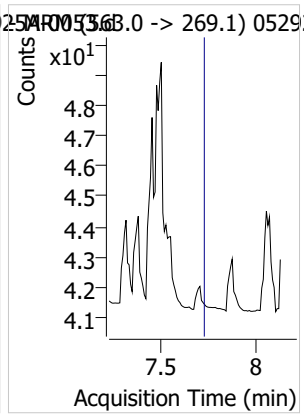
PFTeDA

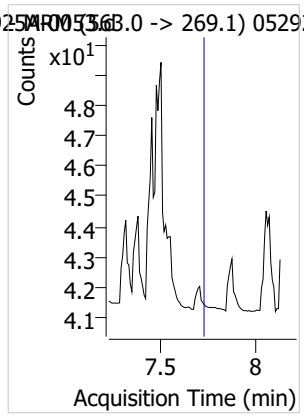


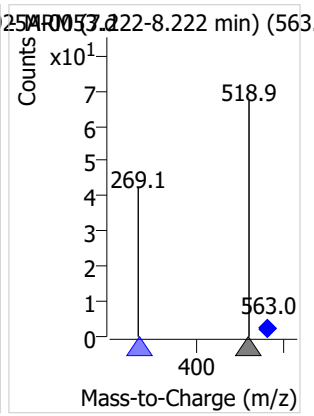
PFUnA



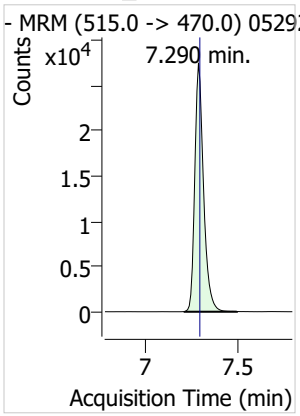


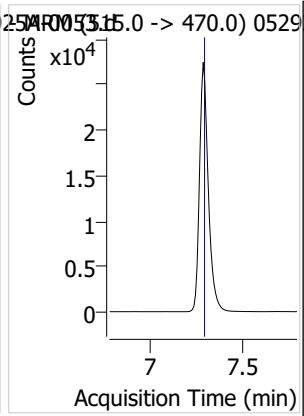


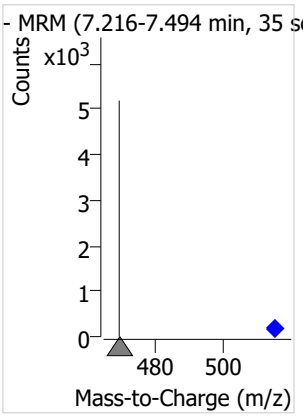




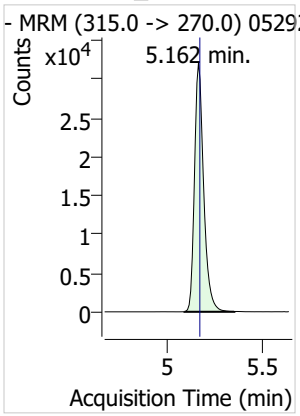
13C2-PFDA_ISTD

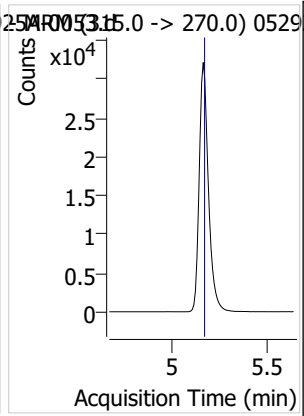


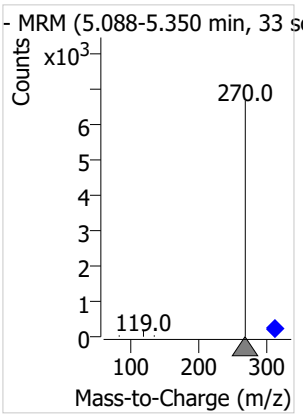




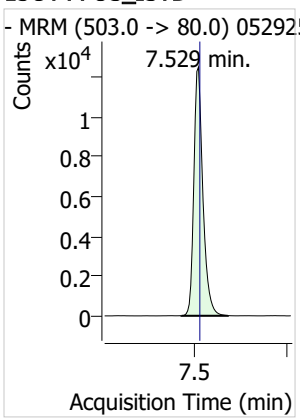
13C2-PFHxA_ISTD

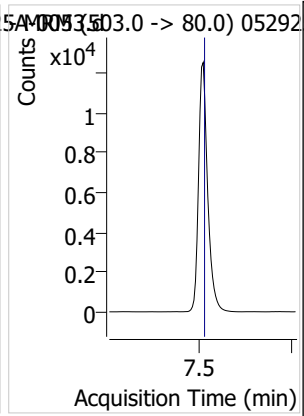


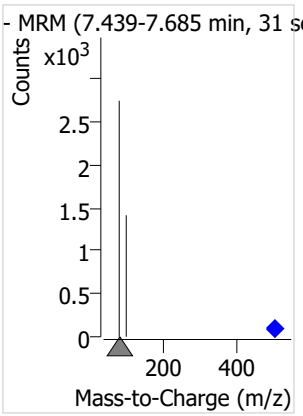




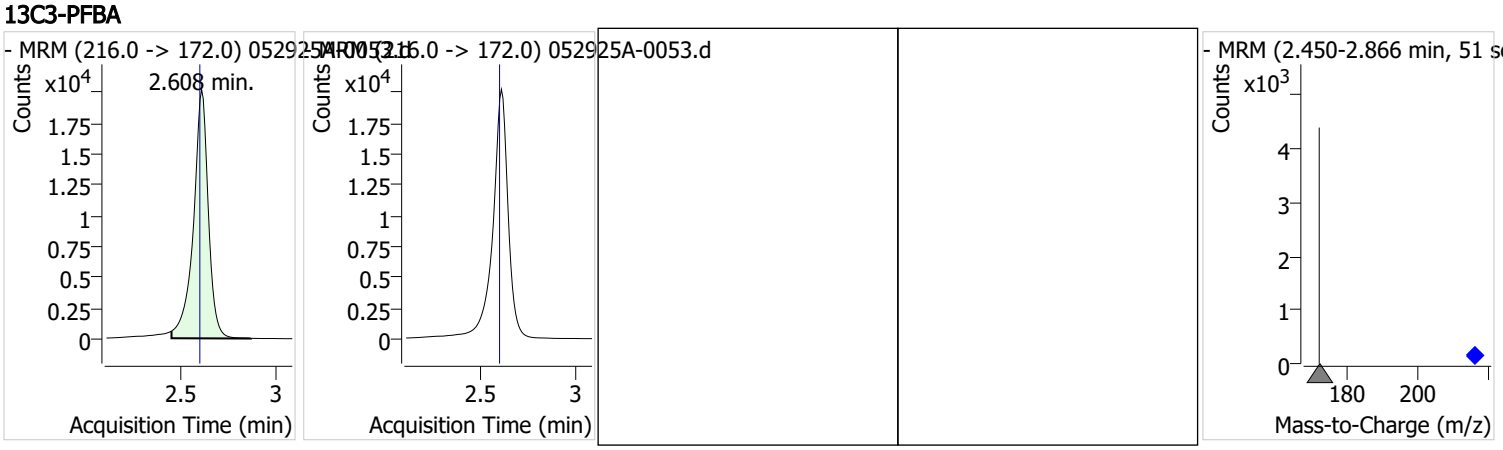
13C4-PFOS_ISTD



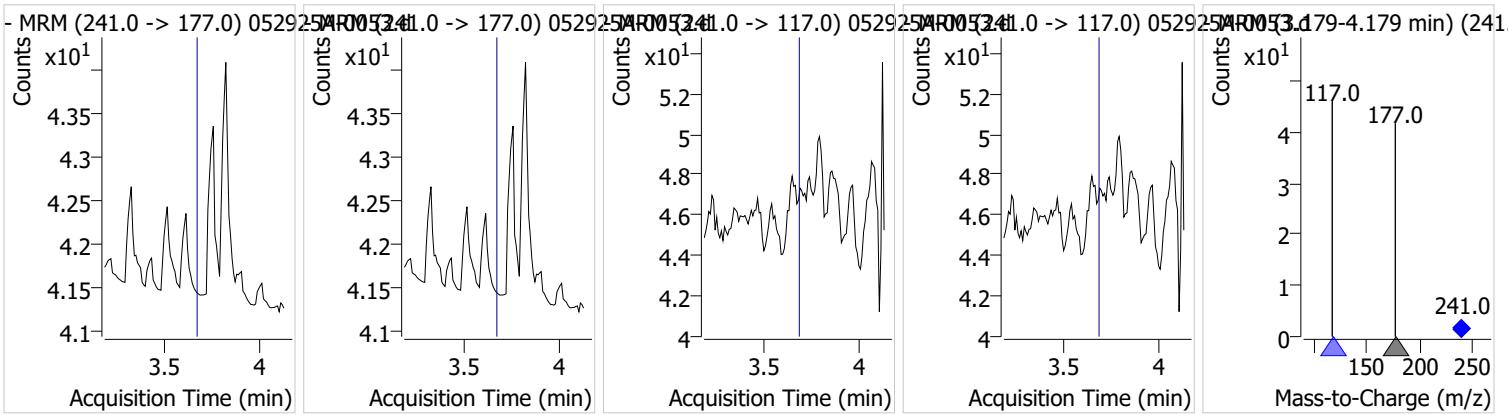




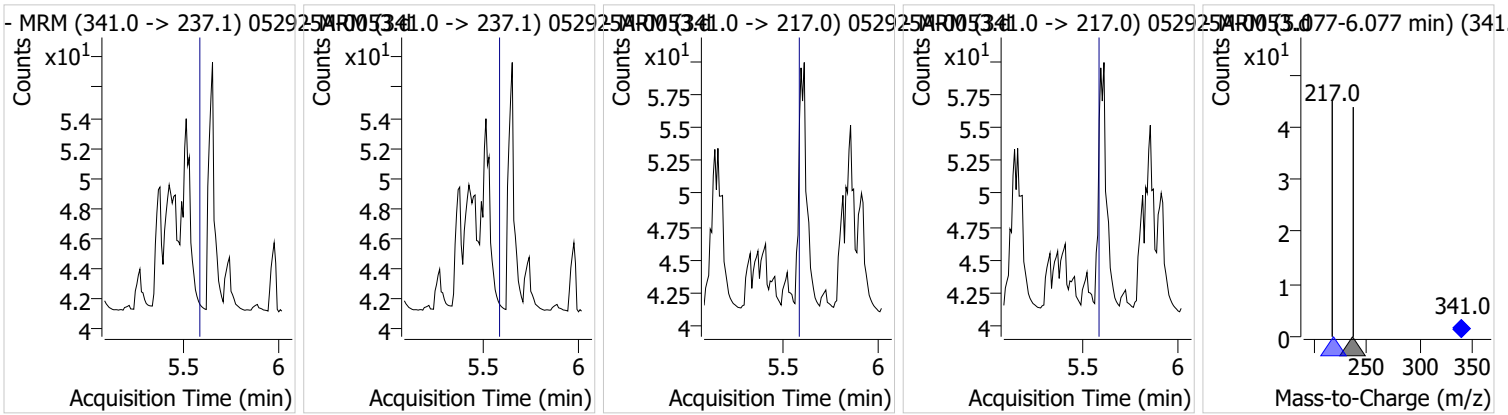
13C3-PFBA



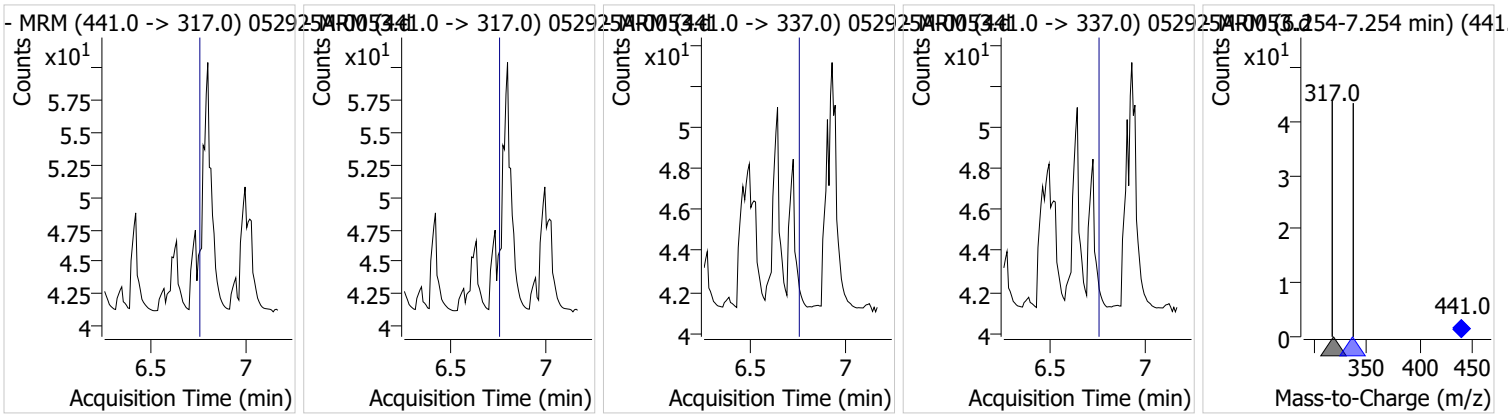
3:3FTCA



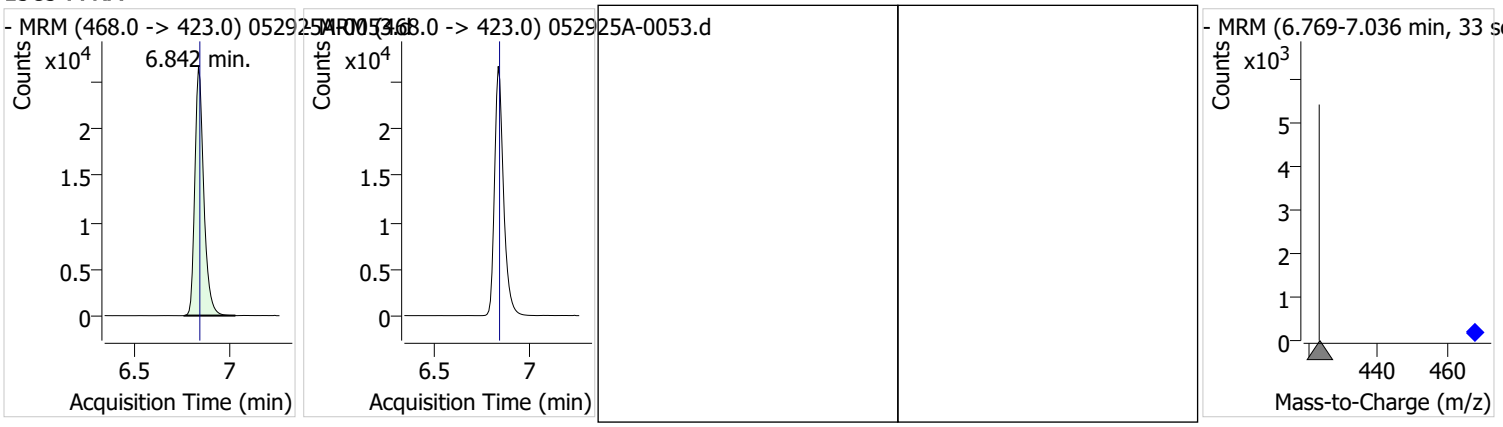
5:3FTCA



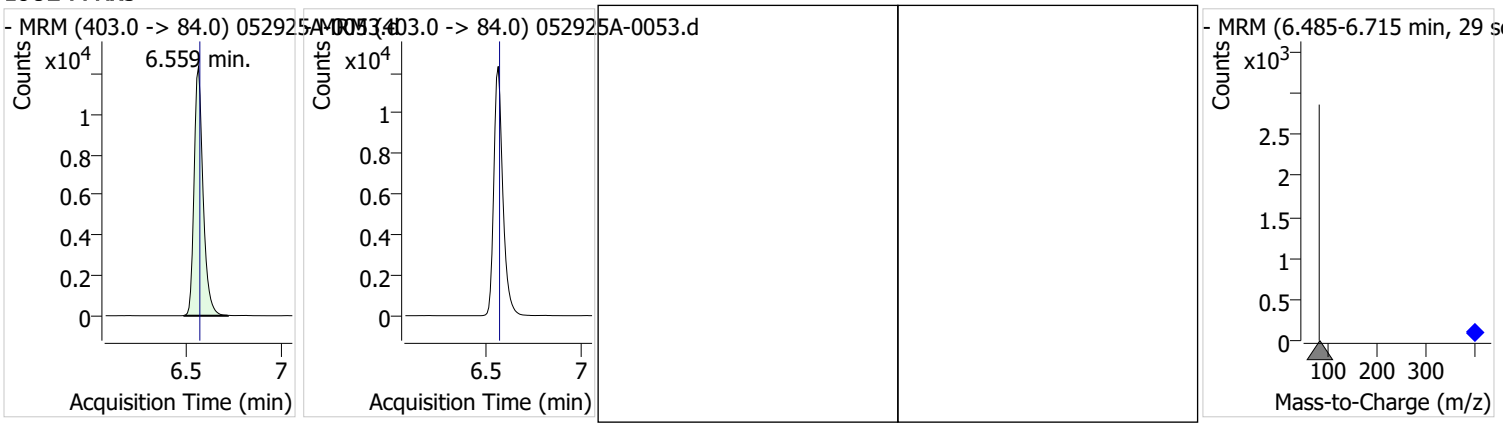
7:3FTCA



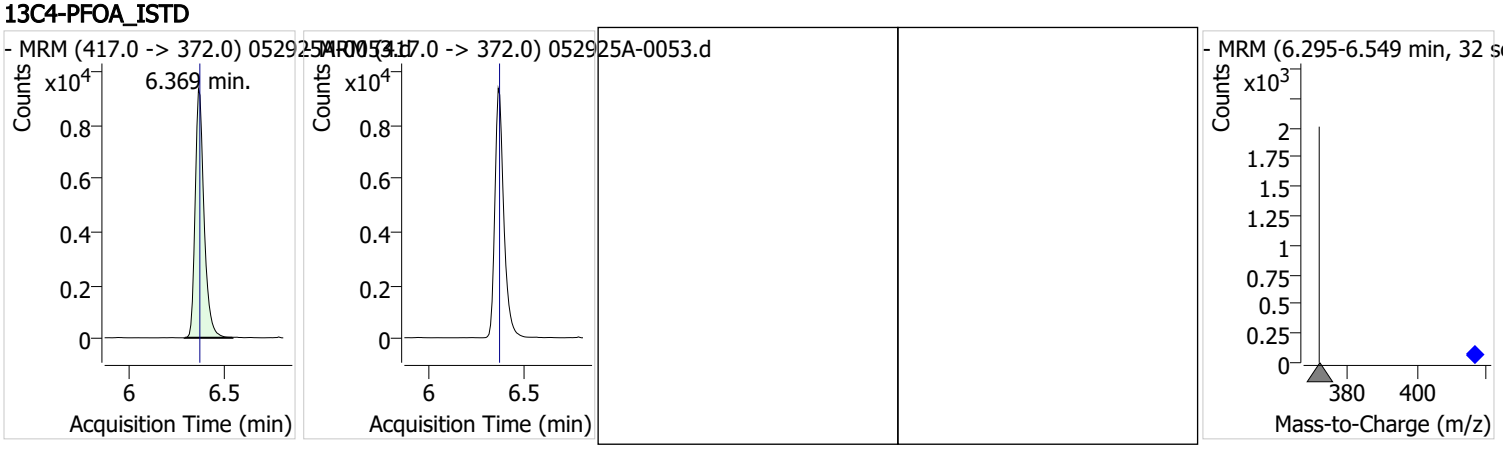
13C5-PFNA



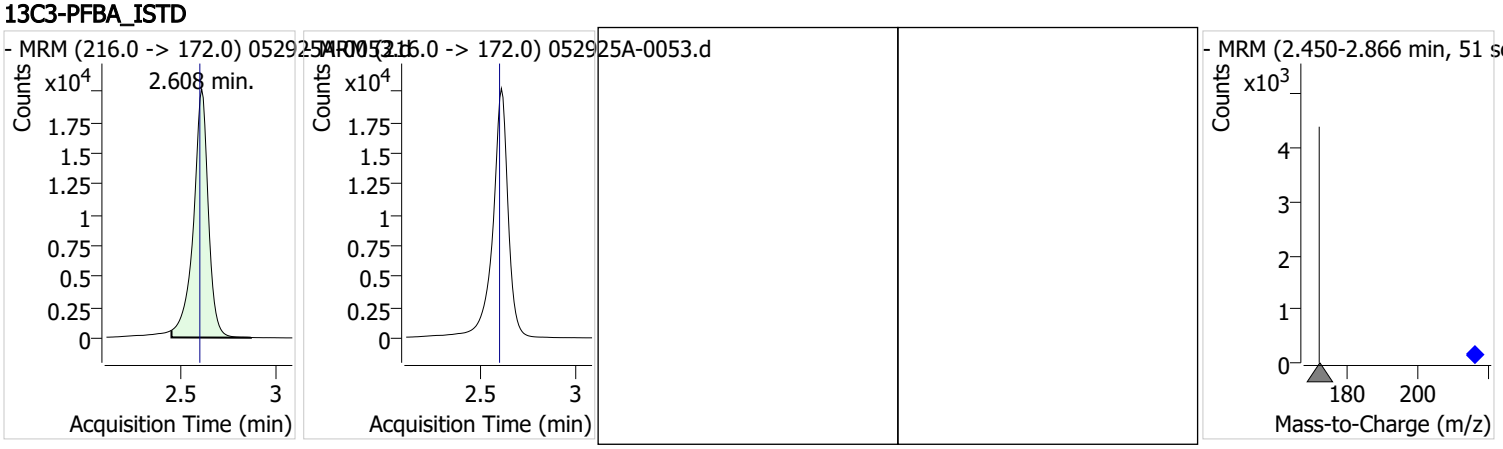
18O2-PFHxS



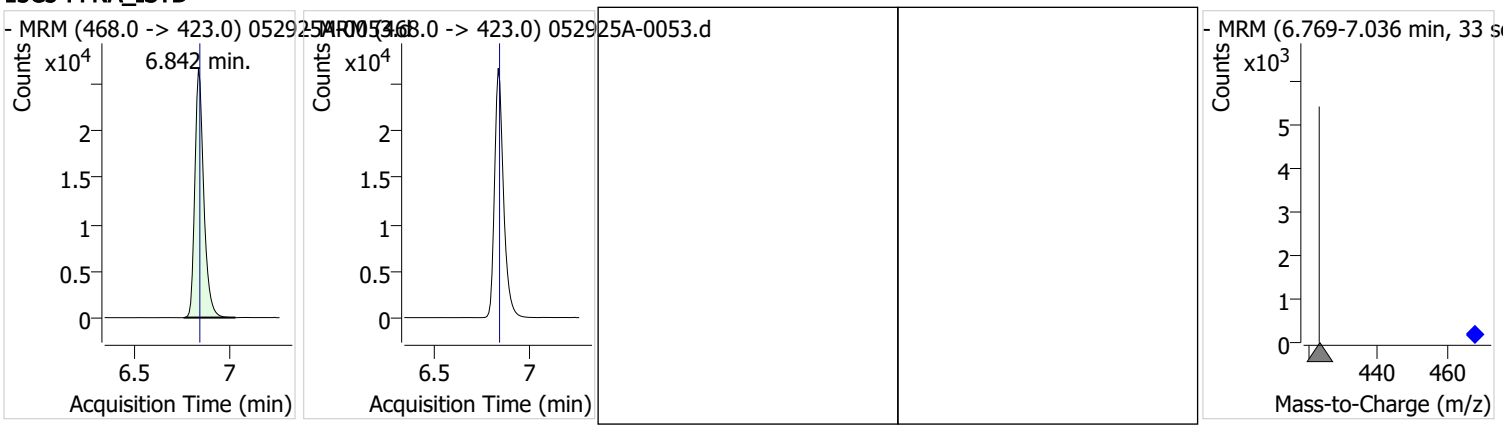
13C4-PFOA_ISTD



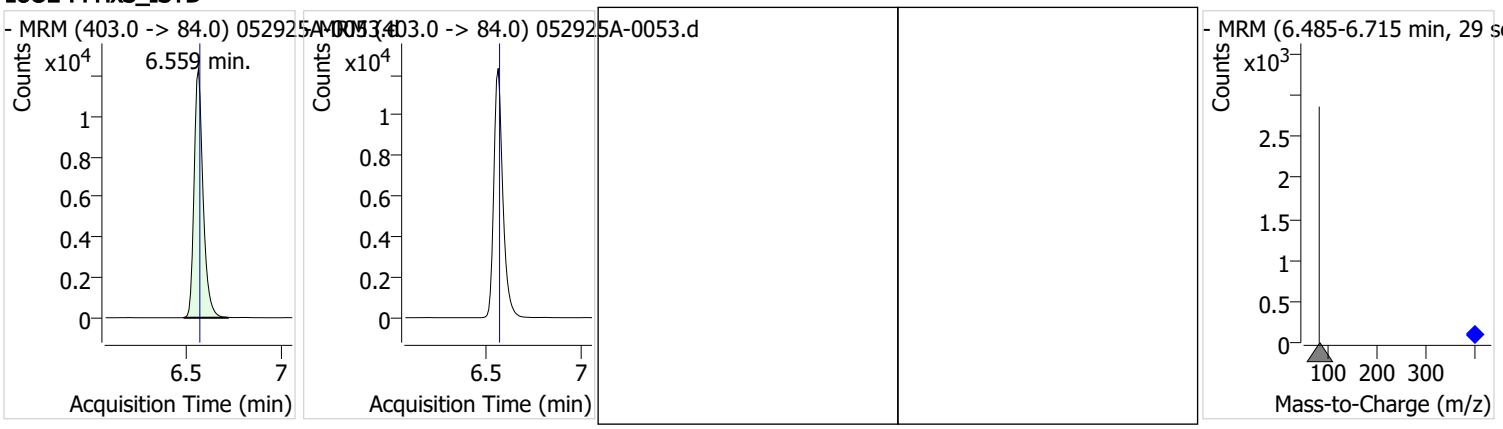
13C3-PFBA_ISTD



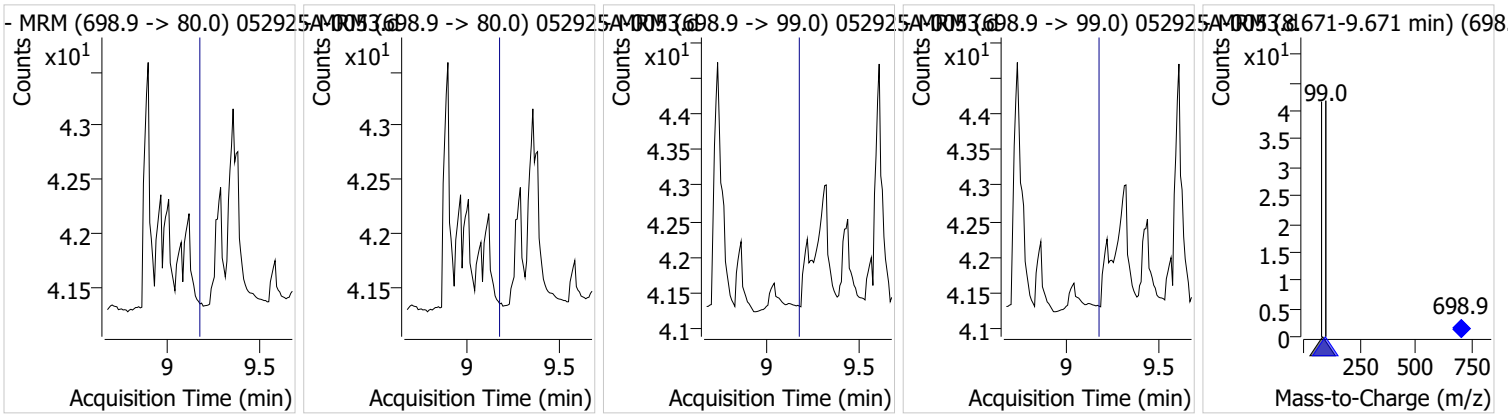
13C5-PFNA_ISTD



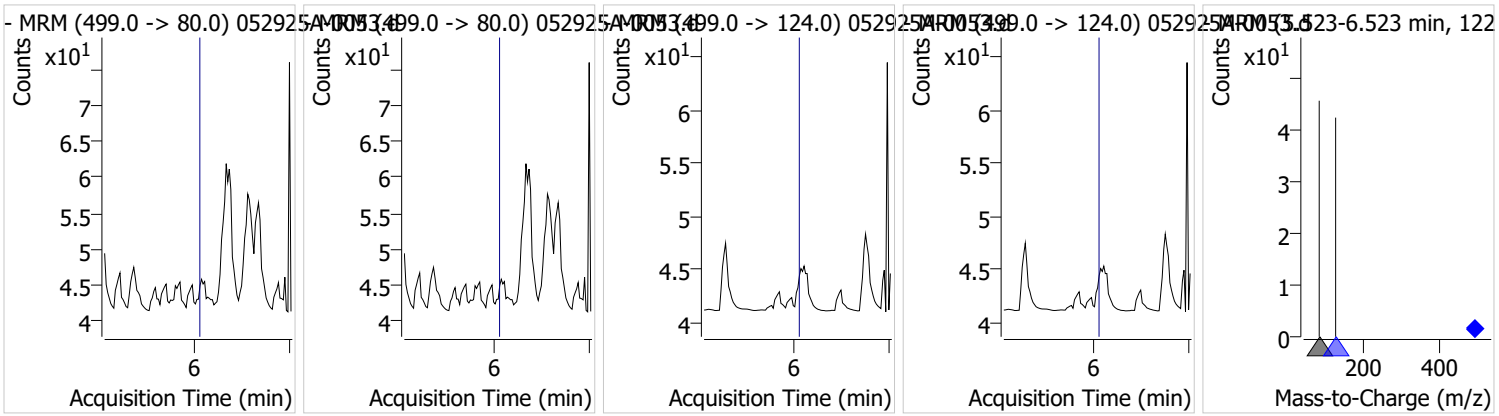
18O2-PFHxS_ISTD



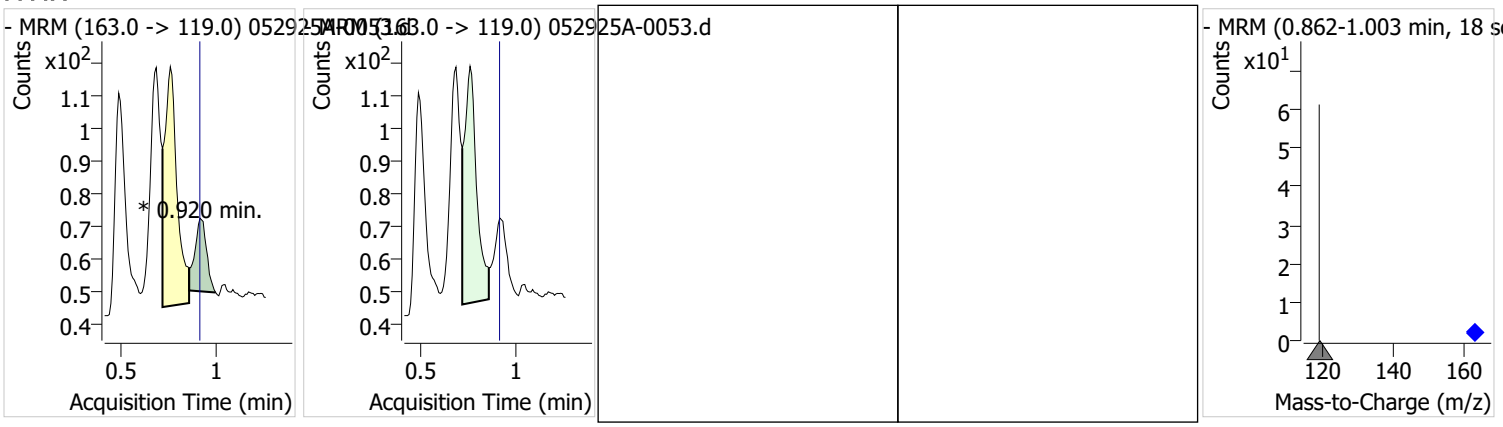
PFDoS



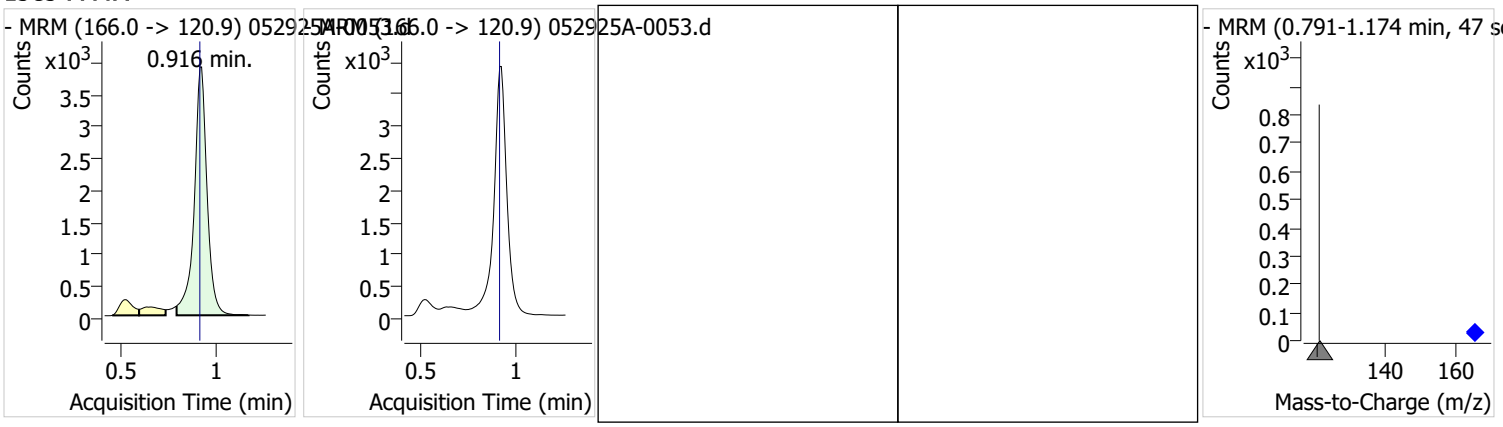
TDCA



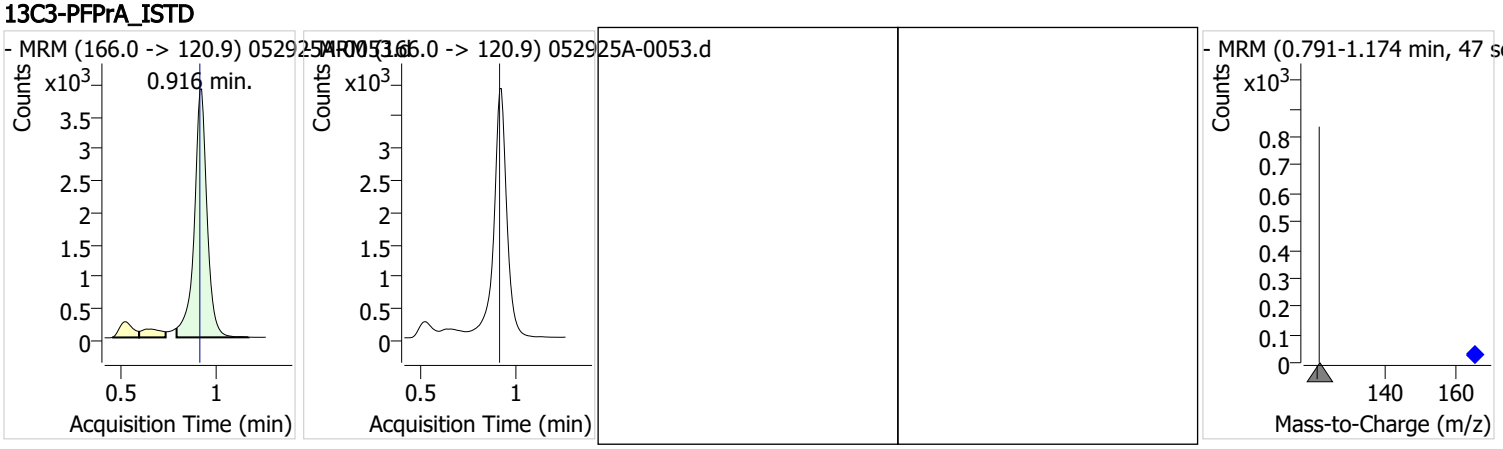
PFPrA



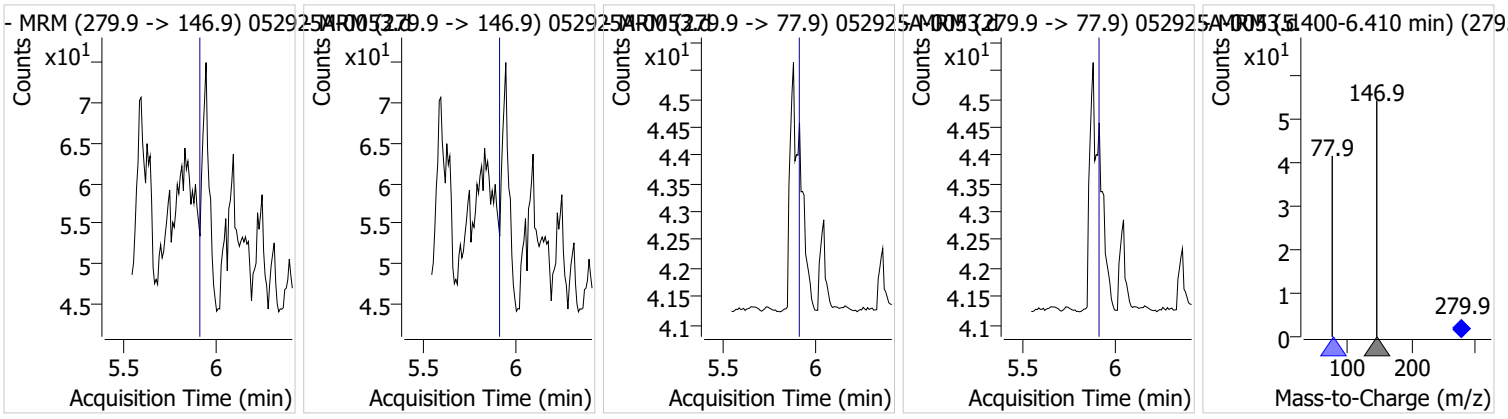
13C3-PFPrA



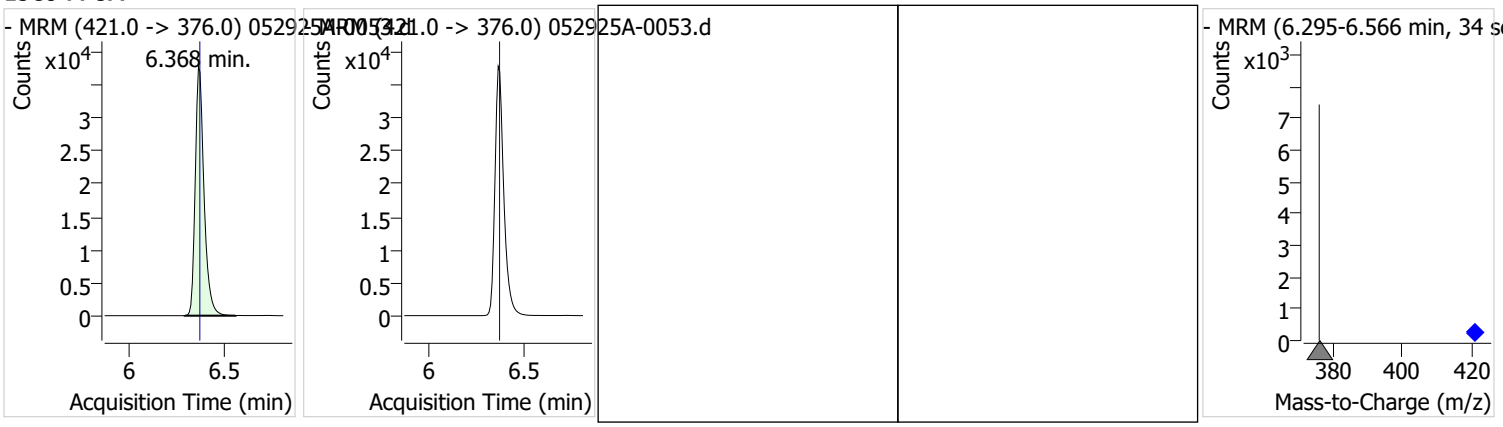
13C3-PFPrA_ISTD



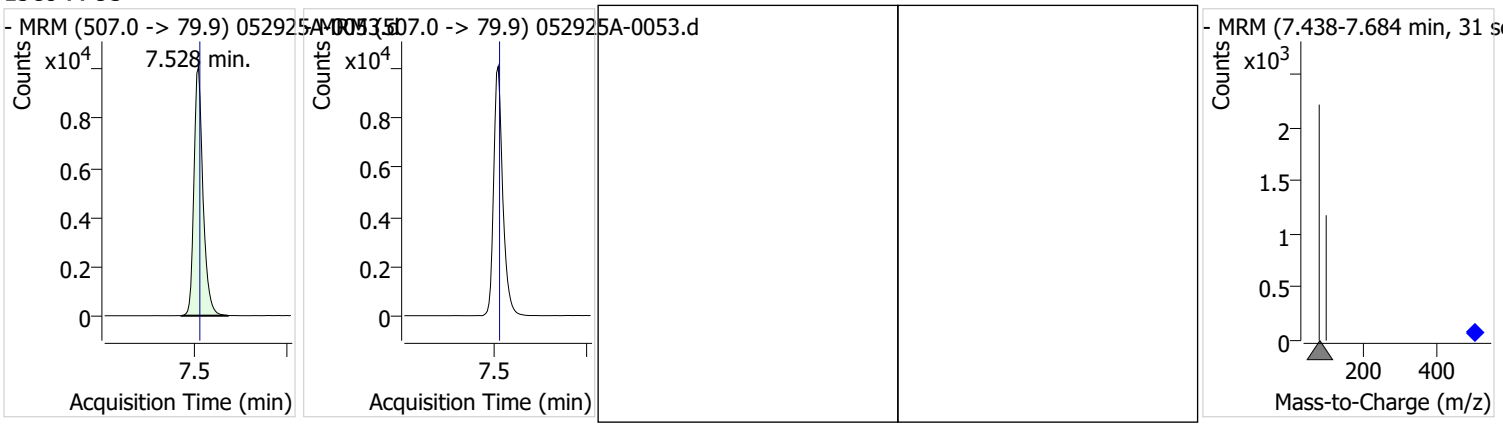
TFSI



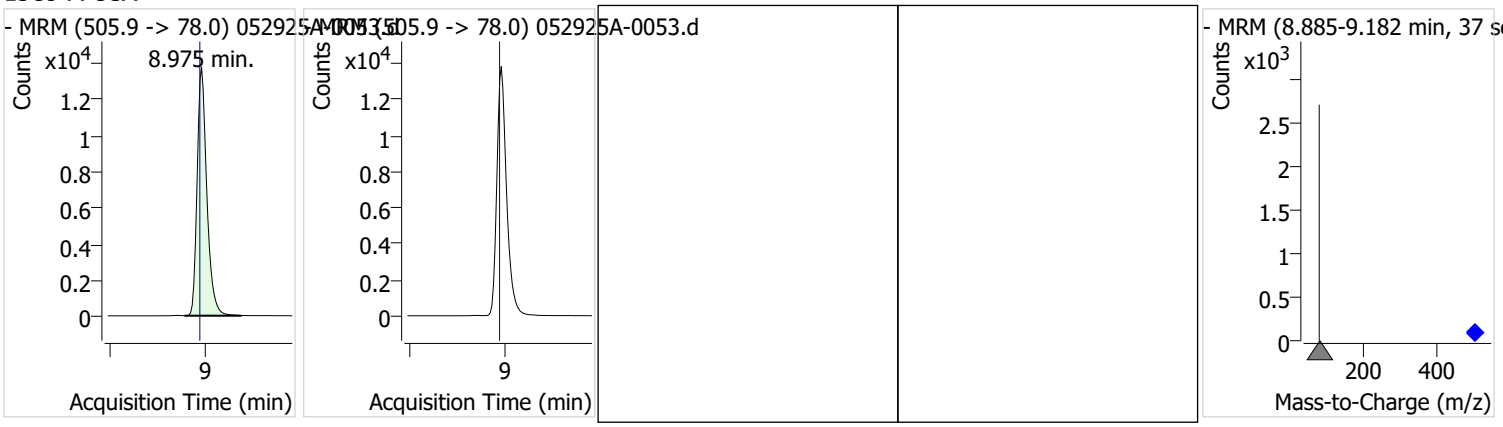
13C8-PFOA



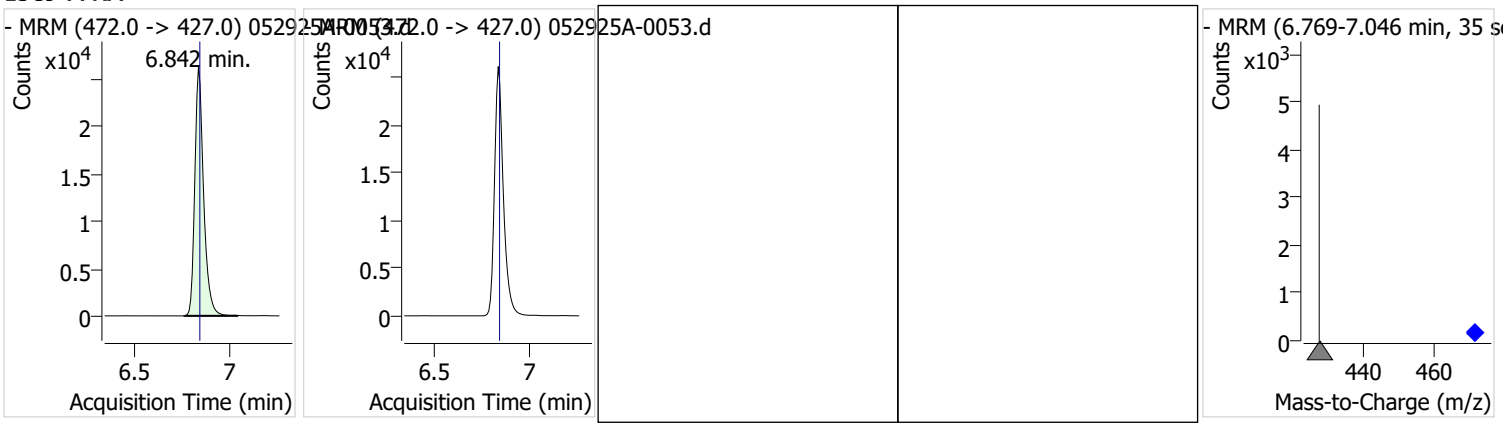
13C8-PFOS



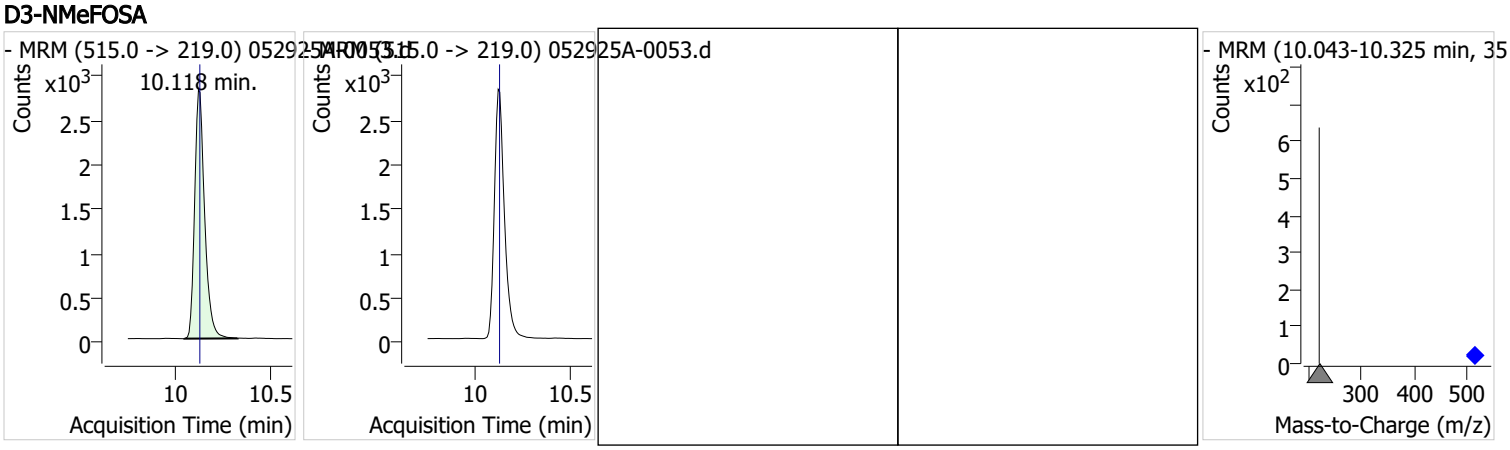
13C8-PFOSA



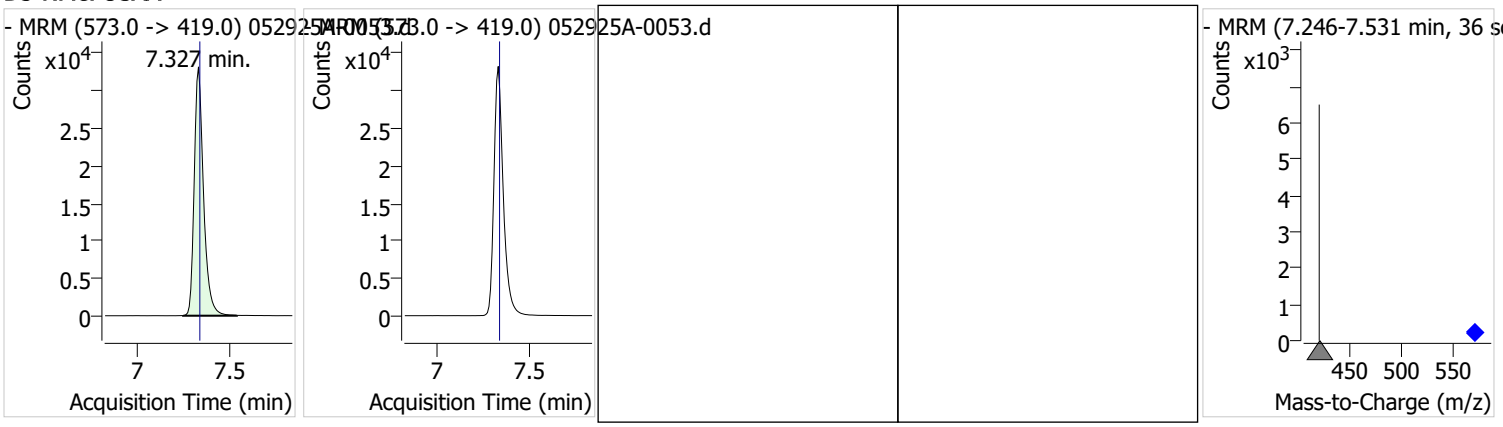
13C9-PFNA



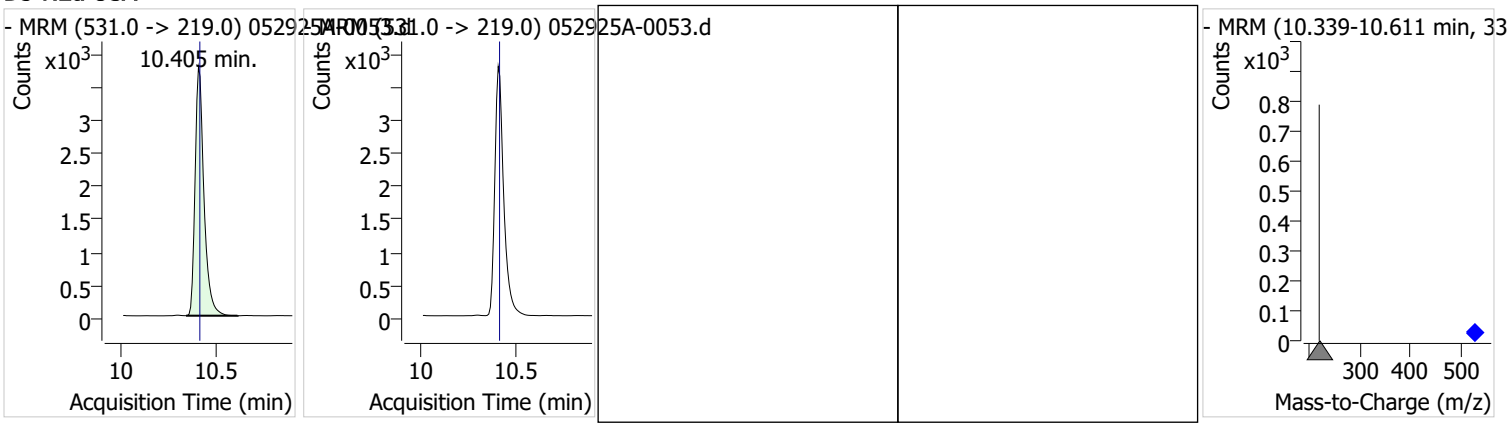
D3-NMeFOSA



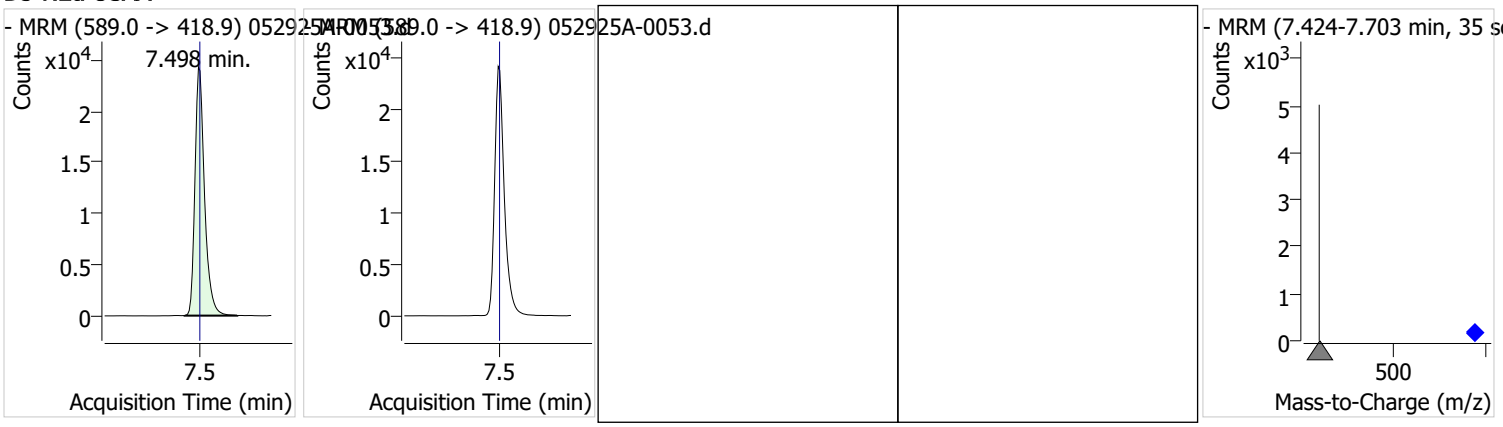
D3-NMeFOSAA



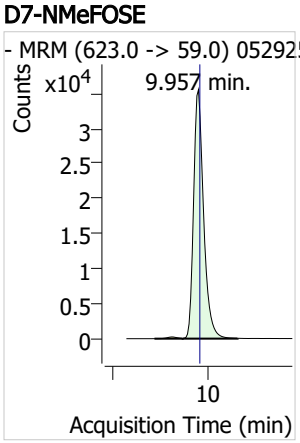
D5-NEtFOSA

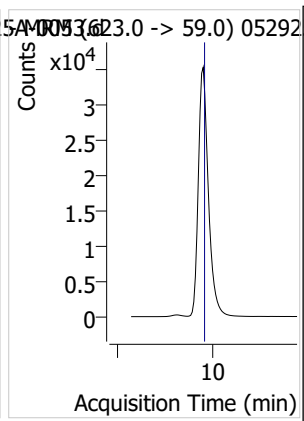


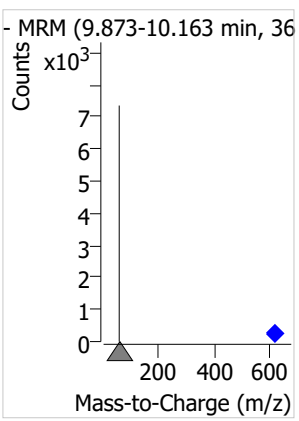
D5-NEtFOSAA



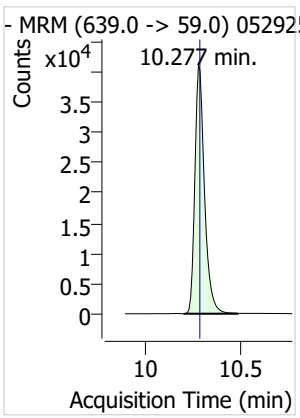
D7-NMeFOSE

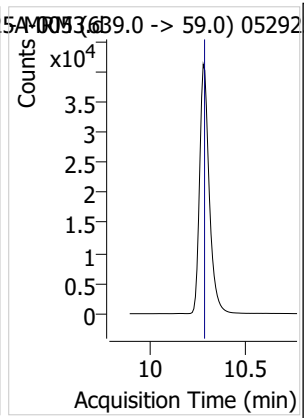


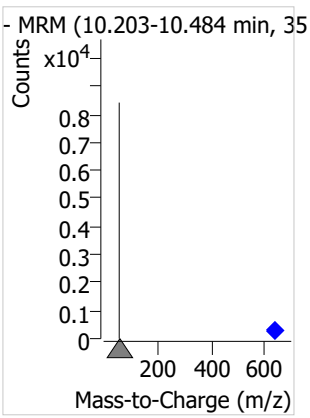




D9-NEtFOSE

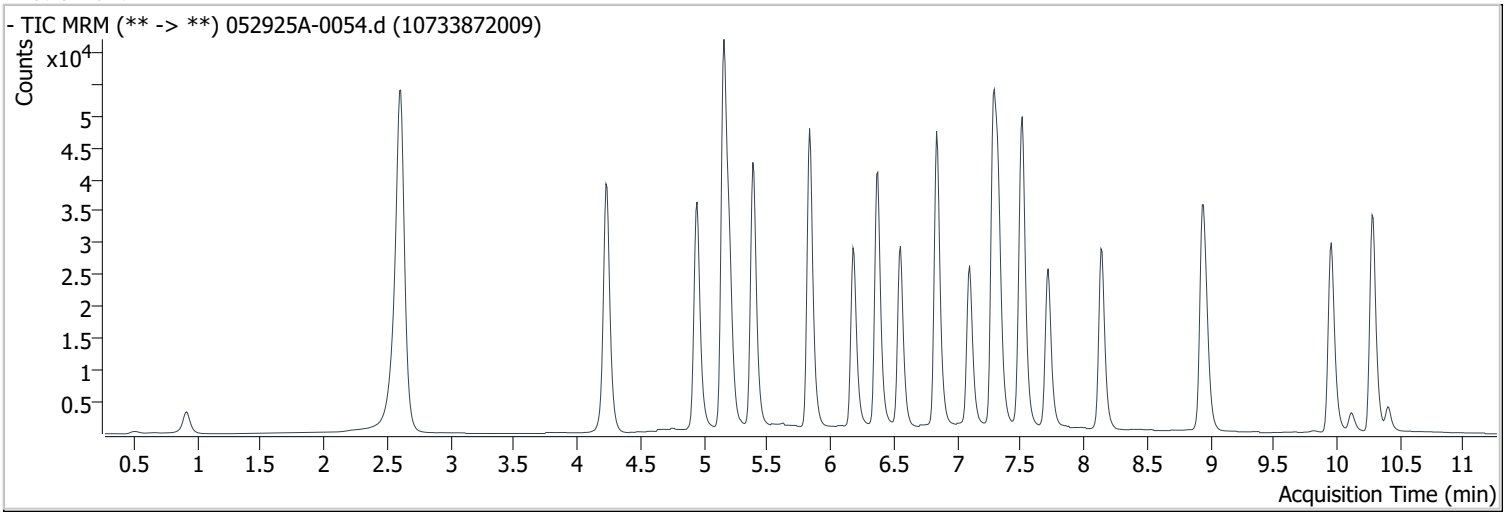






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 10:39 PM	**Data File**	052925A-0054.d
Sample Type	Sample	**Sample Name**	10733872009
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	88531	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	36213	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	26658	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	151650	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	24068	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	199819	1713.08		13C3-PFBA_ISTD	2.600	99268	8.2704	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.519	29813	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.519	29813	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.519	29813	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	36213	3768.13		18O2-PFHxS_ISTD	6.559	37189	5.6552	ng/ml			
13C2-6:2FTS	6.180	26658	104505.56		18O2-PFHxS_ISTD	6.559	37189	5.5252	ng/ml			
13C2-8:2FTS	7.100	24068	131107.30		18O2-PFHxS_ISTD	6.559	37189	4.9698	ng/ml			
13C2-PFDoA	8.138	96966	2691.05		13C2-PFDA_ISTD	7.290	79220	0.9797	ng/ml			
13C2-PFDA	7.290	79220	24393.69					1.6294	ng/ml			
13C2-PFHxA	5.162	98072	8884.25					3.1818	ng/ml			
13C2-PFTeDA	8.936	105163	15813.92		13C2-PFDA_ISTD	7.290	79220	0.9456	ng/ml			
13C4-PFOS	7.520	37647	11298.05					3.4153	ng/ml			
13C3-HFPODA	5.394	88531	575789.14		13C2-PFHxA_ISTD	5.162	98072	8.4489	ng/ml			
13C3-PFBS	5.205	53958	17513.09		18O2-PFHxS_ISTD	6.559	37189	2.1252	ng/ml			
13C3-PFHxS	6.560	36396	3218.64		18O2-PFHxS_ISTD	6.559	37189	2.1170	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.498	74694	-	ng/ml			
584.0 -> 526.0				*								

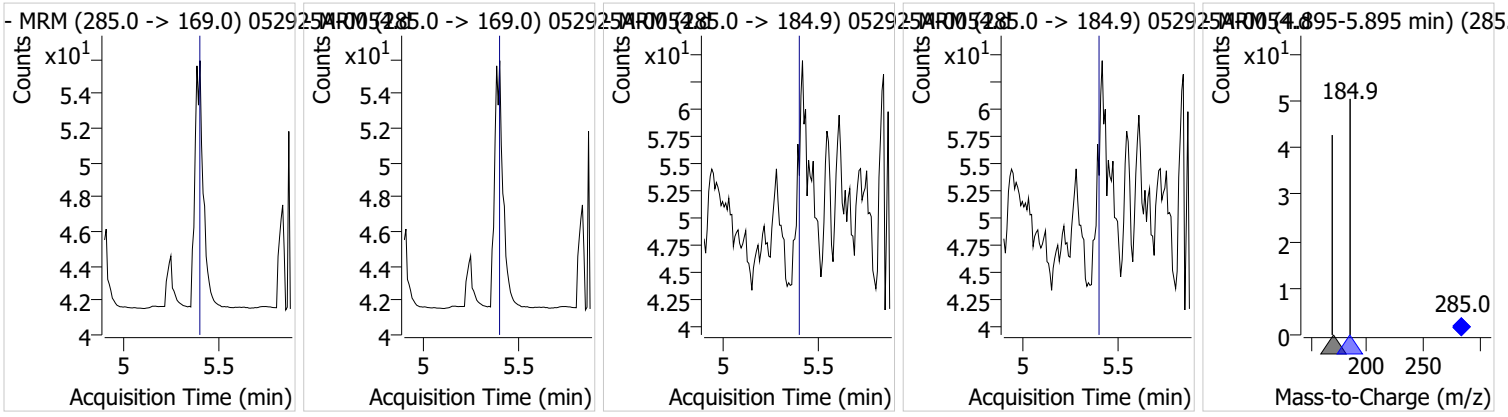
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	151650	46540.25		13C2-PFHxA_ISTD	5.162	98072	2.1775	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.327	100192	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.606	199819	-	ng/ml			
13C5-PFHxA	5.161	93505	32369.40		13C2-PFHxA_ISTD	5.162	98072	2.1477	ng/ml			
PFBS	5.385	0	0.00		13C3-PFBS_ISTD	5.205	53958	-	ng/ml	✔	INT	MJL 5/30/25
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	10216	-	ng/ml			
512.0 -> 169.0				*								
PFDA	7.200	0	0.00		13C6-PFDA_ISTD	7.289	76424	-	ng/ml	✔	INT	MJL 5/30/25
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.138	96966	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	11635	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.839	151650	-	ng/ml			
362.9 -> 169.0				*								
PFHxA					13C5-PFHxA_ISTD	5.161	93505	-	ng/ml			
313.0 -> 118.9				*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	107728	-	ng/ml			
PFHxS					13C3-PFHxS_ISTD	6.560	36396	-	ng/ml			
398.9 -> 99.0				*								
PFNA					13C9-PFNA_ISTD	6.842	72090	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	120577	-	ng/ml			
PFOA	6.300	867	14.81		13C8-PFOA_ISTD	6.377	103989	0.0177	ng/ml			
413.0 -> 169.0	6.386	94	35.18	*10.8								
PFOS	7.399	400	48.74		13C8-PFOS_ISTD	7.519	29813	0.0227	ng/ml			
499.0 -> 99.0	7.402	205	40.60	51.3								
PFPeA					13C5-PFPeA_ISTD	4.229	147213	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	199819	-	ng/ml			
13C5-PFPeA	4.229	147213	18676.63		13C2-PFHxA_ISTD	5.162	98072	4.2384	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.229	147213	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.138	96966	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	93505	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	76424	23964.19		13C2-PFDA_ISTD	7.290	79220	1.0245	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	93505	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	41822	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	82938	3231.97		13C2-PFDA_ISTD	7.290	79220	0.9955	ng/ml			
13C4-PFOA	6.369	25539	17101.32					3.0888	ng/ml			
PFDS					13C8-PFOS_ISTD	7.519	29813	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.519	29813	-	ng/ml			
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.560	36396	-	ng/ml			

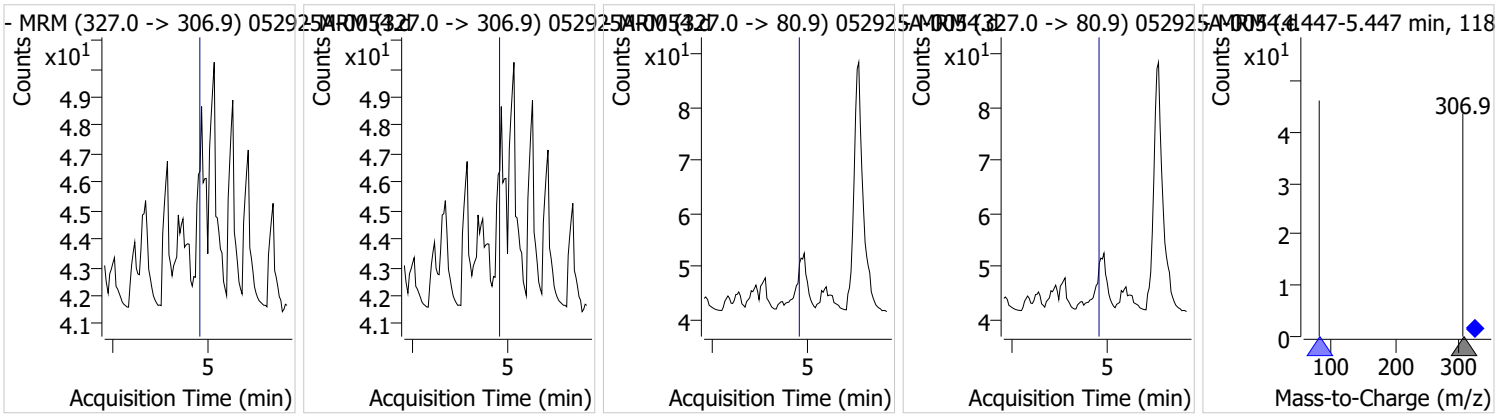
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
349.0 -> 98.9				*								
PFTeDA					13C2-PFTeDA_ISTD	8.936	105163	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	82938	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.600	99268	1181.22					6.5366	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.229	147213	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	93505	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	72090	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.842	76604	57329.45					1.6198	ng/ml			
18O2-PFHxS	6.559	37189	4536.47					3.2739	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.519	29813	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.519	29813	-	ng/ml			
499.0 -> 124.0				*								
PFPrA					13C3-PFPrA_ISTD	0.916	15907	-	ng/ml			
13C3-PFPrA	0.916	15907	1815.41		13C3-PFBA_ISTD	2.600	99268	1.4813	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	88531	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.377	103989	7989.72		13C4-PFOA_ISTD	6.369	25539	2.1732	ng/ml			
13C8-PFOS	7.519	29813	7047.21		13C4-PFOS_ISTD	7.520	37647	2.0248	ng/ml			
13C8-PFOSA	8.975	41822	11684.05		13C4-PFOS_ISTD	7.520	37647	1.9754	ng/ml			
13C9-PFNA	6.842	72090	3677.81		13C5-PFNA_ISTD	6.842	76604	1.0651	ng/ml			
D3-NMeFOSA	10.118	10216	1172.19		13C4-PFOS_ISTD	7.520	37647	1.5145	ng/ml			
D3-NMeFOSAA	7.327	100192	3220.26		13C4-PFOS_ISTD	7.520	37647	4.2788	ng/ml			
D5-NEtFOSA	10.405	11635	1848.96		13C4-PFOS_ISTD	7.520	37647	1.4349	ng/ml			
D5-NEtFOSAA	7.498	74694	21876.37		13C4-PFOS_ISTD	7.520	37647	4.2002	ng/ml			
D7-NMeFOSE	9.957	107728	23380.83		13C4-PFOS_ISTD	7.520	37647	16.6357	ng/ml			
D9-NEtFOSE	10.277	120577	2914.42		13C4-PFOS_ISTD	7.520	37647	16.7683	ng/ml			

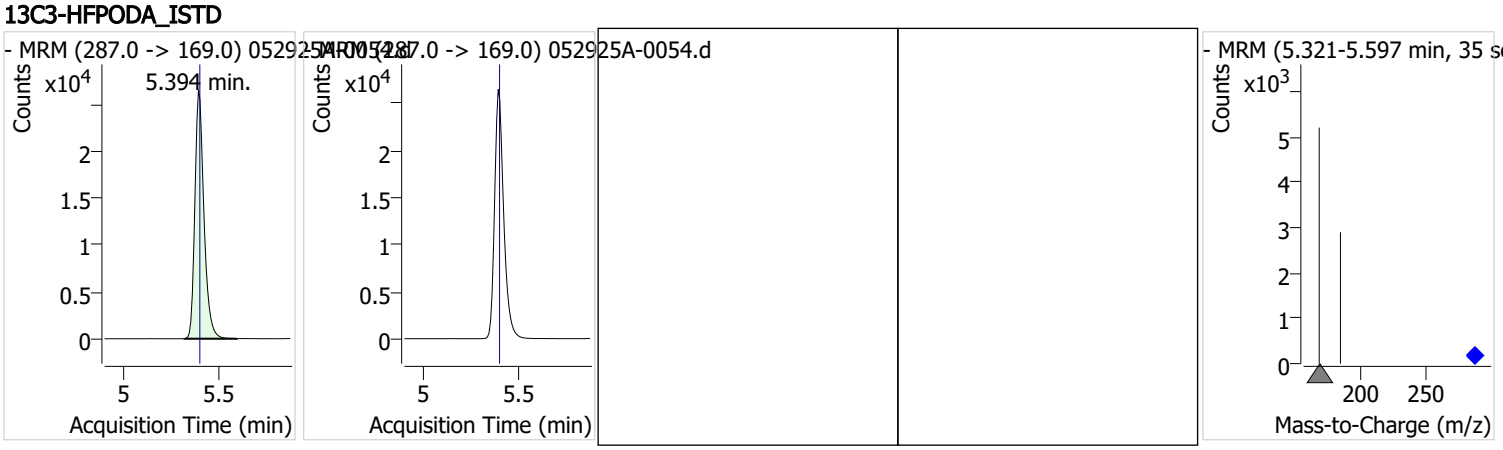
HFPO-DA



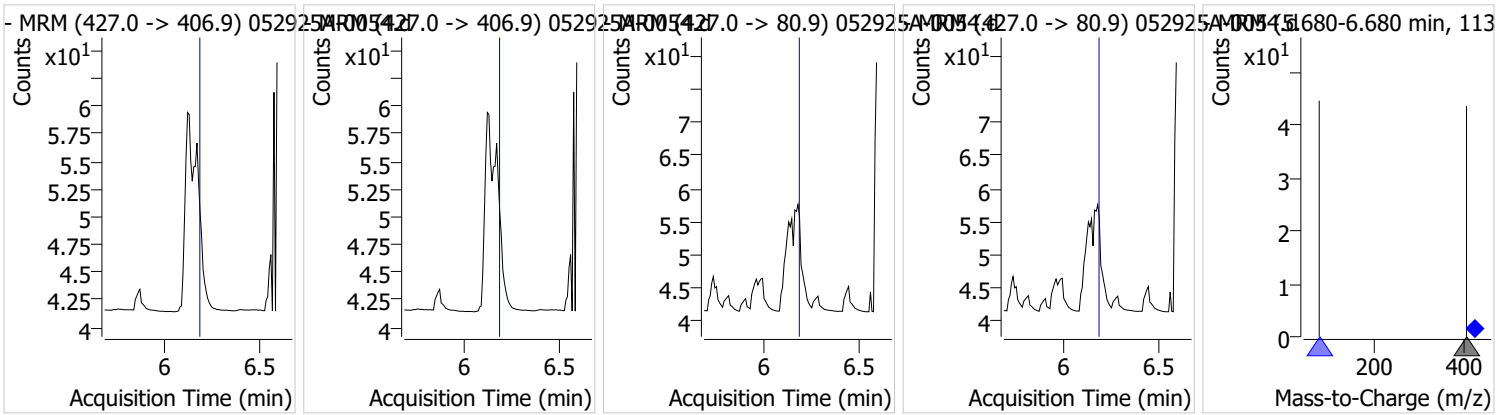
4:2FTS



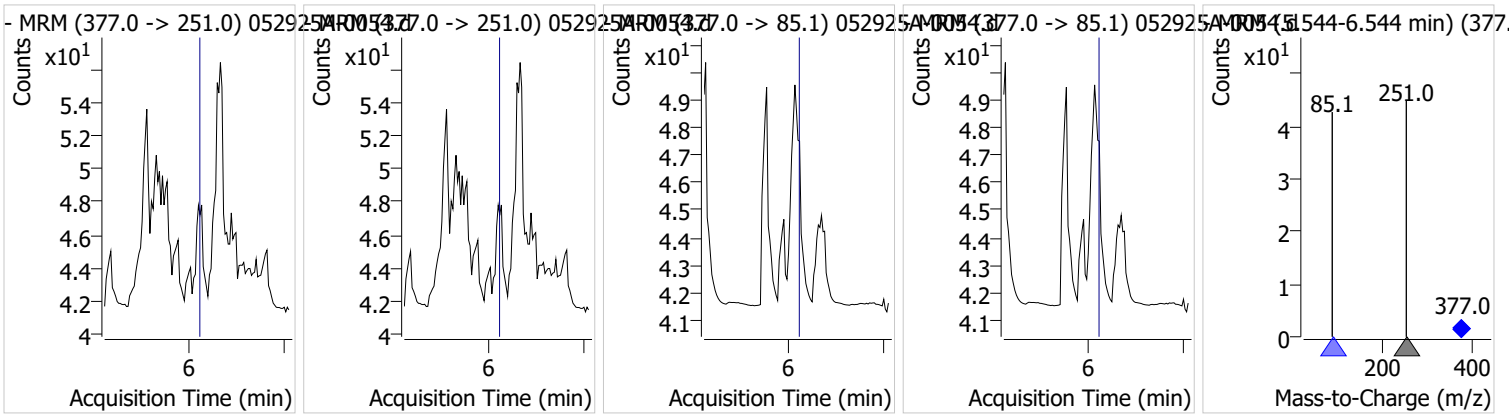
13C3-HFPODA_ISTD



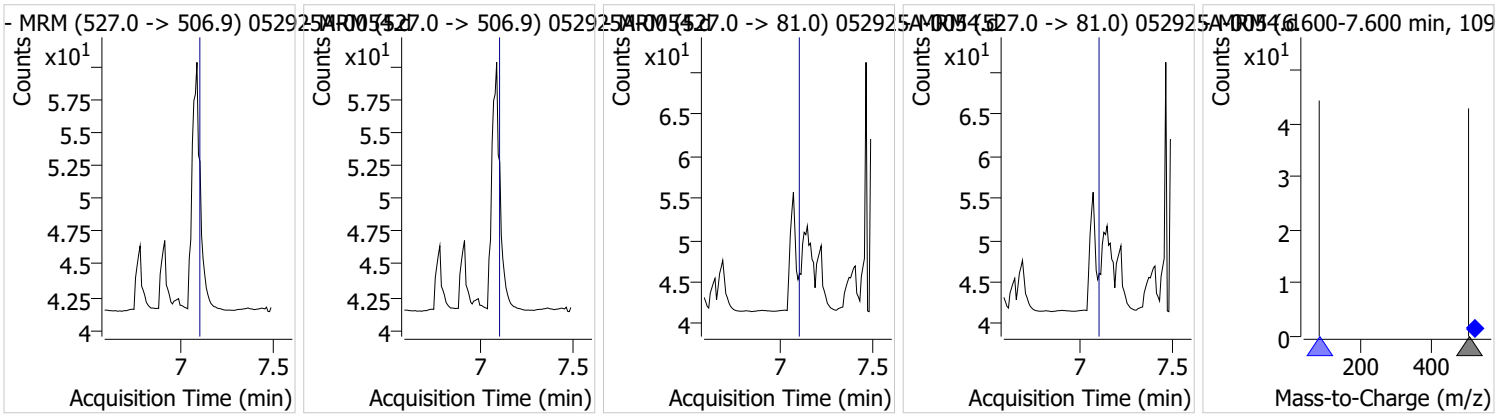
6:2FTS



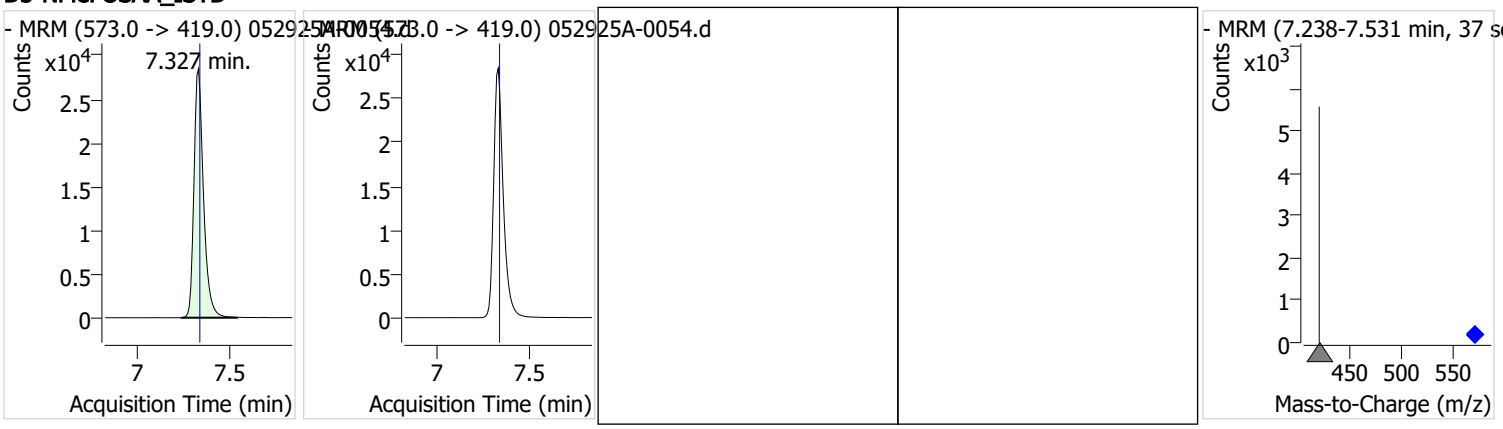
ADONA



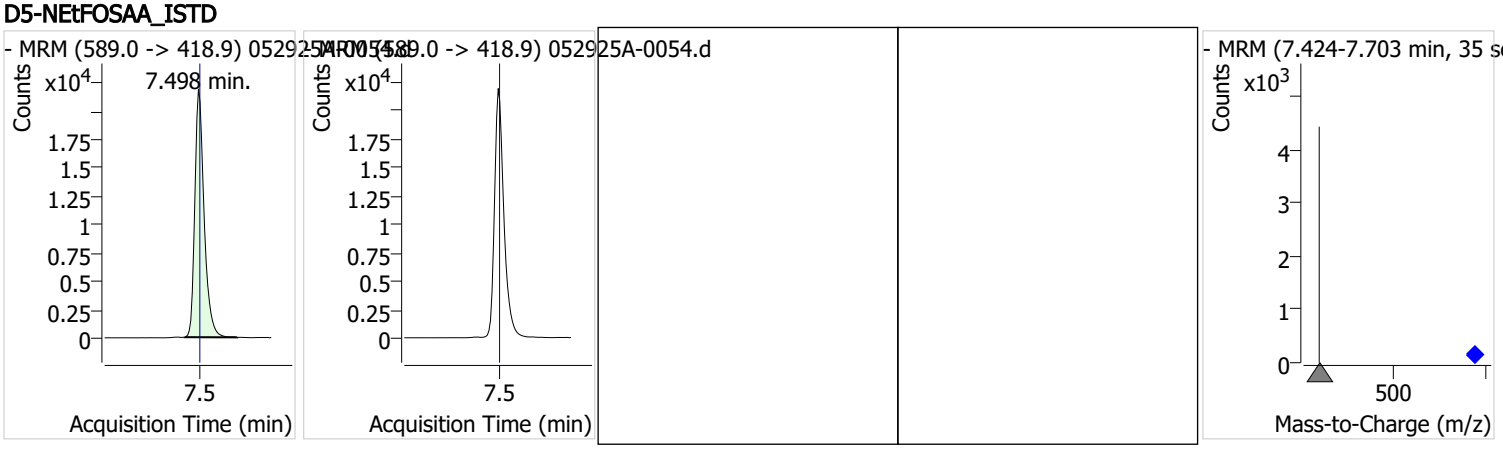
8:2FTS



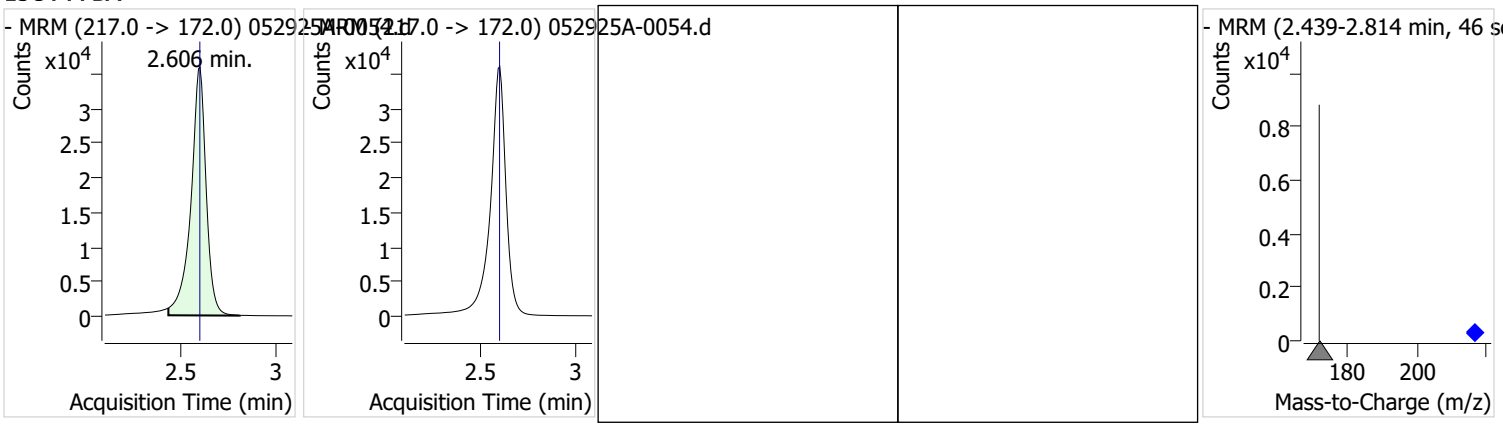
D3-NMeFOSAA_ISTD



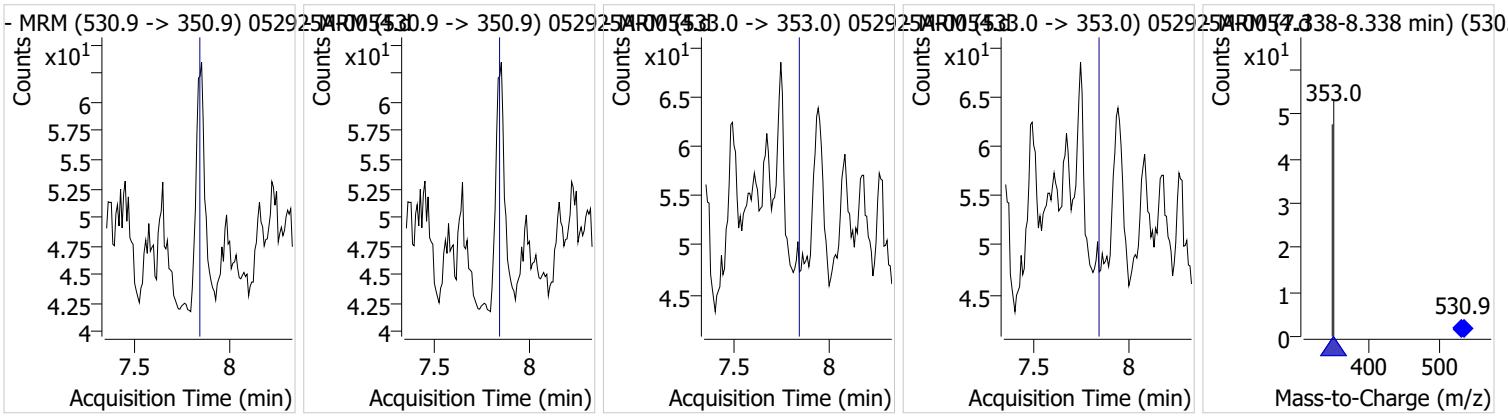
D5-NEtFOSAA_ISTD



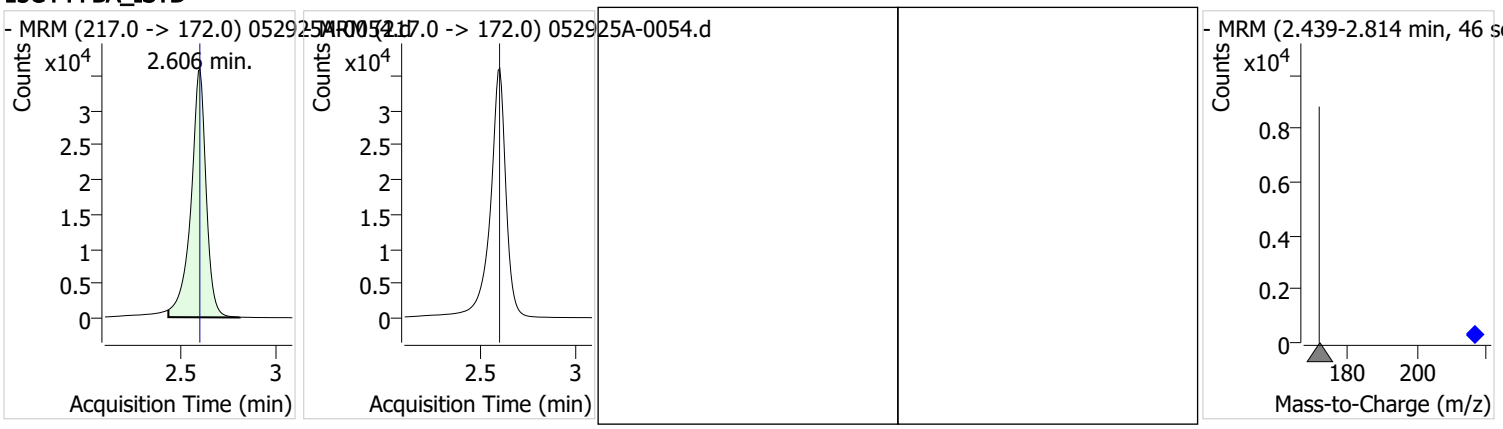
13C4-PFBA



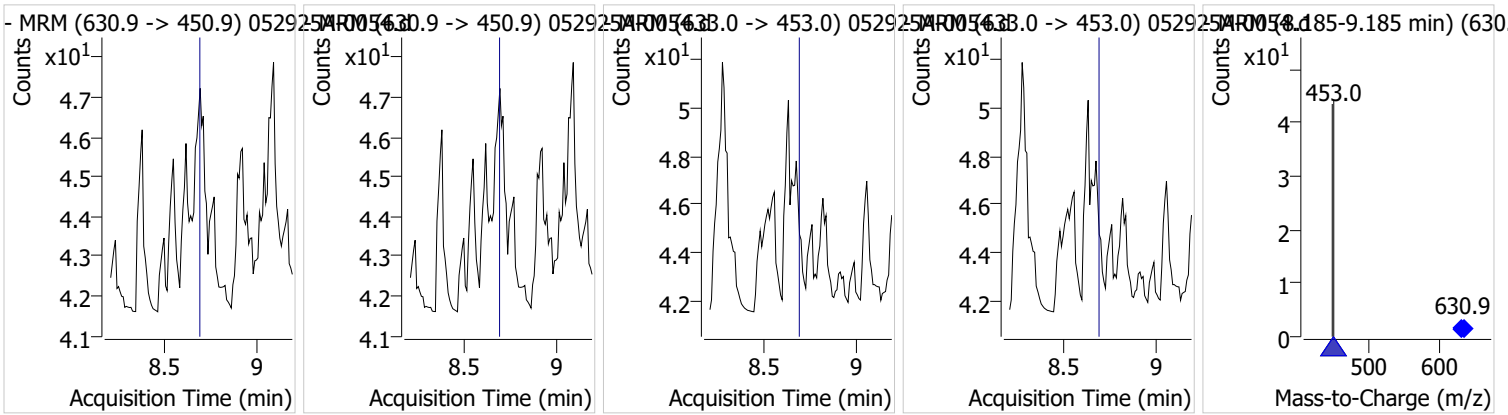
9Cl-PF3ONS



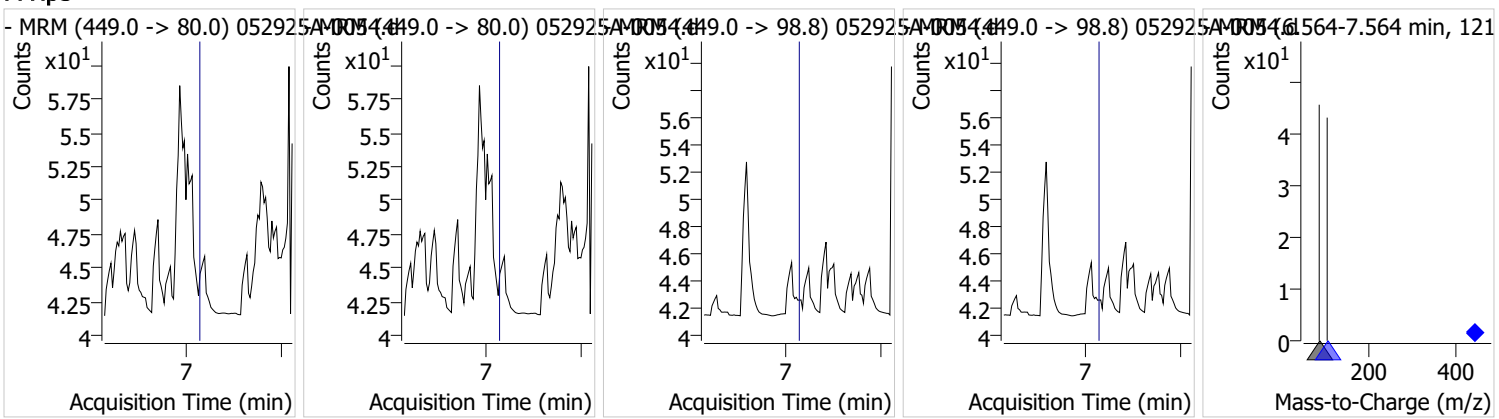
13C4-PFBA_ISTD



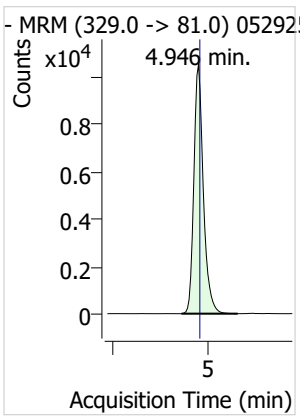
11Cl-PF3OUdS

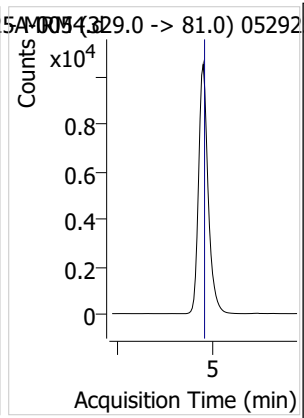


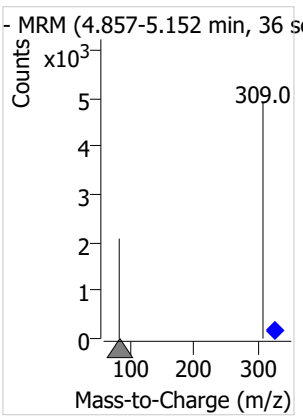
PFHpS



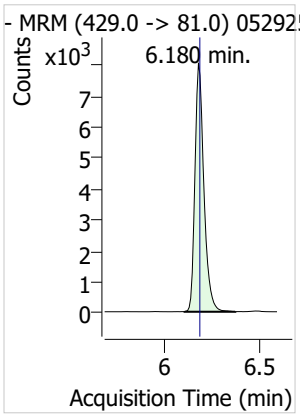
13C2-4:2FTS

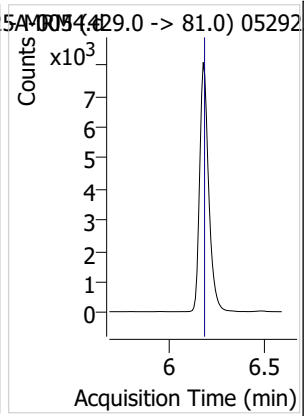


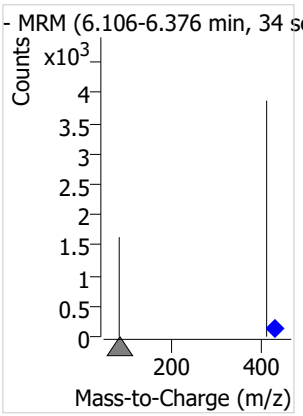




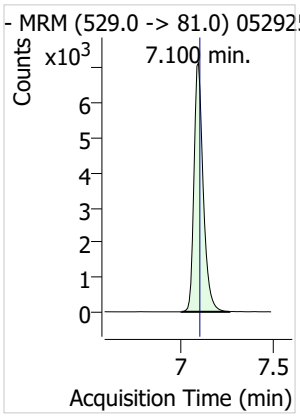
13C2-6:2FTS

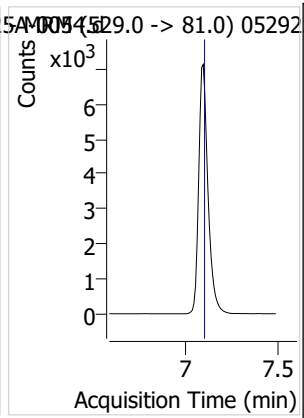


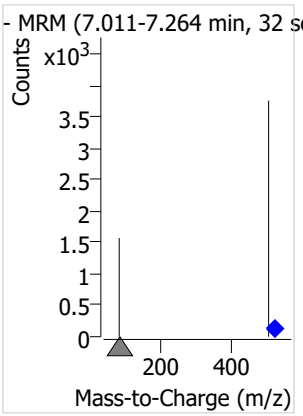




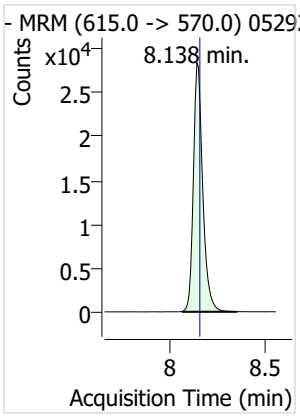
13C2-8:2FTS

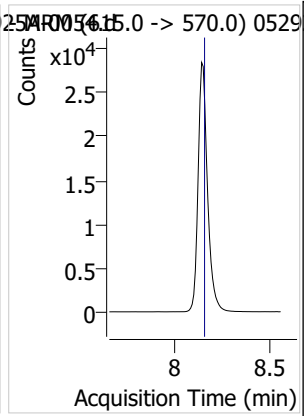


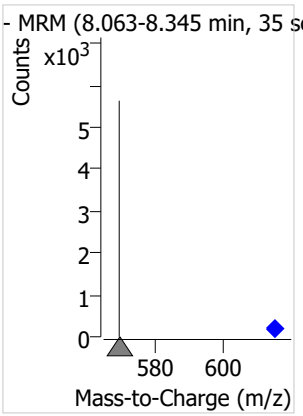




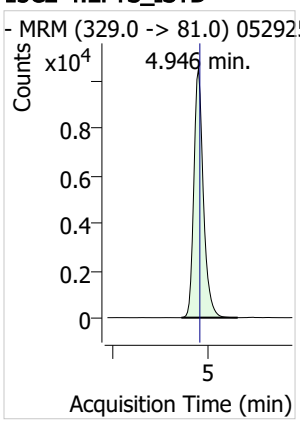
13C2-PFDoA

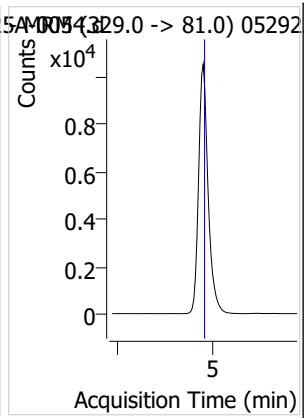


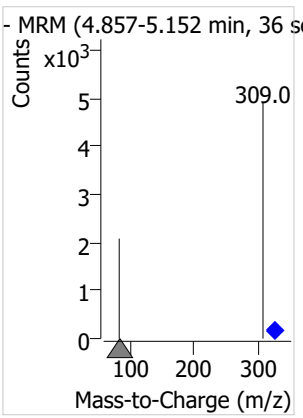




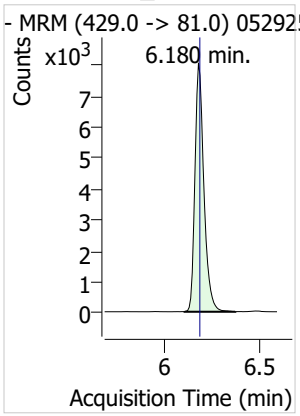
13C2-4:2FTS_ISTD

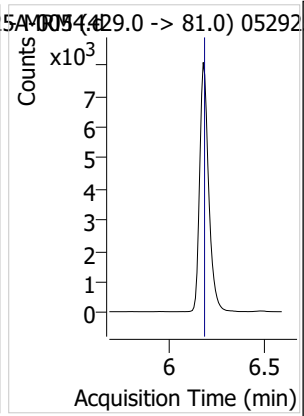


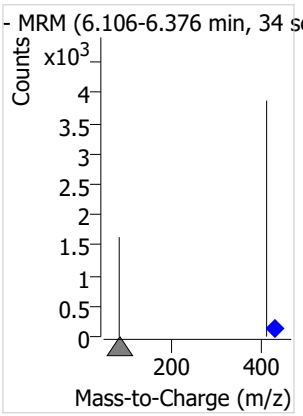




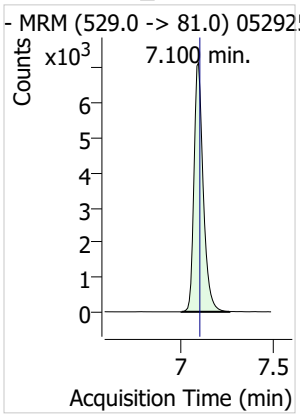
13C2-6:2FTS_ISTD

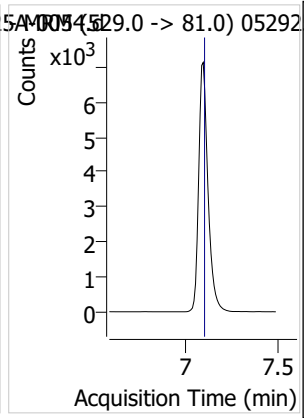


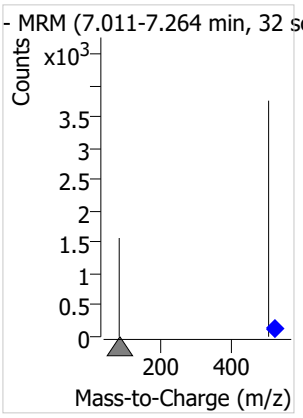




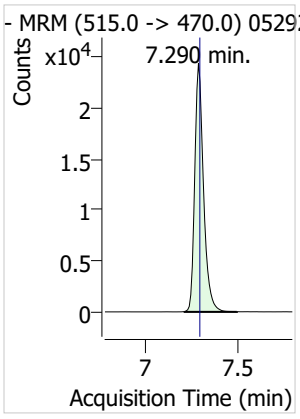
13C2-8:2FTS_ISTD

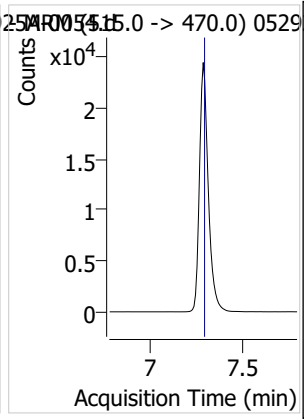


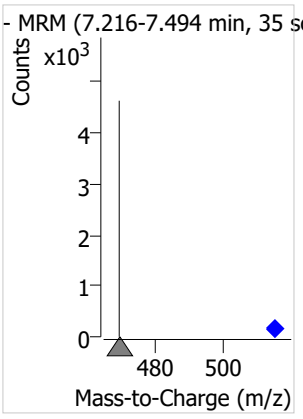




13C2-PFDA



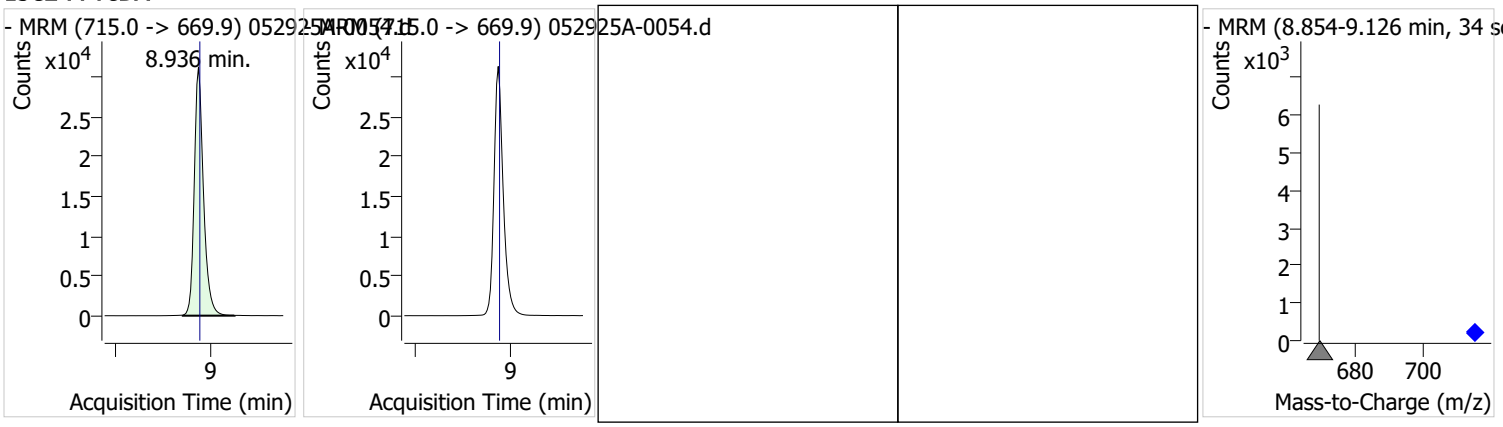




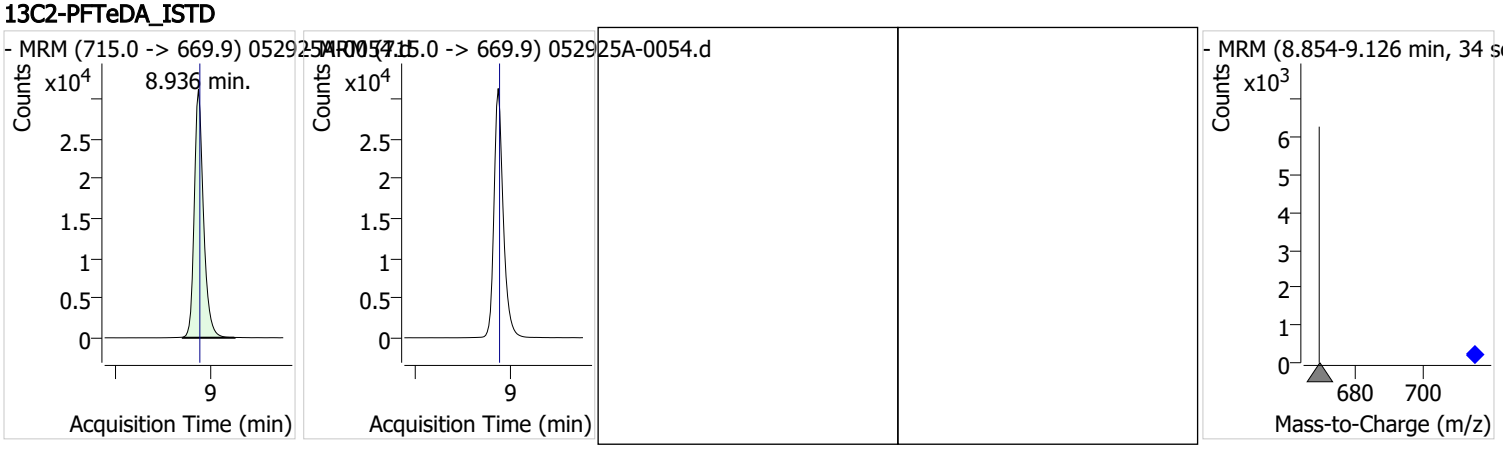
13C2-PFHxA



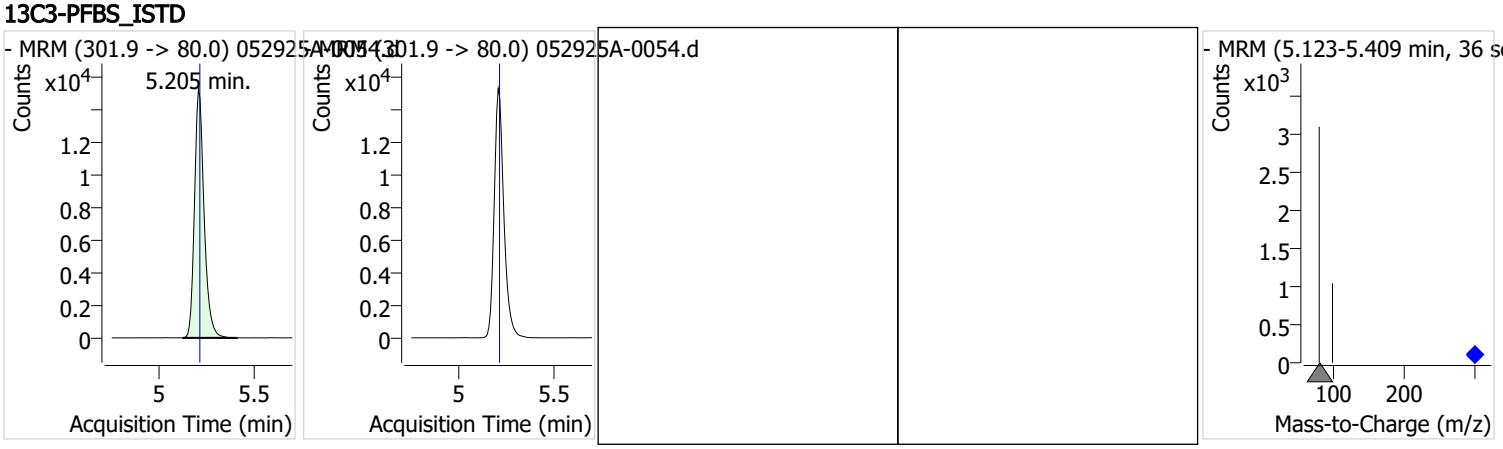
13C2-PFTeDA



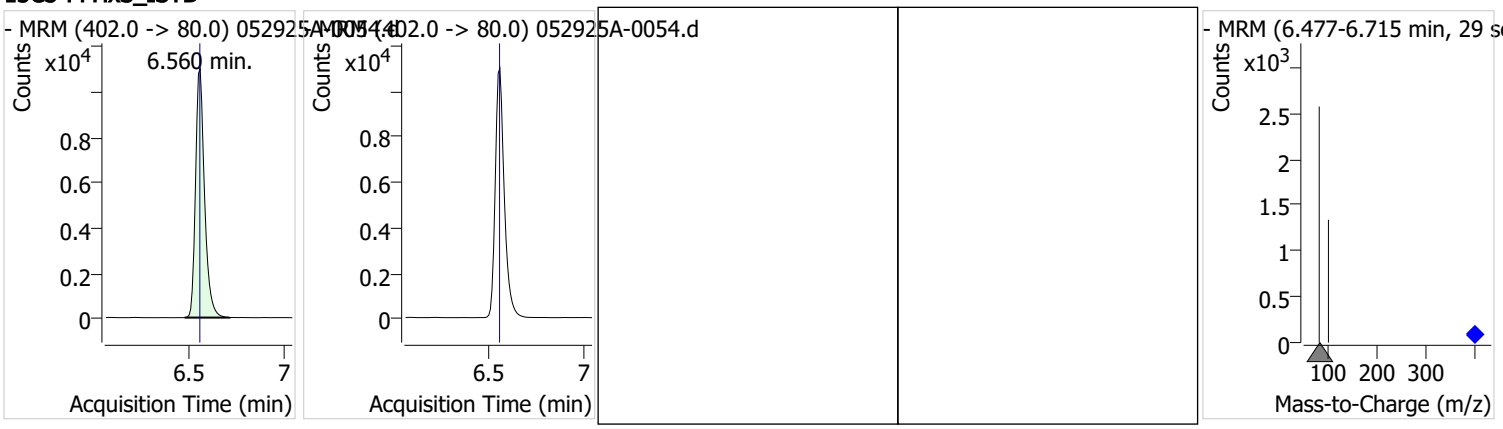
13C2-PFTeDA_ISTD



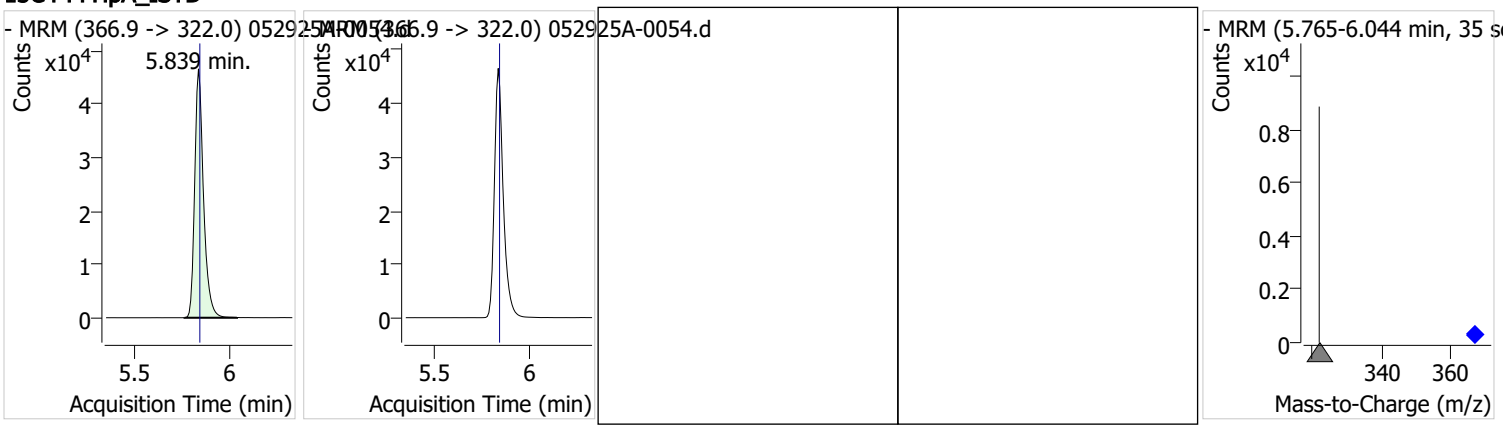
13C3-PFBS_ISTD



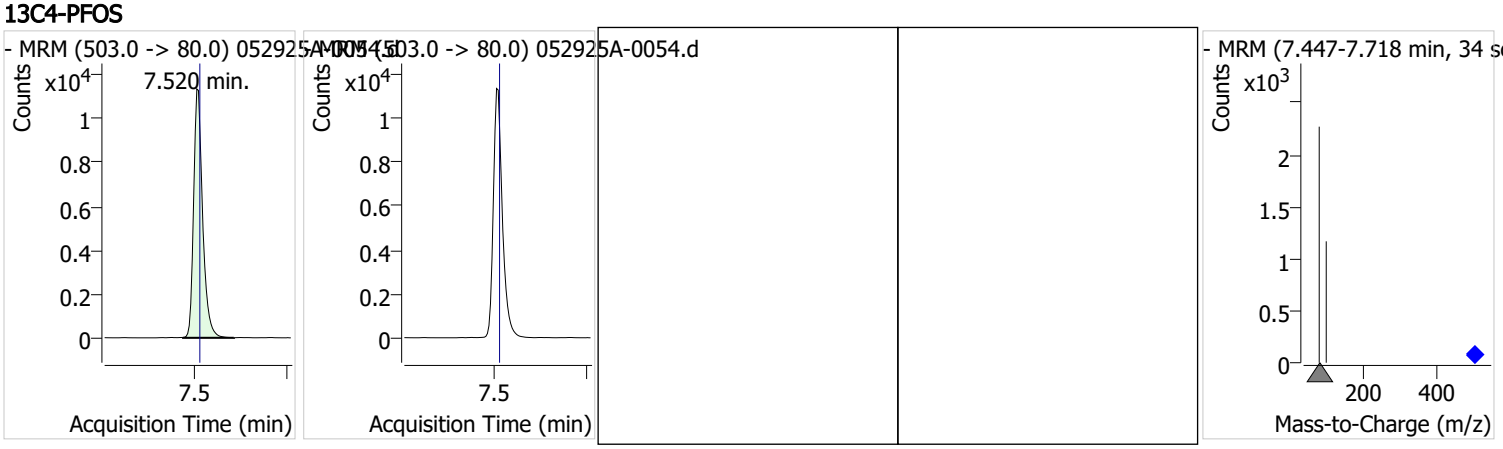
13C3-PFHxS_ISTD



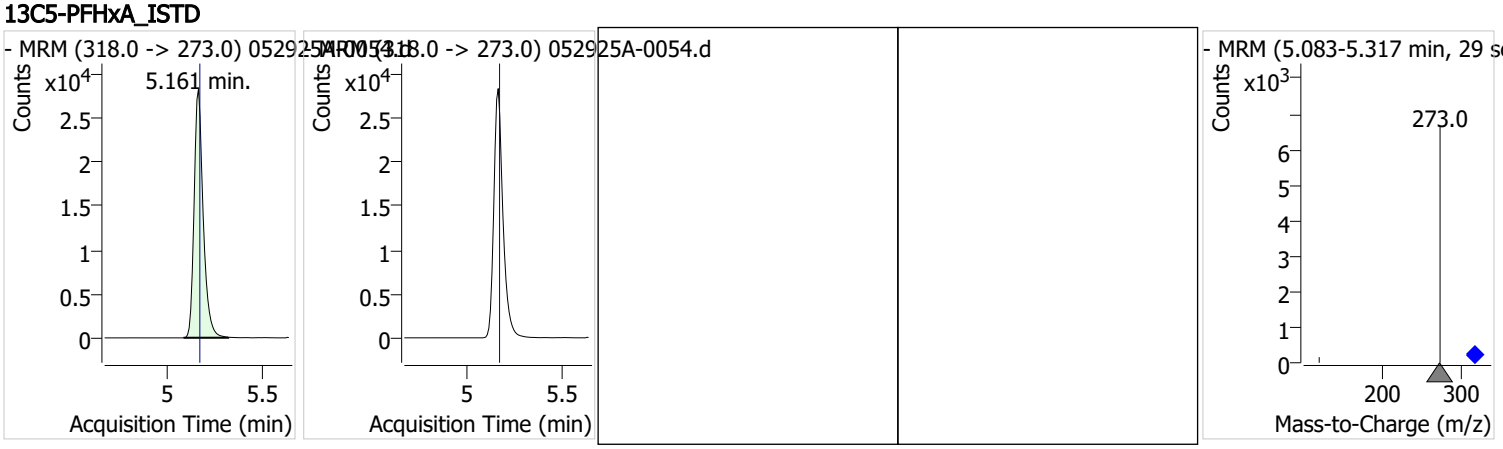
13C4-PFHpA_ISTD



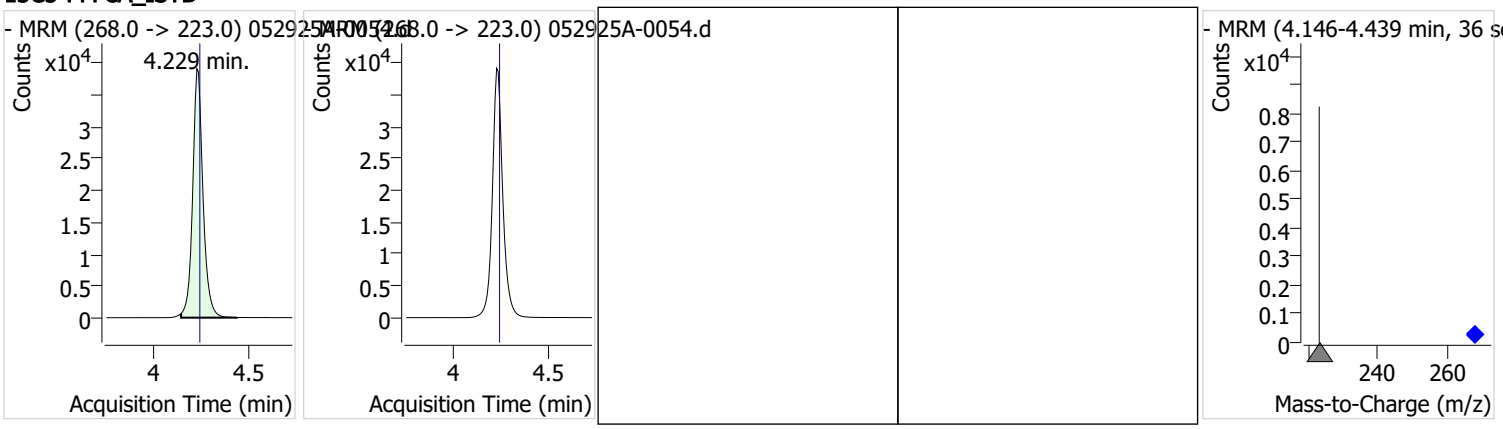
13C4-PFOS



13C5-PFHxA_ISTD



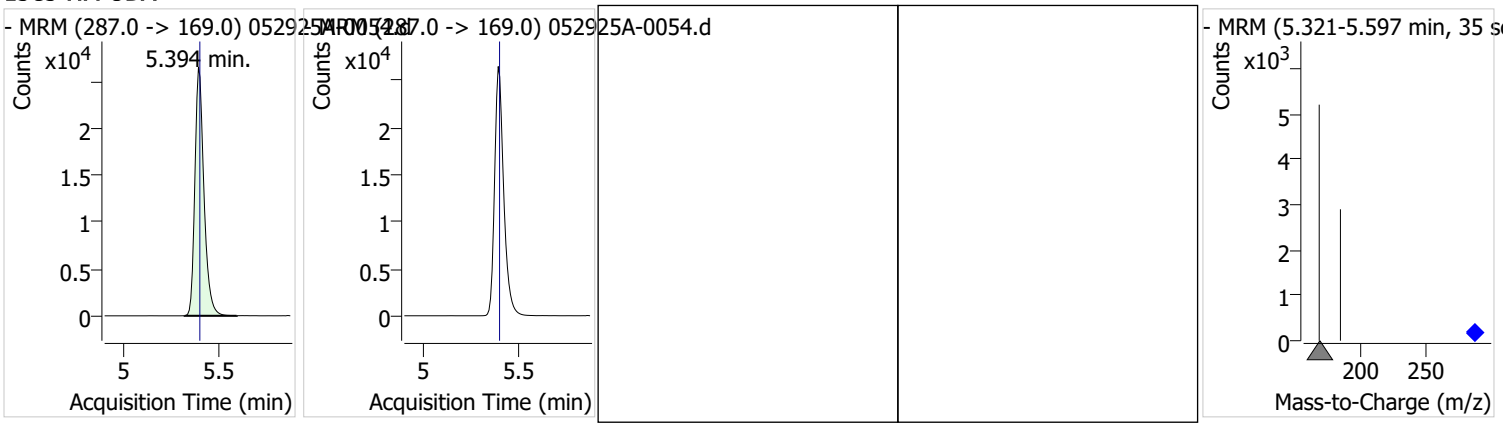
13C5-PFPeA_ISTD



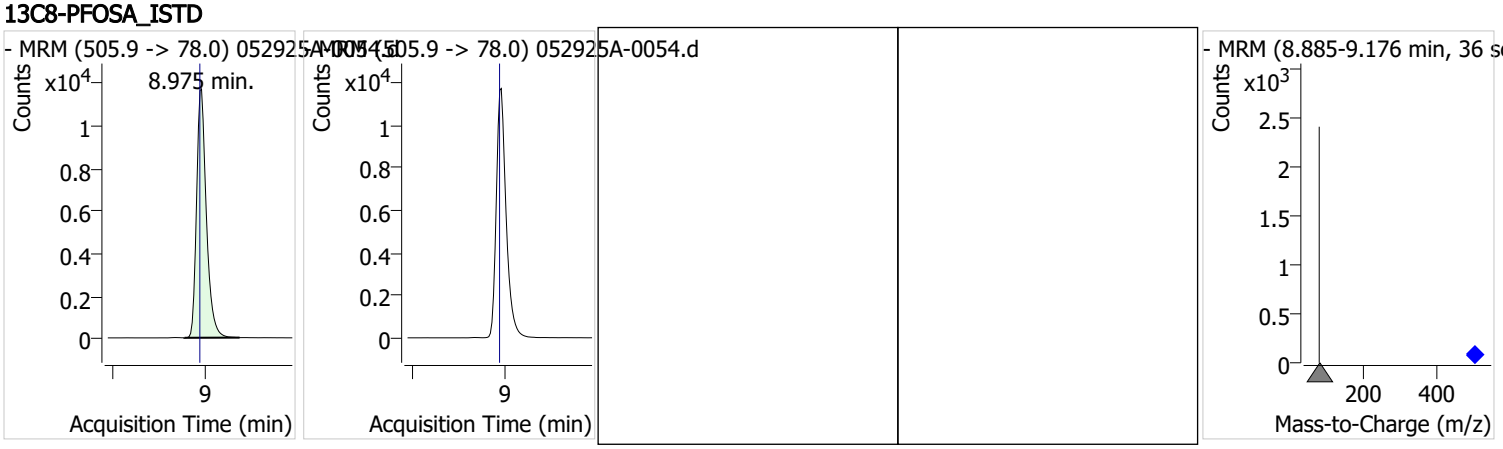
13C6-PFDA_ISTD



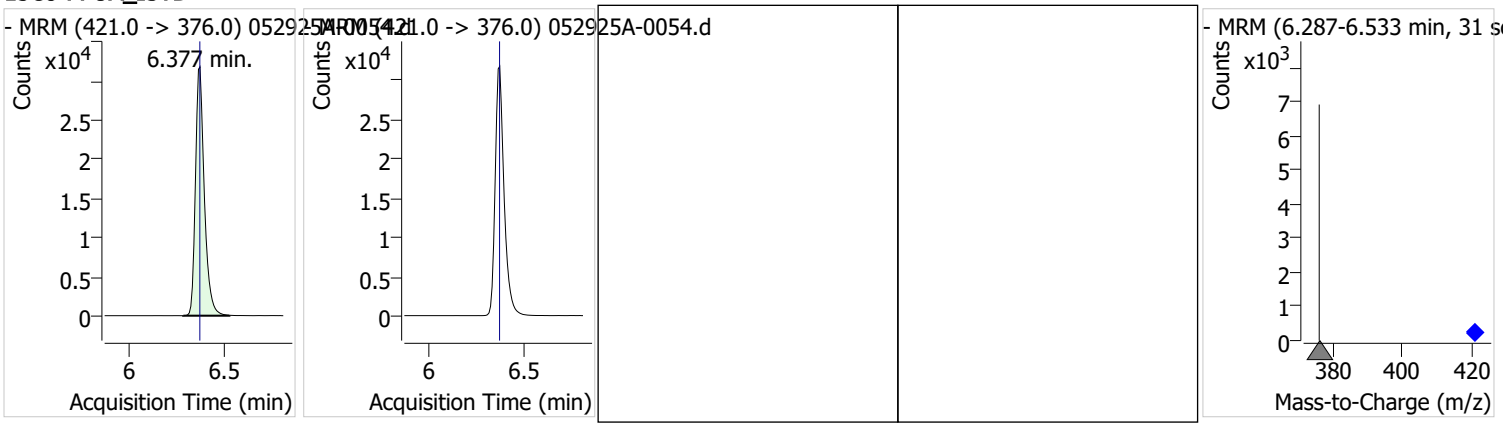
13C3-HFPODA



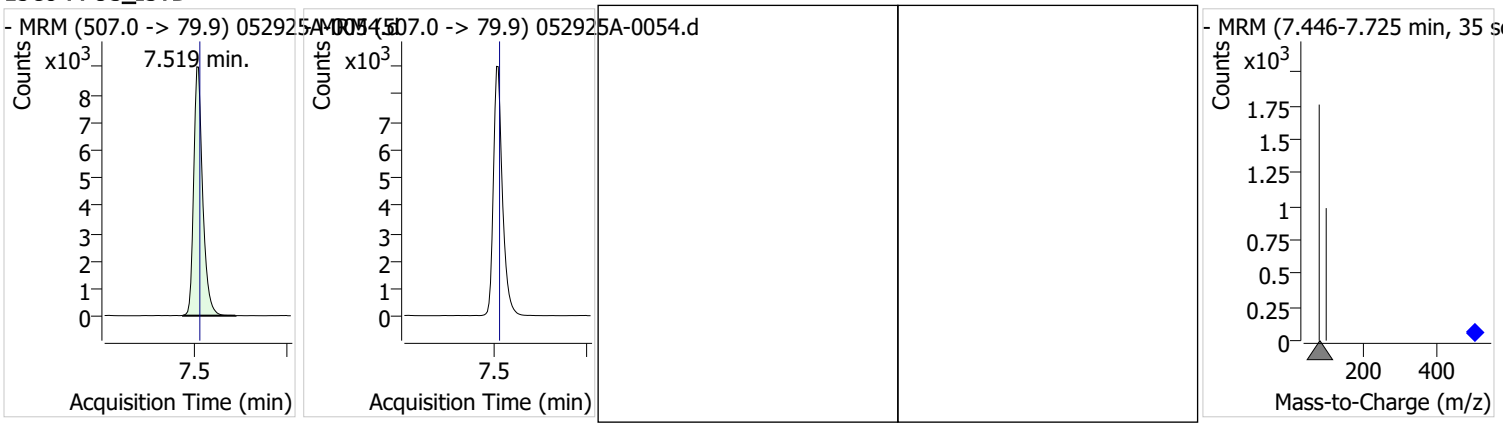
13C8-PFOSA_ISTD



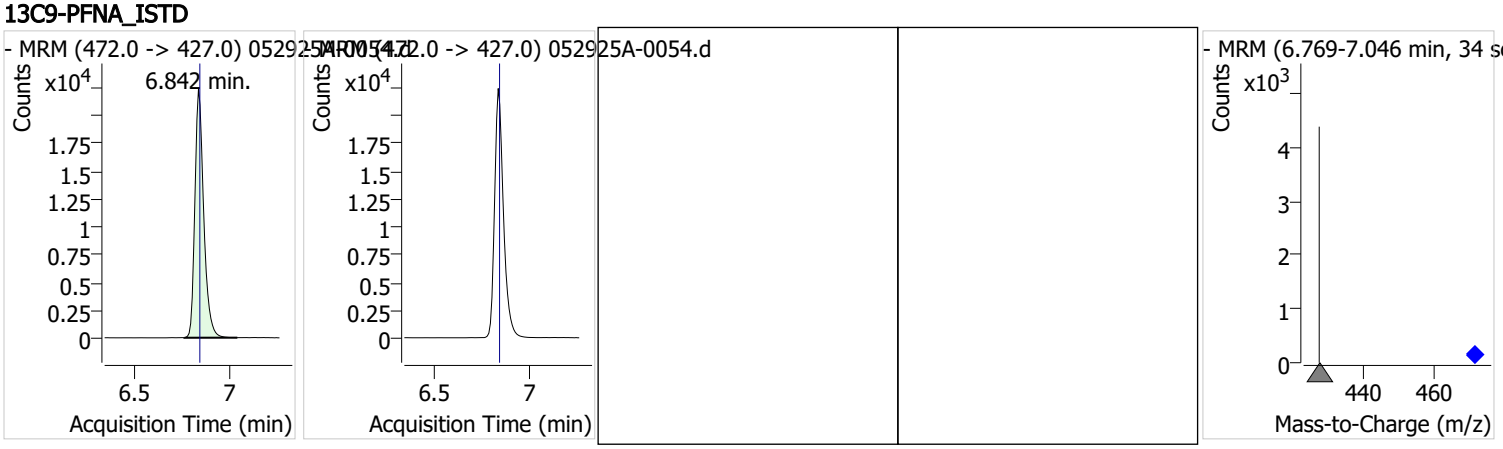
13C8-PFOA_ISTD



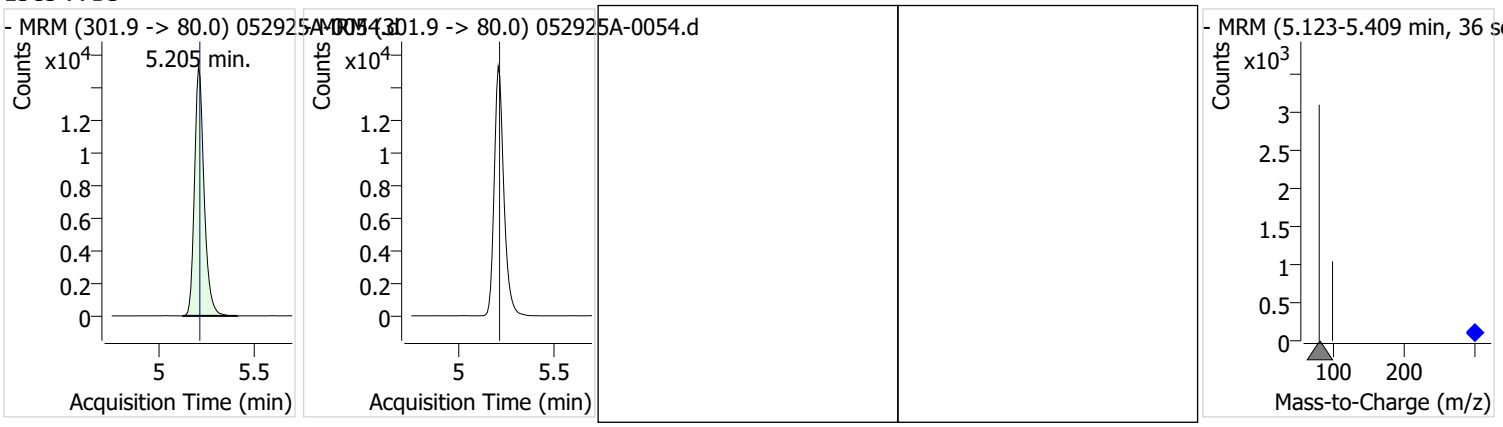
13C8-PFOS_ISTD



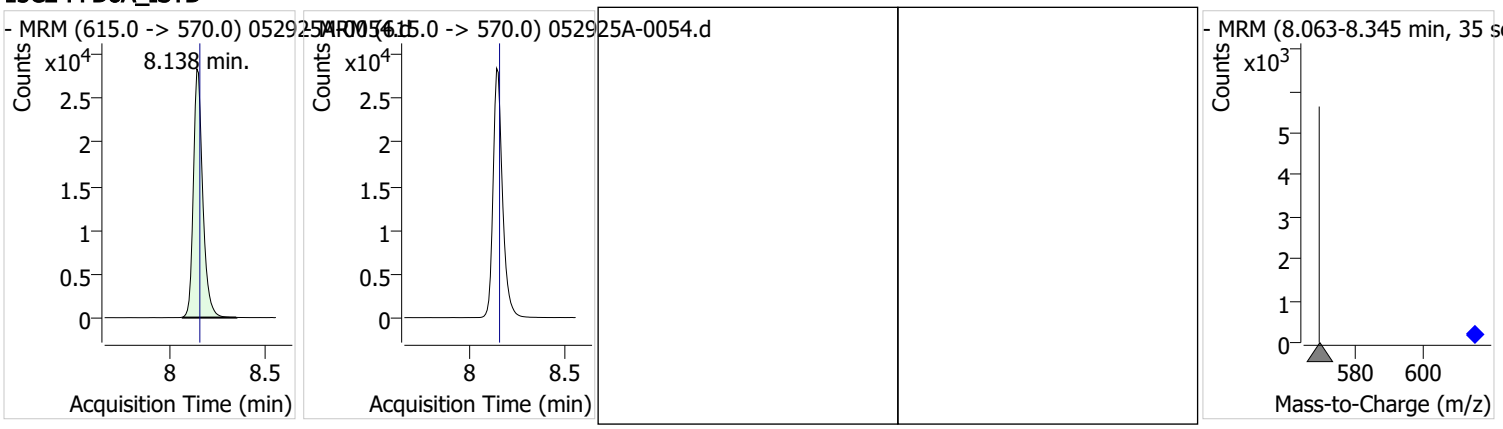
13C9-PFNA_ISTD



13C3-PFBS



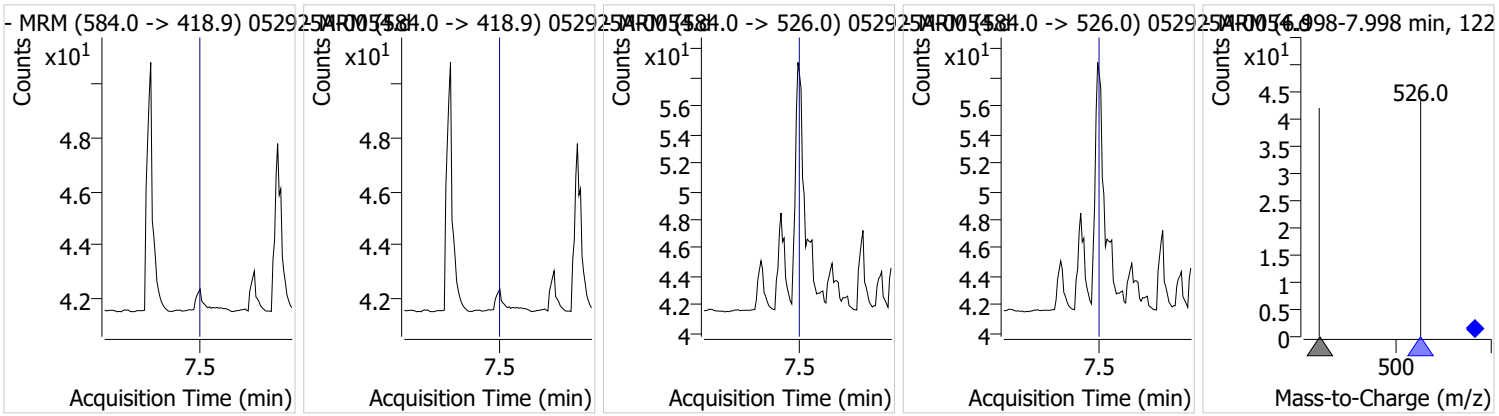
13C2-PFDoA_ISTD



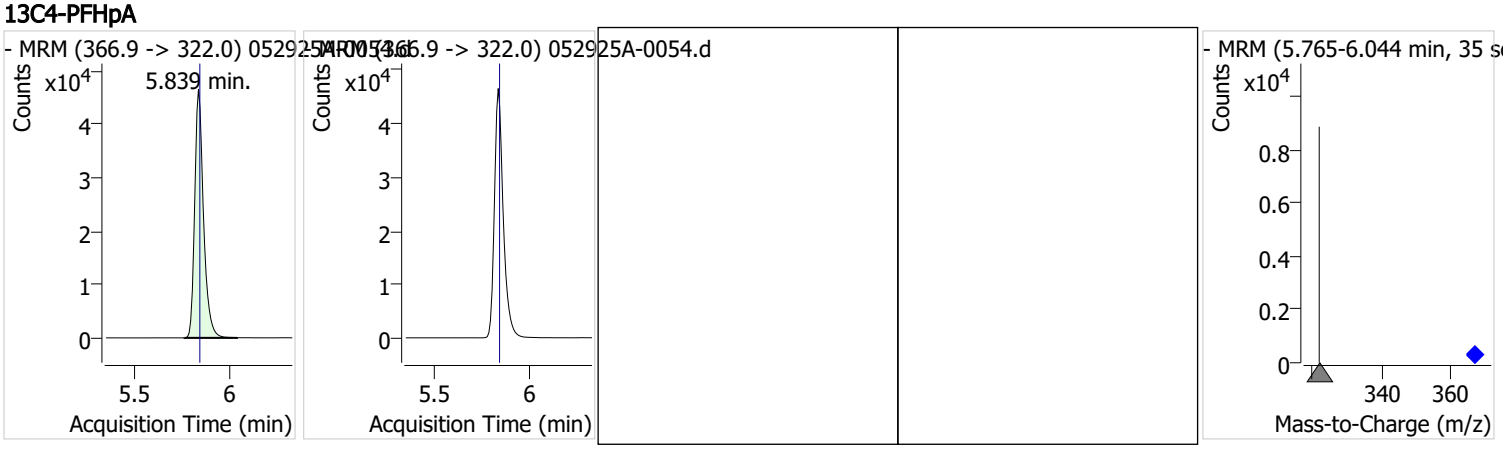
13C3-PFHxS



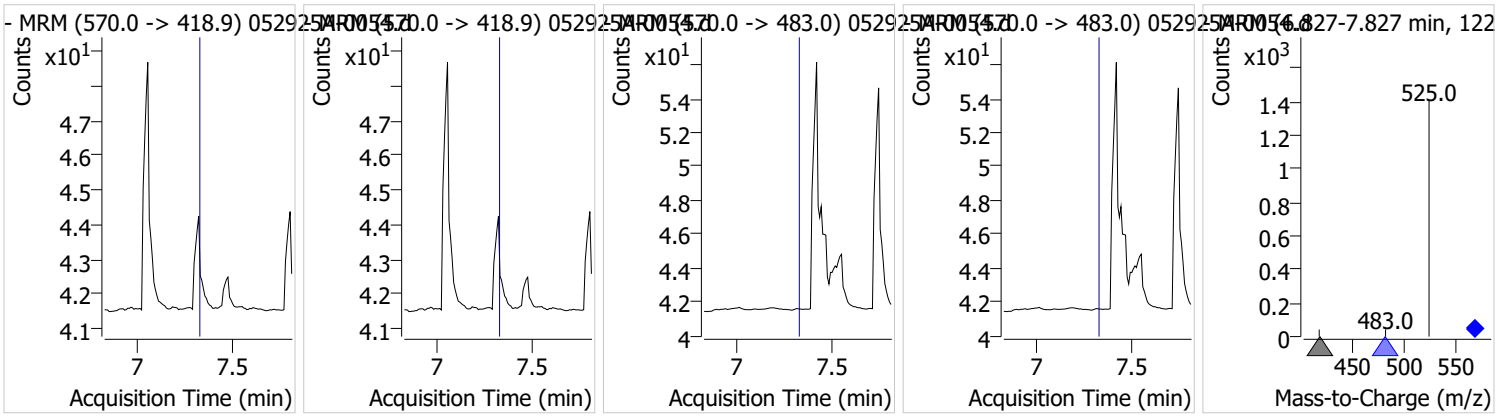
NEtFOSAA



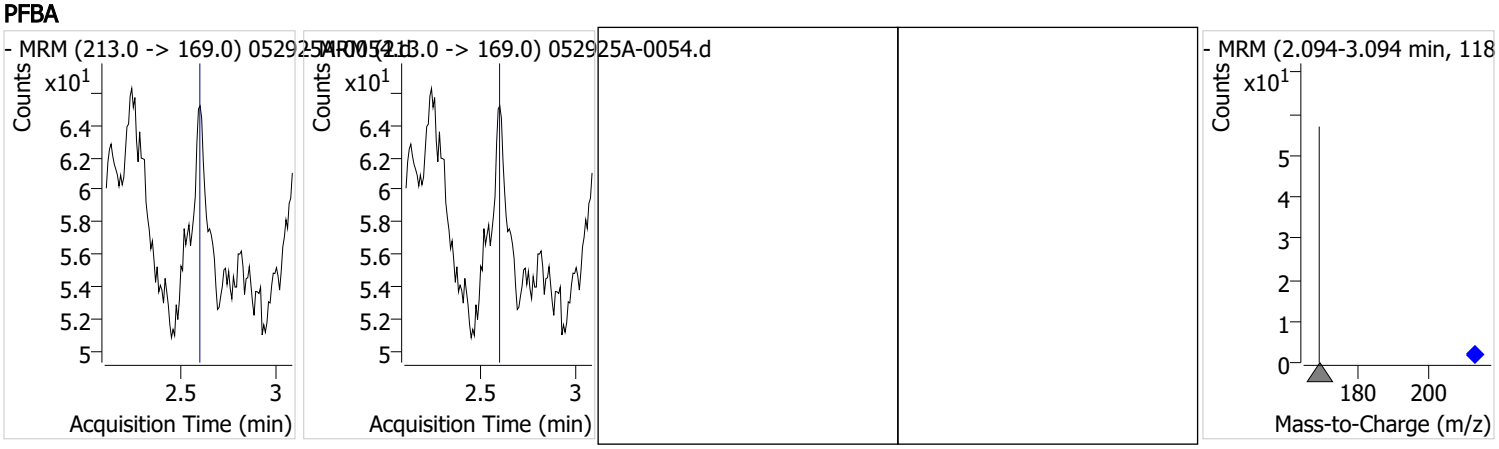
13C4-PFHpA



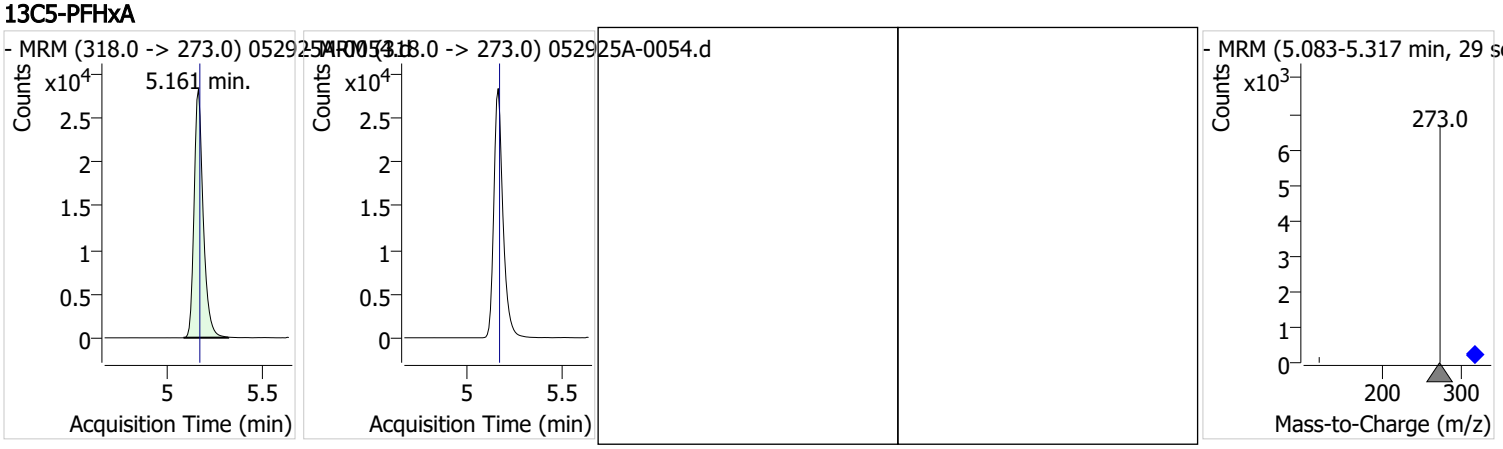
NMeFOSAA



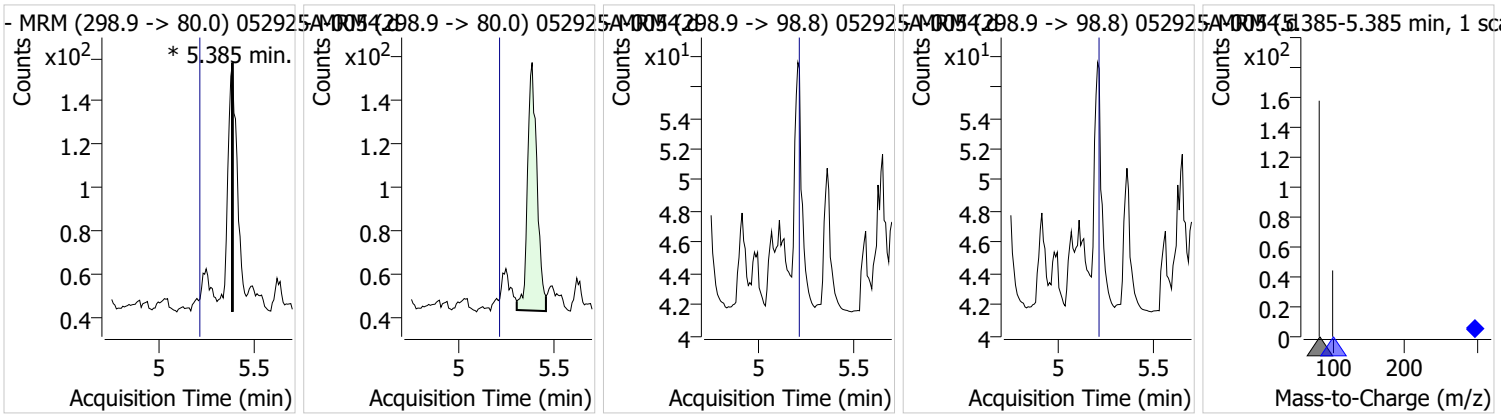
PFBA



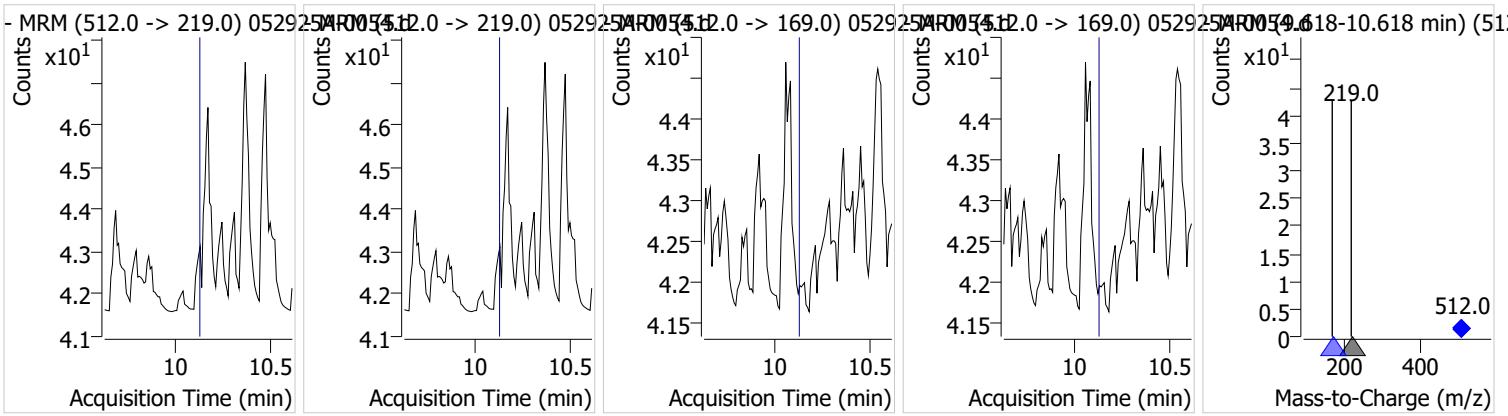
13C5-PFHxA



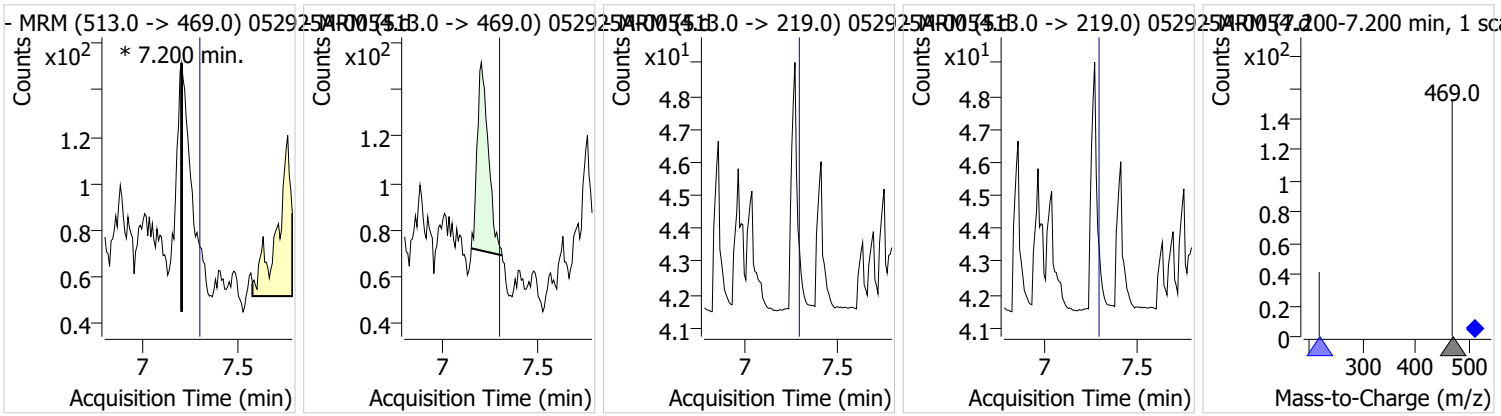
PFBS



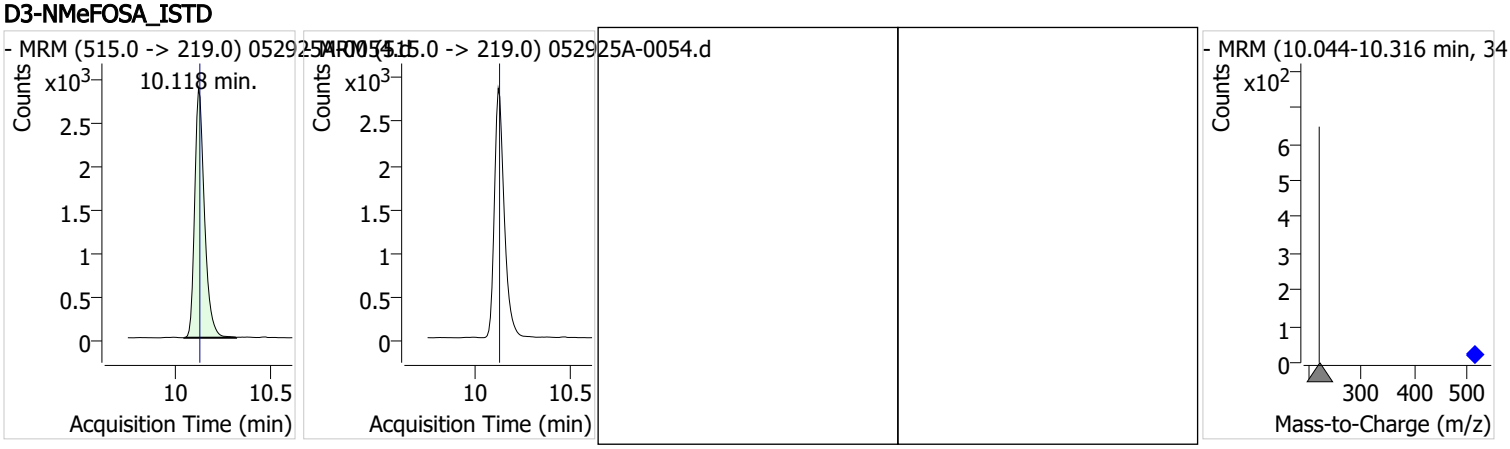
NMeFOSA



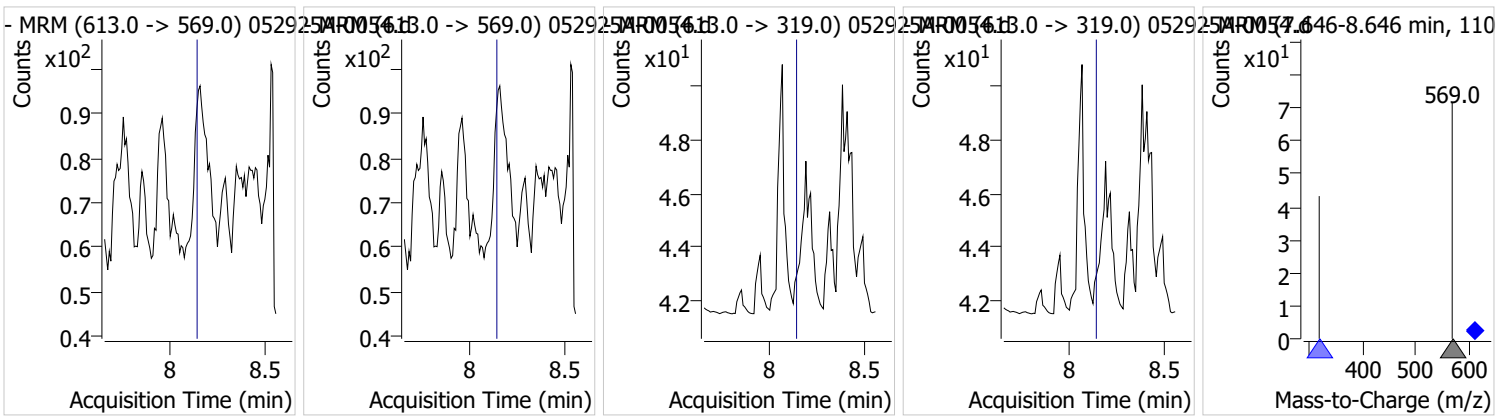
PFDA



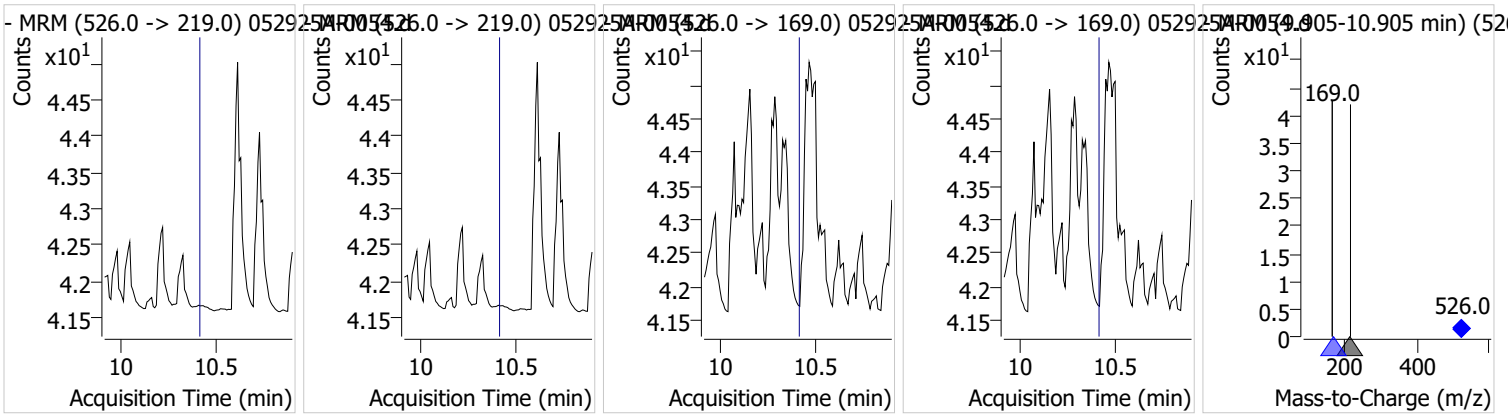
D3-NMeFOSA_ISTD



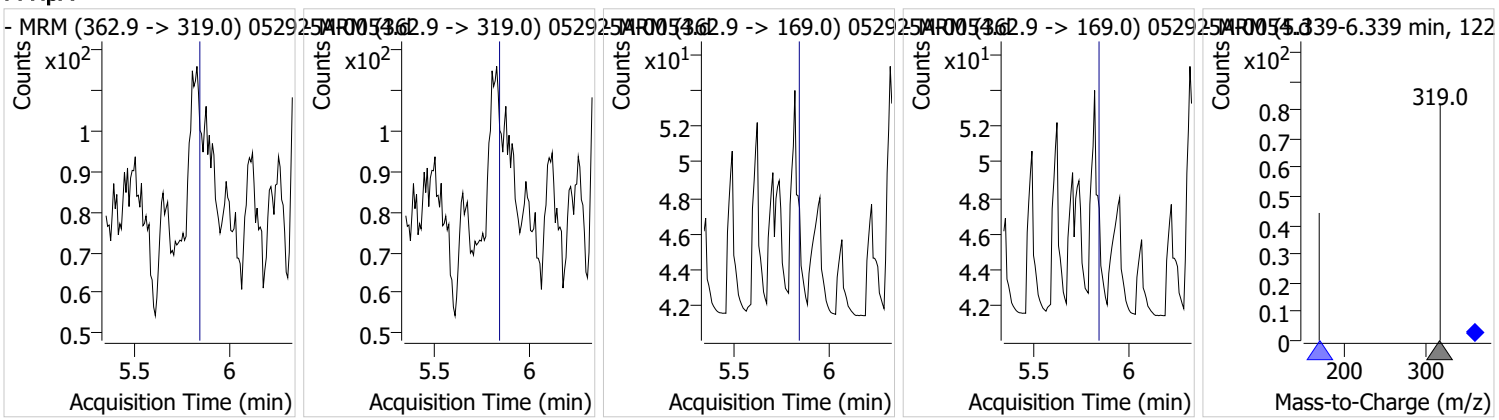
PFDoA



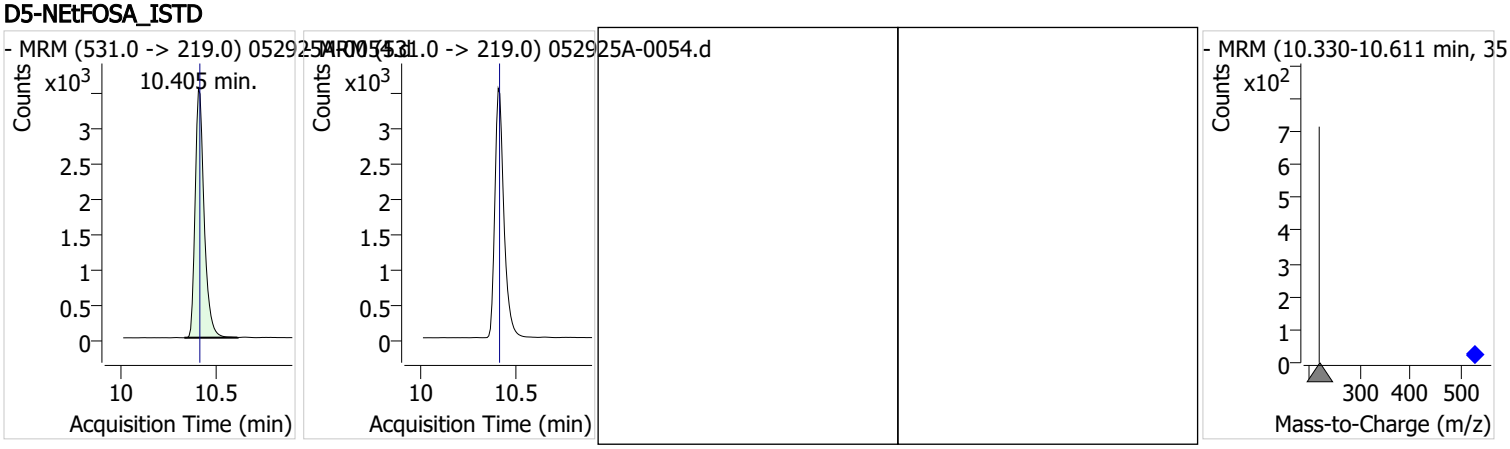
NEtFOSA



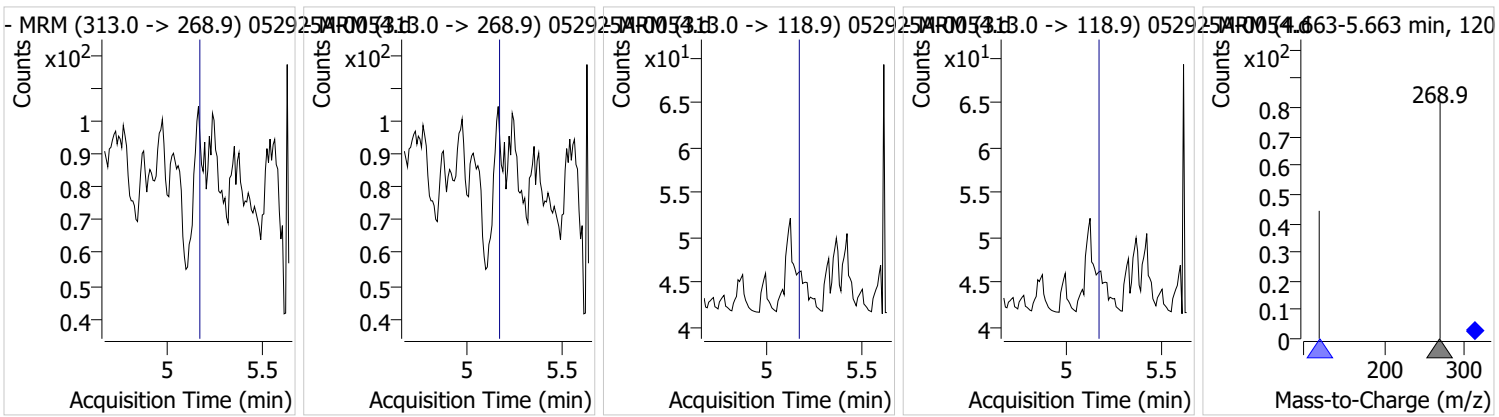
PFHpA



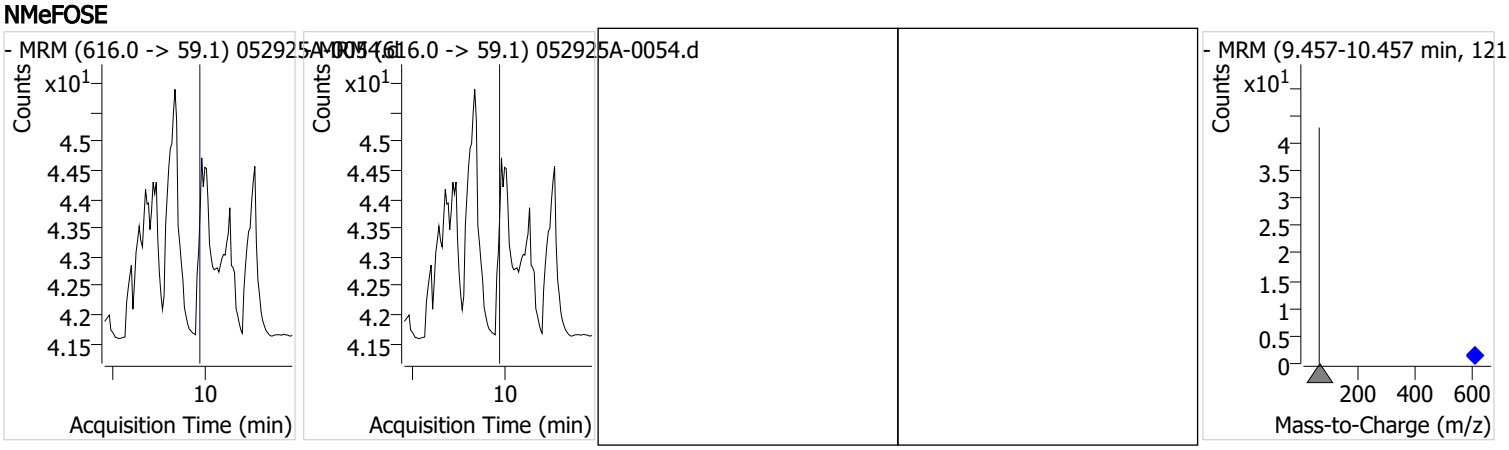
D5-NEtFOSA_ISTD



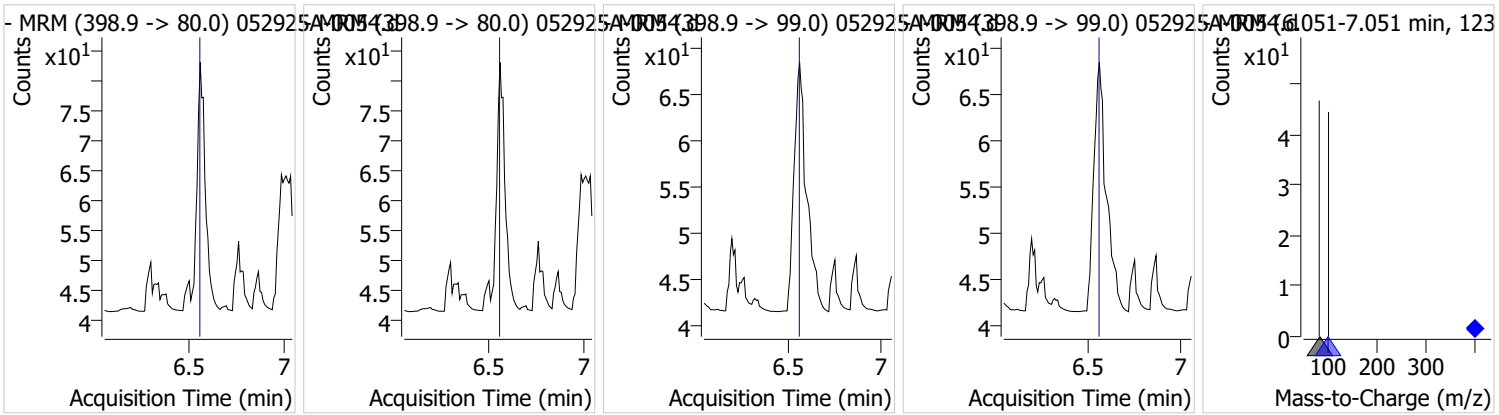
PFHxA



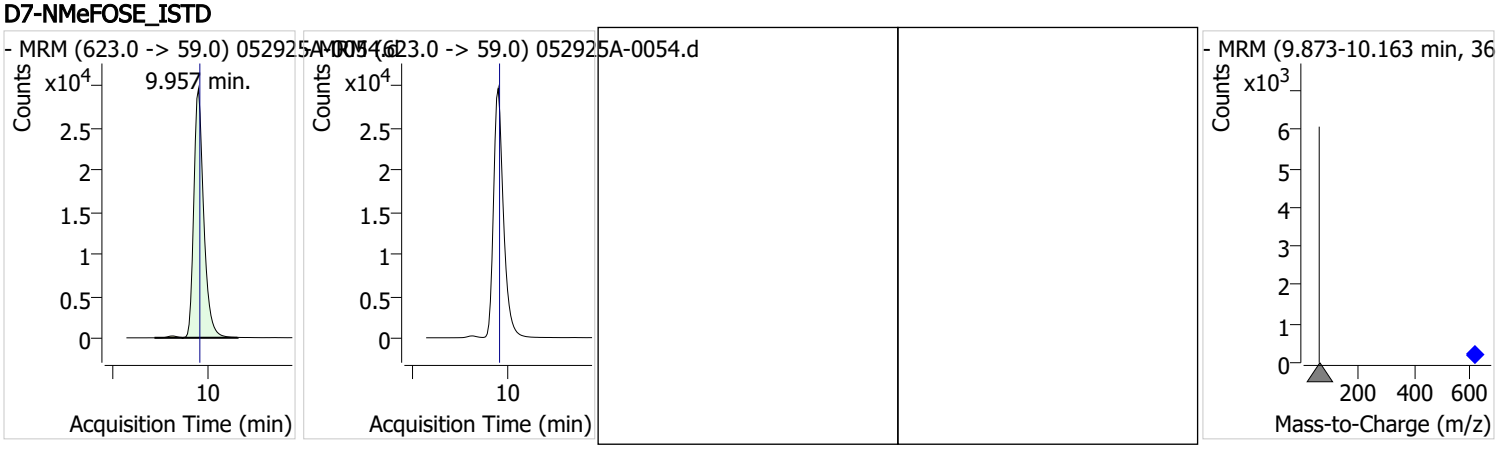
NMeFOSE



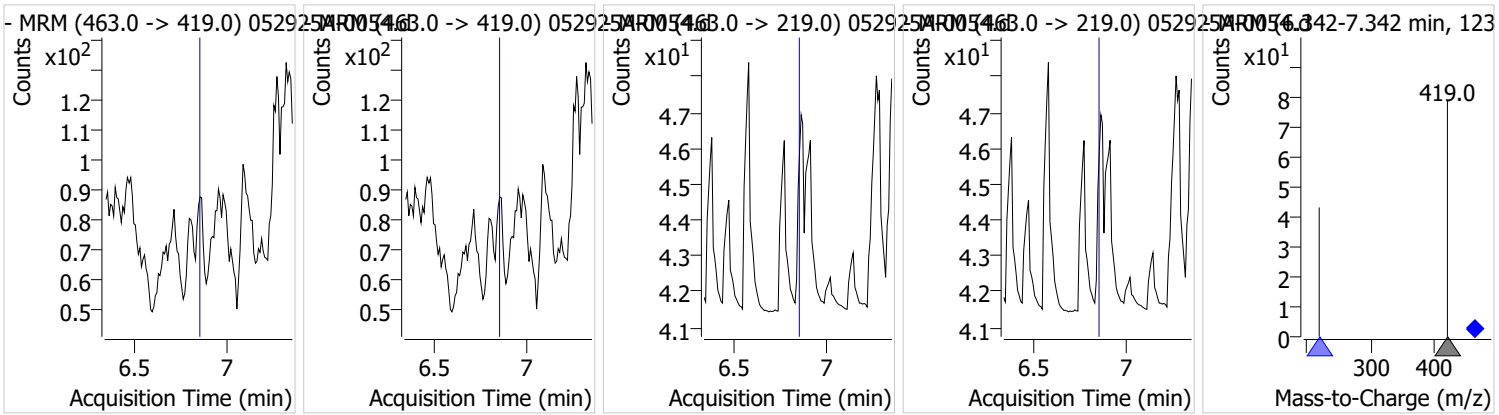
PFHxS



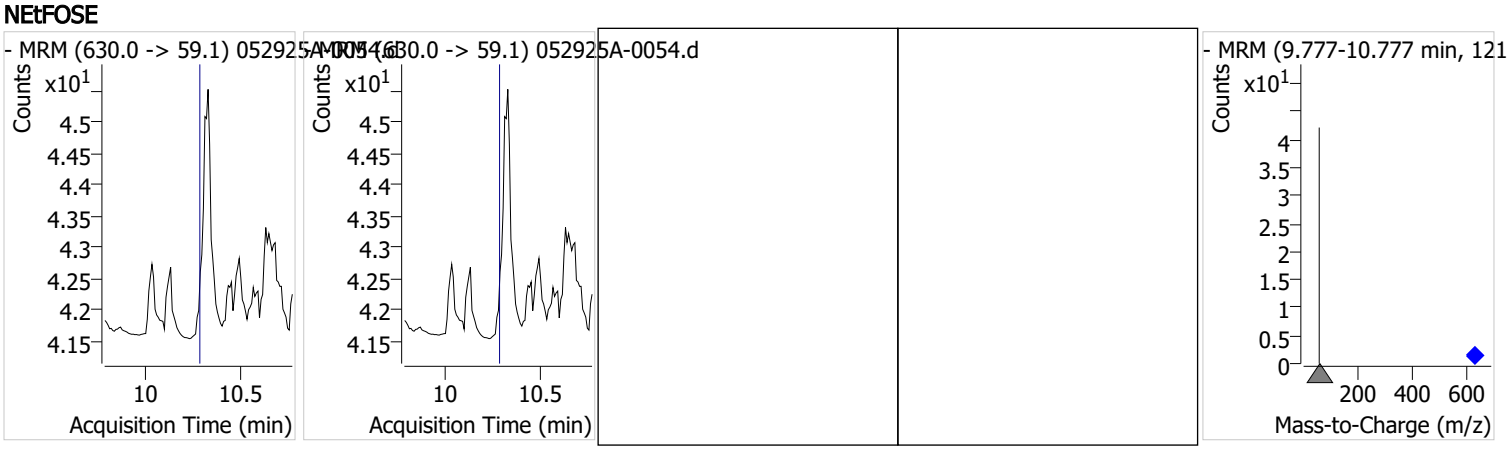
D7-NMeFOSE_ISTD



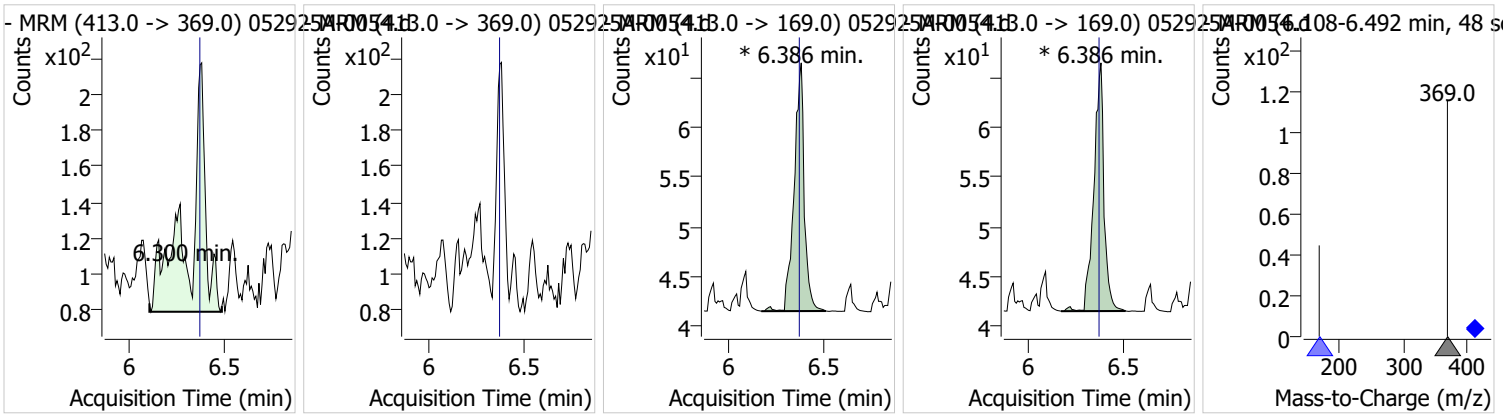
PFNA



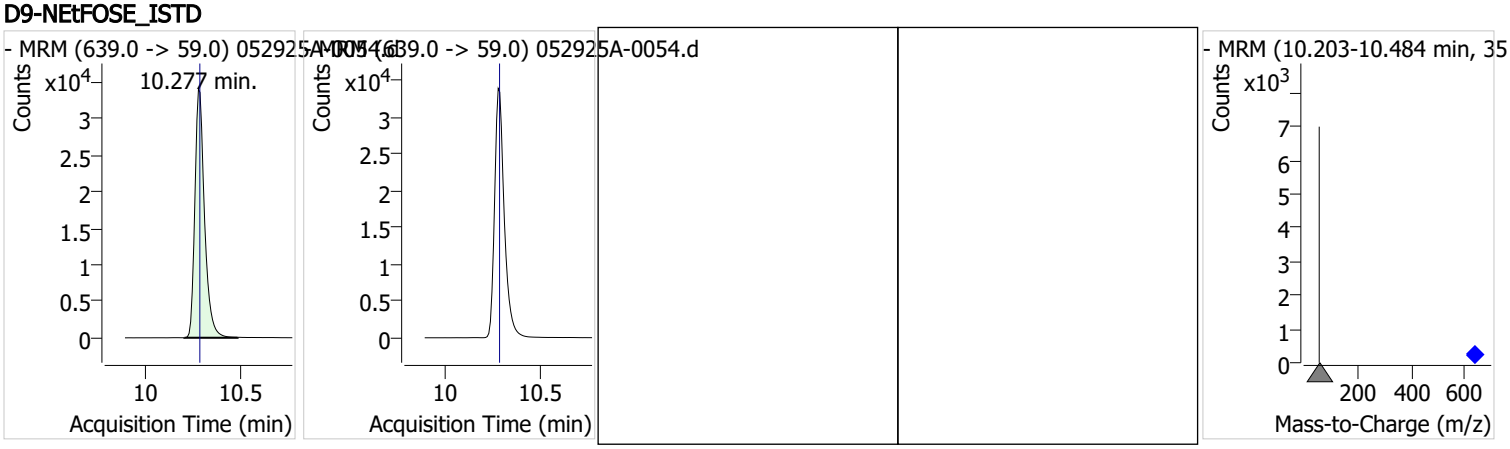
NEtFOSE



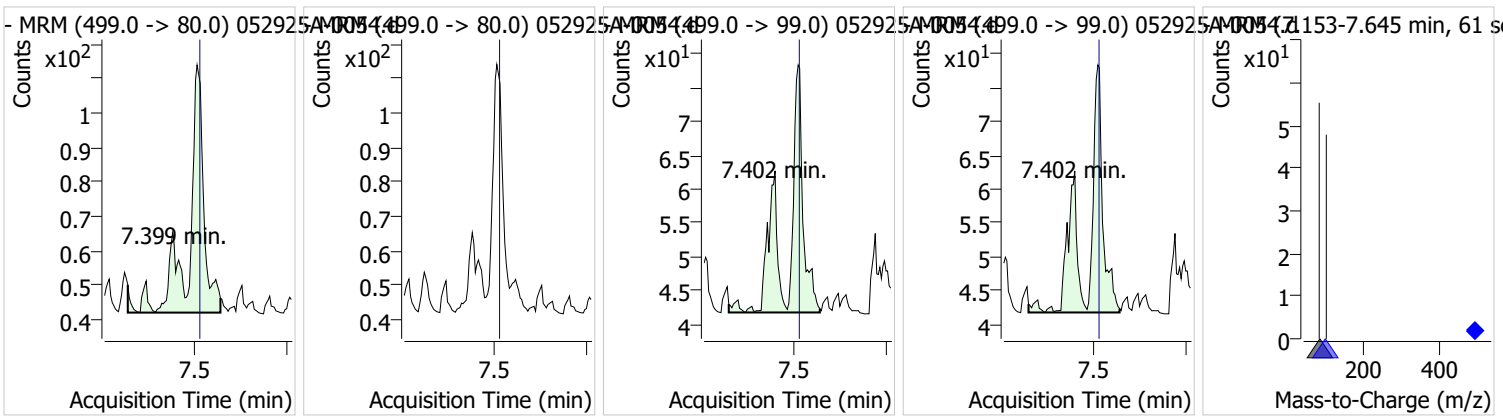
PFOA



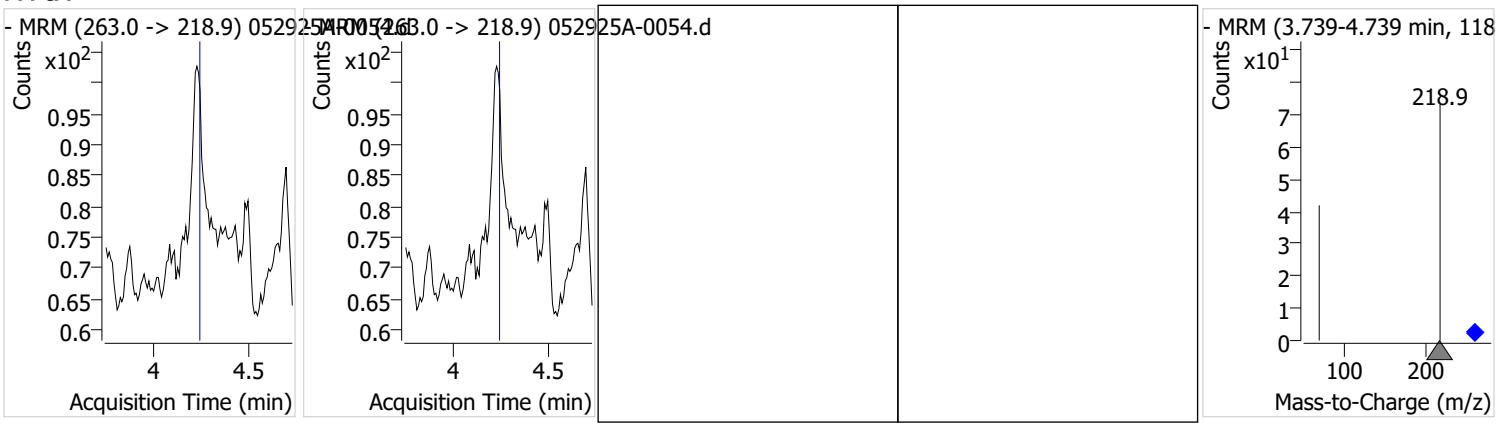
D9-NEtFOSE_ISTD



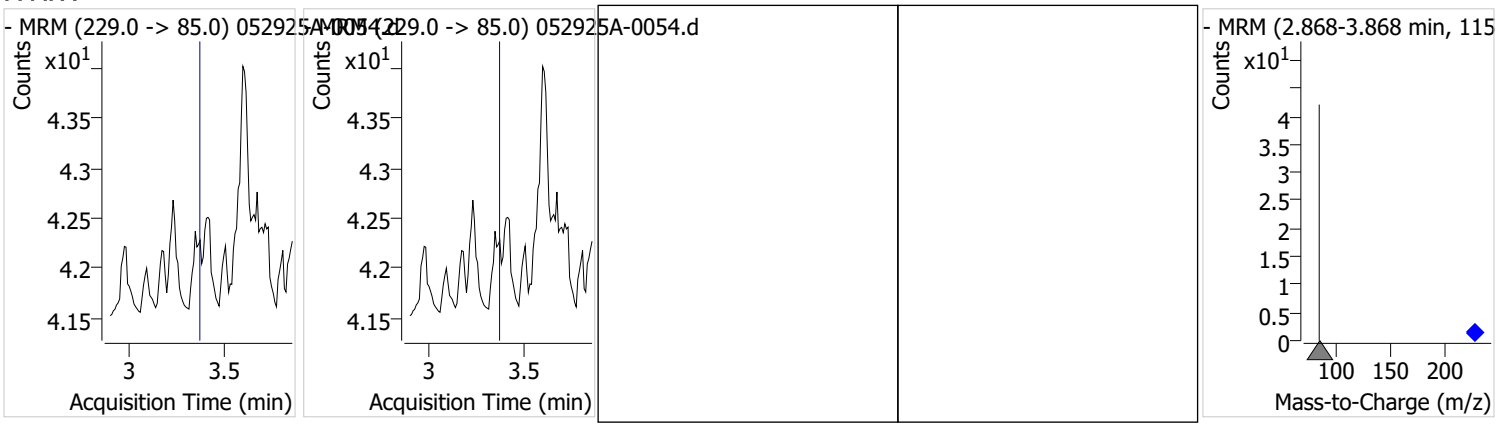
PFOS



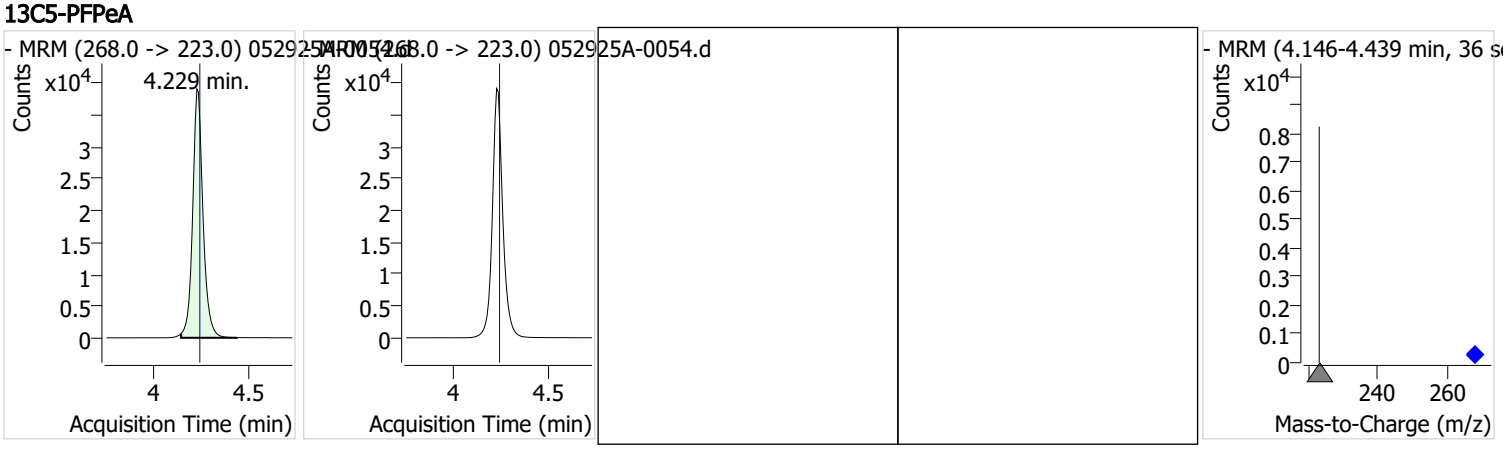
PFPeA



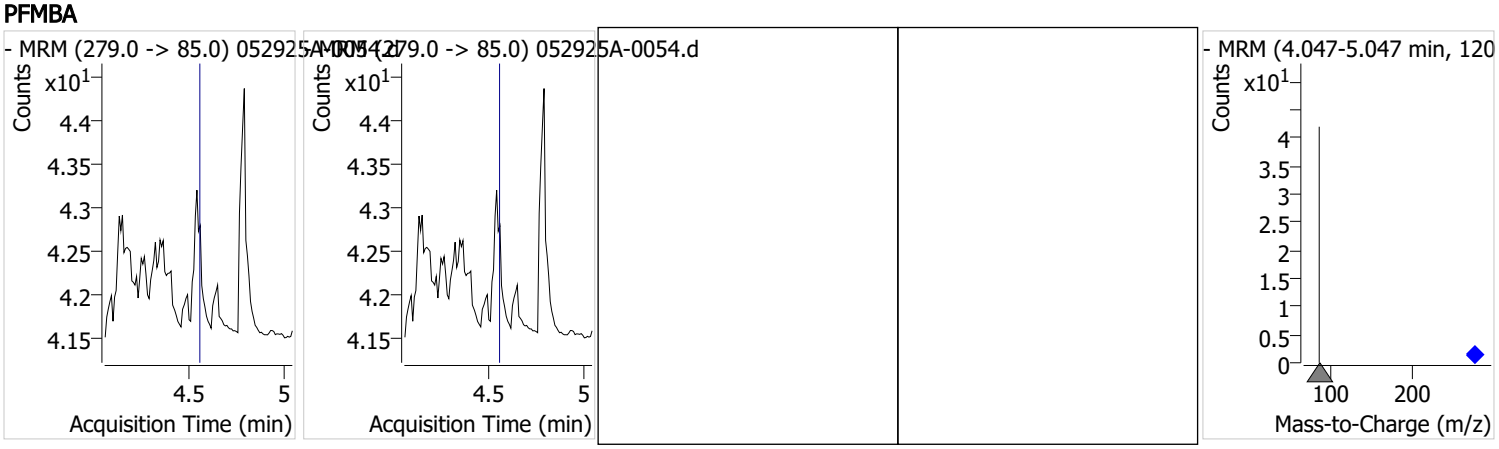
PFMPA



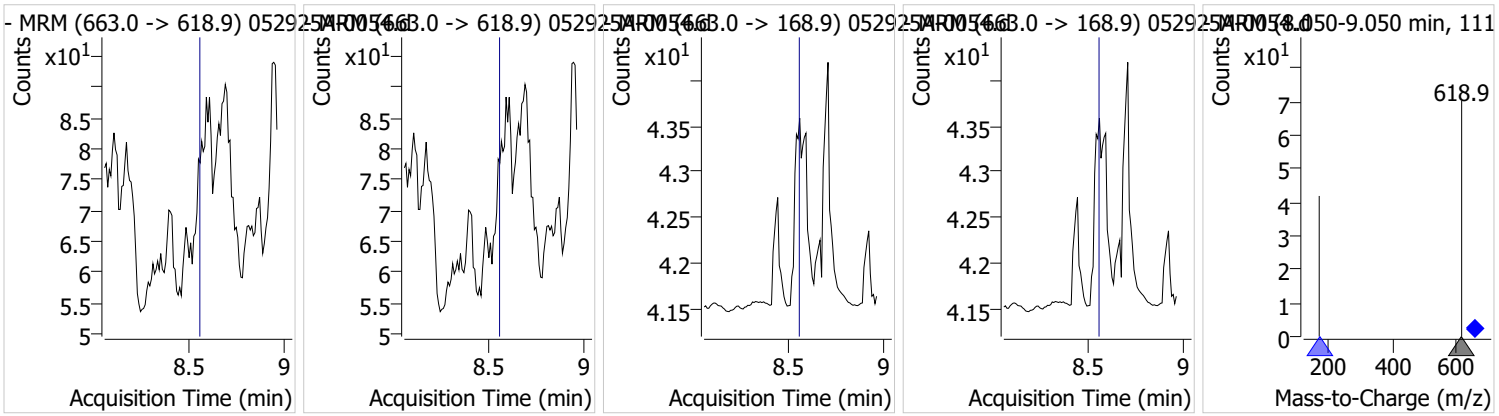
13C5-PFPeA



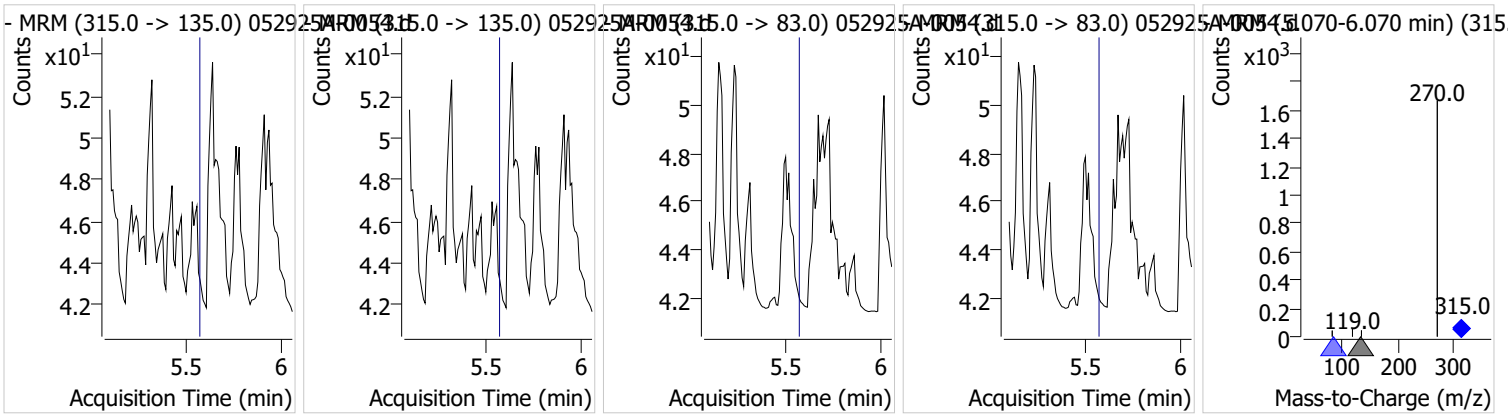
PFMBA



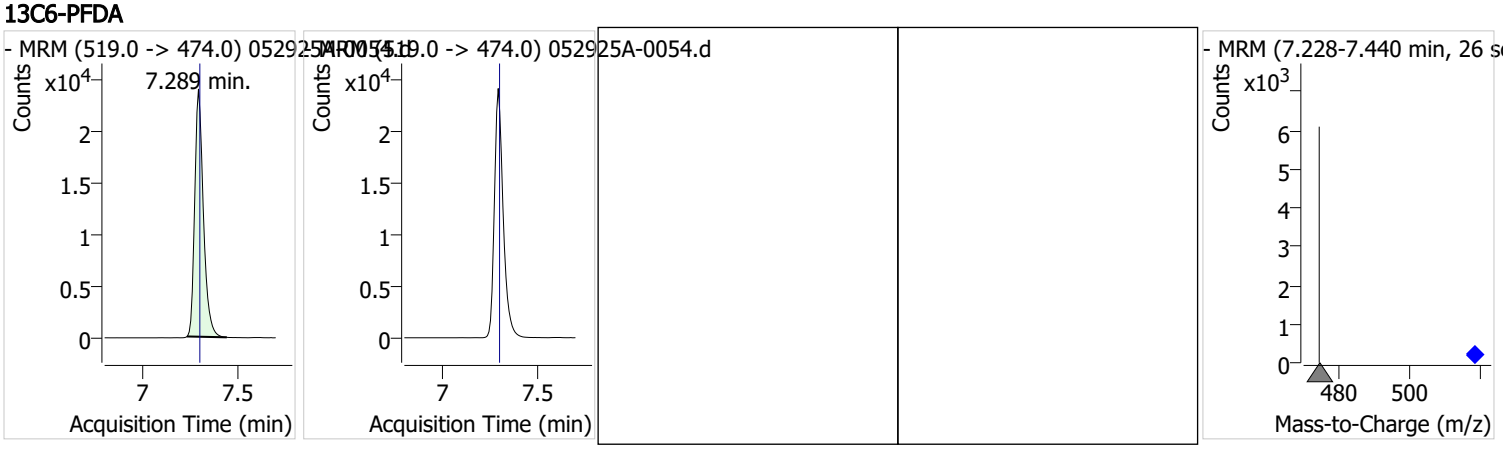
PFTrDA



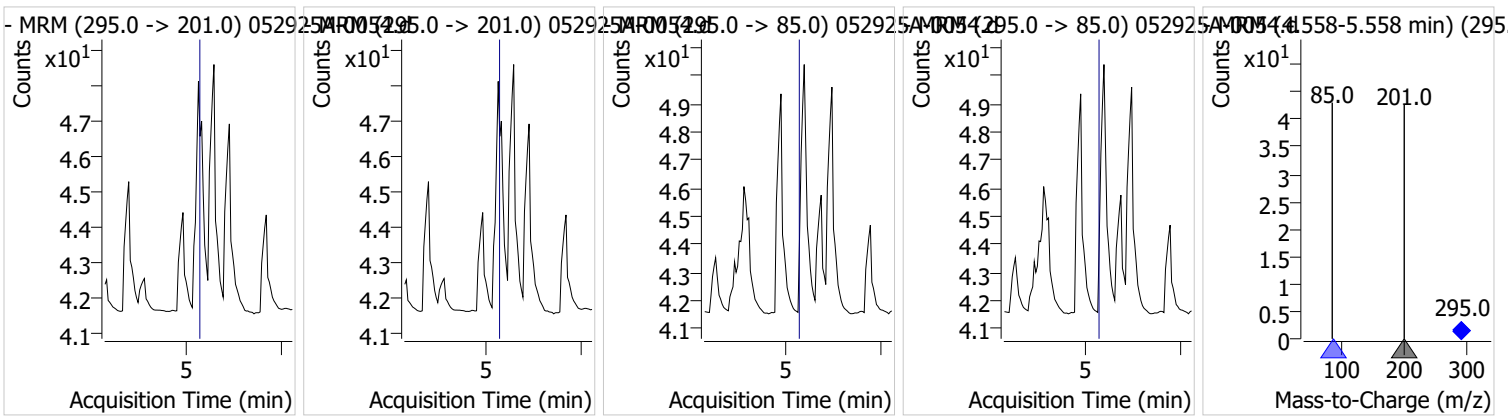
PFEESA



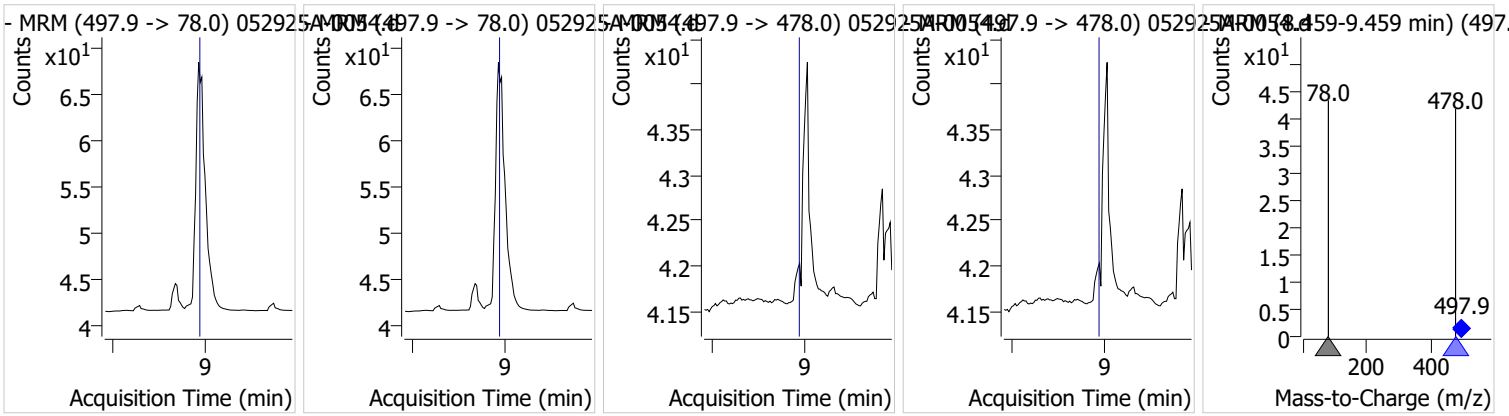
13C6-PFDA



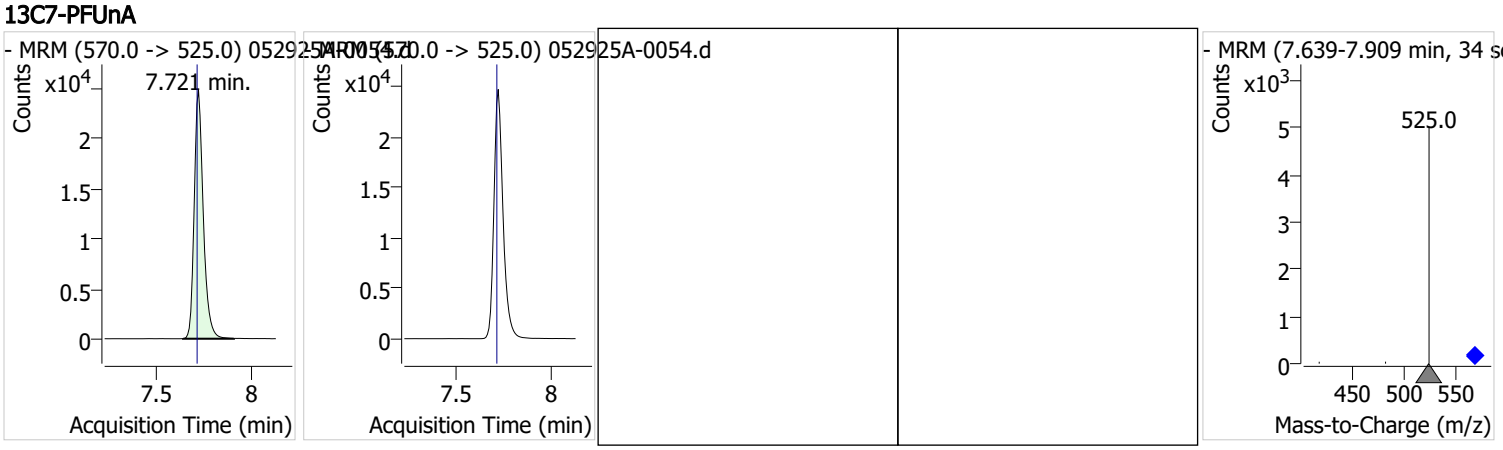
NFDHA



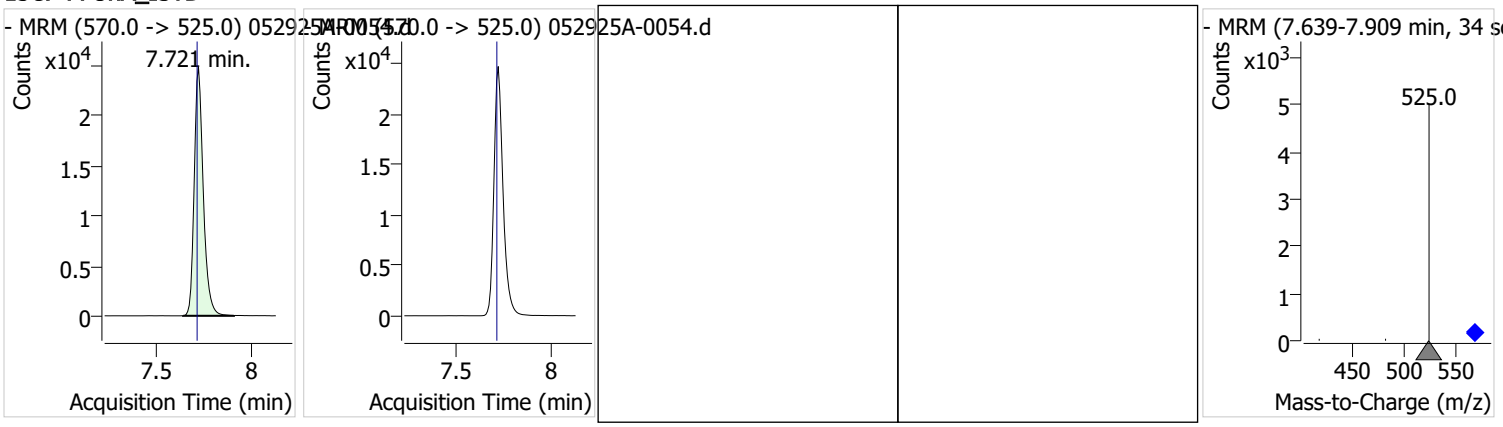
PFOSA



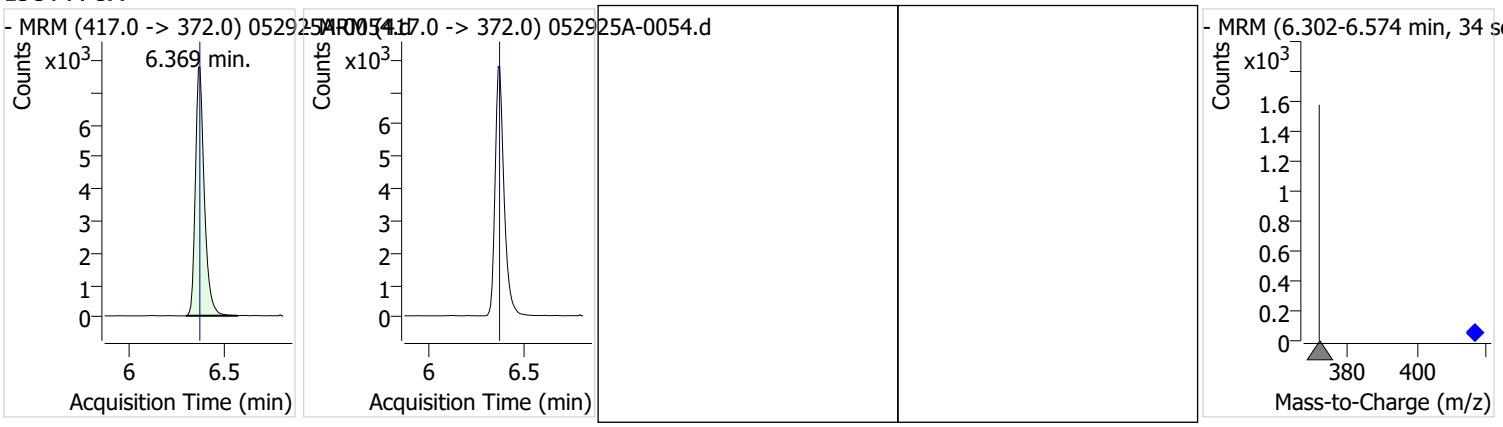
13C7-PFUnA



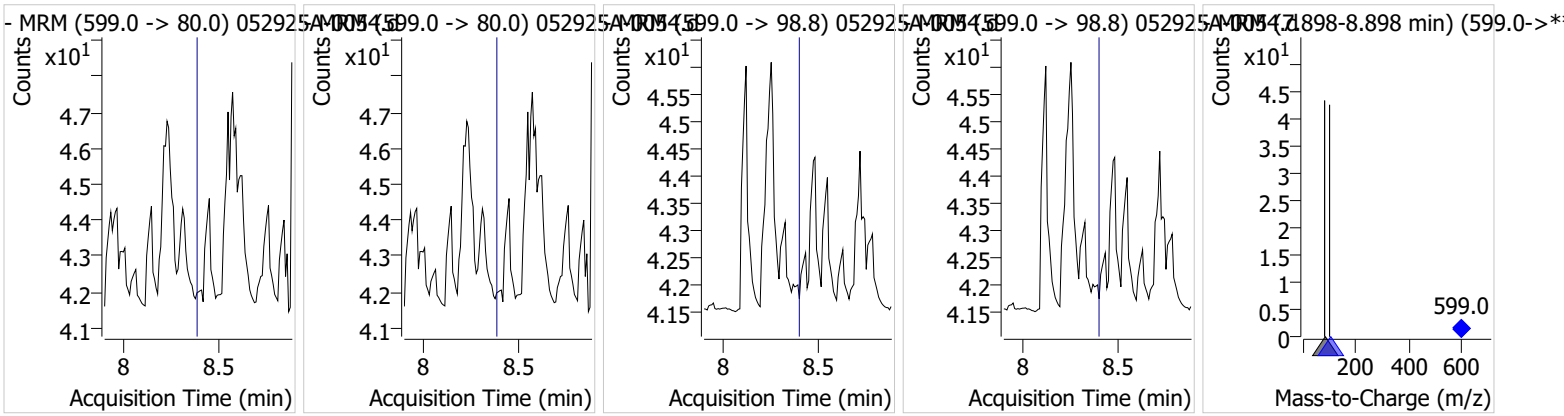
13C7-PFUnA_ISTD



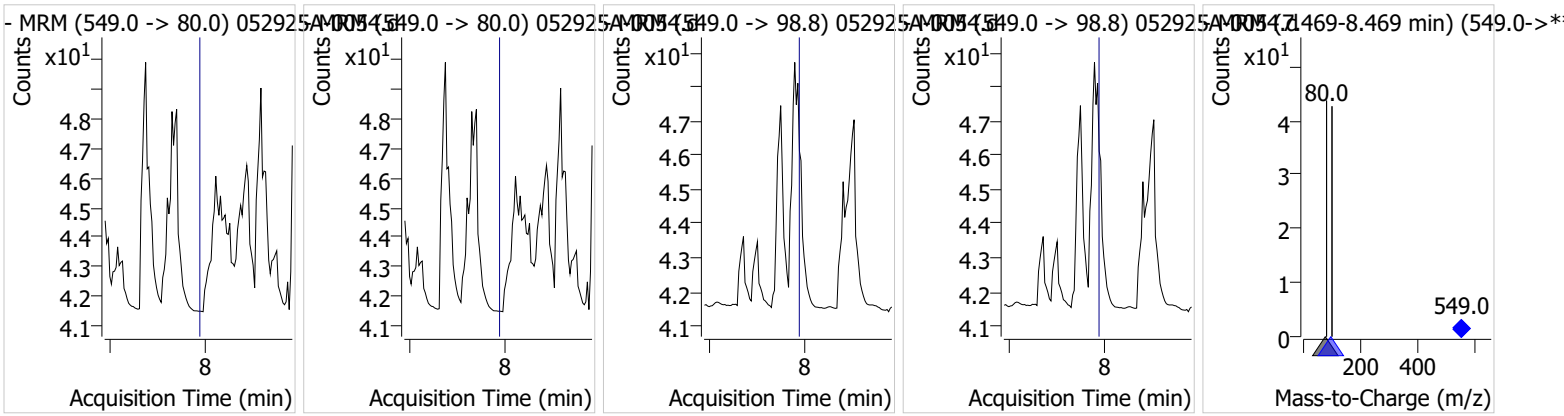
13C4-PFOA



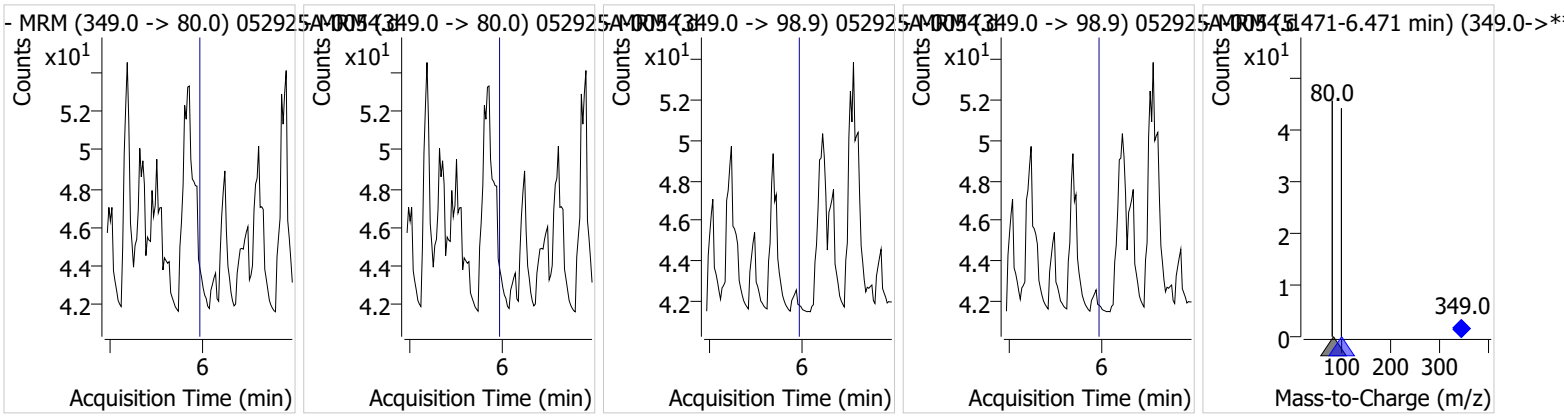
PFDS



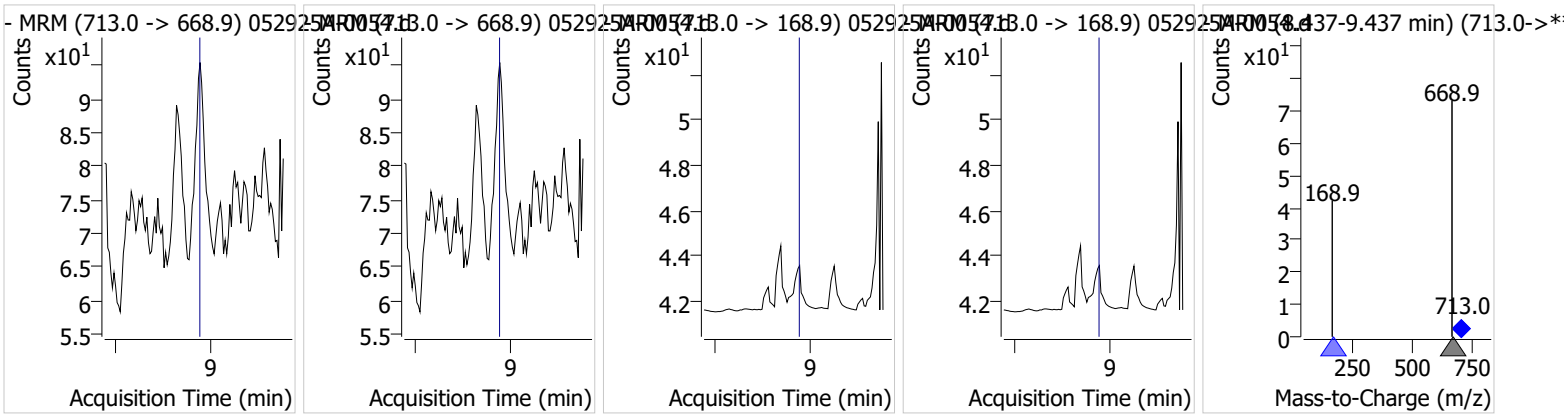
PFNS



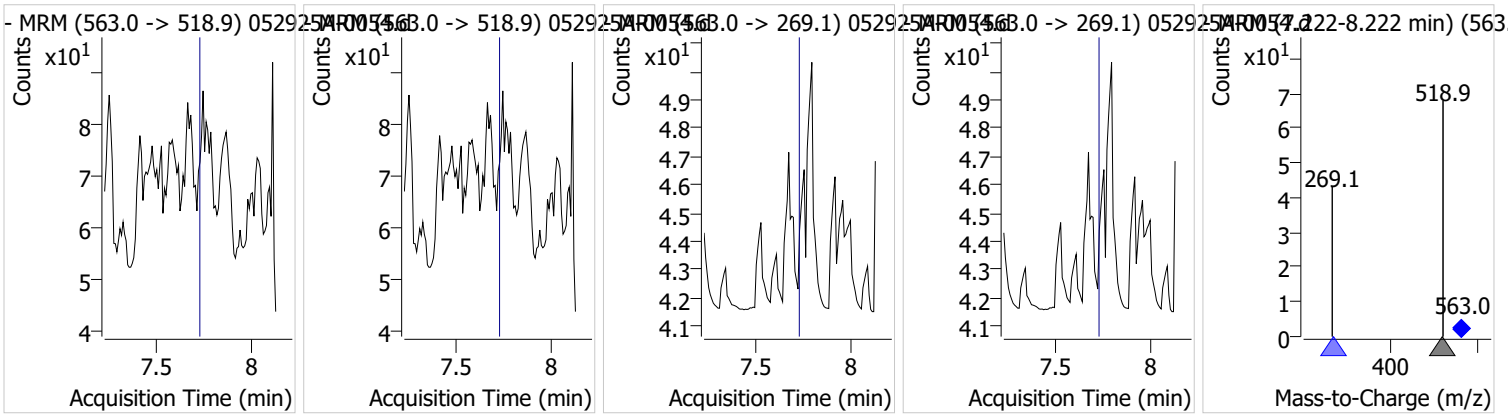
PFPeS



PFTeDA



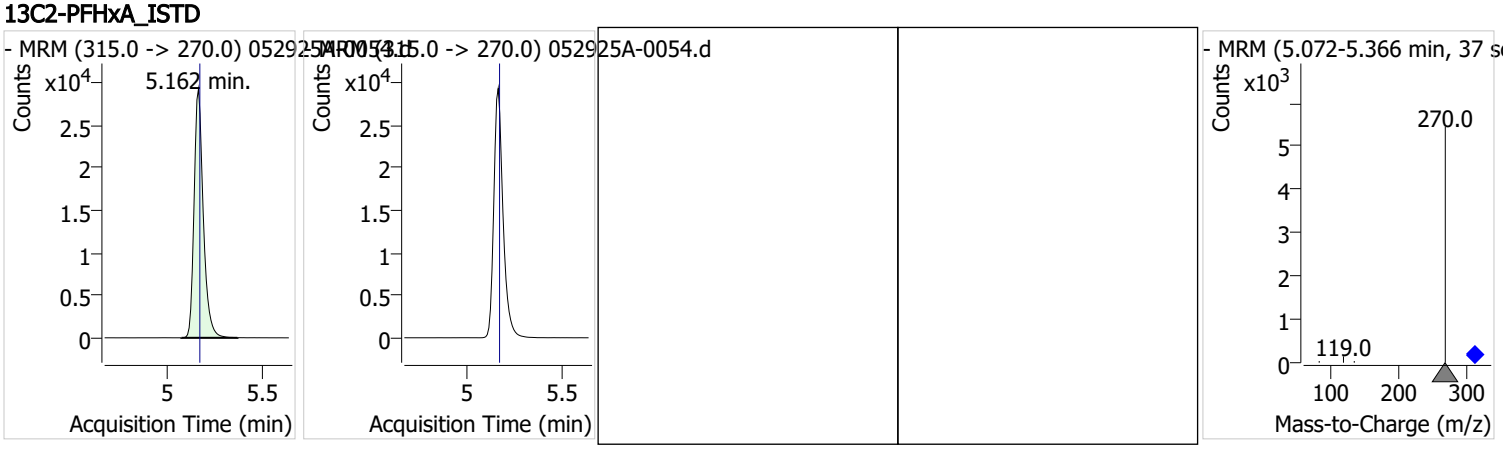
PFUnA



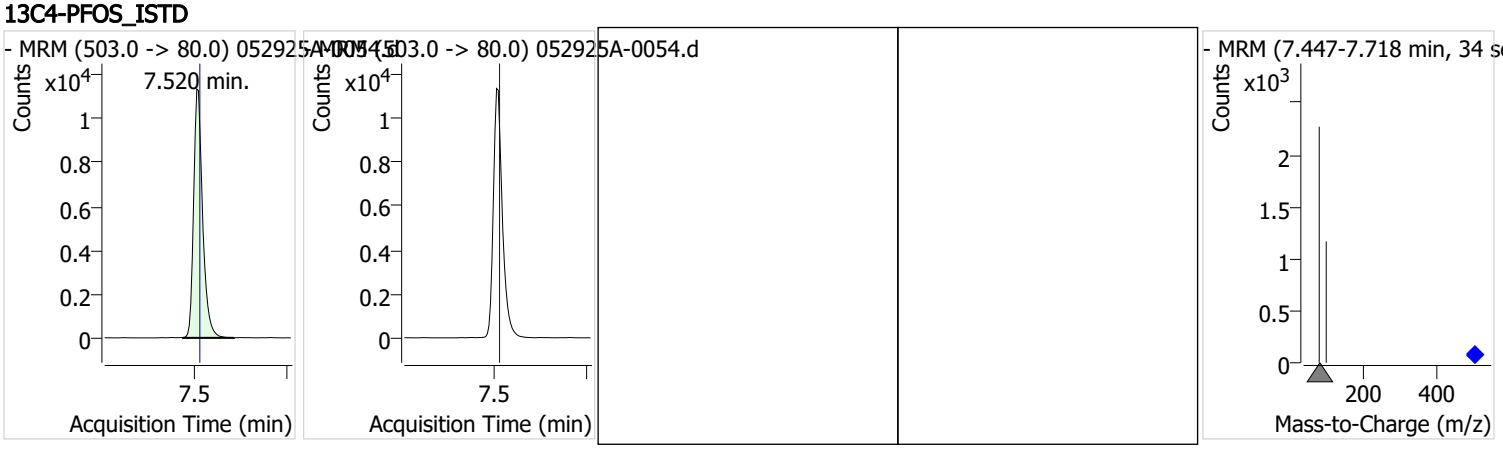
13C2-PFDA_ISTD



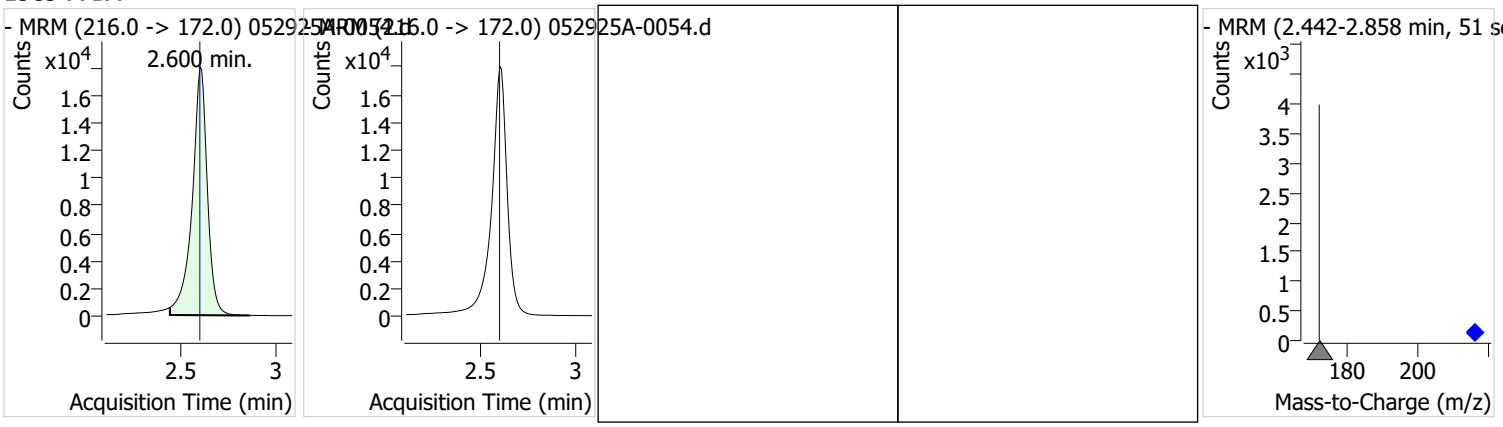
13C2-PFHxA_ISTD



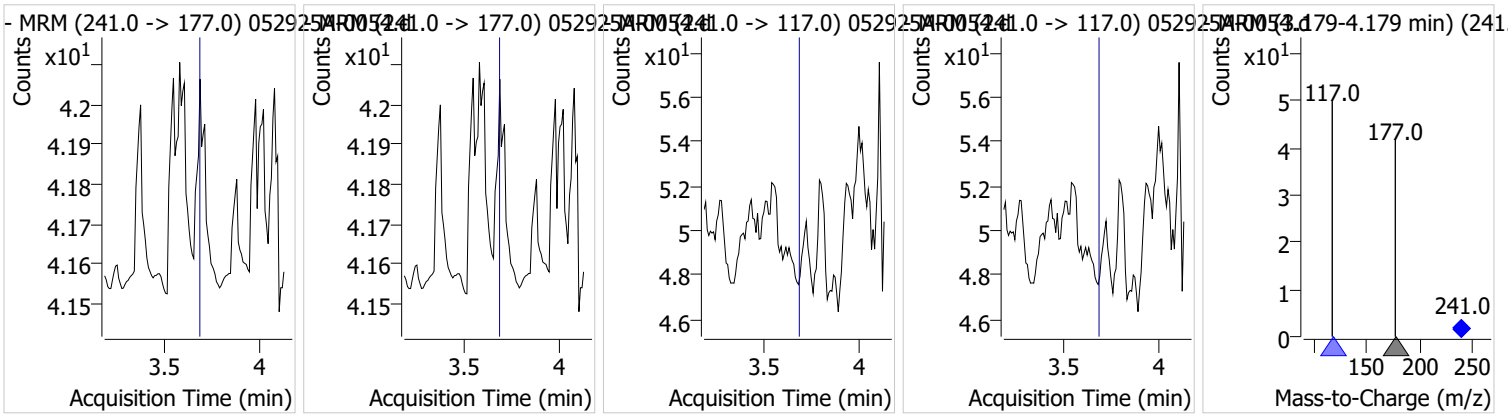
13C4-PFOS_ISTD



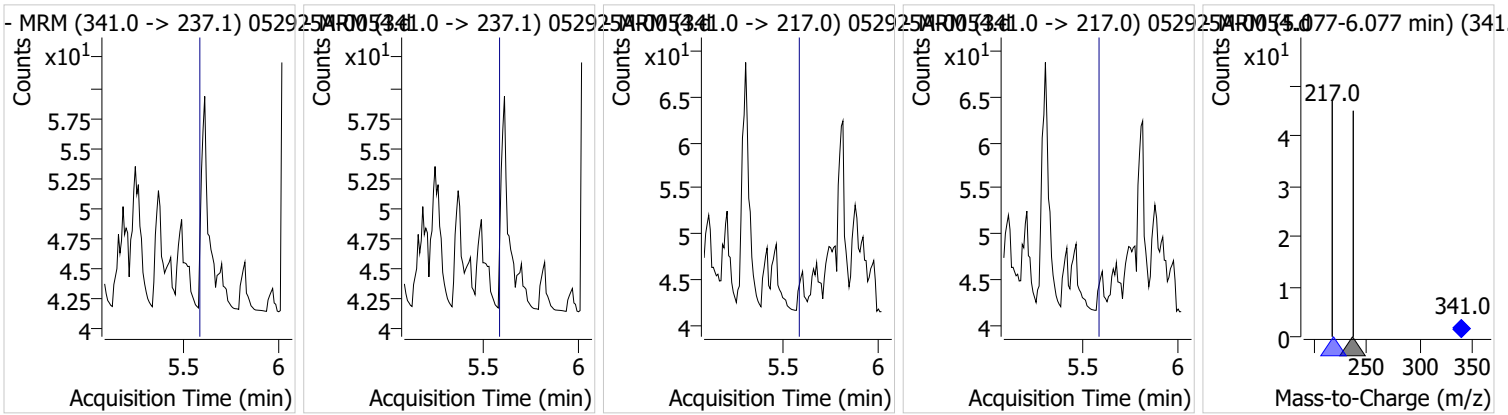
13C3-PFBA



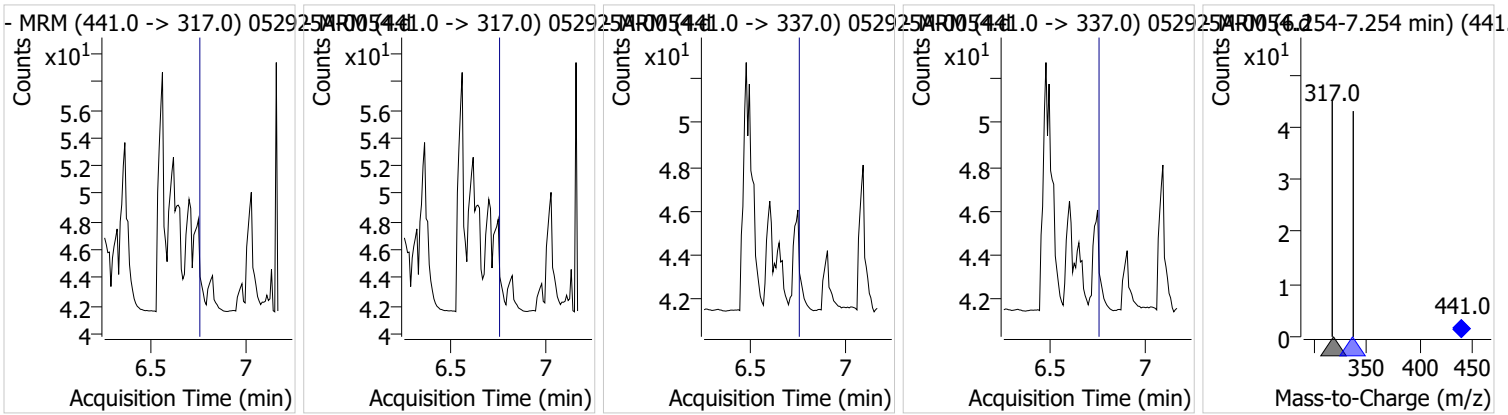
3:3FTCA



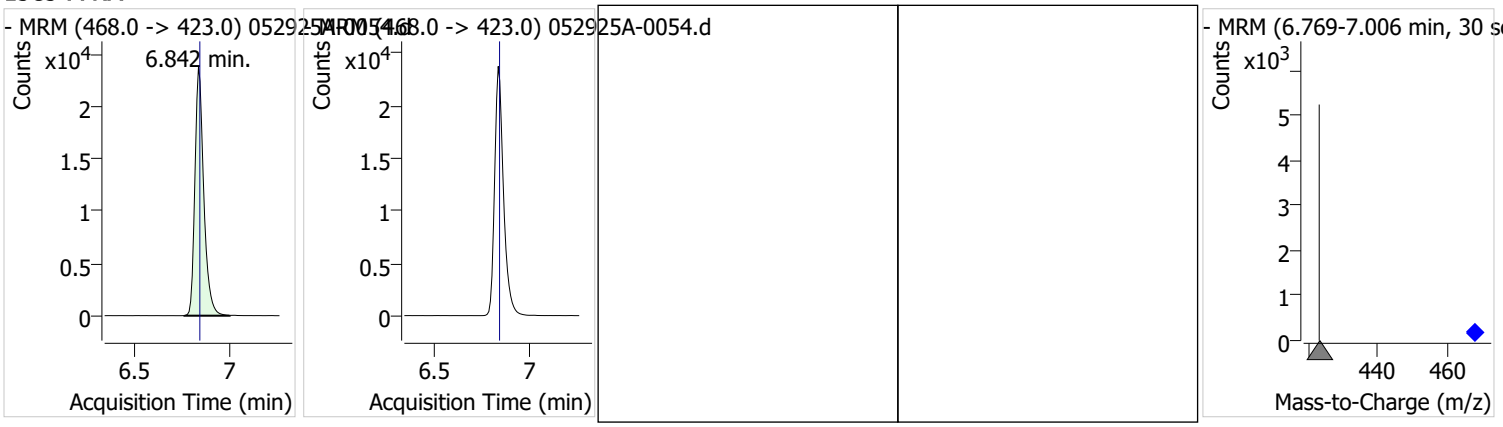
5:3FTCA



7:3FTCA



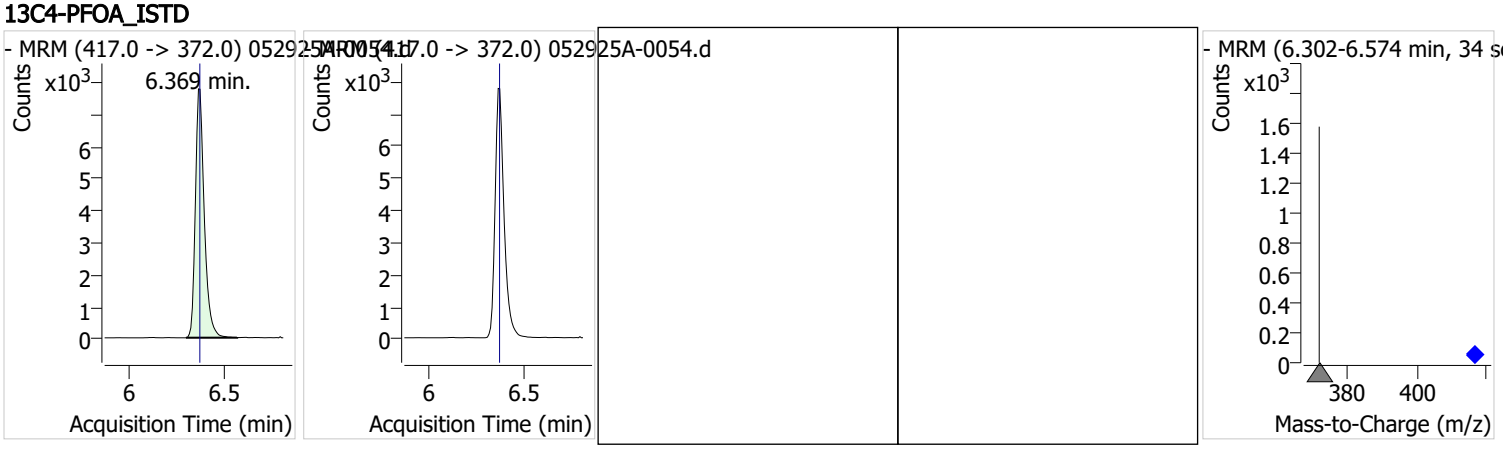
13C5-PFNA



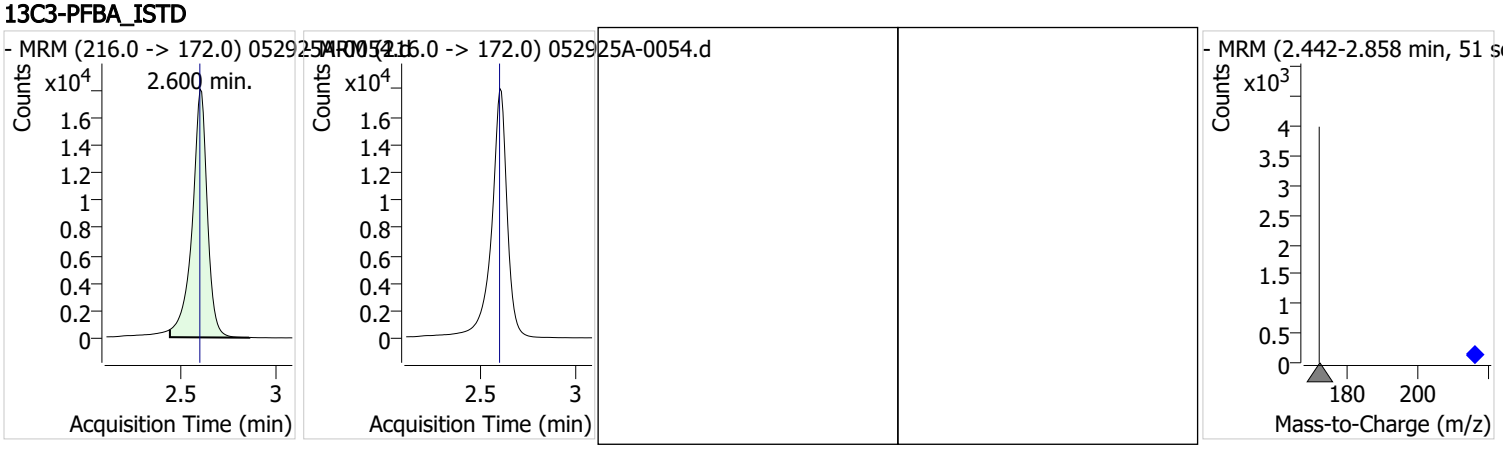
18O2-PFHxS



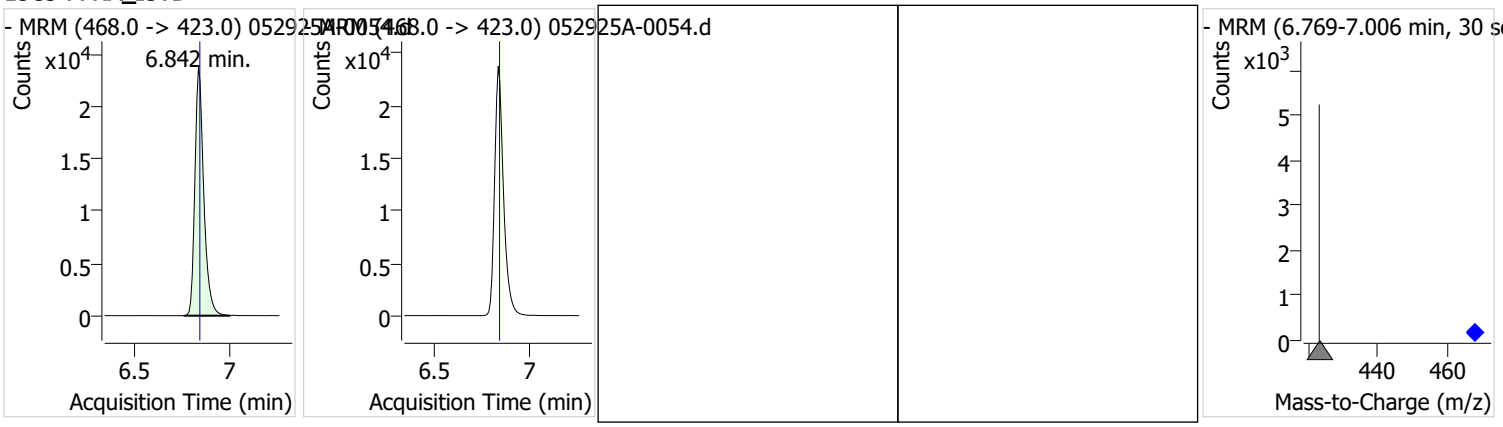
13C4-PFOA_ISTD



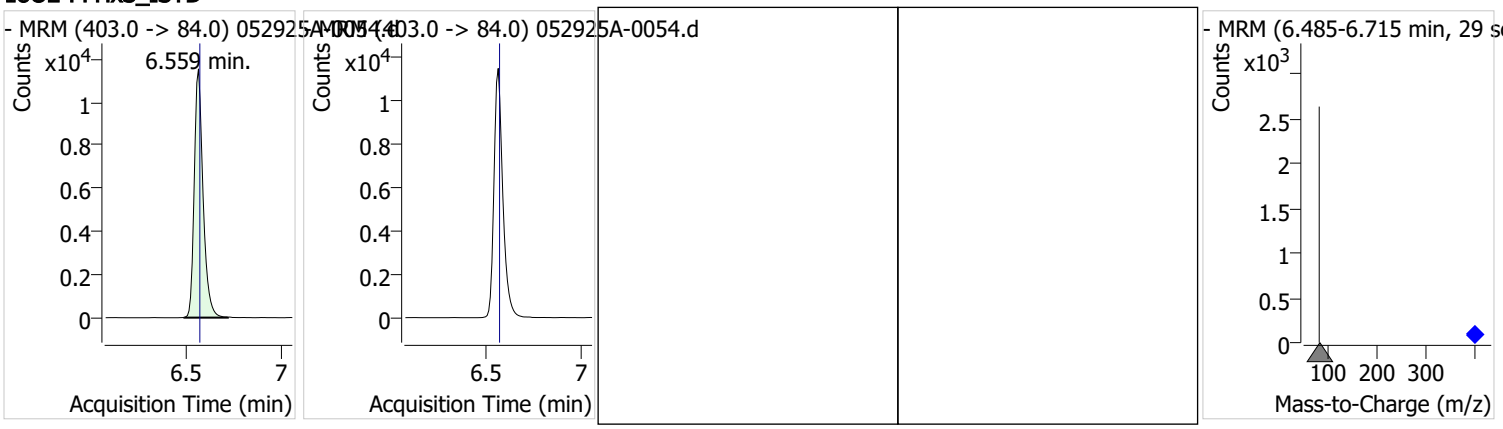
13C3-PFBA_ISTD



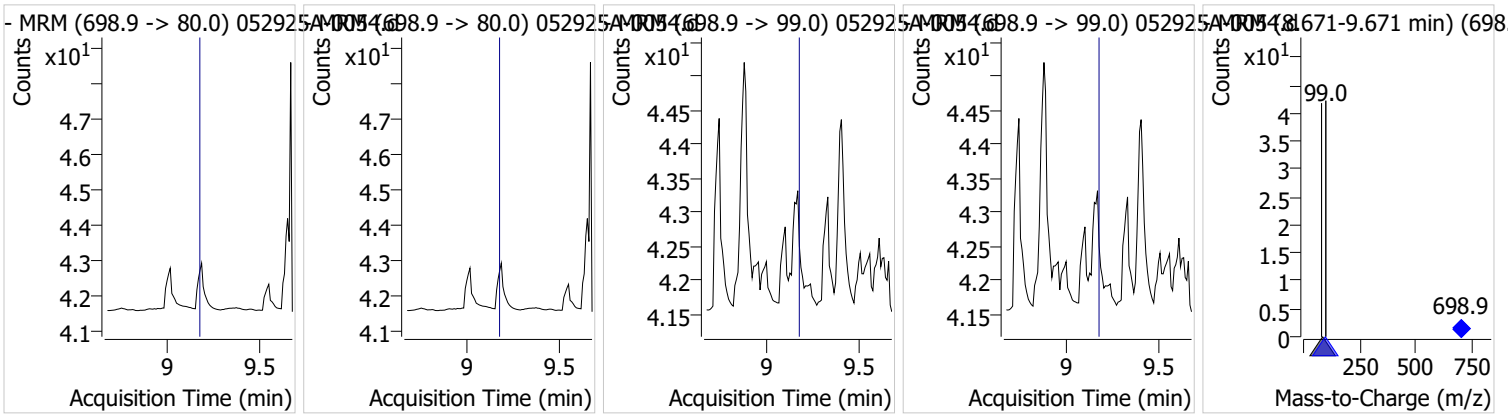
13C5-PFNA_ISTD



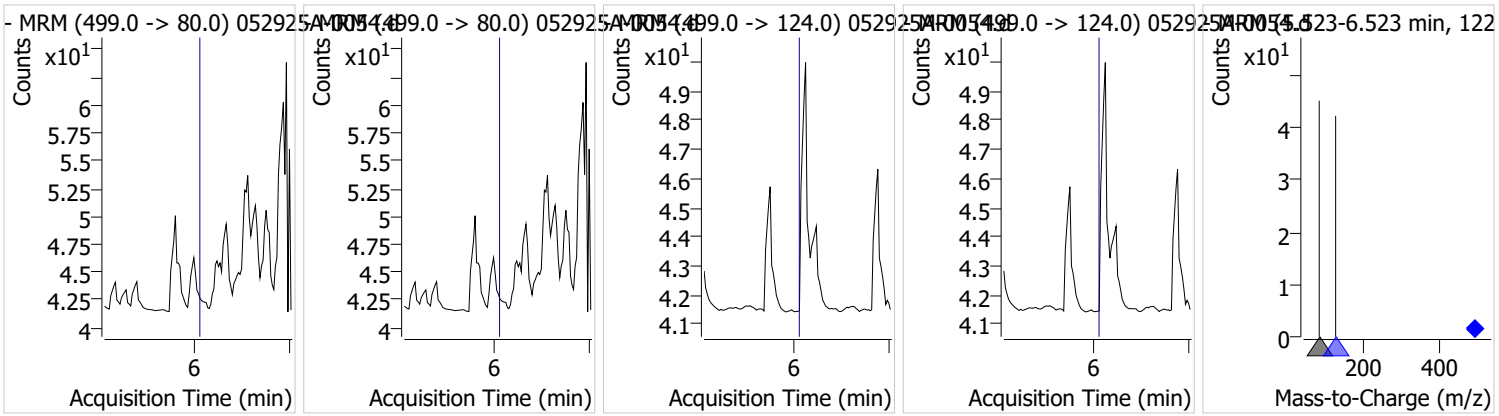
18O2-PFHxS_ISTD



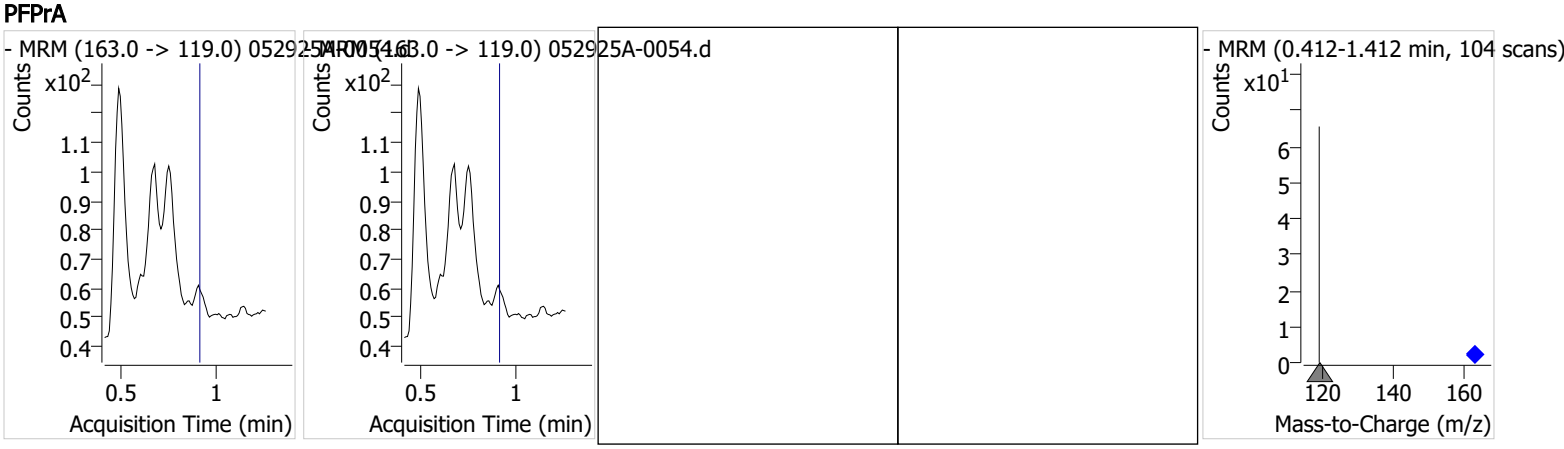
PFDoS



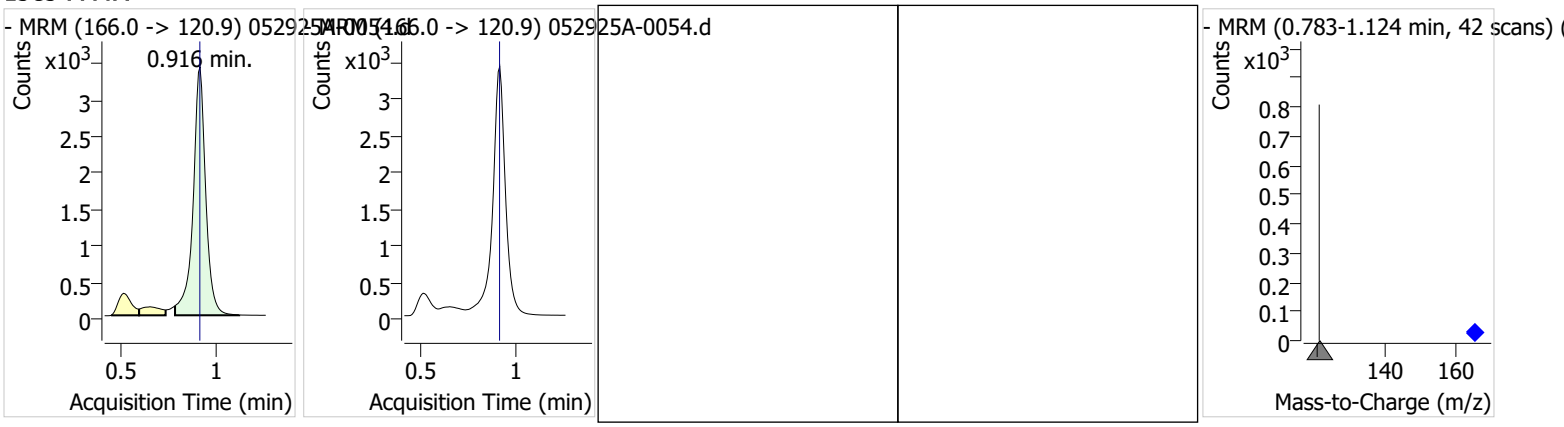
TDCA



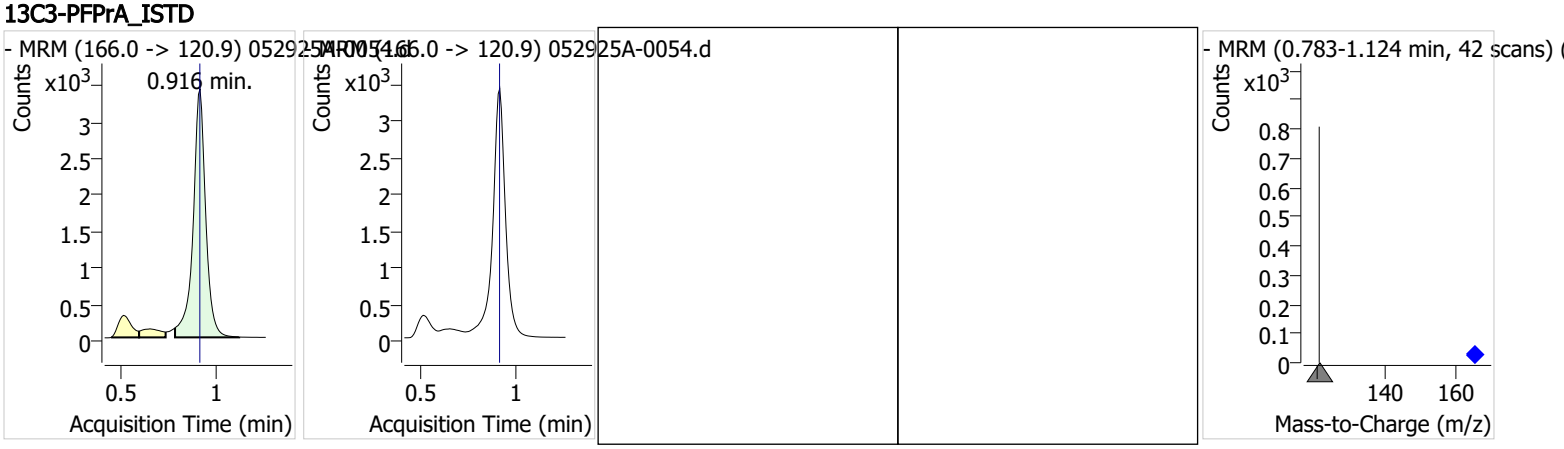
PFPrA



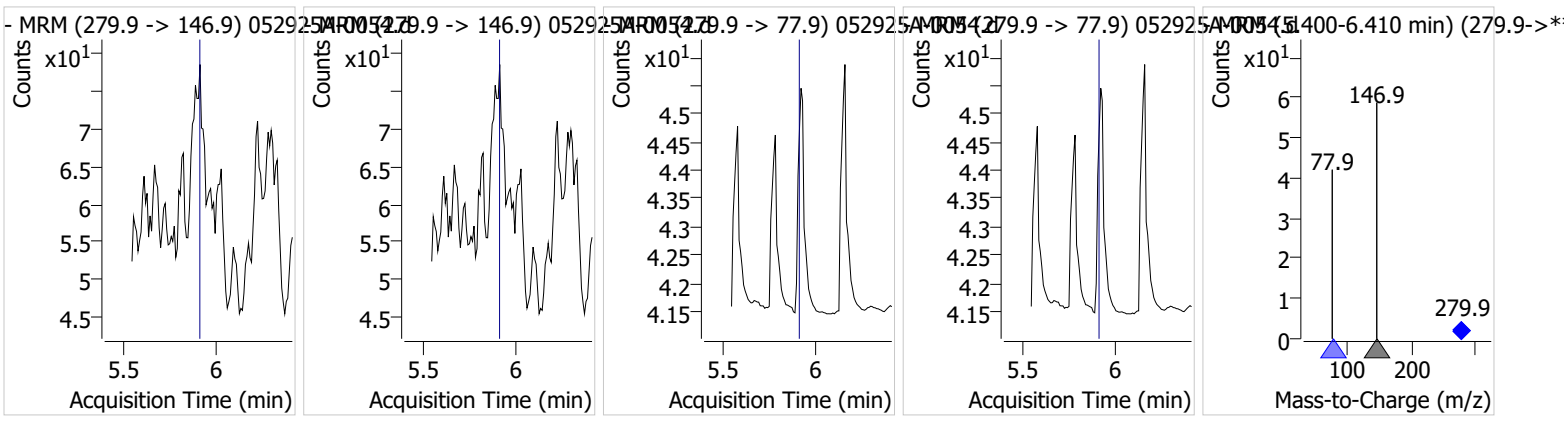
13C3-PFPrA



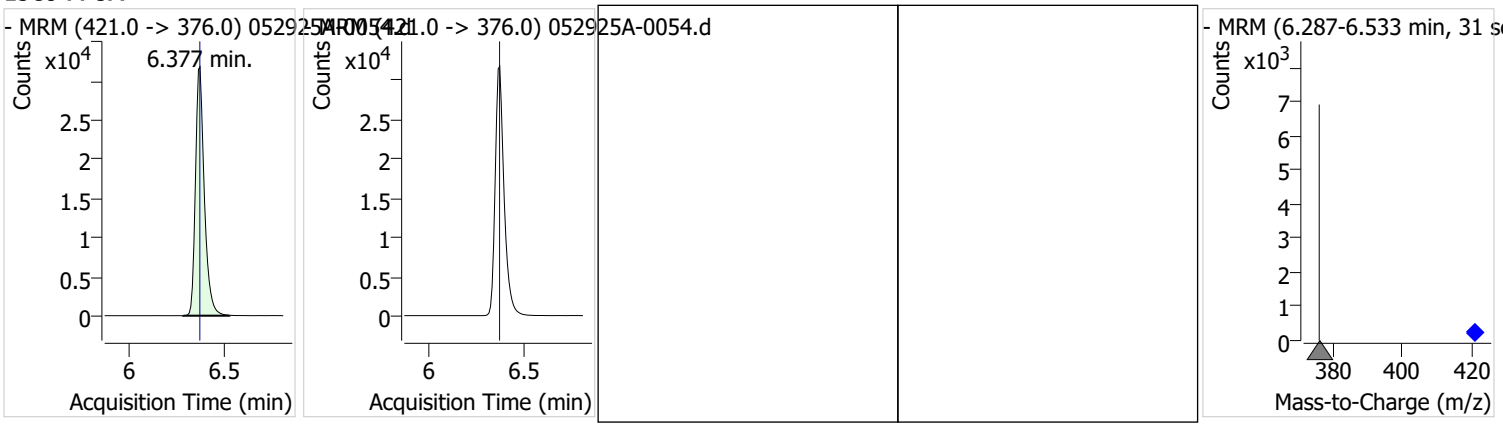
13C3-PFPrA_ISTD



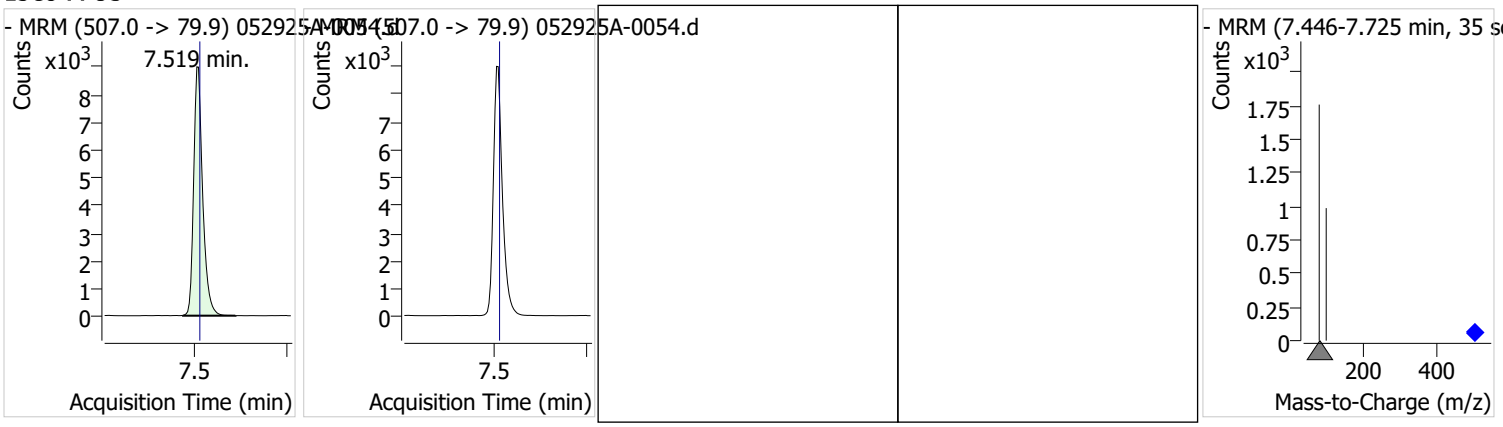
TFSI



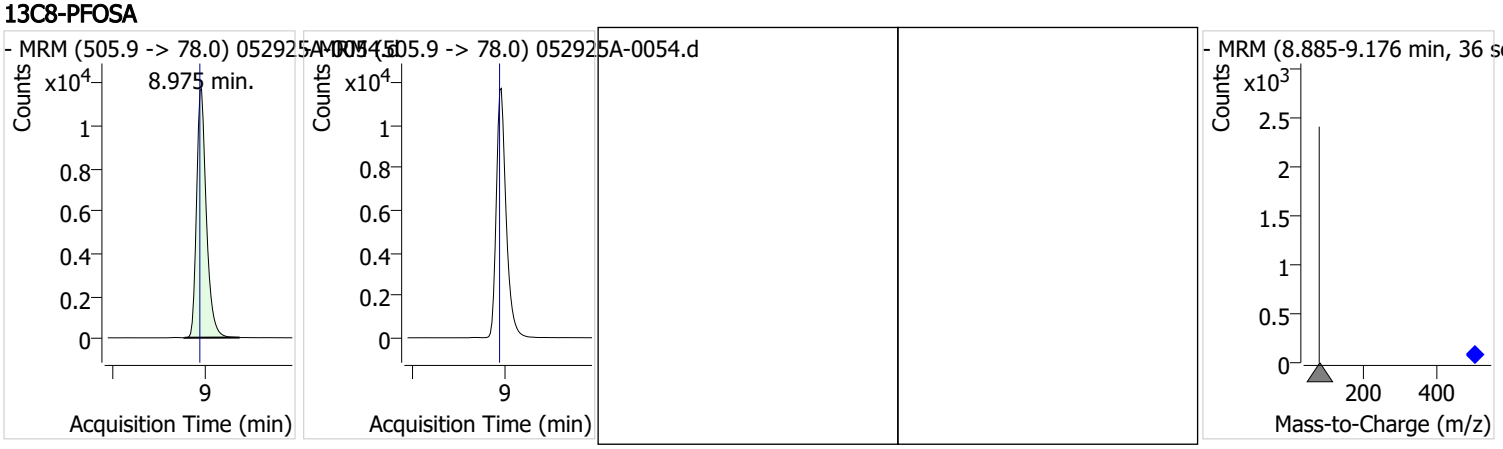
13C8-PFOA



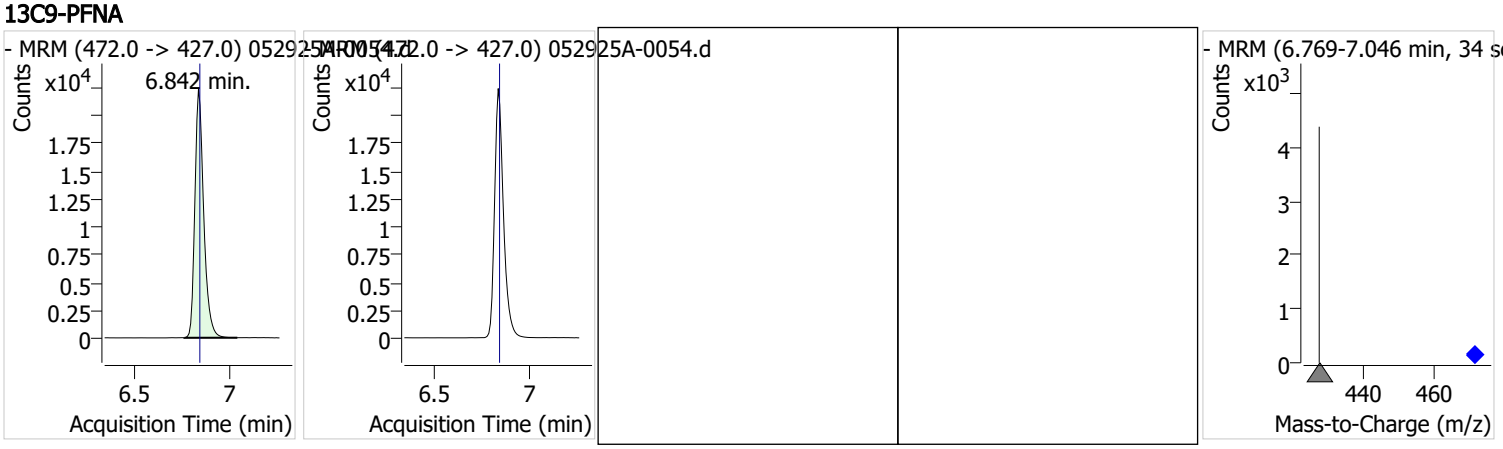
13C8-PFOS



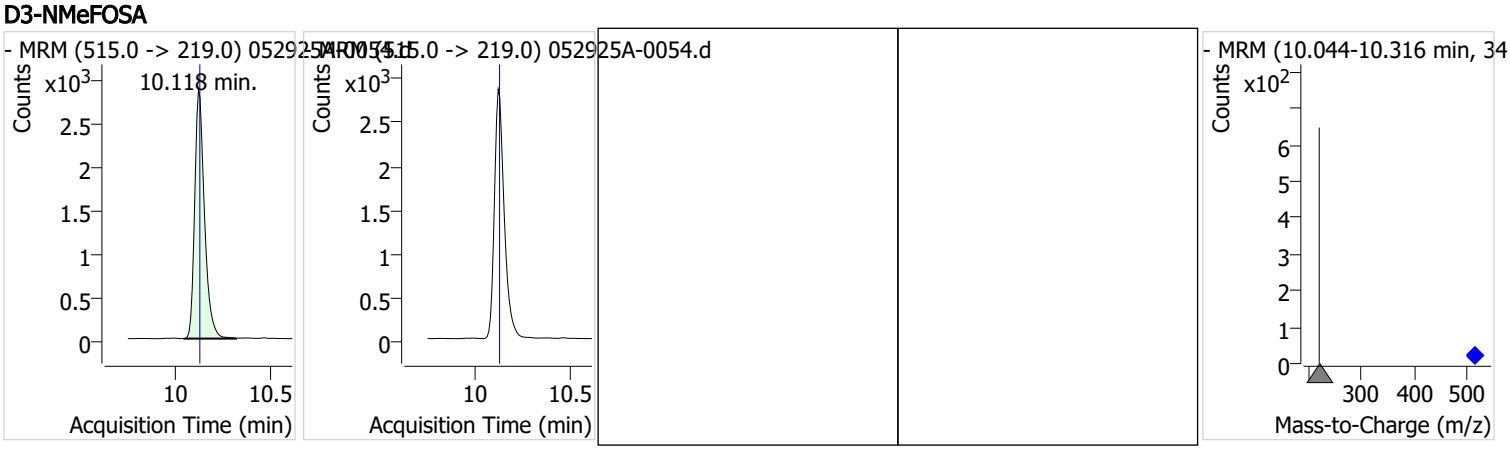
13C8-PFOSA



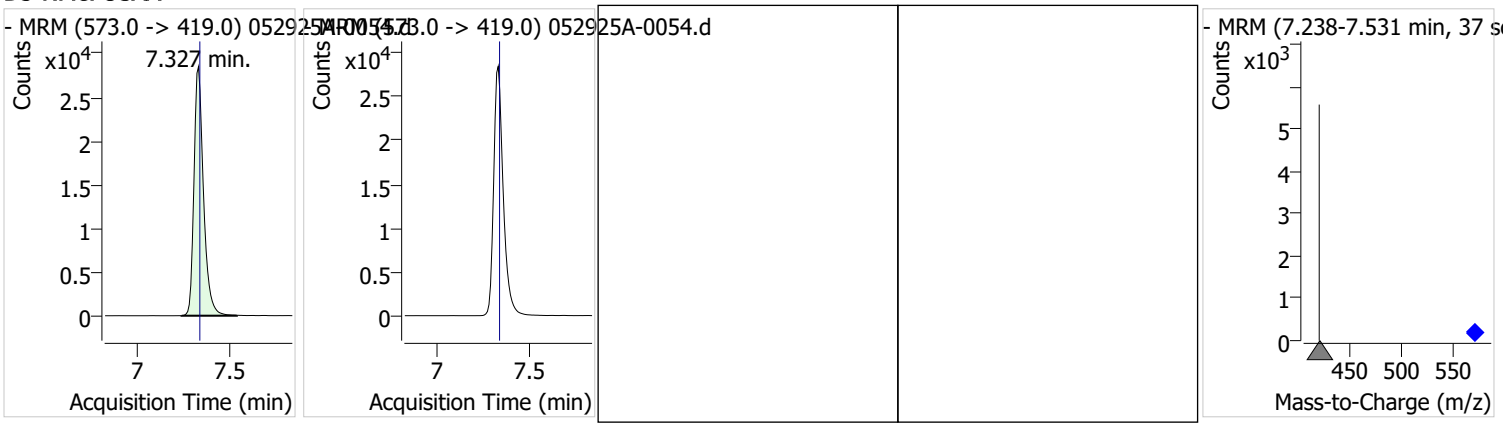
13C9-PFNA



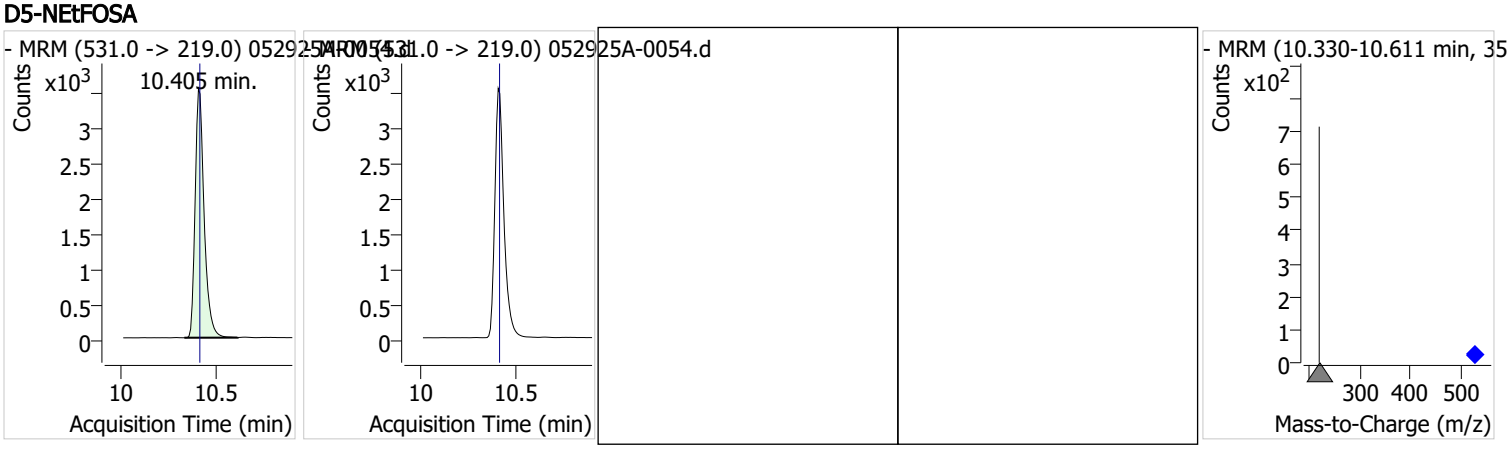
D3-NMeFOSA



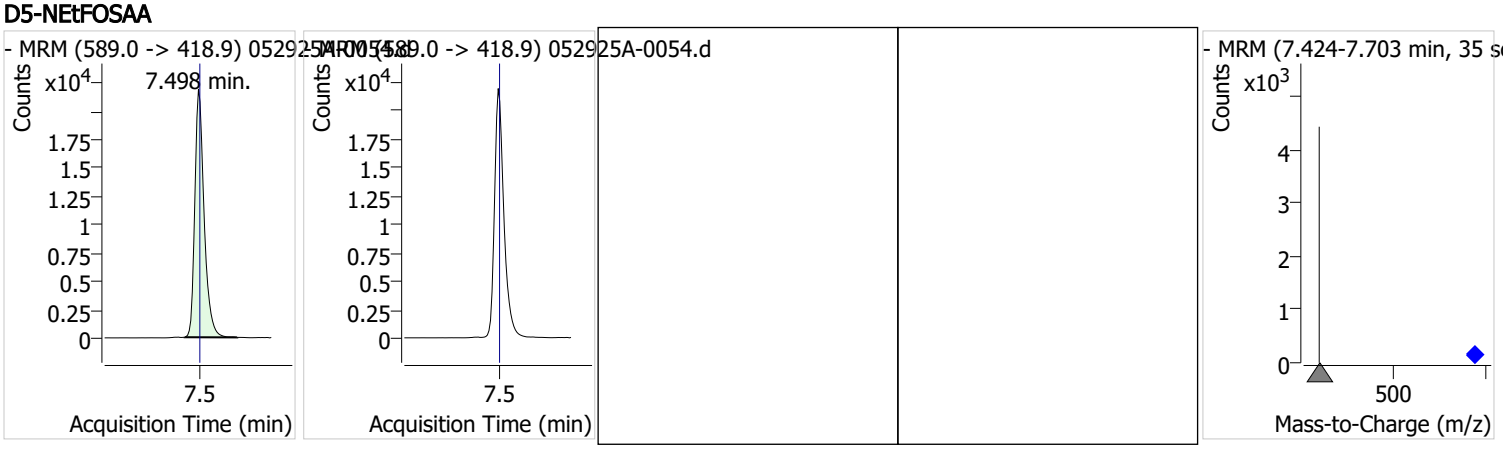
D3-NMeFOSAA



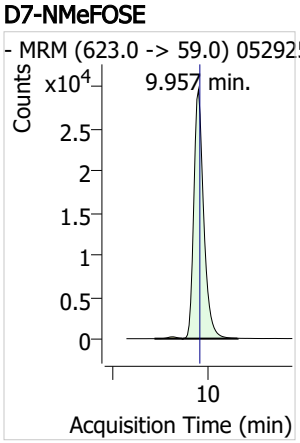
D5-NEtFOSA

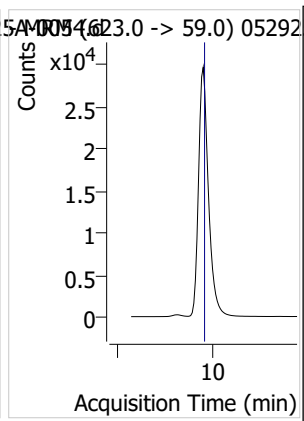


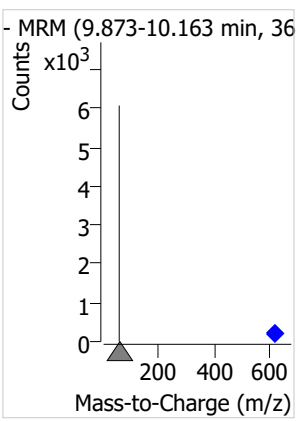
D5-NEtFOSAA



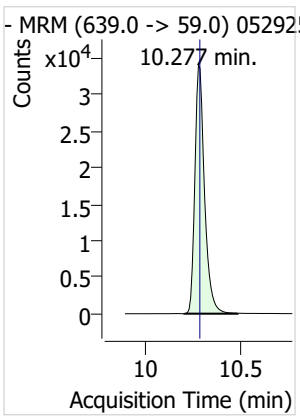
D7-NMeFOSE

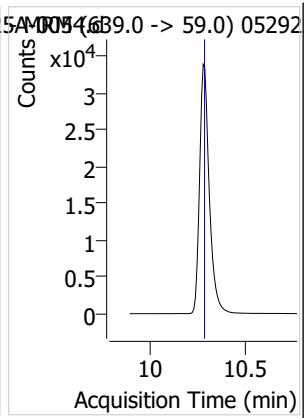


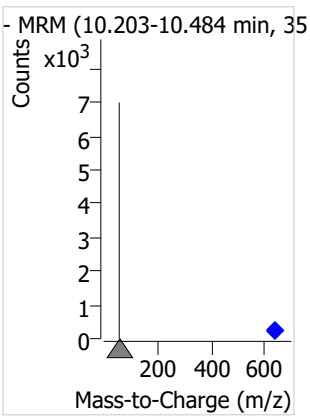




D9-NEtFOSE

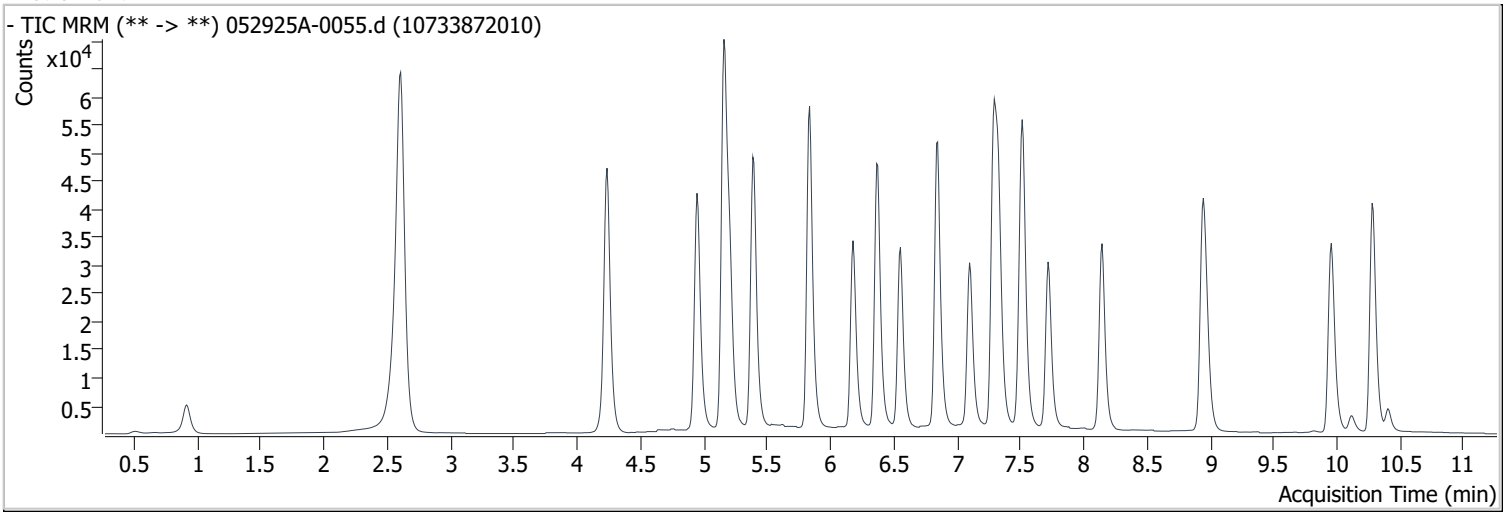






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/29/2025 10:53 PM	**Data File**	052925A-0055.d
Sample Type	Sample	**Sample Name**	10733872010
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	6251	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA					13C3-HFPODA_ISTD	5.394	102834	-	ng/ml			
285.0 -> 184.9				*								
4:2FTS					13C2-4:2FTS_ISTD	4.946	43461	-	ng/ml			
327.0 -> 80.9				*								
6:2FTS					13C2-6:2FTS_ISTD	6.180	30830	-	ng/ml			
427.0 -> 80.9				*								
ADONA					13C4-PFHpA_ISTD	5.839	185885	-	ng/ml			
377.0 -> 85.1				*								
8:2FTS					13C2-8:2FTS_ISTD	7.100	29053	-	ng/ml			
527.0 -> 81.0				*								
13C4-PFBA	2.606	243958	4034.19		13C3-PFBA_ISTD	2.600	109181	9.1806	ng/ml			
9Cl-PF3ONS					13C8-PFOS_ISTD	7.528	35028	-	ng/ml			
533.0 -> 353.0				*								
11Cl-PF3OUdS					13C8-PFOS_ISTD	7.528	35028	-	ng/ml			
633.0 -> 453.0				*								
PFHpS					13C8-PFOS_ISTD	7.528	35028	-	ng/ml			
449.0 -> 98.8				*								
13C2-4:2FTS	4.946	43461	10002.66		18O2-PFHxS_ISTD	6.559	40920	6.1680	ng/ml			
13C2-6:2FTS	6.180	30830	96188.69		18O2-PFHxS_ISTD	6.559	40920	5.8072	ng/ml			
13C2-8:2FTS	7.100	29053	75979.59		18O2-PFHxS_ISTD	6.559	40920	5.4520	ng/ml			
13C2-PFDoA	8.146	111645	4055.63		13C2-PFDA_ISTD	7.290	85000	1.0513	ng/ml			
13C2-PFDA	7.290	85000	2338.60					1.7483	ng/ml			
13C2-PFHxA	5.162	107659	12388.36					3.4929	ng/ml			
13C2-PFTeDA	8.936	119939	2184.03		13C2-PFDA_ISTD	7.290	85000	1.0051	ng/ml			
13C4-PFOS	7.529	39158	11739.92					3.5524	ng/ml			
13C3-HFPODA	5.394	102834	220330.87		13C2-PFHxA_ISTD	5.162	107659	8.9400	ng/ml			
13C3-PFBS	5.213	62538	6768.11		18O2-PFHxS_ISTD	6.559	40920	2.2385	ng/ml			
13C3-PFHxS	6.560	42031	91450.03		18O2-PFHxS_ISTD	6.559	40920	2.2218	ng/ml			
NEtFOSAA					D5-NEtFOSAA_ISTD	7.506	89204	-	ng/ml			
584.0 -> 526.0				*								

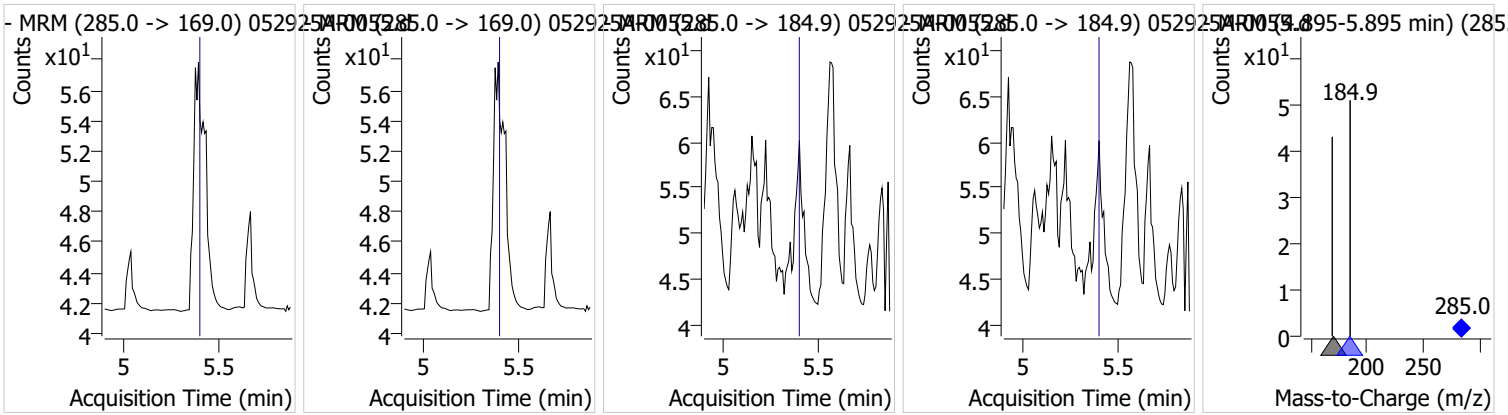
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFHpA	5.839	185885	56960.20		13C2-PFHxA_ISTD	5.162	107659	2.4314	ng/ml			
NMeFOSAA					D3-NMeFOSAA_ISTD	7.327	116585	-	ng/ml			
570.0 -> 483.0				*								
PFBA					13C4-PFBA_ISTD	2.606	243958	-	ng/ml			
13C5-PFHxA	5.161	111515	33685.44		13C2-PFHxA_ISTD	5.162	107659	2.3333	ng/ml			
PFBS					13C3-PFBS_ISTD	5.213	62538	-	ng/ml			
298.9 -> 98.8				*								
NMeFOSA					D3-NMeFOSA_ISTD	10.118	9955	-	ng/ml			
512.0 -> 169.0				*								
PFDA	7.200	0	0.00		13C6-PFDA_ISTD	7.289	88851	-	ng/ml	✔	INT	MJL 5/30/25
513.0 -> 219.0				*								
PFDoA					13C2-PFDoA_ISTD	8.146	111645	-	ng/ml			
613.0 -> 319.0				*								
NEtFOSA					D5-NEtFOSA_ISTD	10.405	12111	-	ng/ml			
526.0 -> 169.0				*								
PFHpA					13C4-PFHpA_ISTD	5.839	185885	-	ng/ml			
362.9 -> 169.0				*								
PFHxA	5.163	0	0.00		13C5-PFHxA_ISTD	5.161	111515	-	ng/ml	✔	INT	MJL 5/30/25
313.0 -> 118.9	5.163	0		*								
NMeFOSE					D7-NMeFOSE_ISTD	9.957	123080	-	ng/ml			
PFHxS	6.551	146	45.25		13C3-PFHxS_ISTD	6.560	42031	0.0069	ng/ml	✔	NI	MJL 5/30/25
398.9 -> 99.0	6.560	88	19.02	60.4								
PFNA					13C9-PFNA_ISTD	6.842	82910	-	ng/ml			
463.0 -> 219.0				*								
NEtFOSE					D9-NEtFOSE_ISTD	10.277	142955	-	ng/ml			
PFOA	6.377	1087	15.26		13C8-PFOA_ISTD	6.368	123794	0.0186	ng/ml	✔	GT	MJL 5/30/25
413.0 -> 169.0	6.394	125	46.57	***11.5**								
PFOS	7.399	435	91.89		13C8-PFOS_ISTD	7.528	35028	0.0210	ng/ml			
499.0 -> 99.0	7.402	197	46.53	45.4								
PFPeA					13C5-PFPeA_ISTD	4.237	175040	-	ng/ml			
PFMPA					13C4-PFBA_ISTD	2.606	243958	-	ng/ml			
13C5-PFPeA	4.237	175040	117369.61		13C2-PFHxA_ISTD	5.162	107659	4.5908	ng/ml			
PFMBA					13C5-PFPeA_ISTD	4.237	175040	-	ng/ml			
PFTrDA					13C2-PFDoA_ISTD	8.146	111645	-	ng/ml			
663.0 -> 168.9				*								
PFEESA					13C5-PFHxA_ISTD	5.161	111515	-	ng/ml			
315.0 -> 83.0				*								
13C6-PFDA	7.289	88851	14720.71		13C2-PFDA_ISTD	7.290	85000	1.1101	ng/ml			
NFDHA					13C5-PFHxA_ISTD	5.161	111515	-	ng/ml			
295.0 -> 85.0				*								
PFOSA					13C8-PFOSA_ISTD	8.975	50019	-	ng/ml			
497.9 -> 478.0				*								
13C7-PFUnA	7.721	97372	360627.71		13C2-PFDA_ISTD	7.290	85000	1.0893	ng/ml			
13C4-PFOA	6.369	29269	47204.13					3.5399	ng/ml			
PFDS					13C8-PFOS_ISTD	7.528	35028	-	ng/ml			
599.0 -> 98.8				*								
PFNS					13C8-PFOS_ISTD	7.528	35028	-	ng/ml			

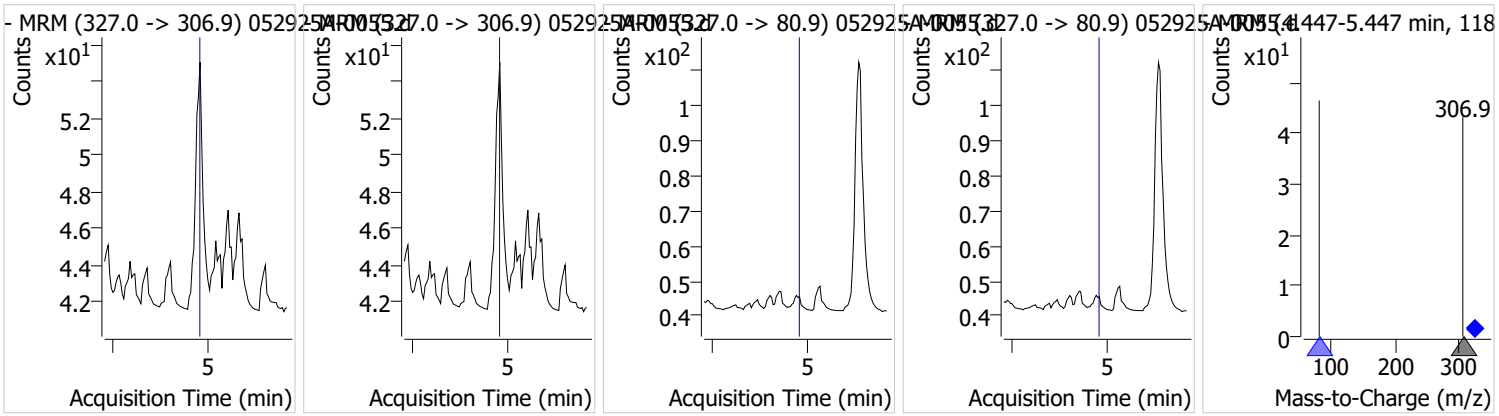
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
549.0 -> 98.8				*								
PFPeS					13C3-PFHxS_ISTD	6.560	42031	-	ng/ml			
349.0 -> 98.9				*								
PFTeDA					13C2-PFTeDA_ISTD	8.936	119939	-	ng/ml			
713.0 -> 168.9				*								
PFUnA					13C7-PFUnA_ISTD	7.721	97372	-	ng/ml			
563.0 -> 269.1				*								
13C3-PFBA	2.600	109181	1741.75					7.1894	ng/ml			
3:3FTCA					13C5-PFPeA_ISTD	4.237	175040	-	ng/ml			
241.0 -> 117.0				*								
5:3FTCA					13C5-PFHxA_ISTD	5.161	111515	-	ng/ml			
341.0 -> 217.0				*								
7:3FTCA					13C9-PFNA_ISTD	6.842	82910	-	ng/ml			
441.0 -> 337.0				*								
13C5-PFNA	6.850	84024	25413.34					1.7767	ng/ml			
18O2-PFHxS	6.559	40920	12299.34					3.6024	ng/ml			
PFDoS					13C8-PFOS_ISTD	7.528	35028	-	ng/ml			
698.9 -> 99.0				*								
TDCA					13C8-PFOS_ISTD	7.528	35028	-	ng/ml			
499.0 -> 124.0				*								
PFPrA	0.753	0	0.00		13C3-PFPrA_ISTD	0.916	23774	-	ng/ml	✔	INT	MJL 5/30/25
13C3-PFPrA	0.916	23774	5400.94		13C3-PFBA_ISTD	2.600	109181	2.0129	ng/ml			
TFSI					13C3-HFPODA_ISTD	5.394	102834	-	ng/ml			
279.9 -> 77.9				*								
13C8-PFOA	6.368	123794	240765.60		13C4-PFOA_ISTD	6.369	29269	2.2575	ng/ml			
13C8-PFOS	7.528	35028	19858.94		13C4-PFOS_ISTD	7.529	39158	2.2872	ng/ml			
13C8-PFOSA	8.975	50019	13912.25		13C4-PFOS_ISTD	7.529	39158	2.2714	ng/ml			
13C9-PFNA	6.842	82910	25150.66		13C5-PFNA_ISTD	6.850	84024	1.1168	ng/ml			
D3-NMeFOSA	10.118	9955	1874.30		13C4-PFOS_ISTD	7.529	39158	1.4189	ng/ml			
D3-NMeFOSAA	7.327	116585	34156.37		13C4-PFOS_ISTD	7.529	39158	4.7867	ng/ml			
D5-NEtFOSA	10.405	12111	1469.48		13C4-PFOS_ISTD	7.529	39158	1.4360	ng/ml			
D5-NEtFOSAA	7.506	89204	25311.43		13C4-PFOS_ISTD	7.529	39158	4.8226	ng/ml			
D7-NMeFOSE	9.957	123080	131453.39		13C4-PFOS_ISTD	7.529	39158	18.2731	ng/ml			
D9-NEtFOSE	10.277	142955	40647.21		13C4-PFOS_ISTD	7.529	39158	19.1131	ng/ml			

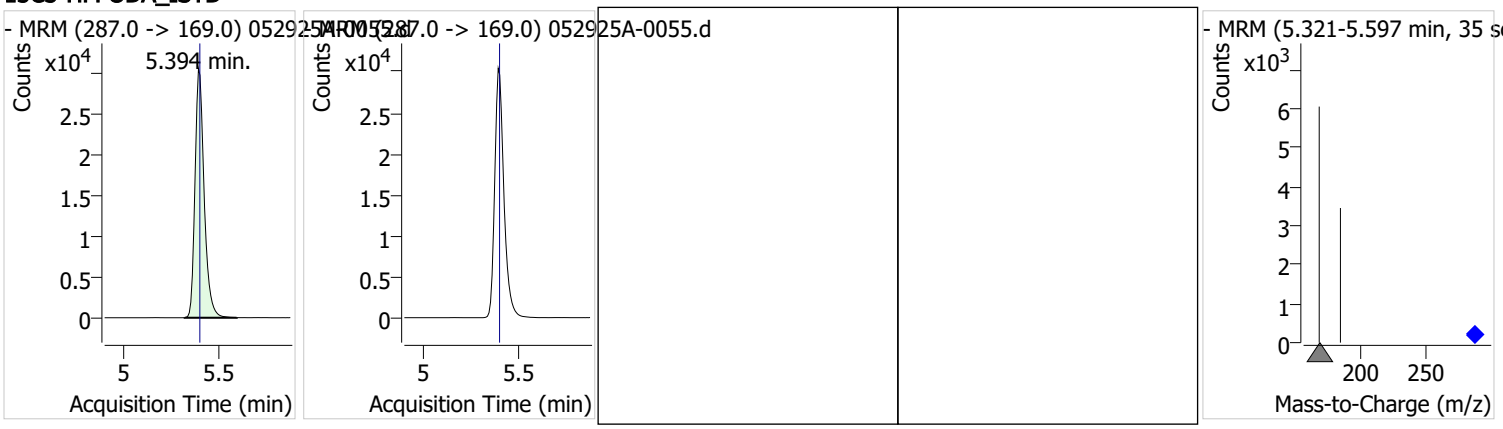
HFPO-DA



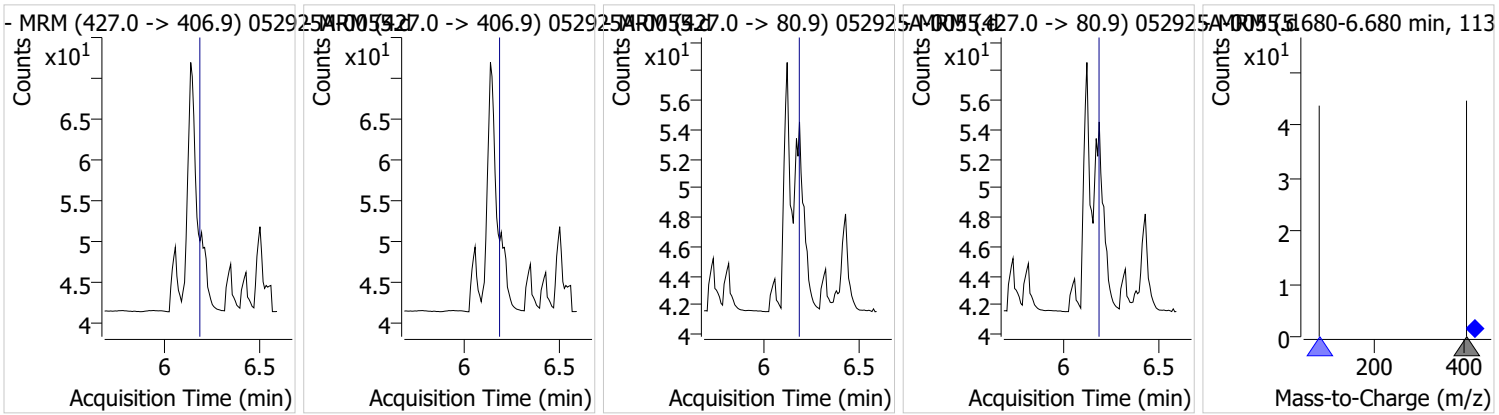
4:2FTS



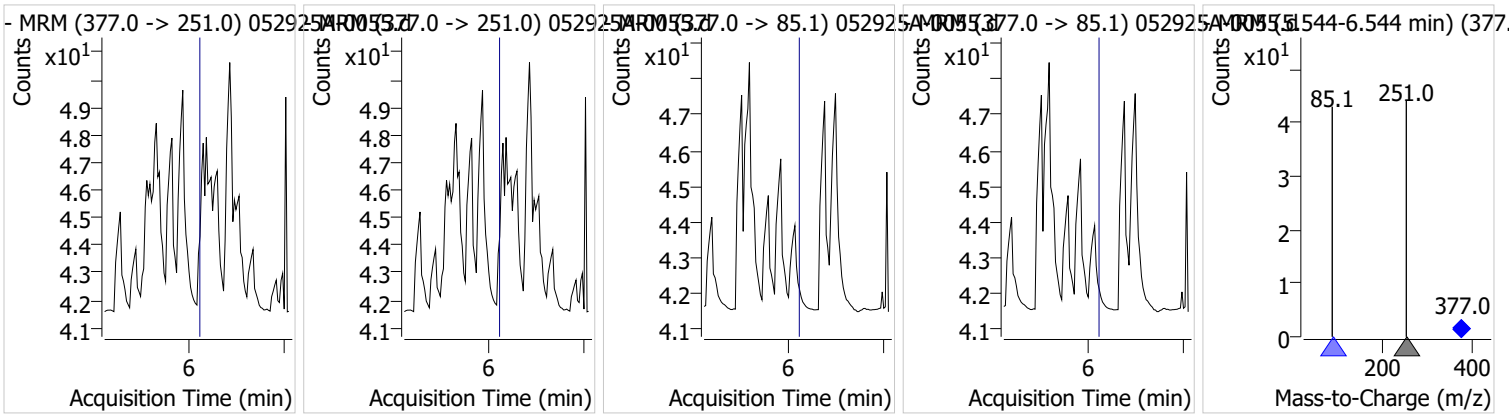
13C3-HFPODA_ISTD



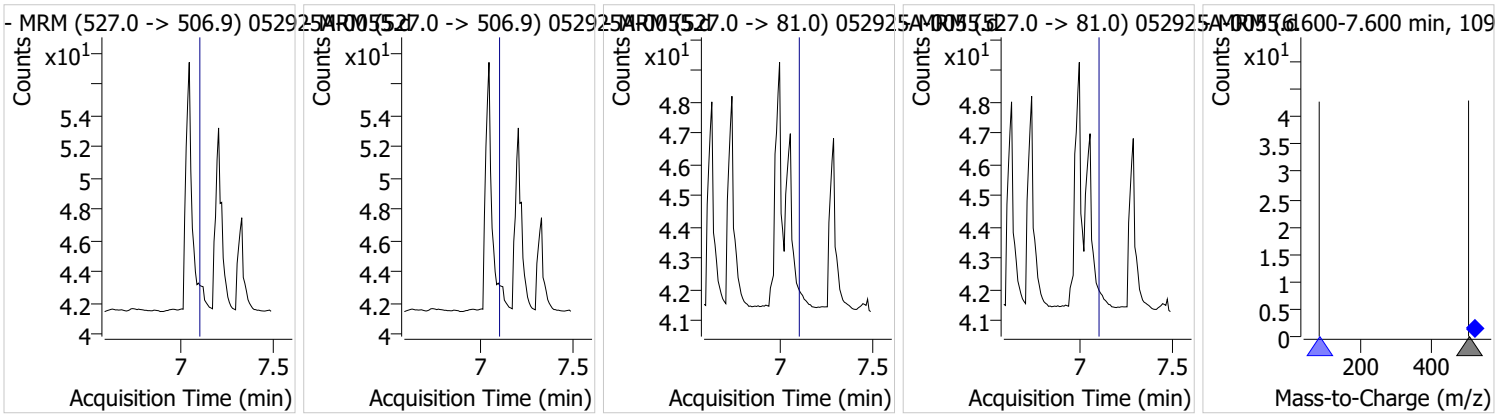
6:2FTS



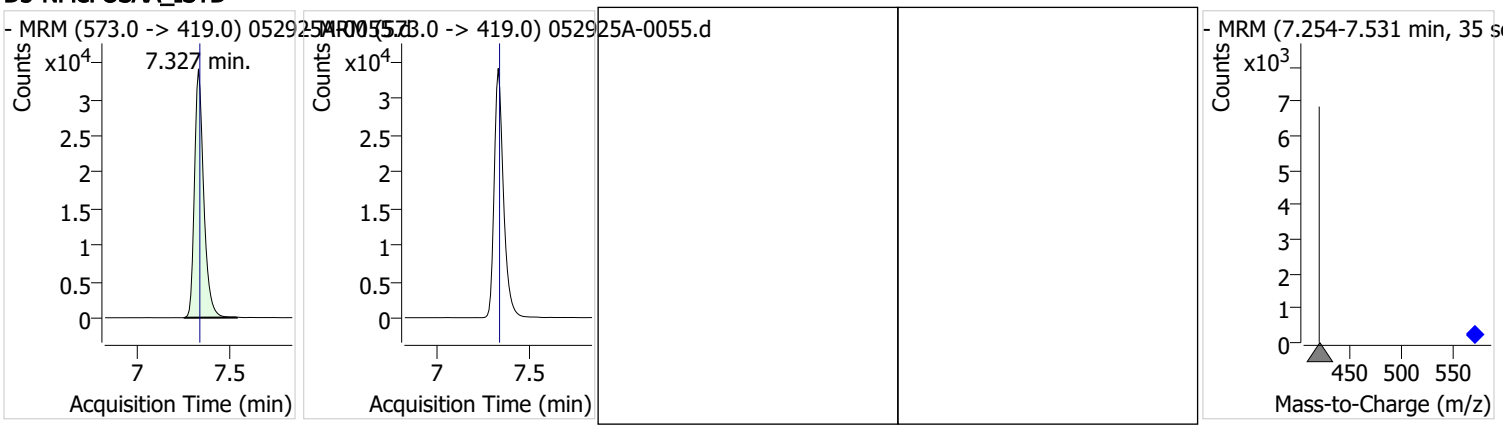
ADONA



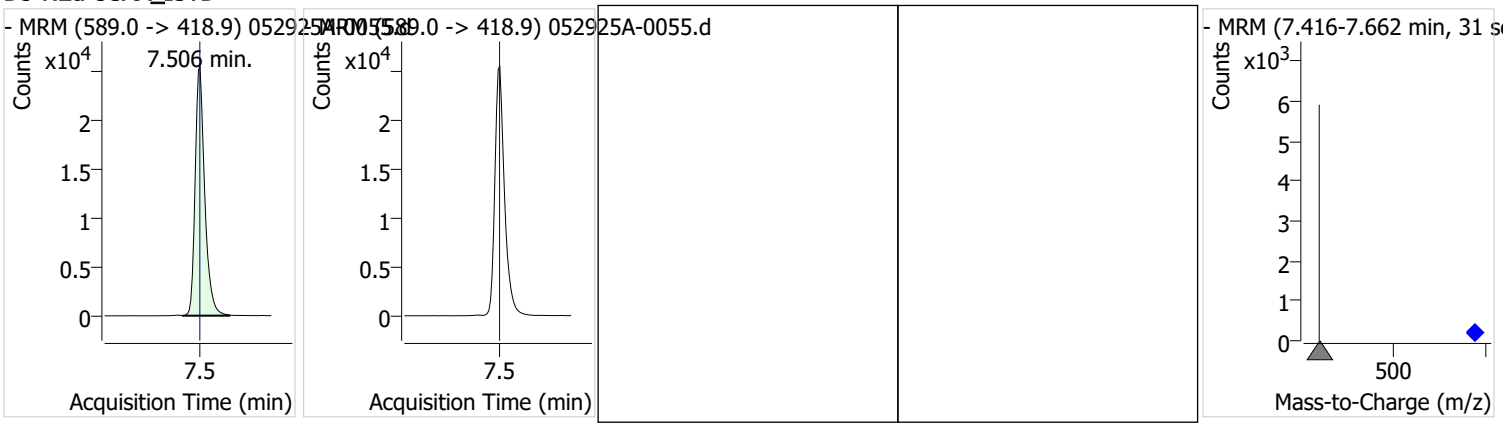
8:2FTS



D3-NMeFOSAA_ISTD



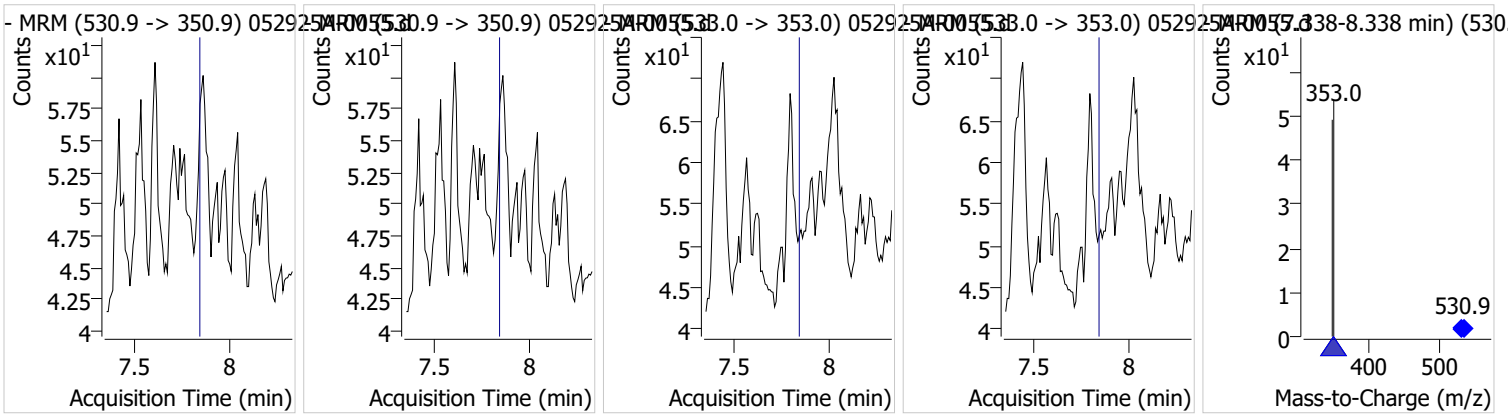
D5-NEtFOSAA_ISTD



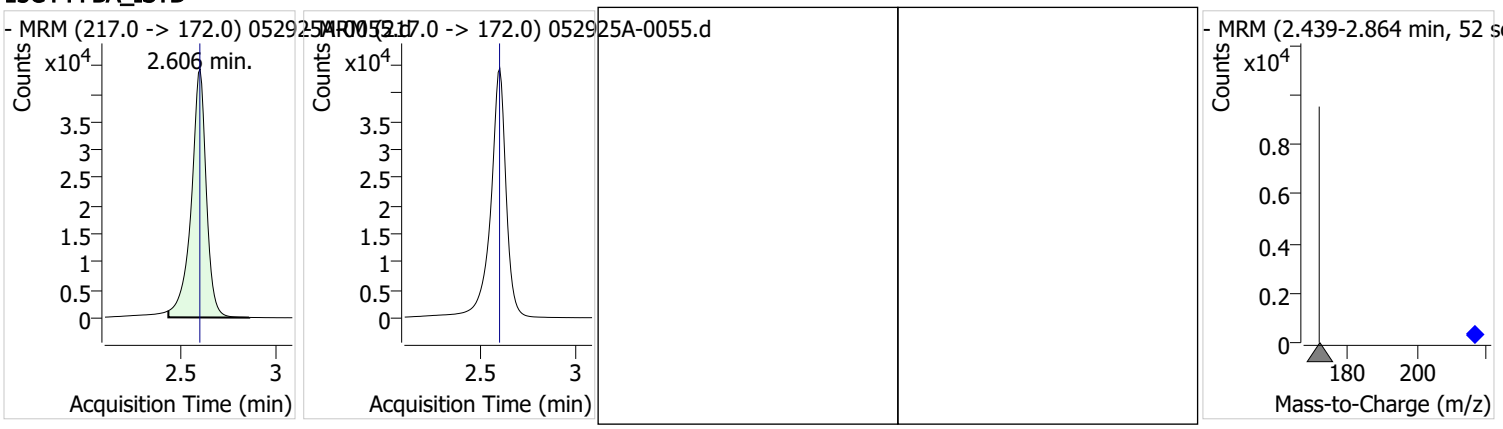
13C4-PFBA



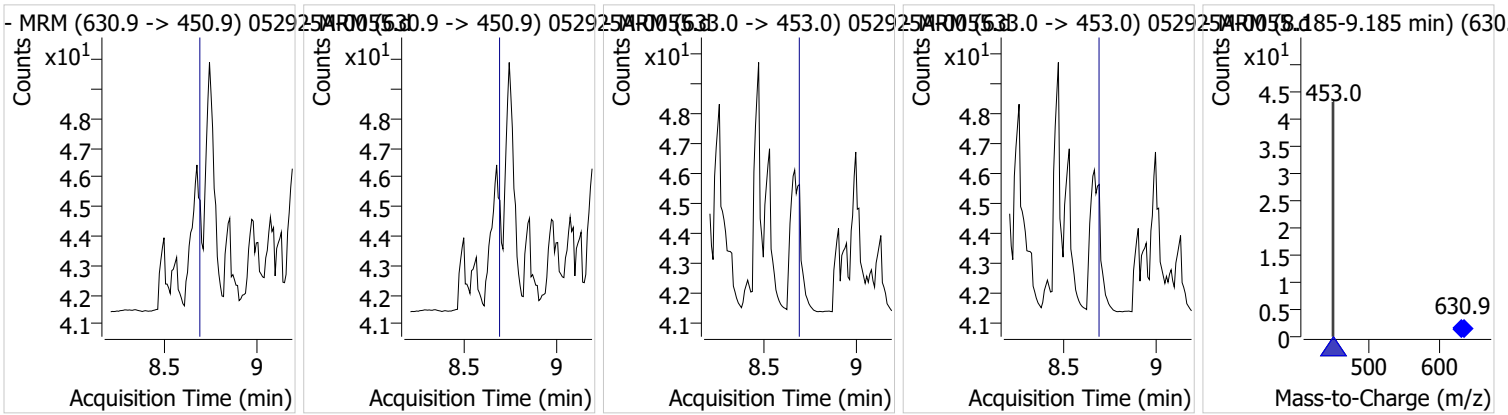
9Cl-PF3ONS



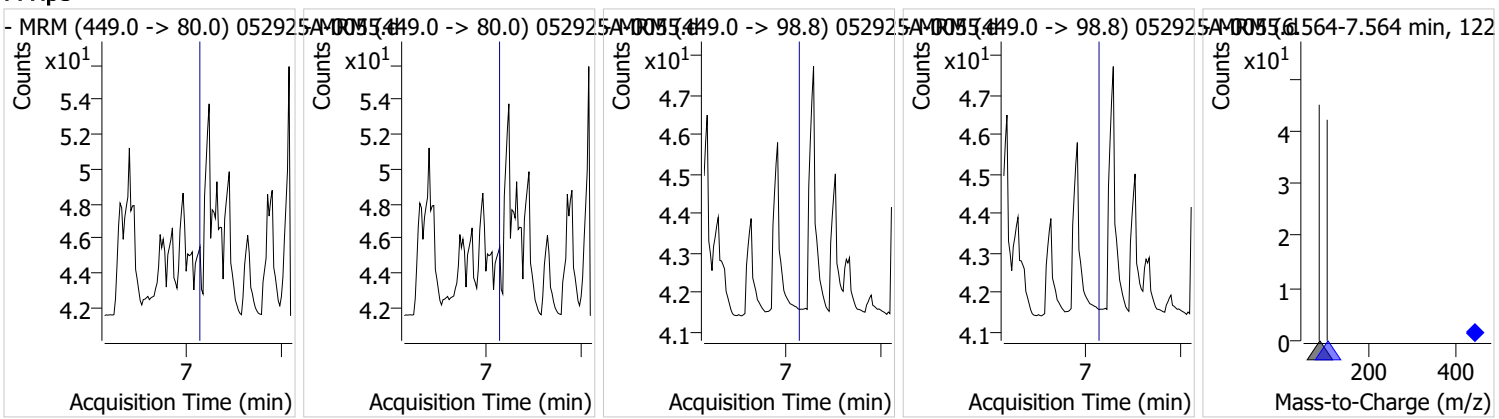
13C4-PFBA_ISTD



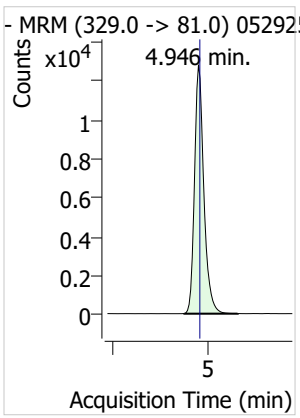
11Cl-PF3OUdS

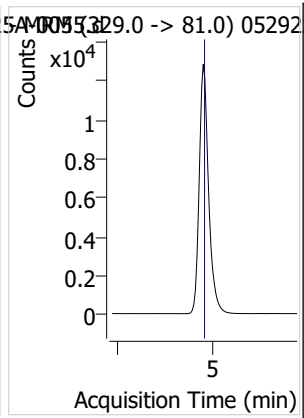


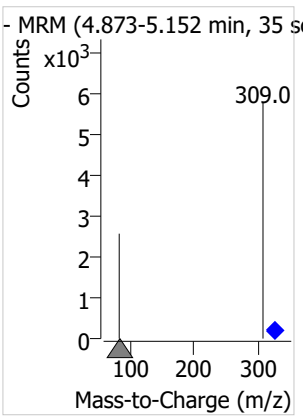
PFHpS



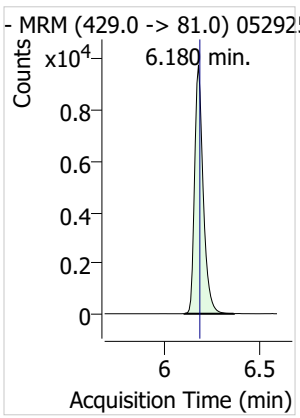
13C2-4:2FTS

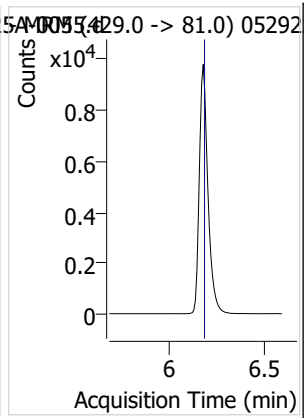


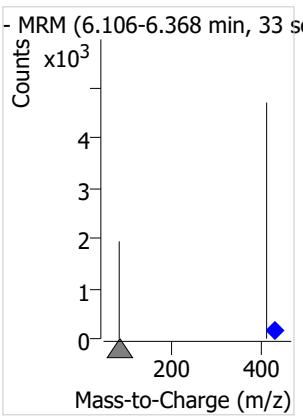




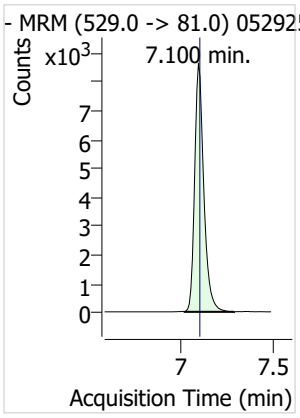
13C2-6:2FTS

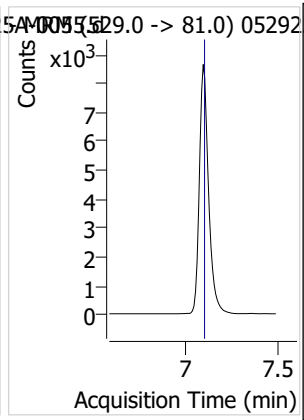


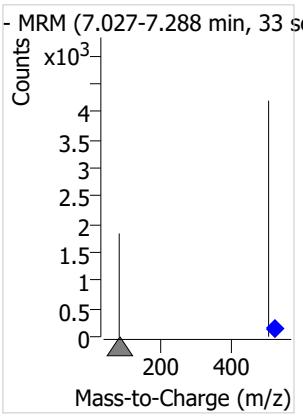




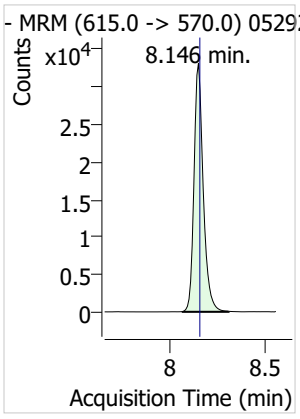
13C2-8:2FTS

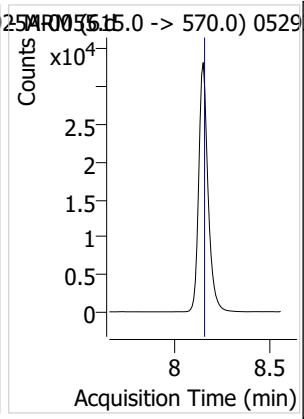


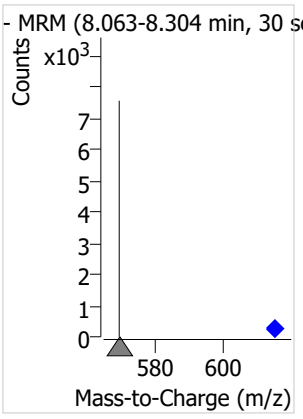




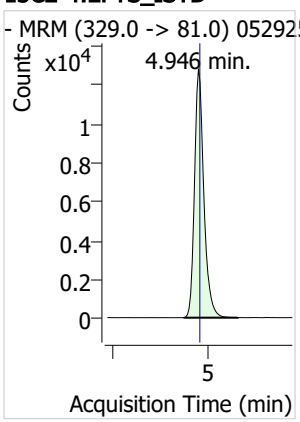
13C2-PFDoA

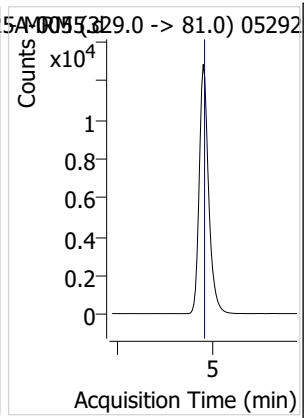


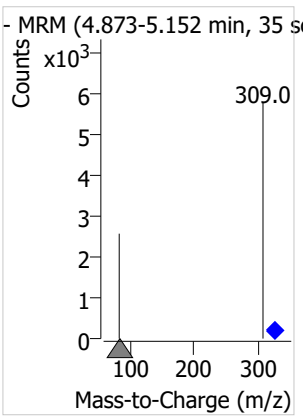




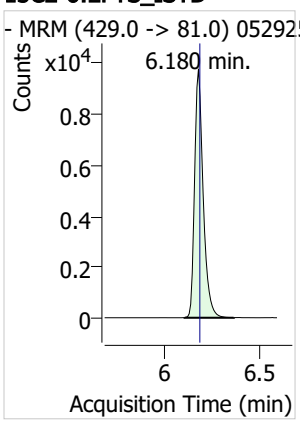
13C2-4:2FTS_ISTD

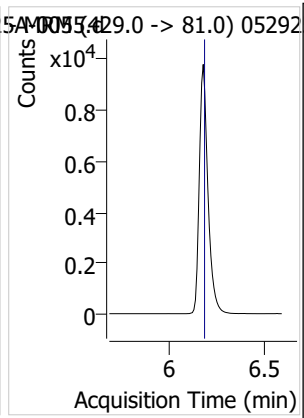


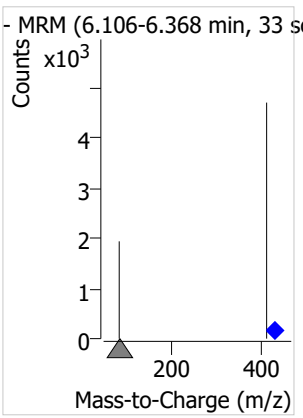




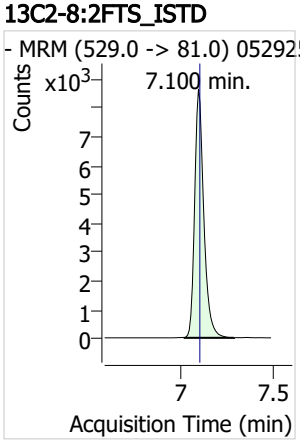
13C2-6:2FTS_ISTD

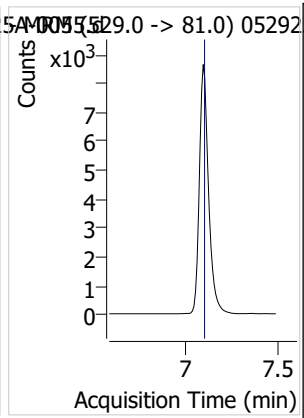


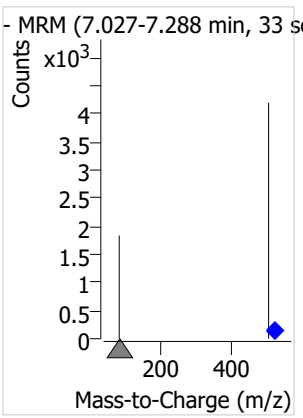




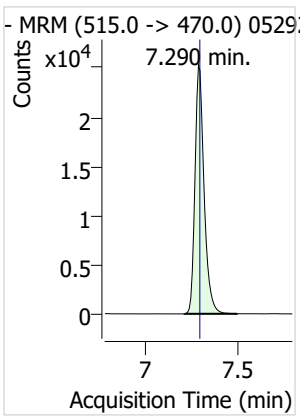
13C2-8:2FTS_ISTD

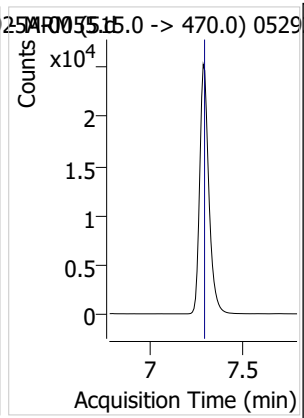


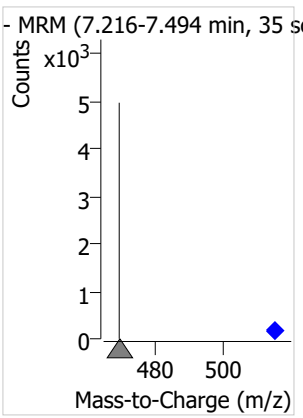




13C2-PFDA



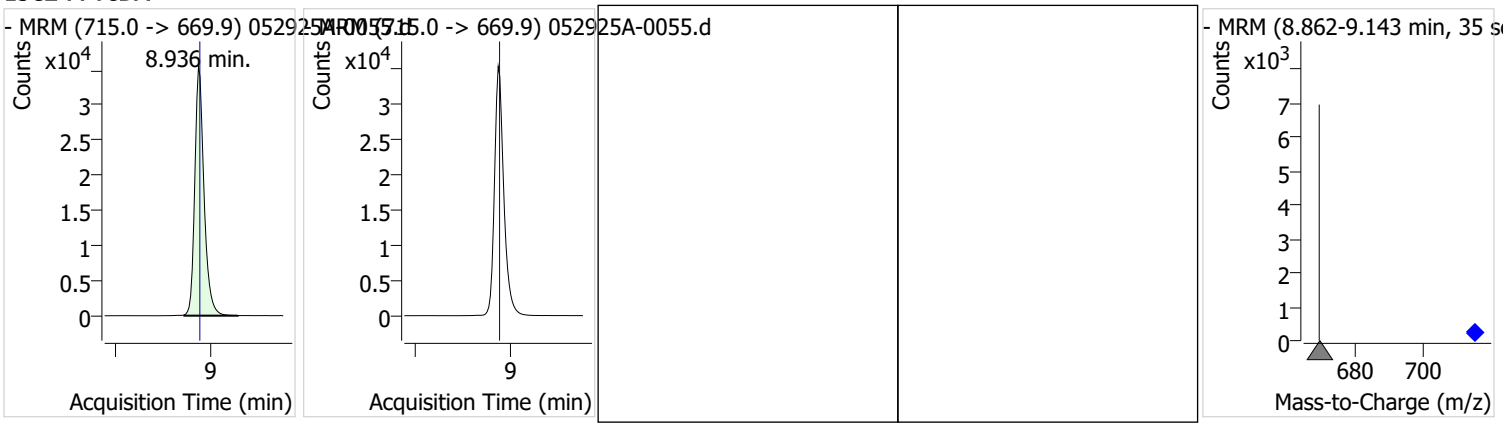




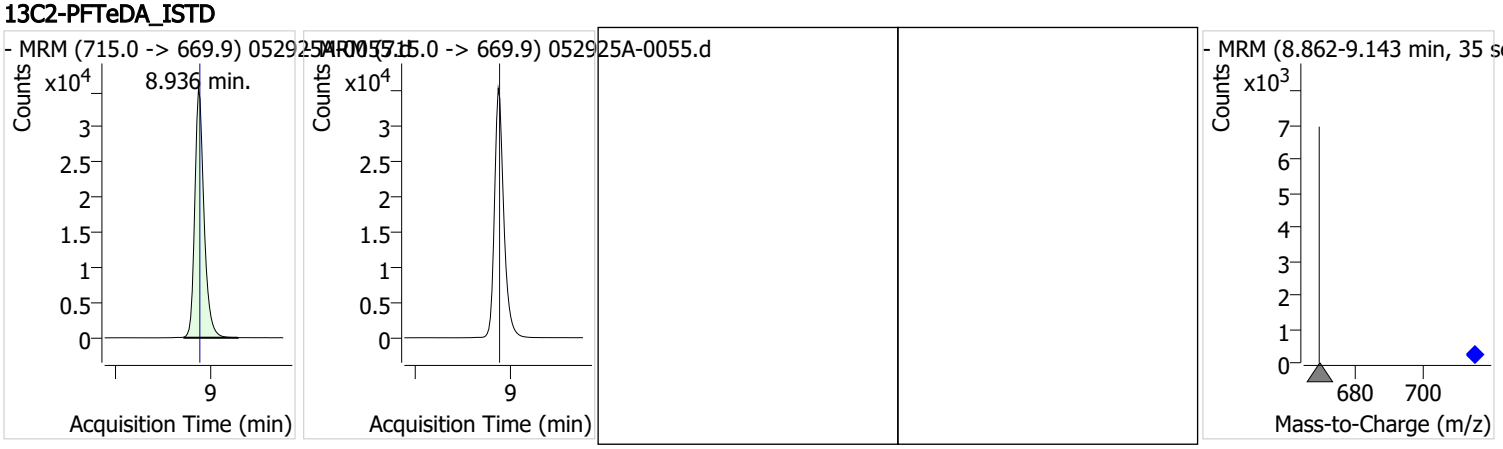
13C2-PFHxA



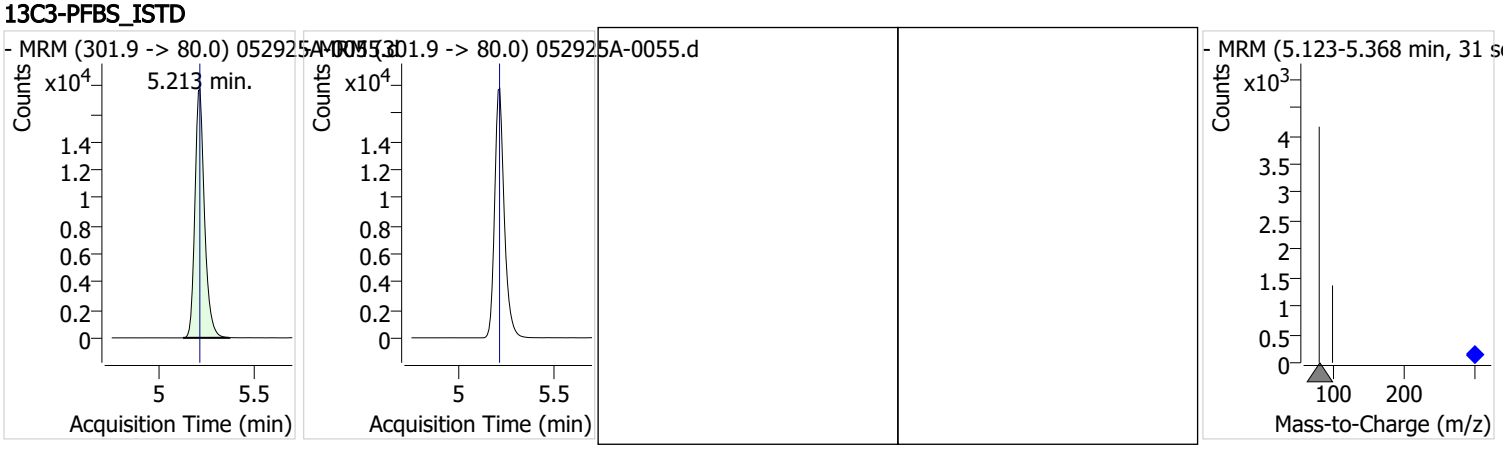
13C2-PFTeDA



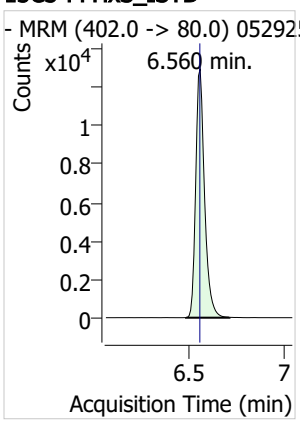
13C2-PFTeDA_ISTD

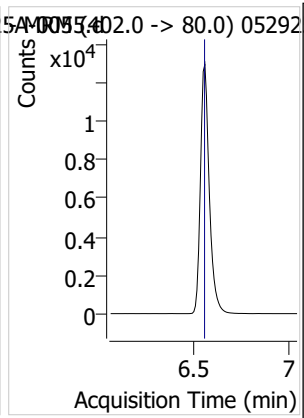


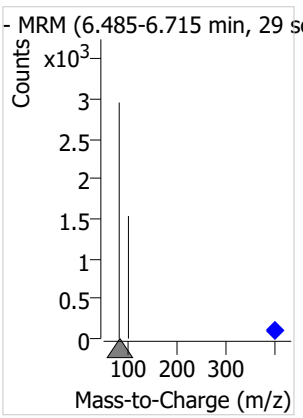
13C3-PFBS_ISTD



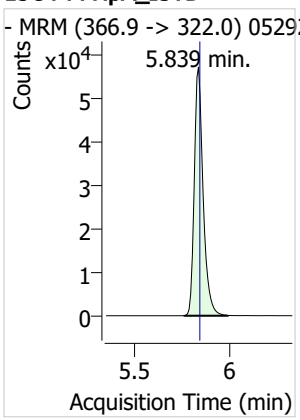
13C3-PFHxS_ISTD

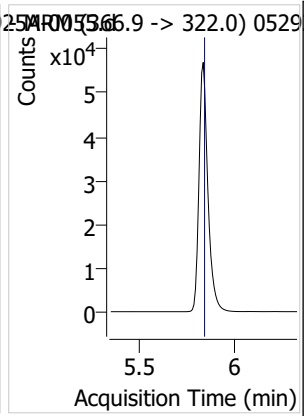


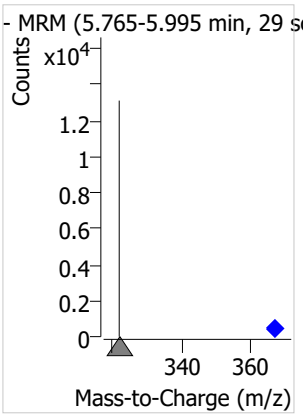




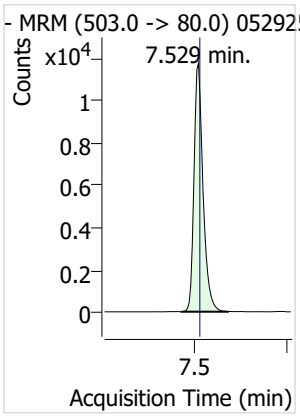
13C4-PFHpA_ISTD

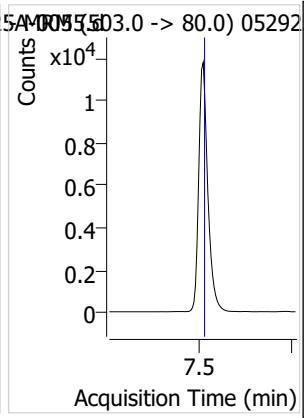


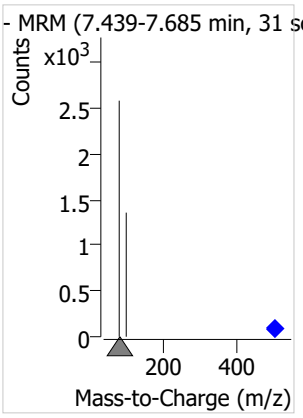




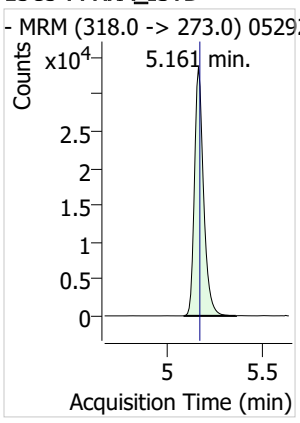
13C4-PFOS

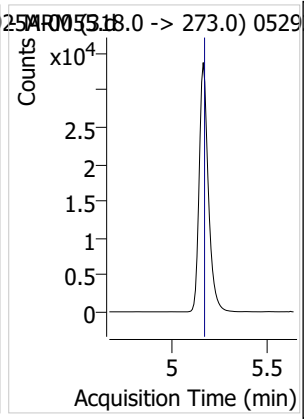


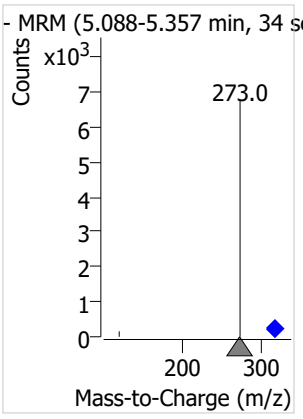




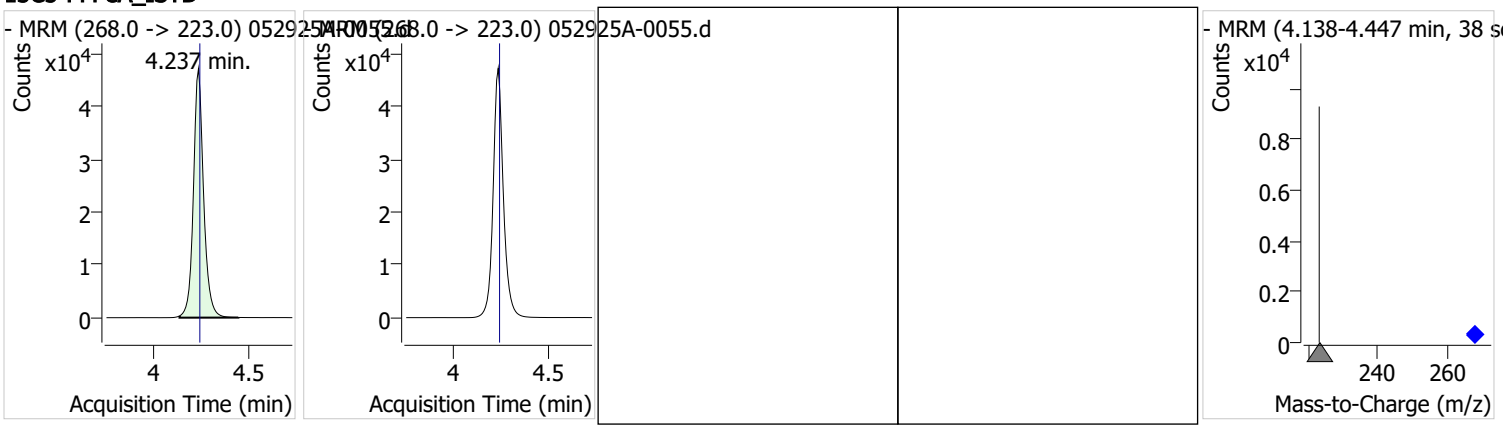
13C5-PFHxA_ISTD







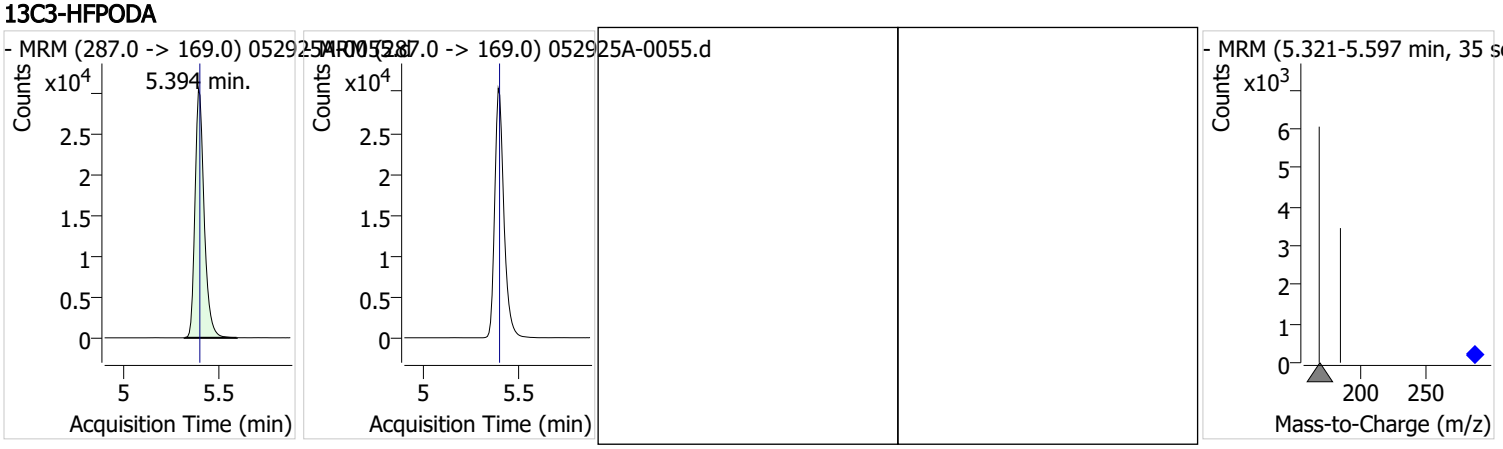
13C5-PFPeA_ISTD



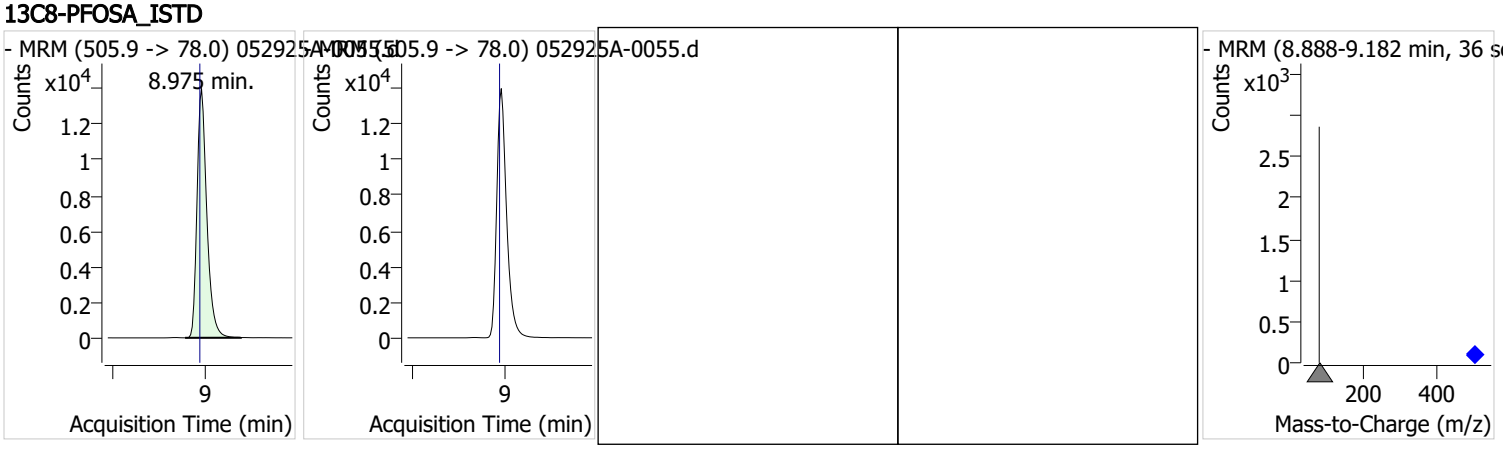
13C6-PFDA_ISTD



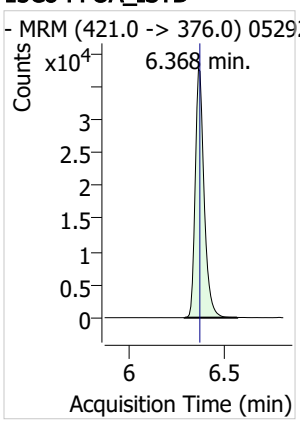
13C3-HFPODA

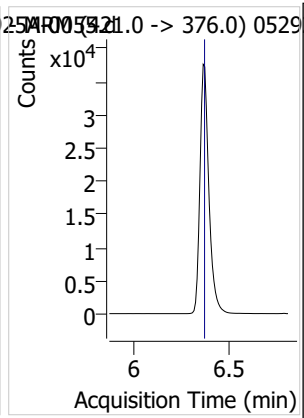


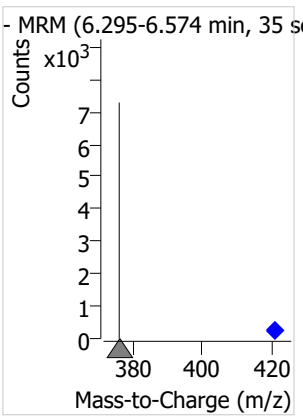
13C8-PFOSA_ISTD



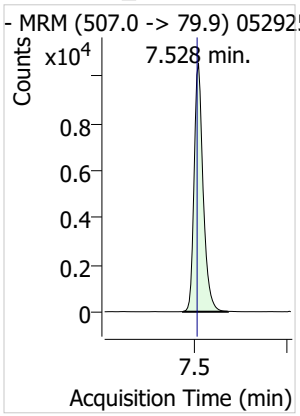
13C8-PFOA_ISTD

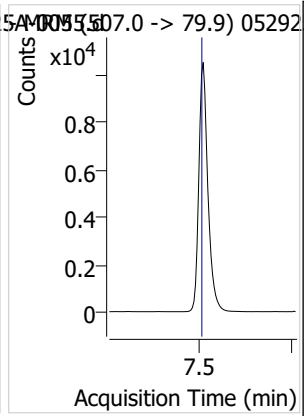


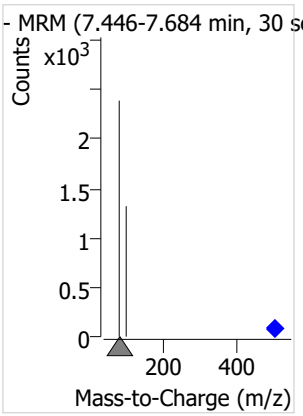




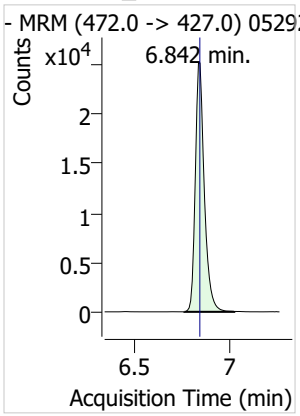
13C8-PFOS_ISTD

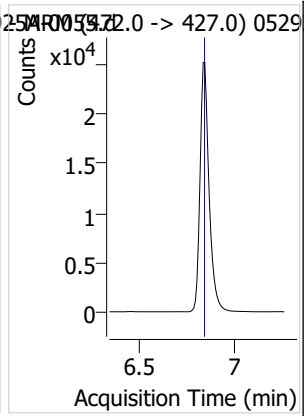


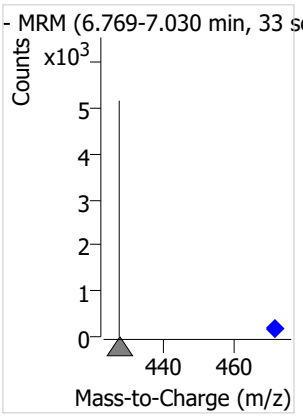




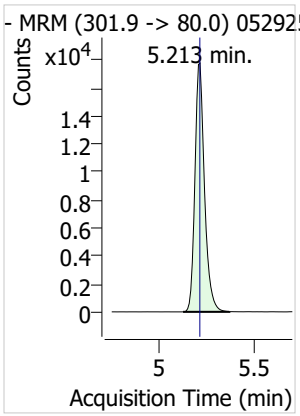
13C9-PFNA_ISTD

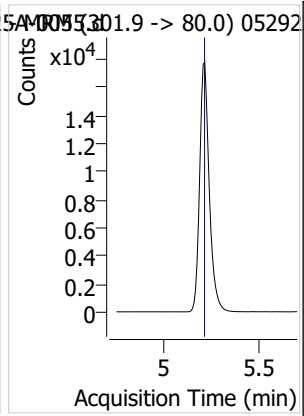


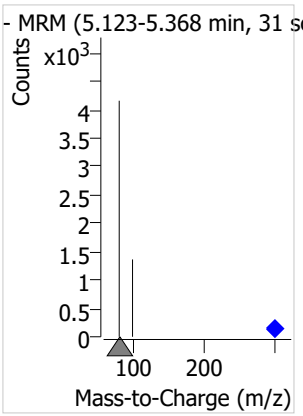




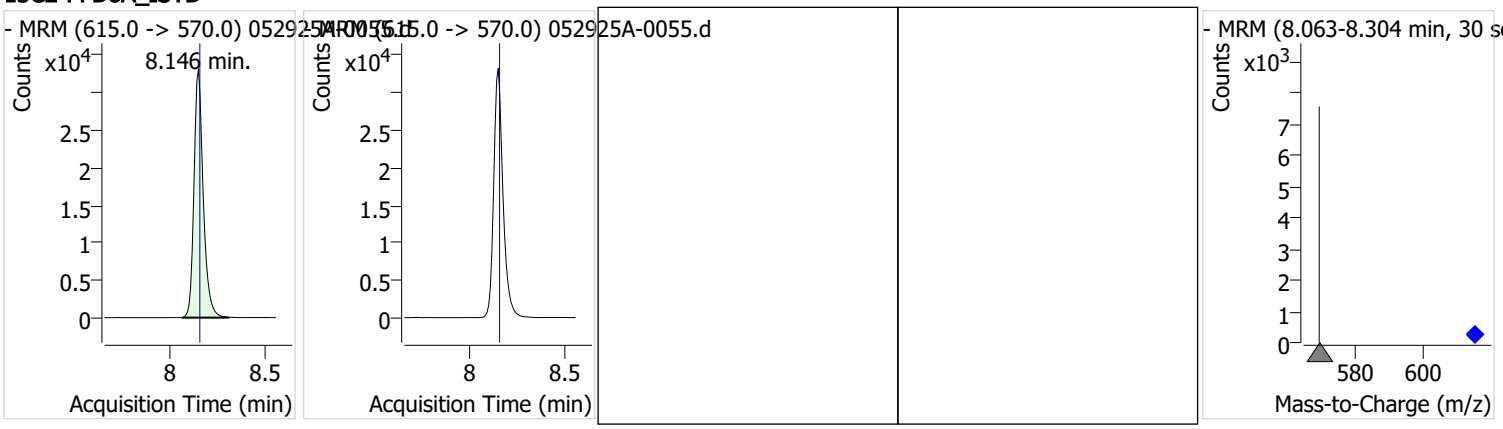
13C3-PFBS



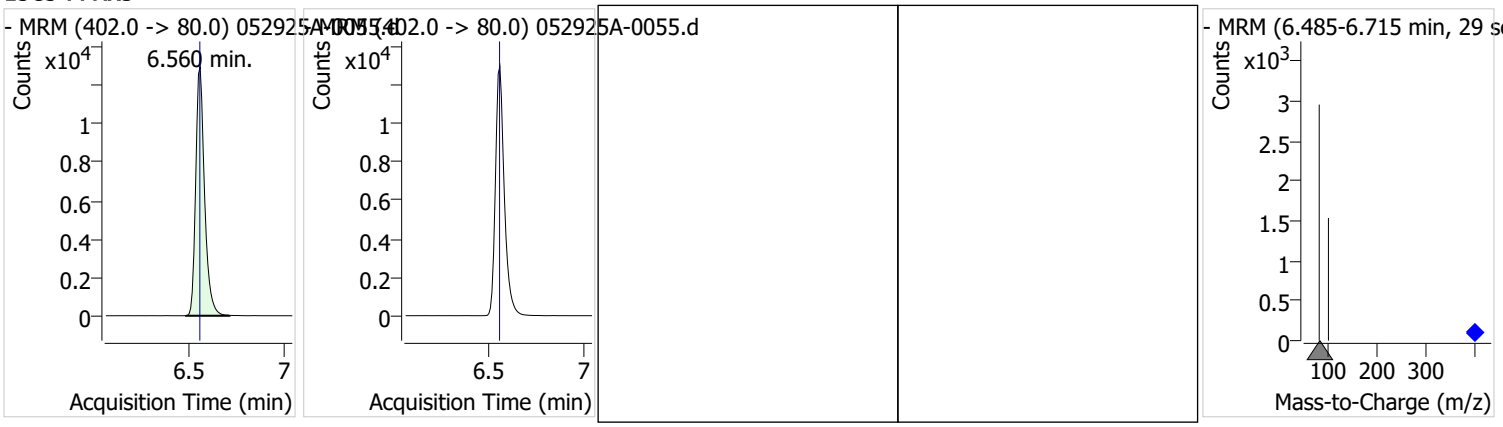




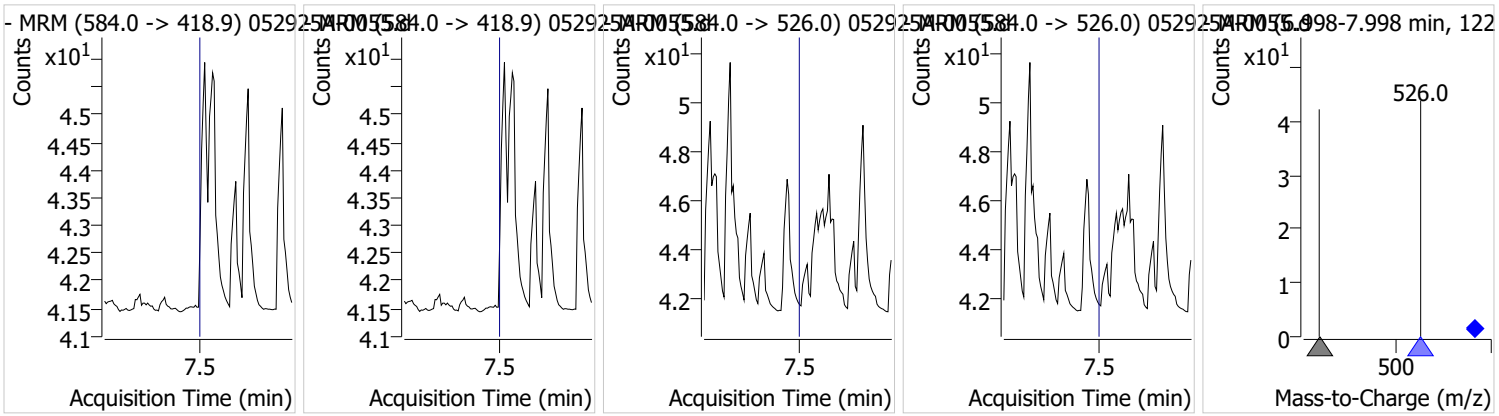
13C2-PFDoA_ISTD



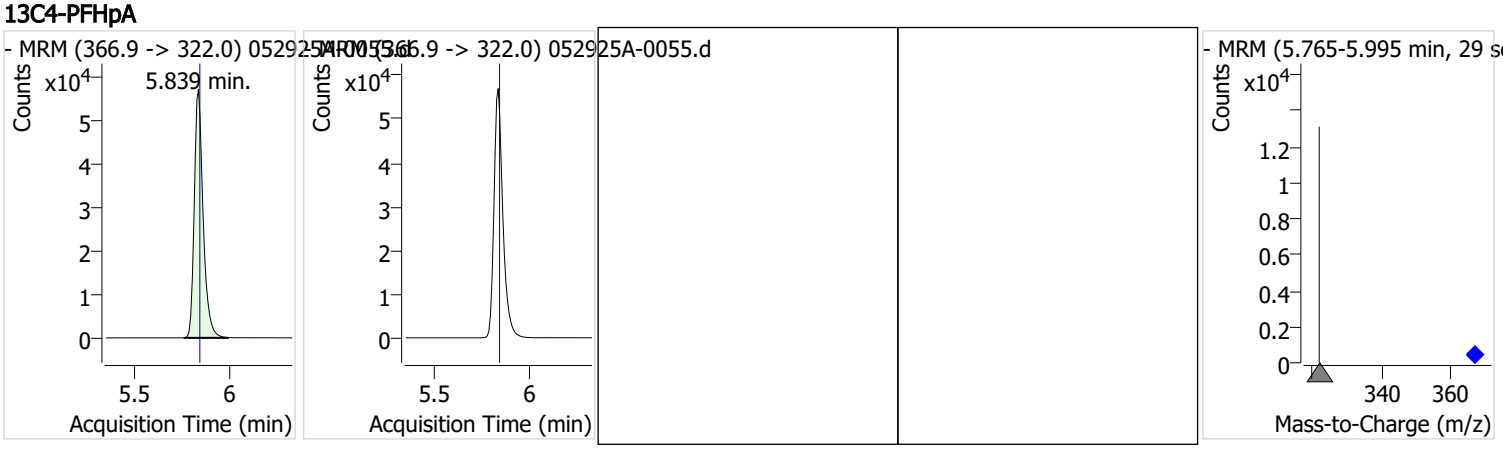
13C3-PFHxS



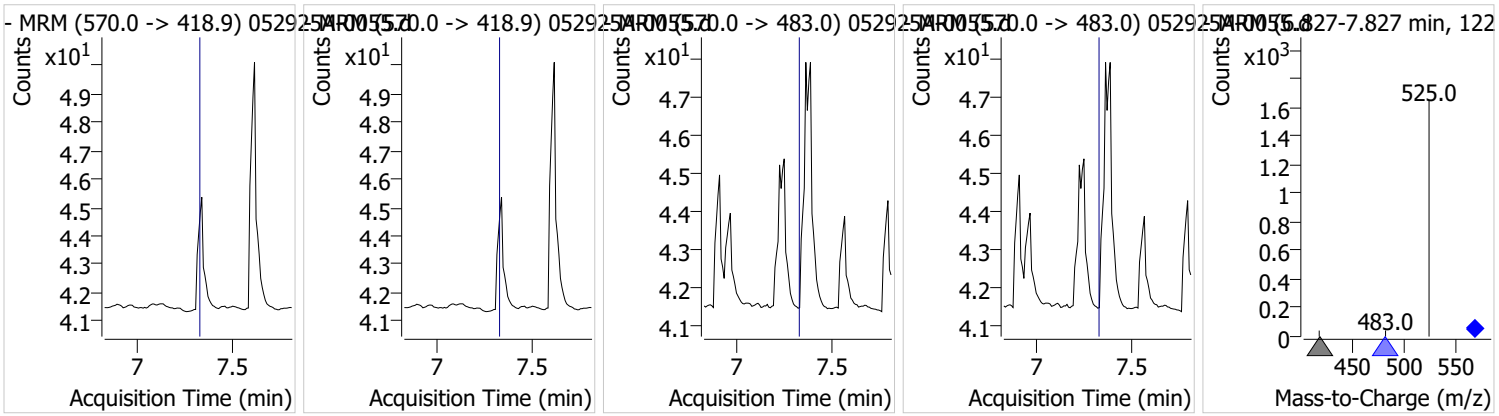
NEtFOSAA



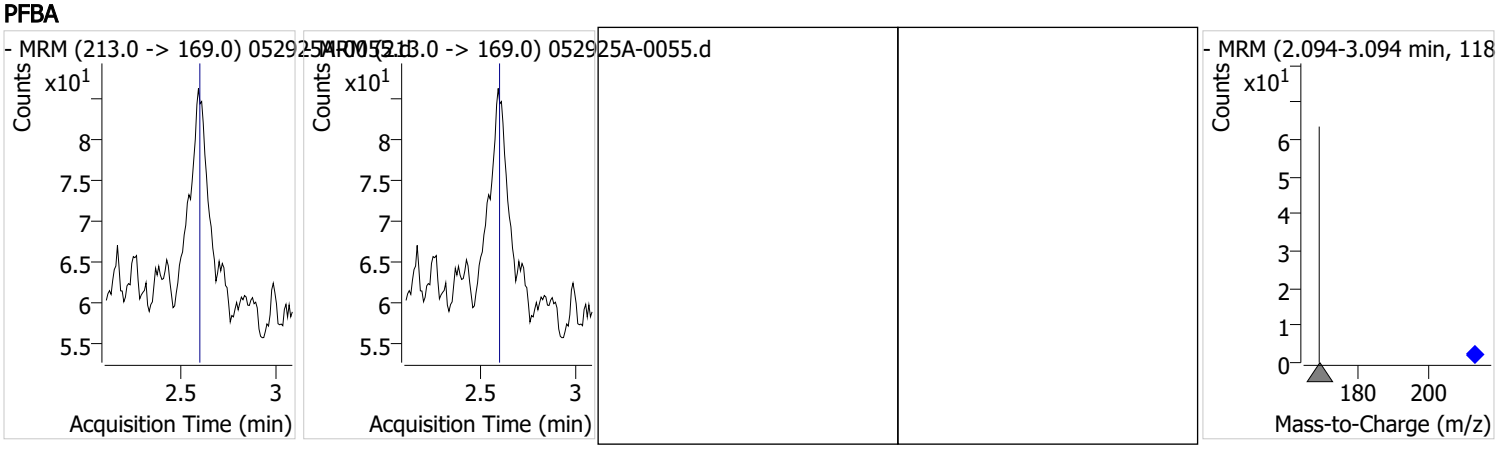
13C4-PFHpA



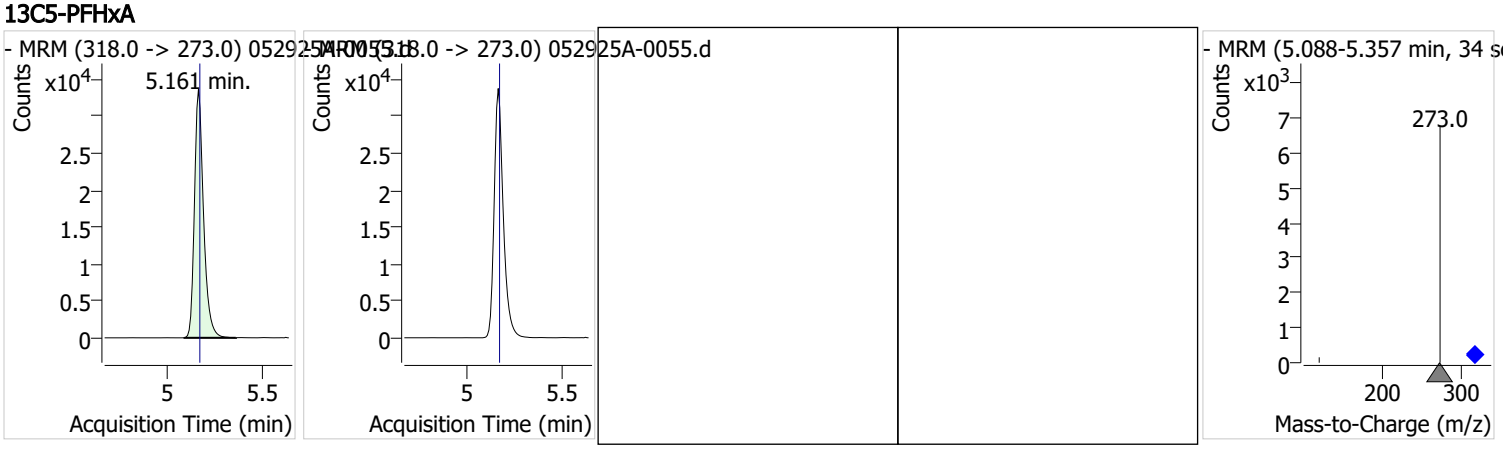
NMeFOSAA



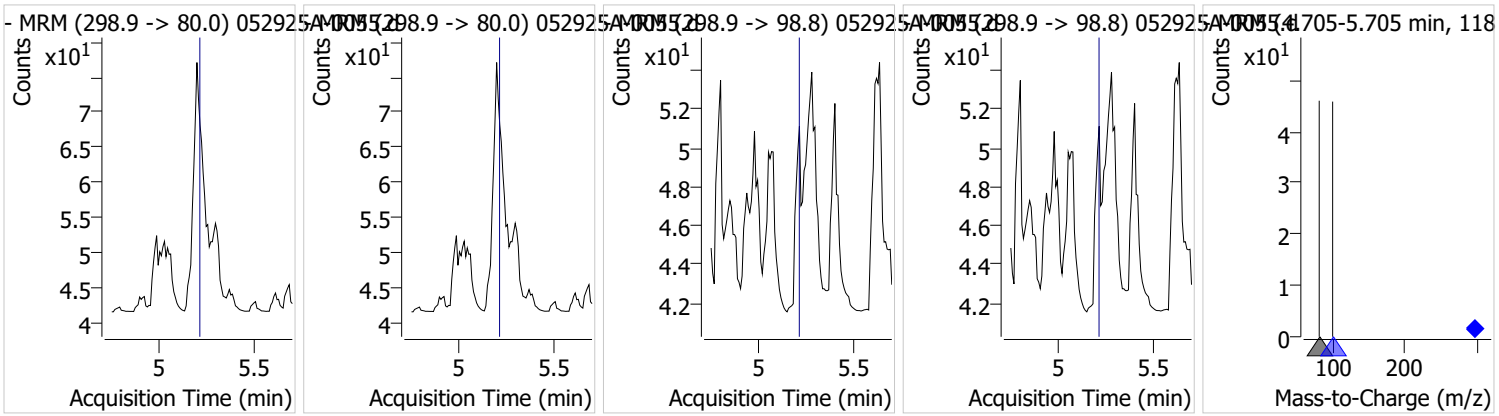
PFBA



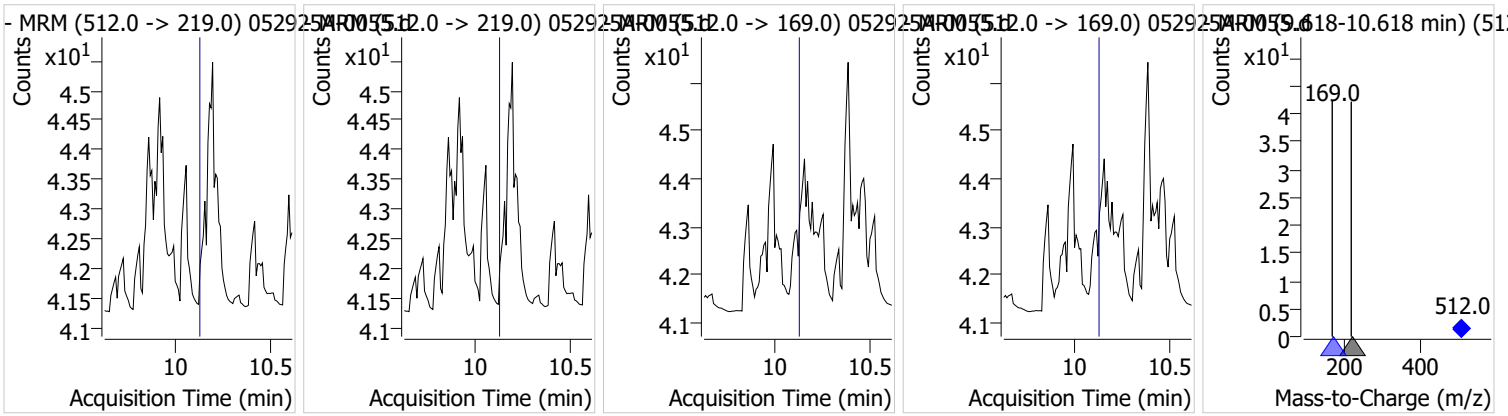
13C5-PFHxA



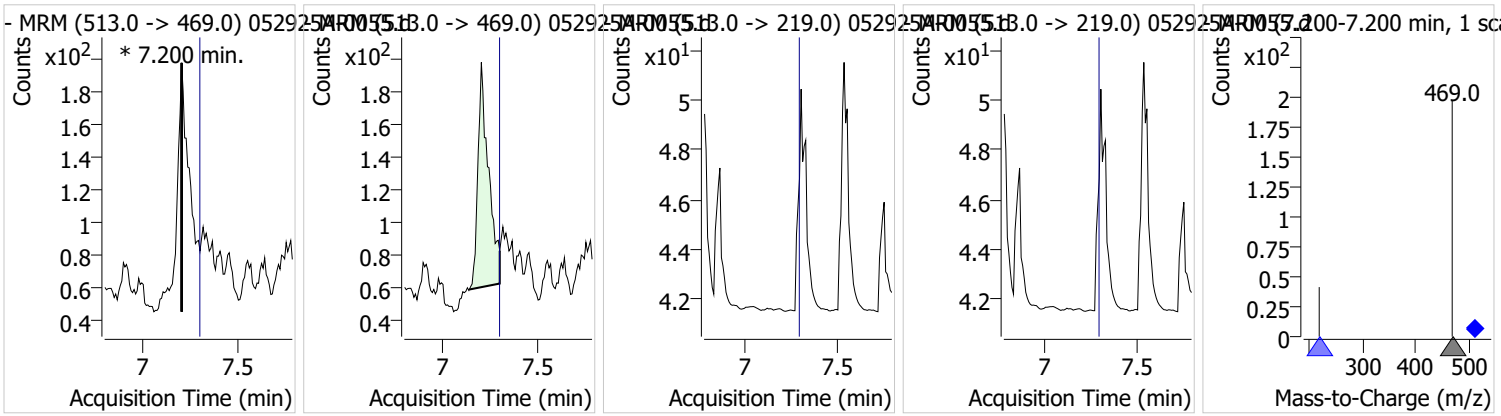
PFBS



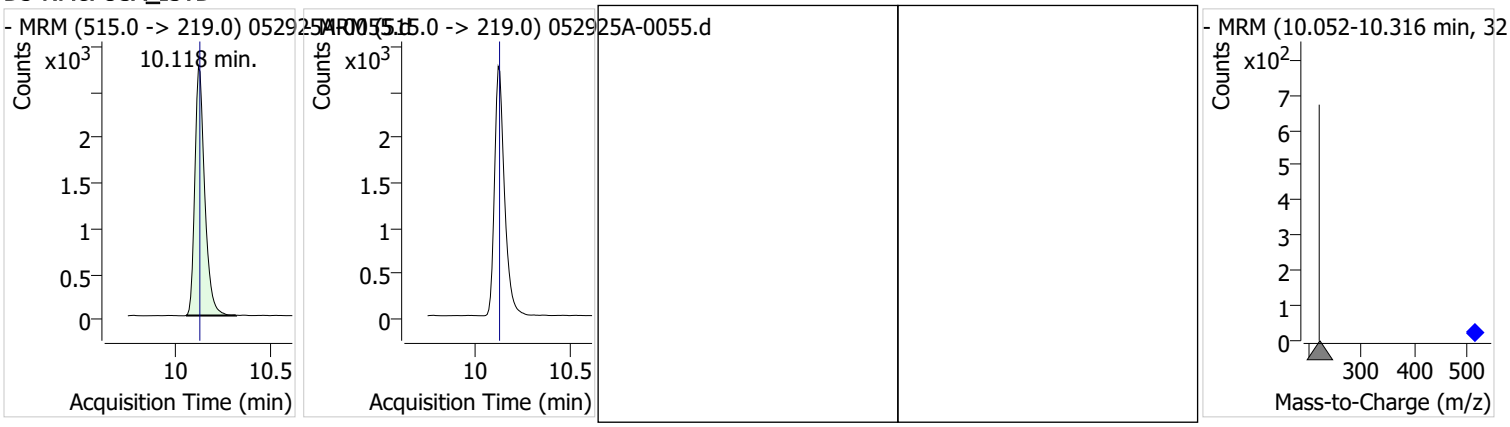
NMeFOSA



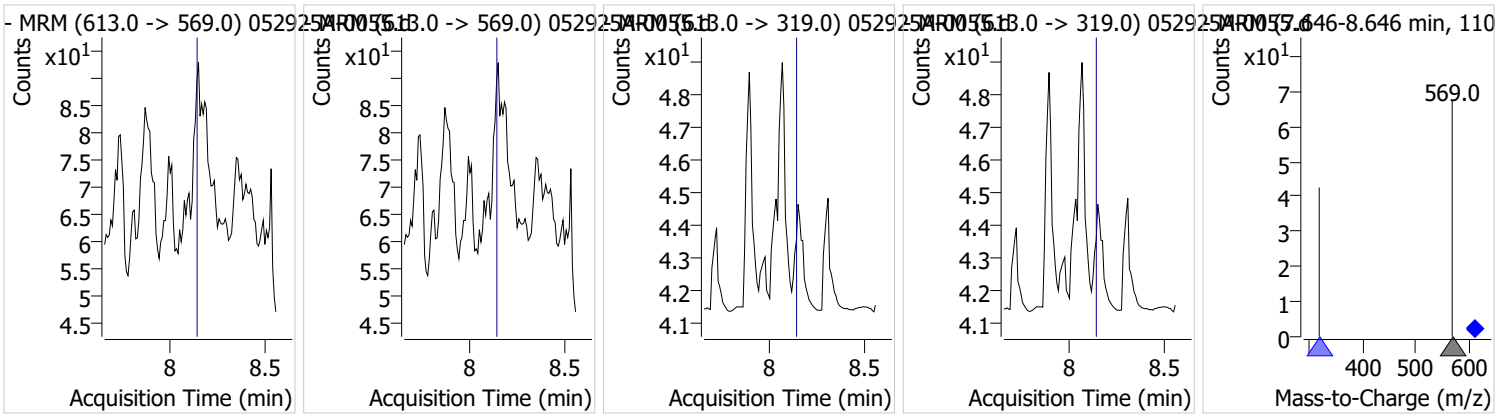
PFDA



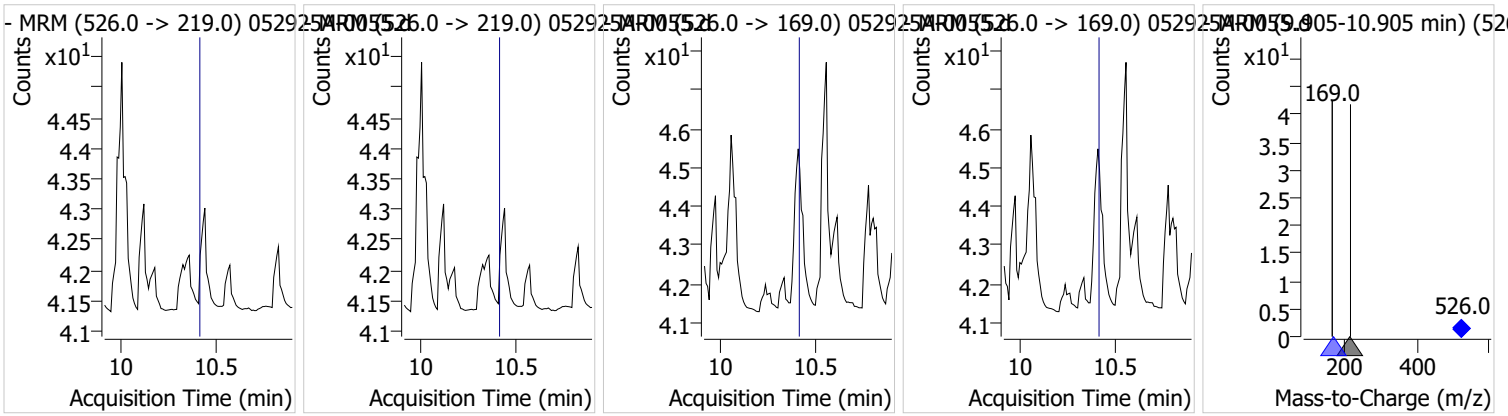
D3-NMeFOSA_ISTD



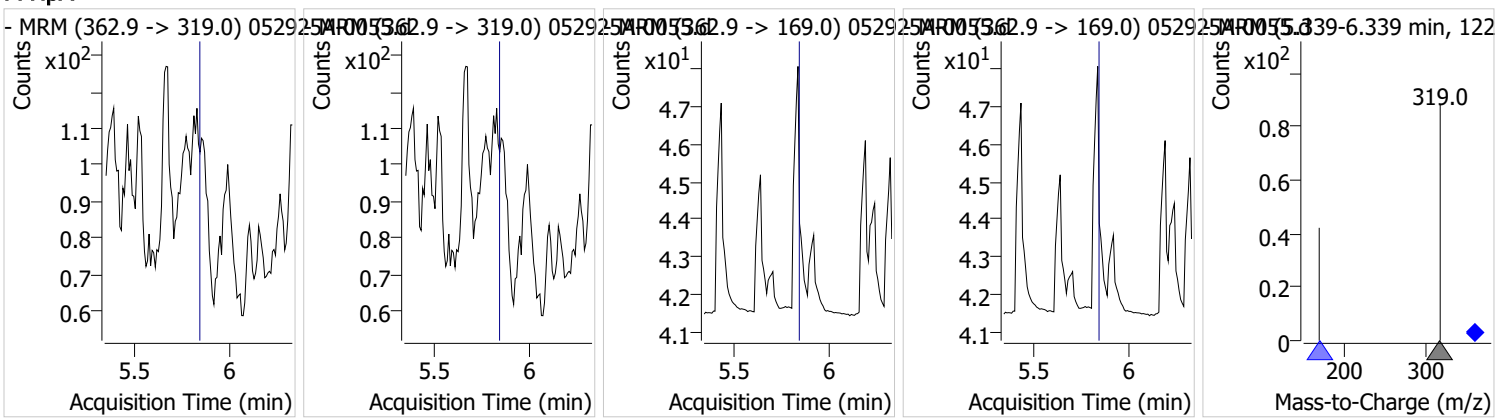
PFDoA



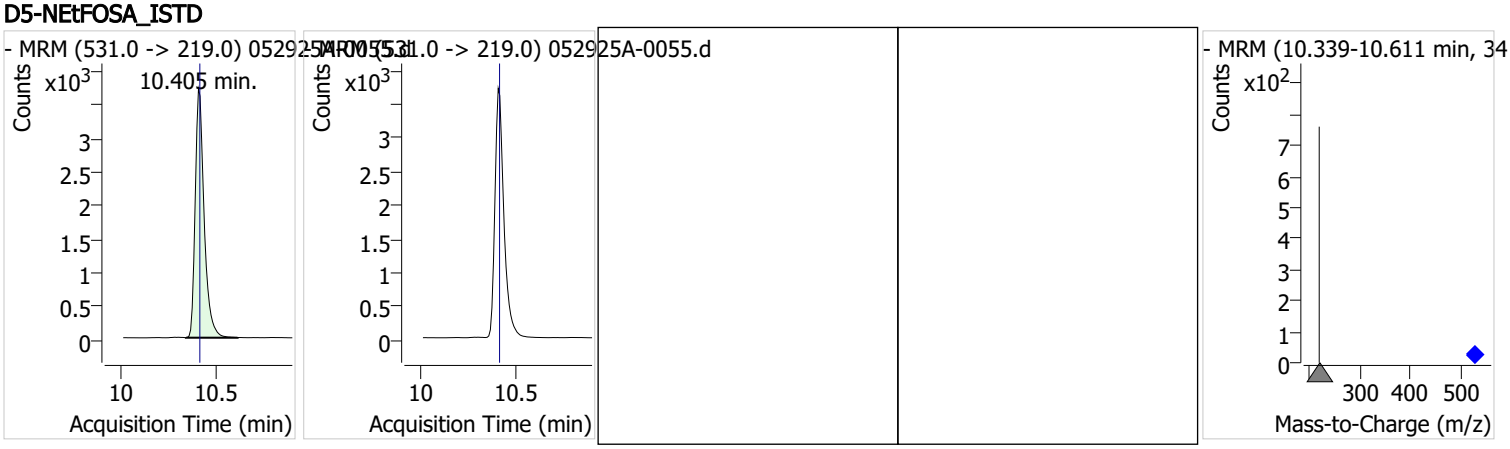
NEtFOSA



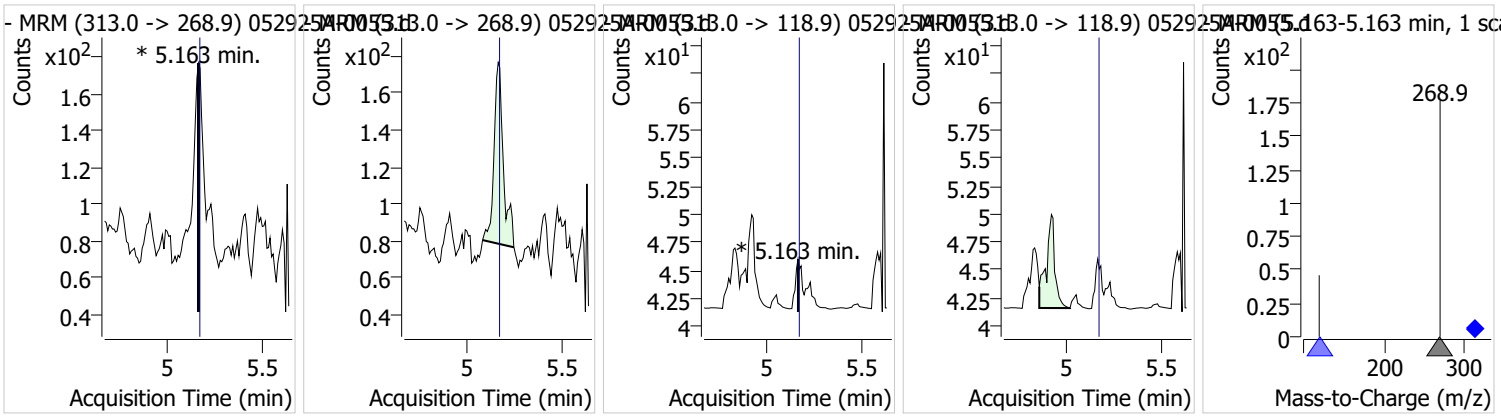
PFHpA



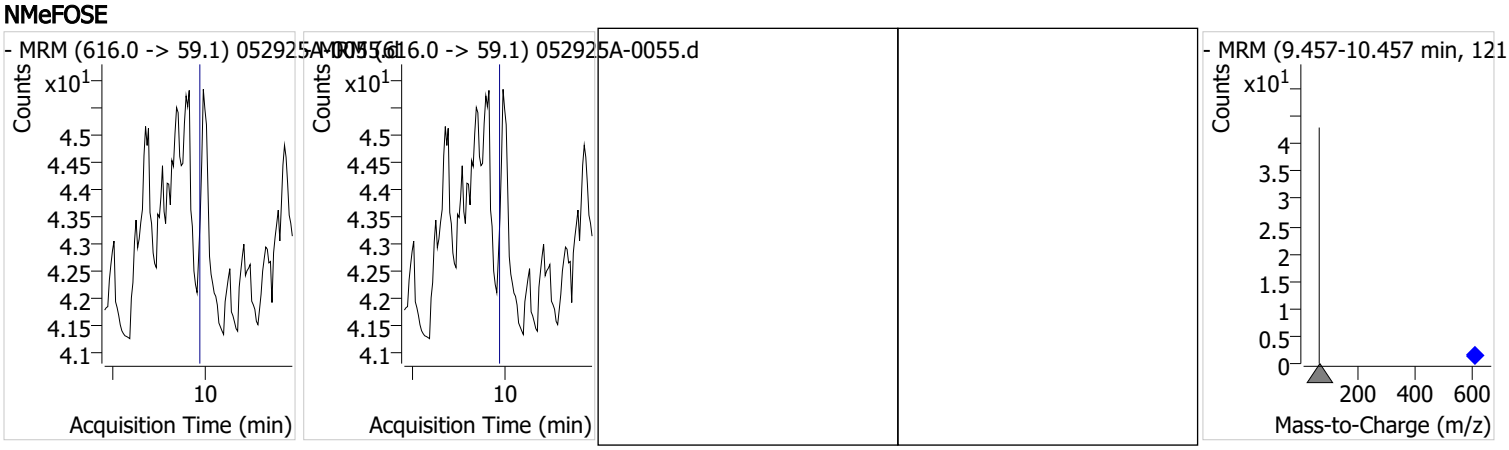
D5-NEtFOSA_ISTD



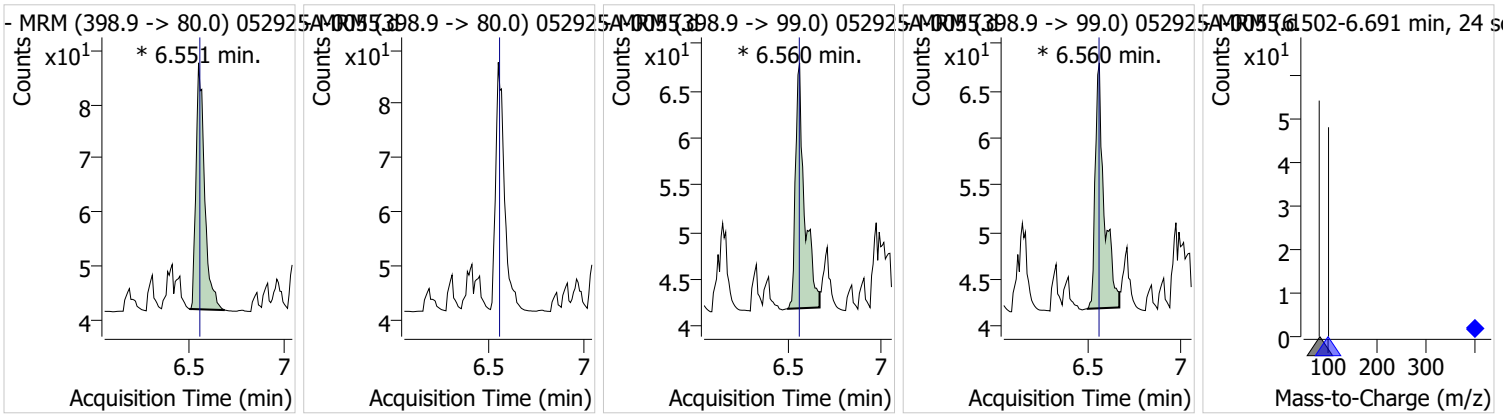
PFHxA



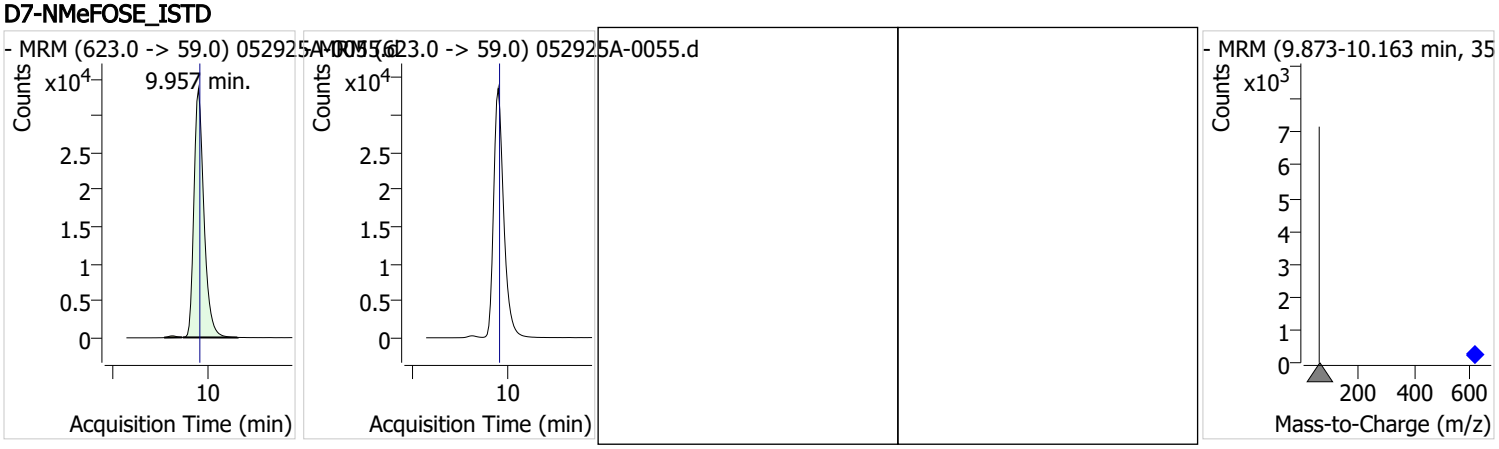
NMeFOSE



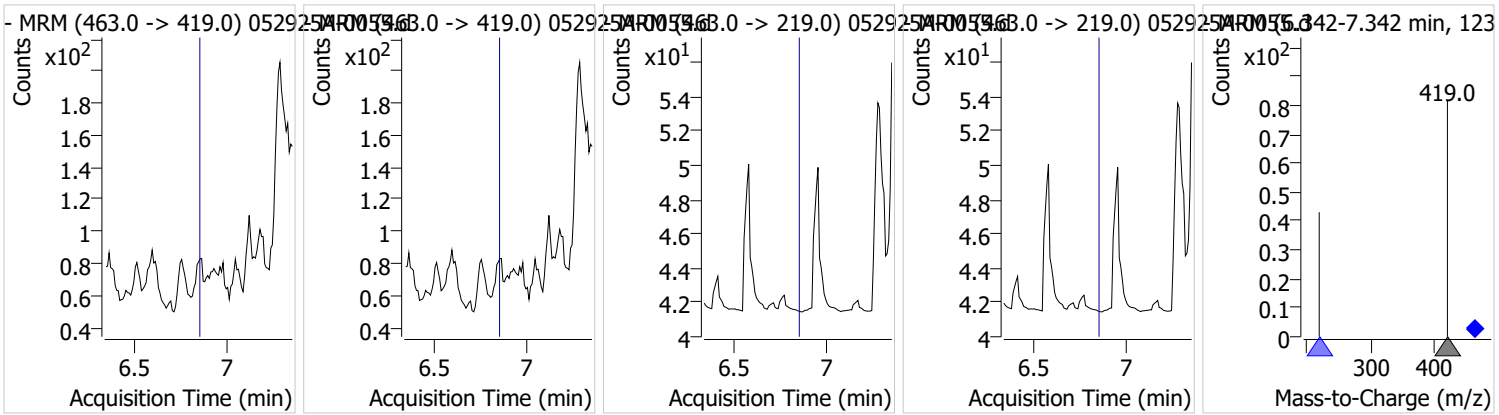
PFHxS



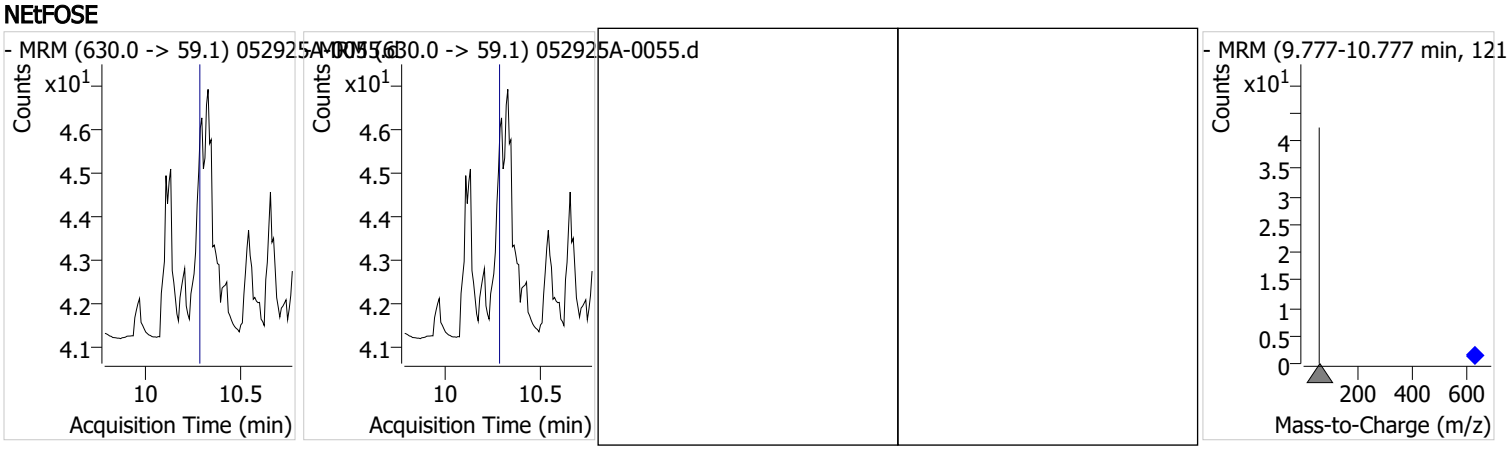
D7-NMeFOSE_ISTD



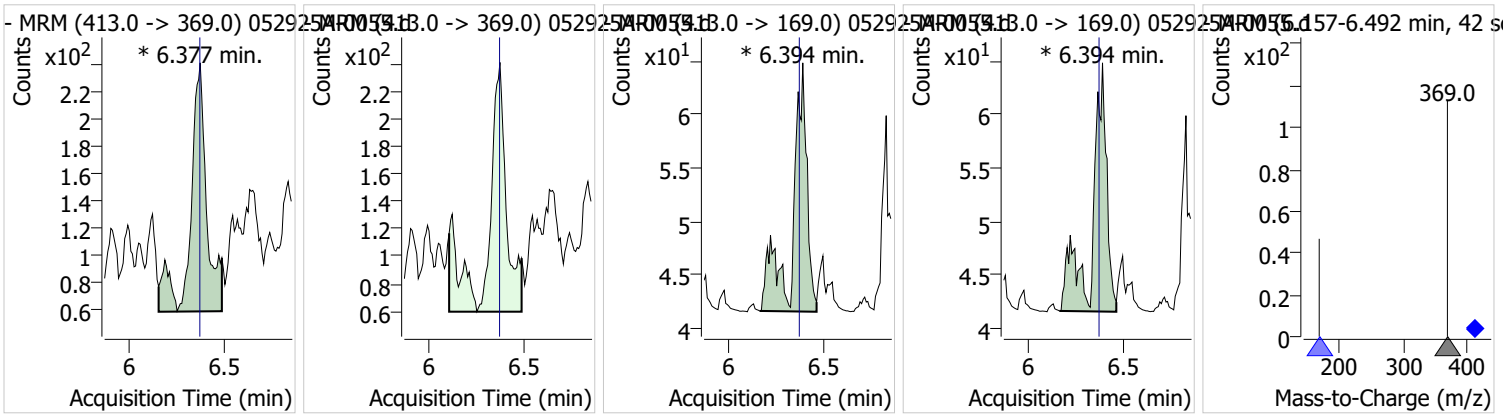
PFNA



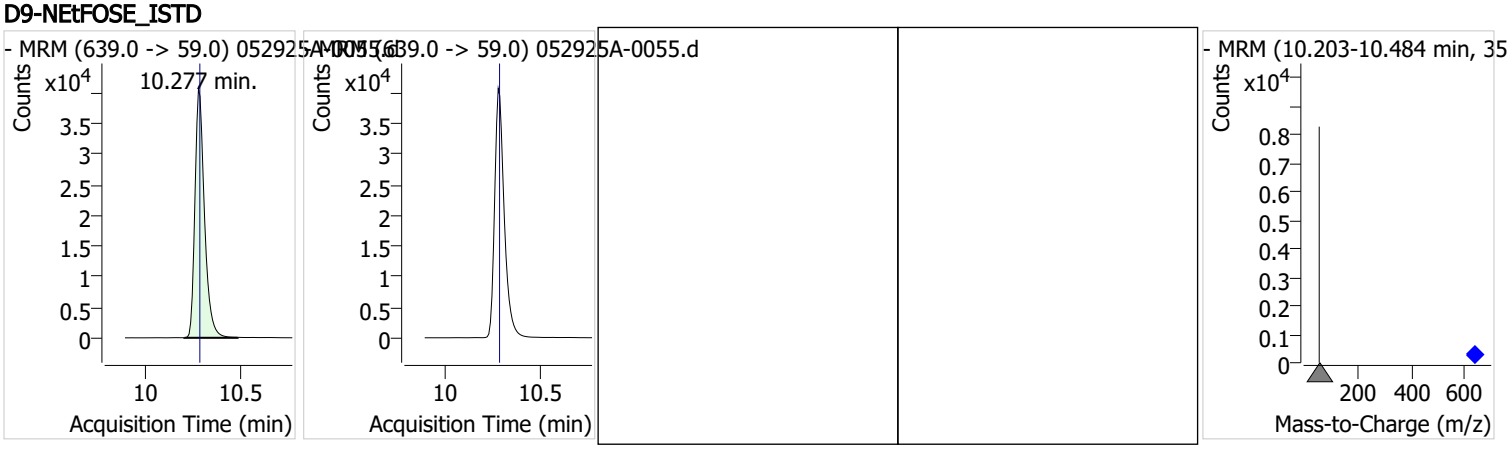
NEtFOSE



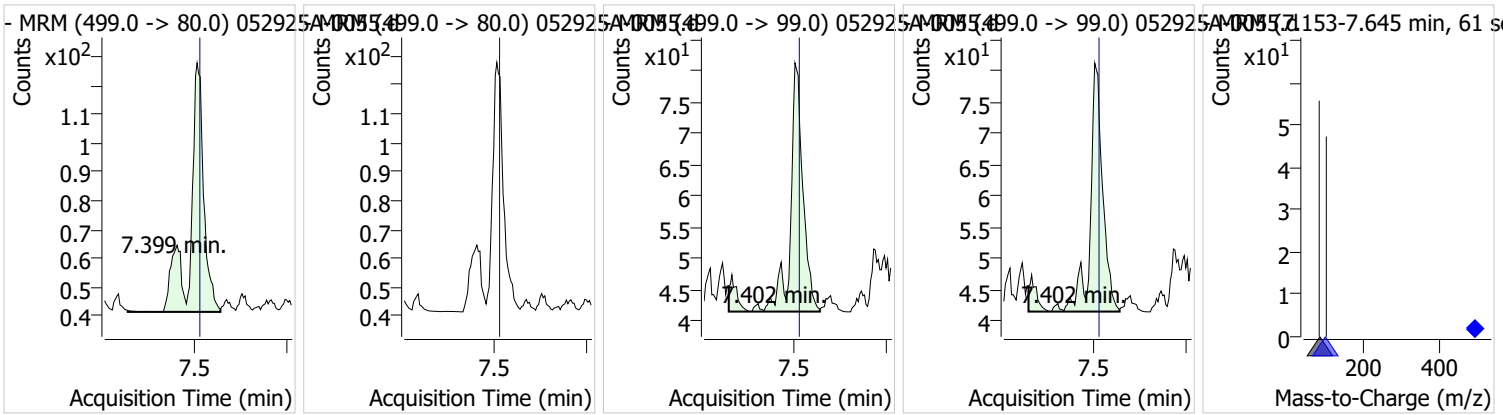
PFOA



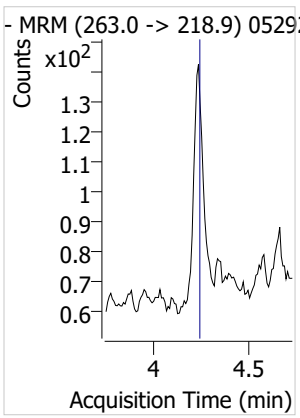
D9-NEtFOSE_ISTD

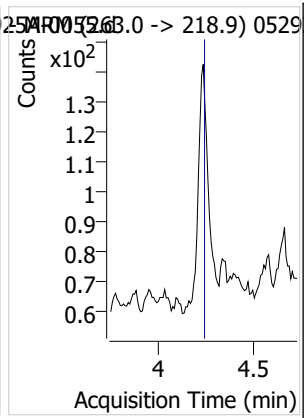


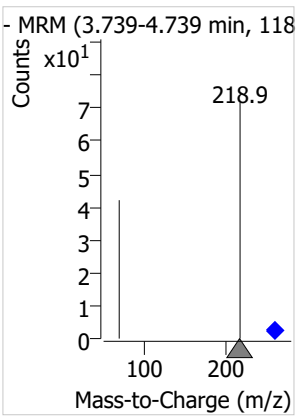
PFOS



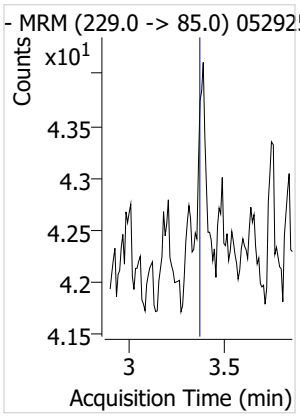
PFPeA

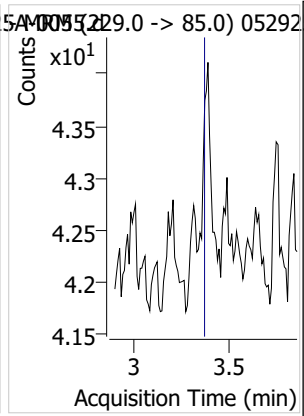


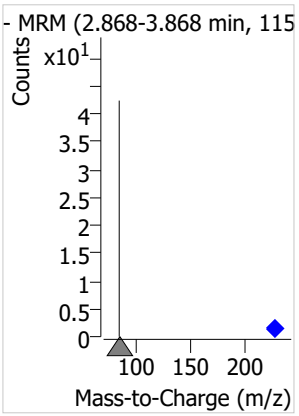




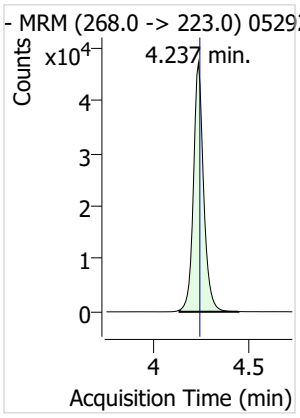
PFMPA

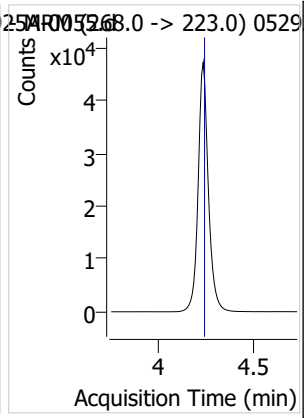


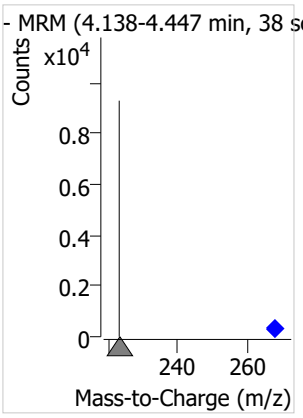




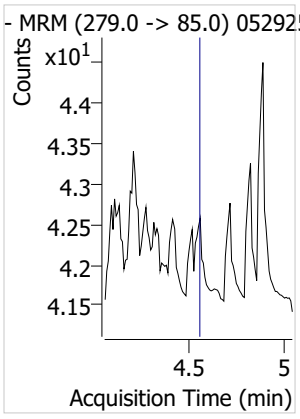
13C5-PFPeA

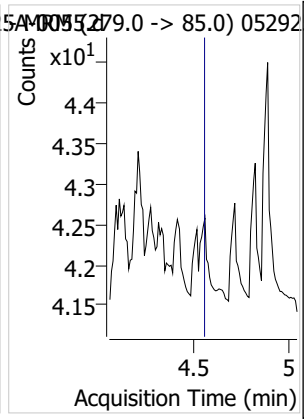


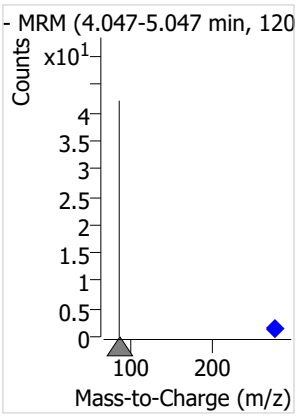




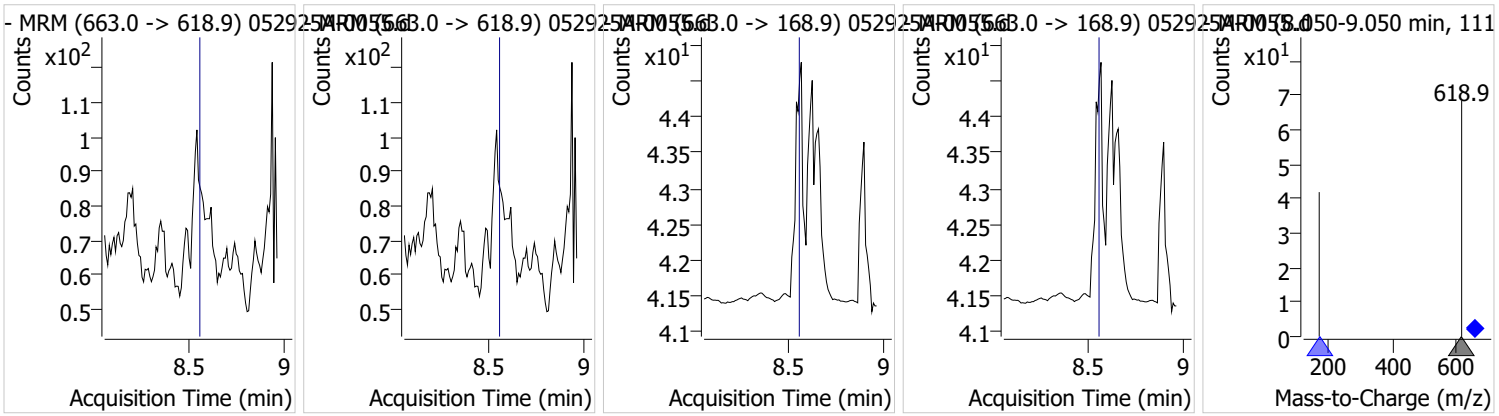
PFMBA



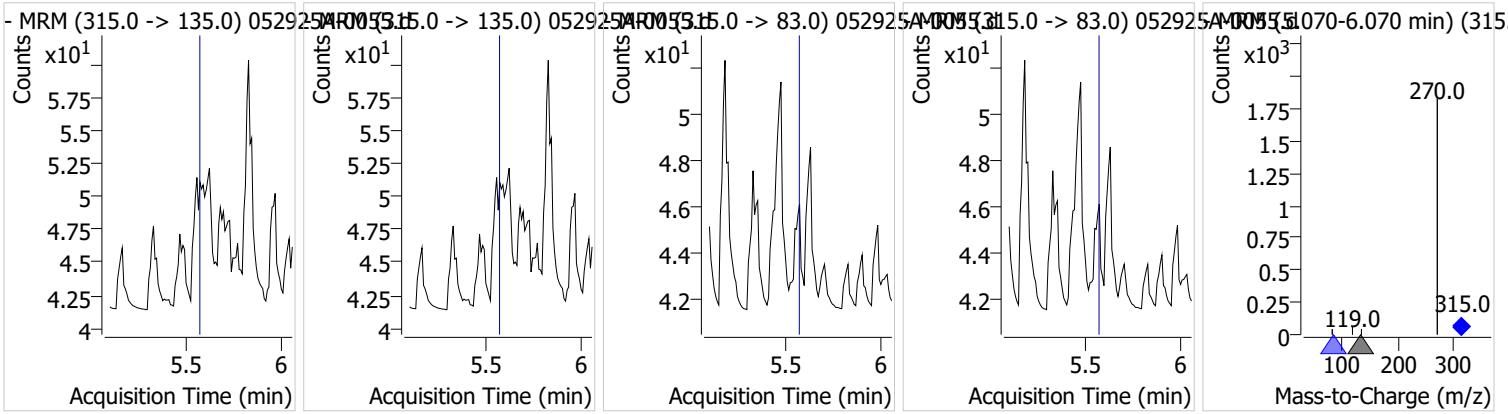




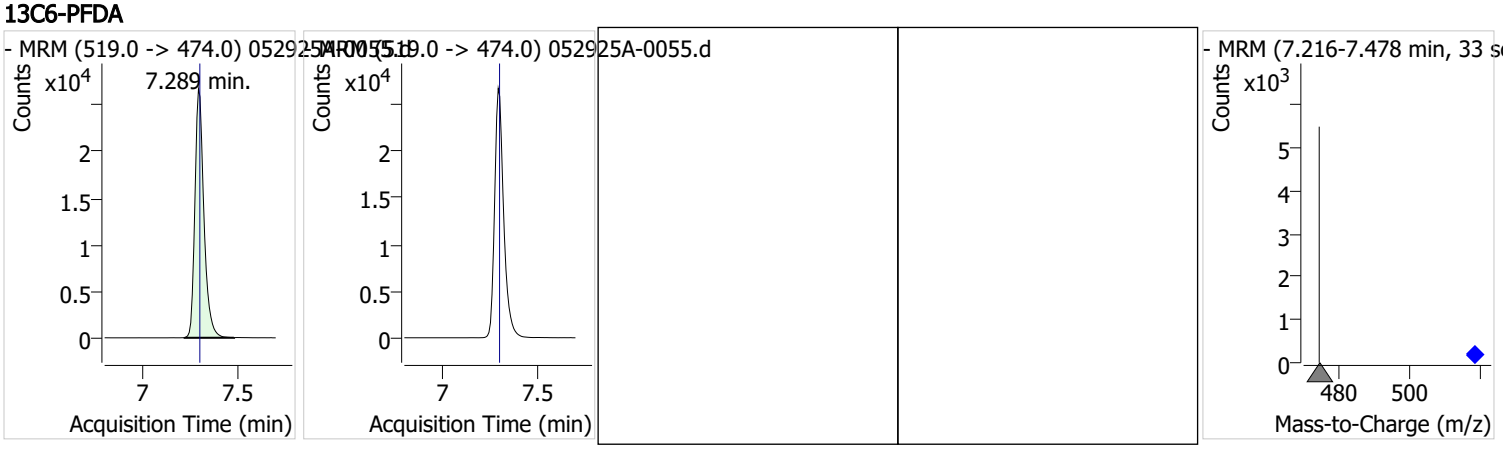
PFTrDA



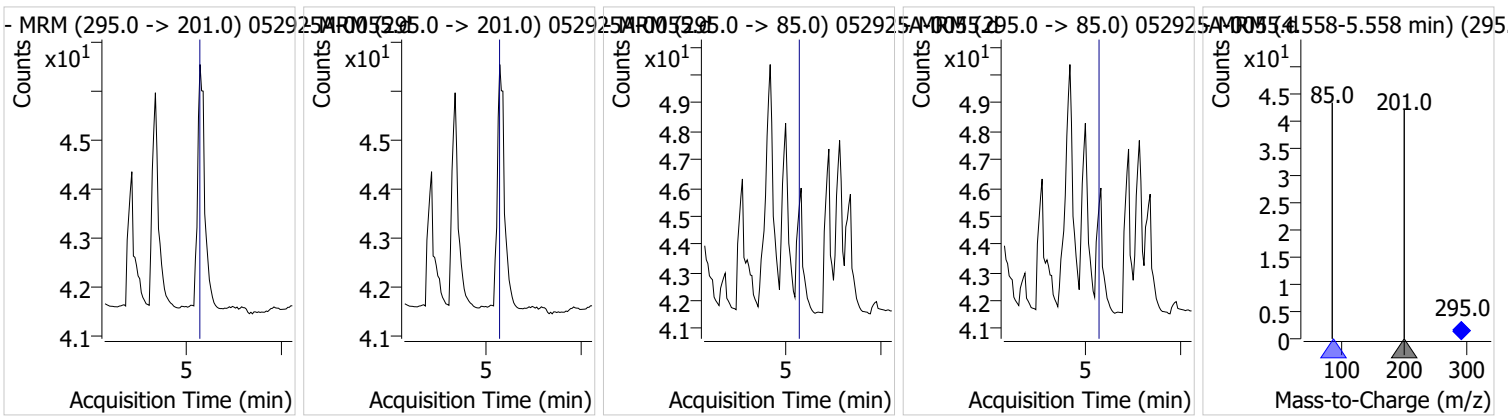
PFEESA



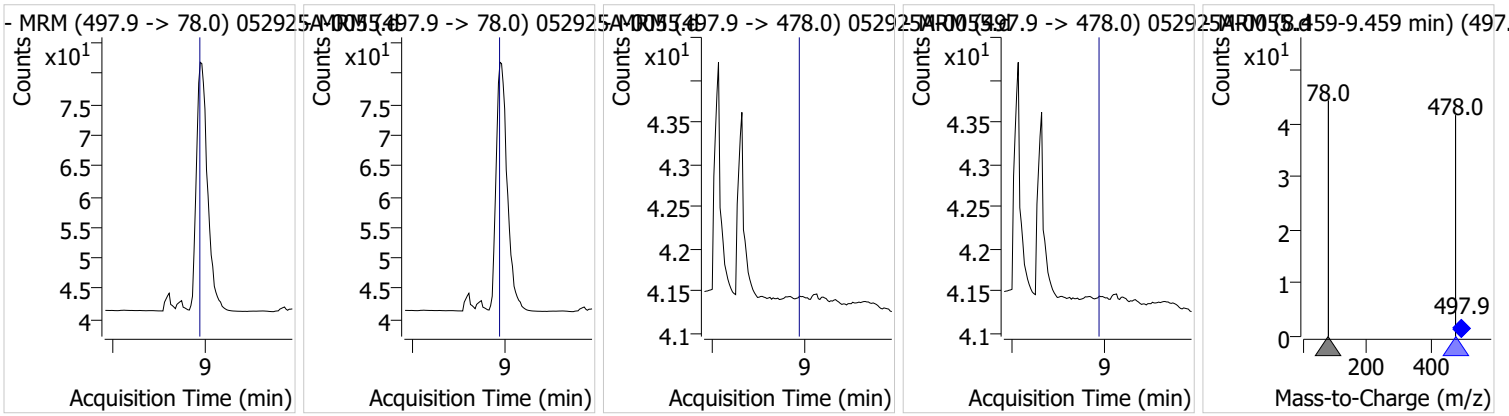
13C6-PFDA



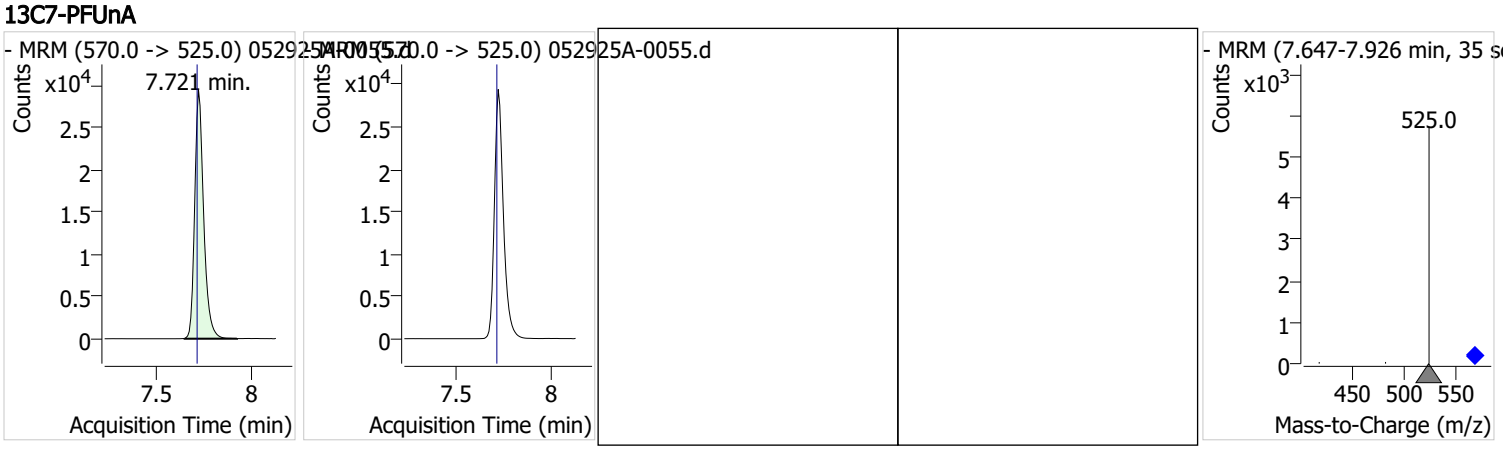
NFDHA



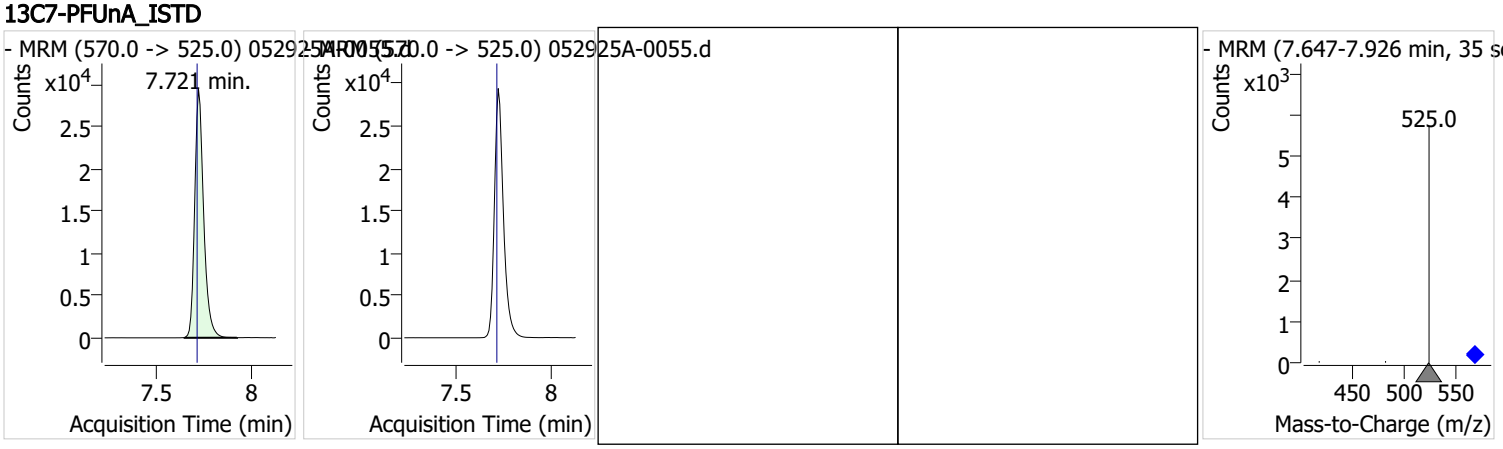
PFOSA



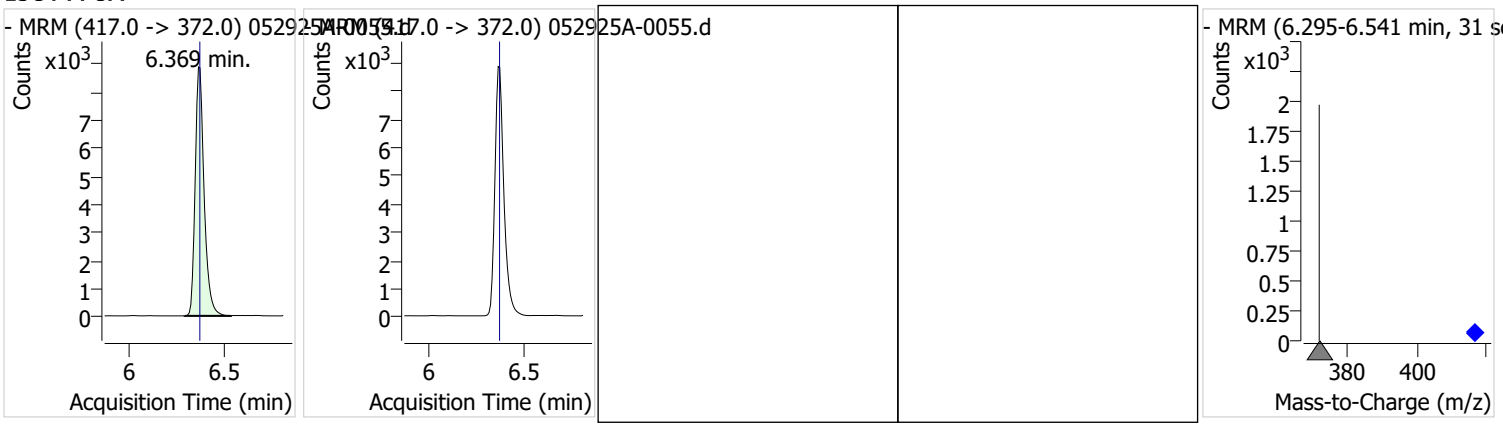
13C7-PFUnA



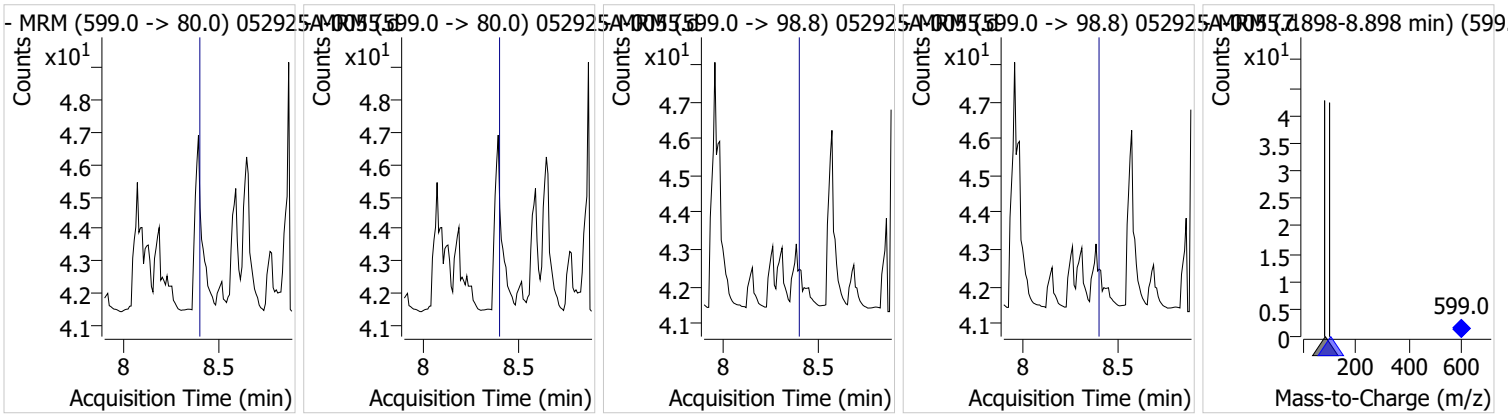
13C7-PFUnA_ISTD



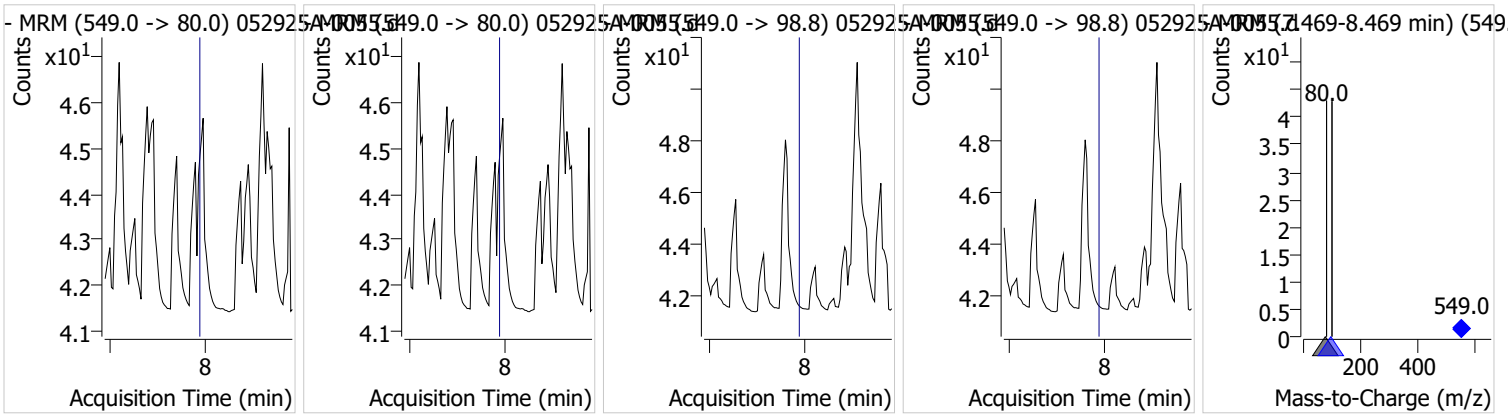
13C4-PFOA



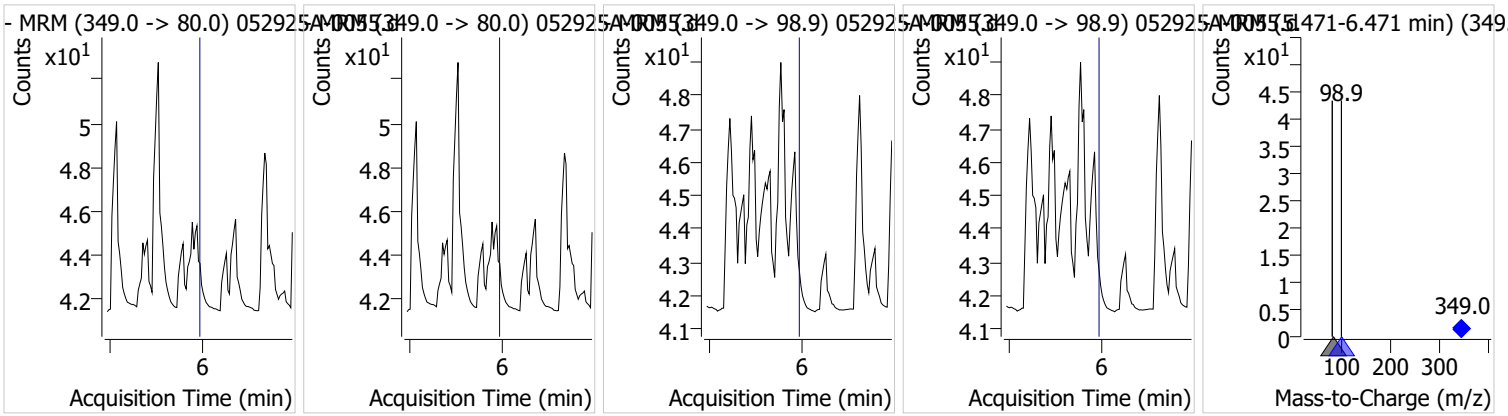
PFDS



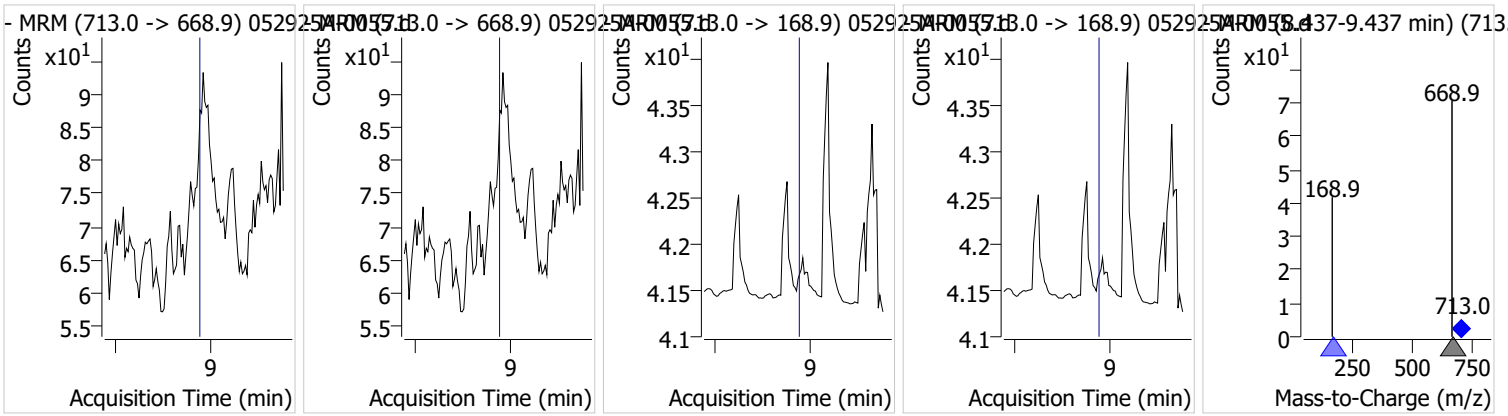
PFNS



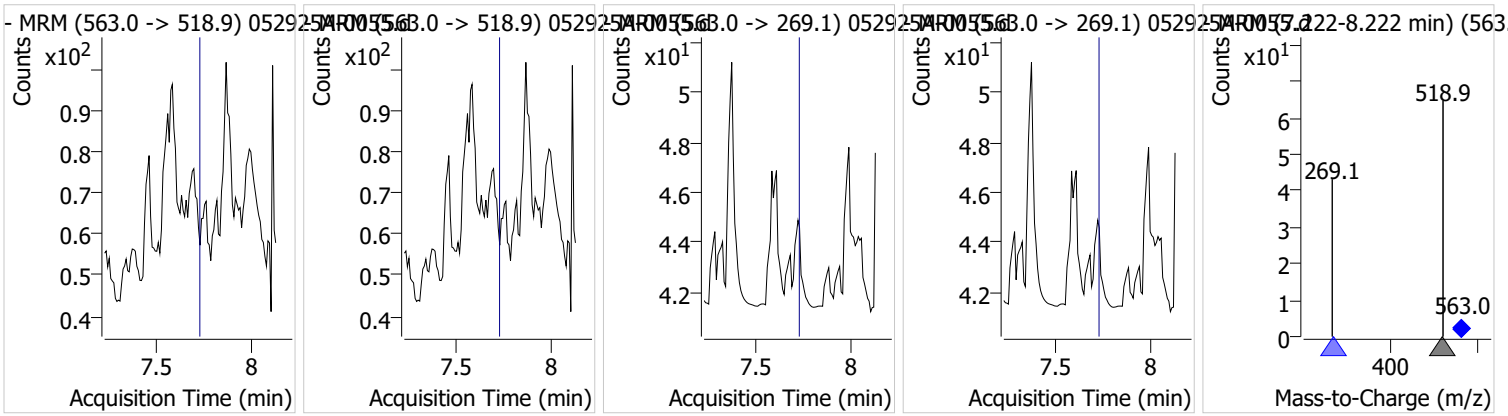
PFPeS



PFTeDA



PFUnA



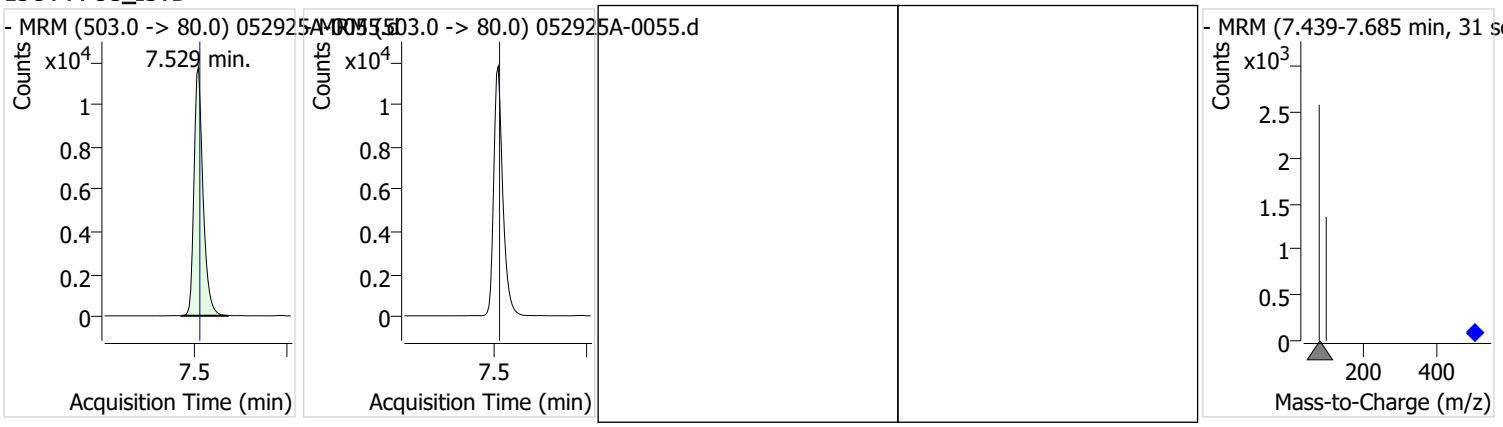
13C2-PFDA_ISTD



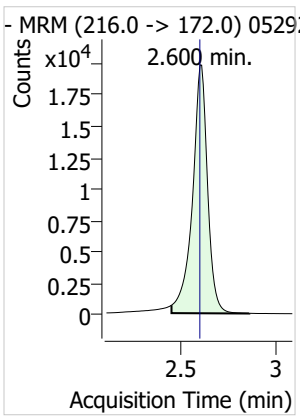
13C2-PFHxA_ISTD

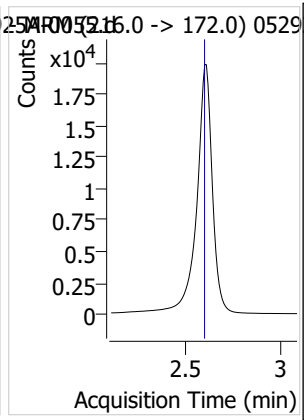


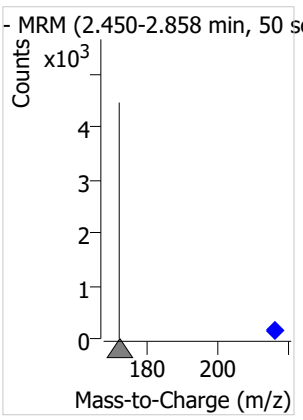
13C4-PFOS_ISTD



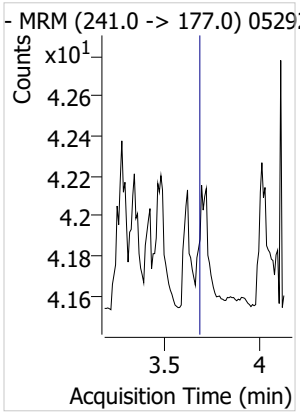
13C3-PFBA

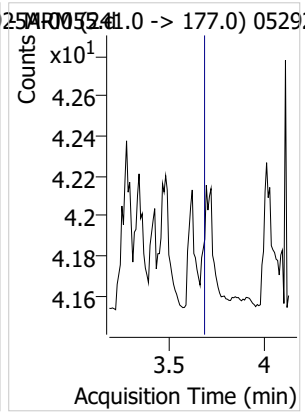


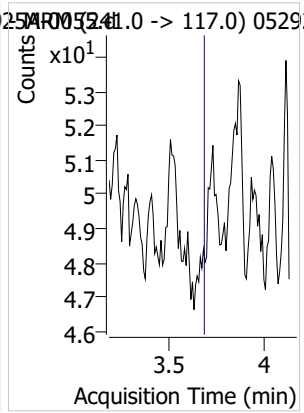


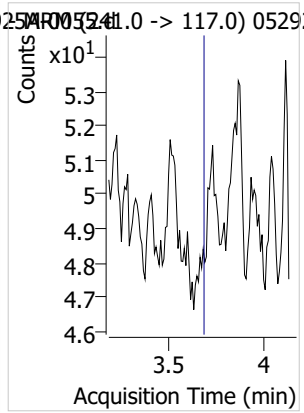


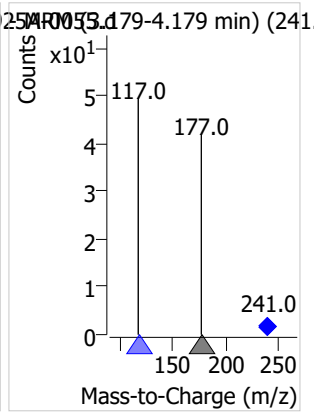
3:3FTCA



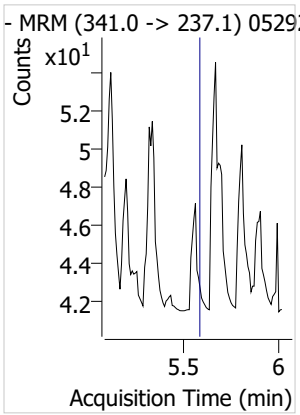


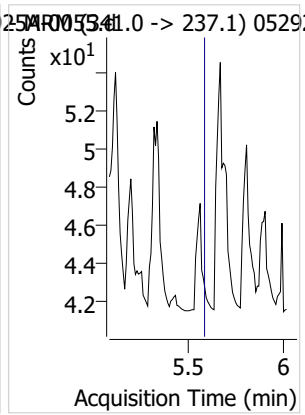


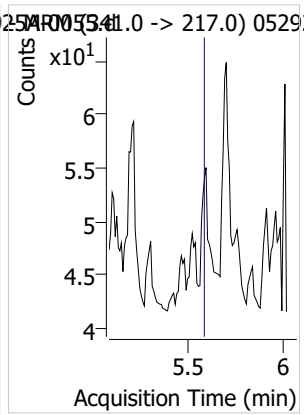


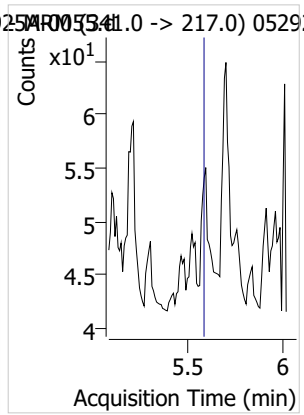


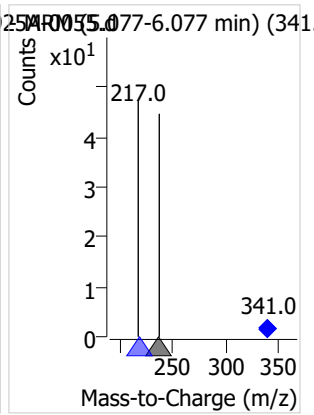
5:3FTCA



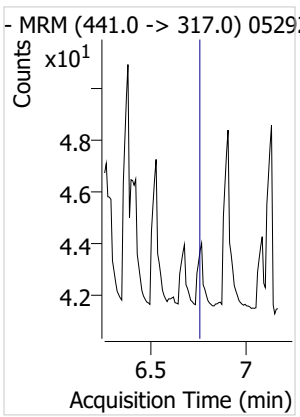


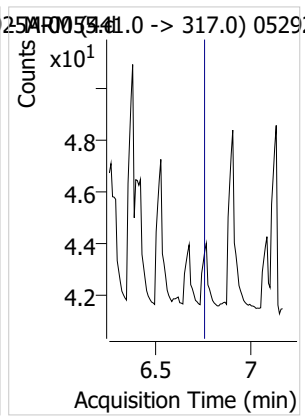


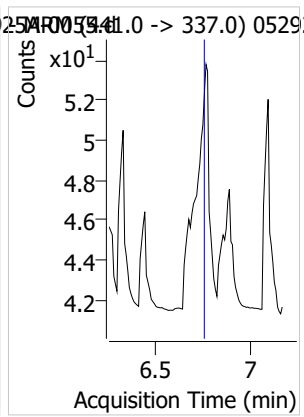


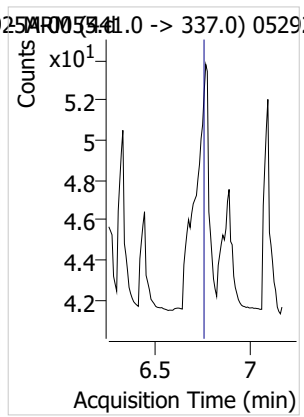


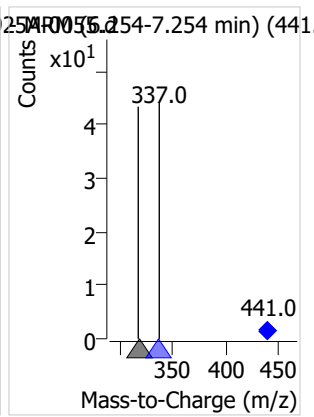
7:3FTCA



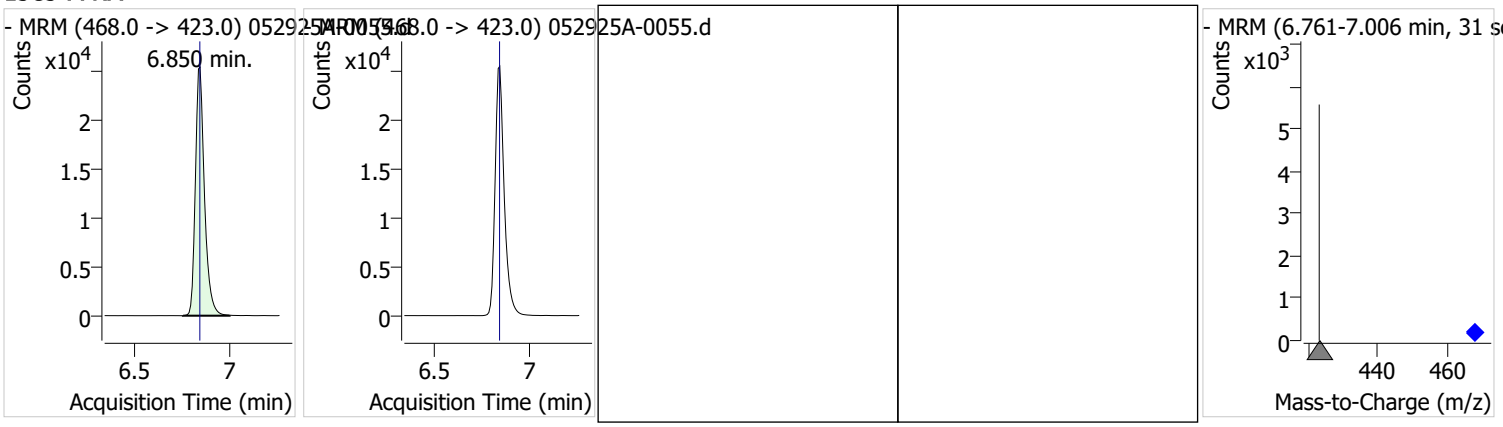




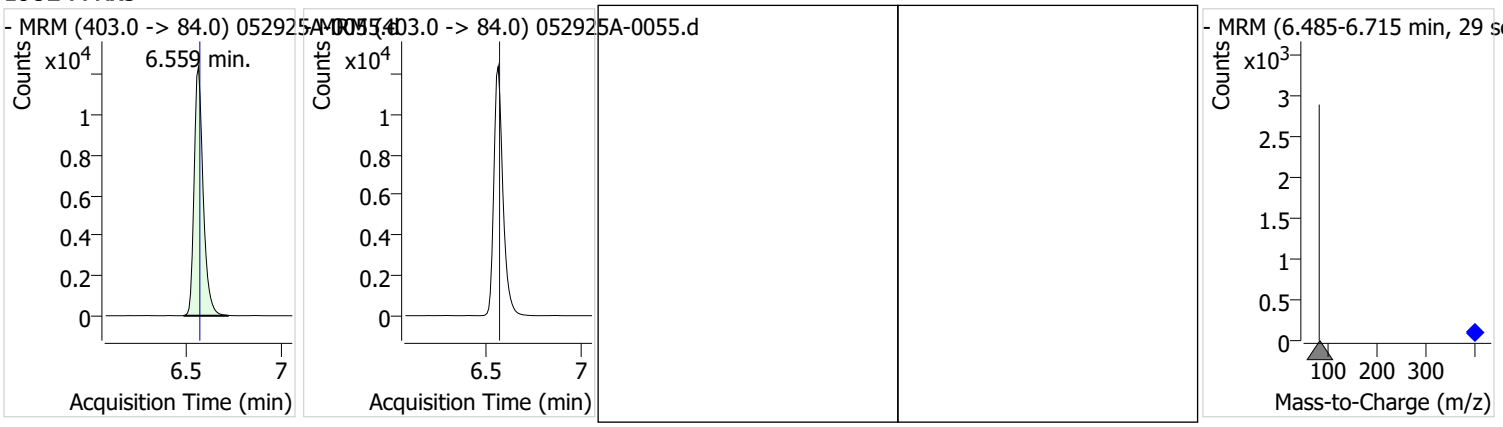




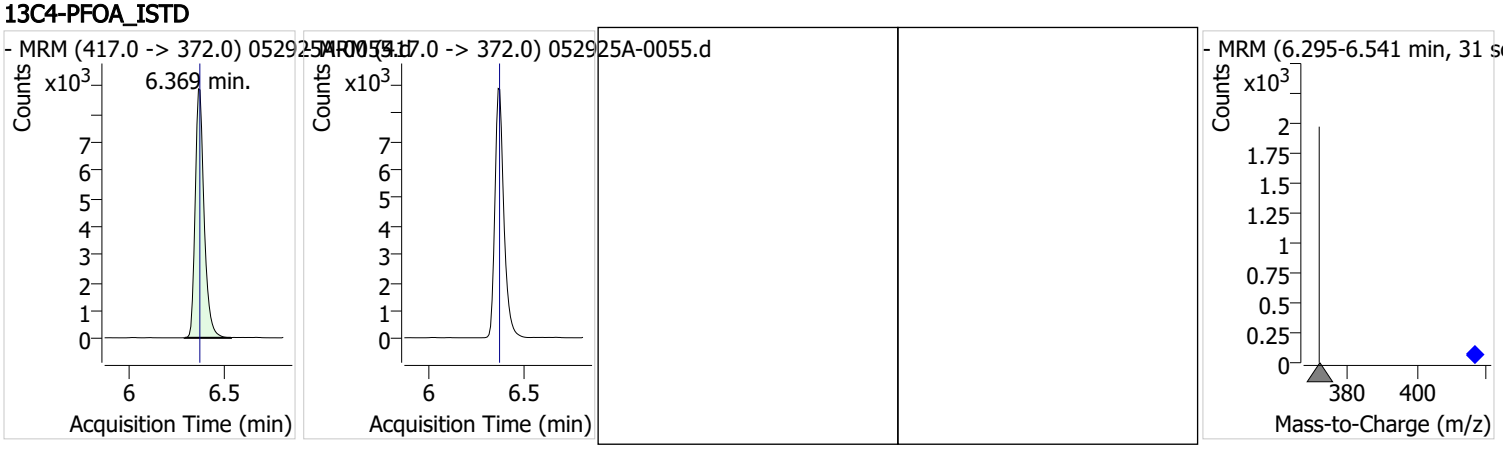
13C5-PFNA



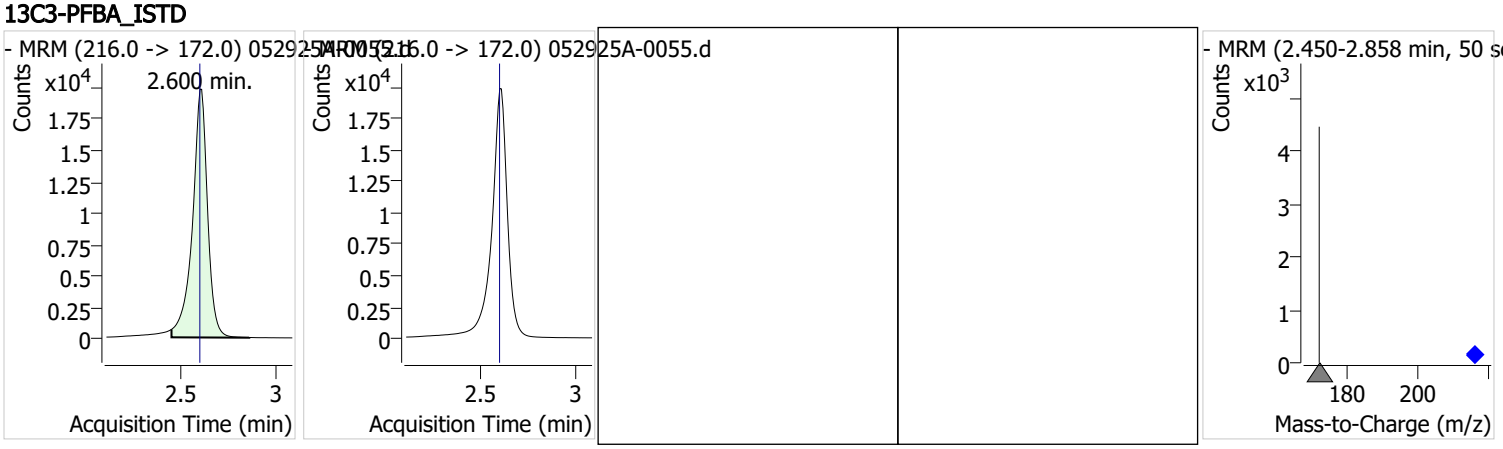
18O2-PFHxS



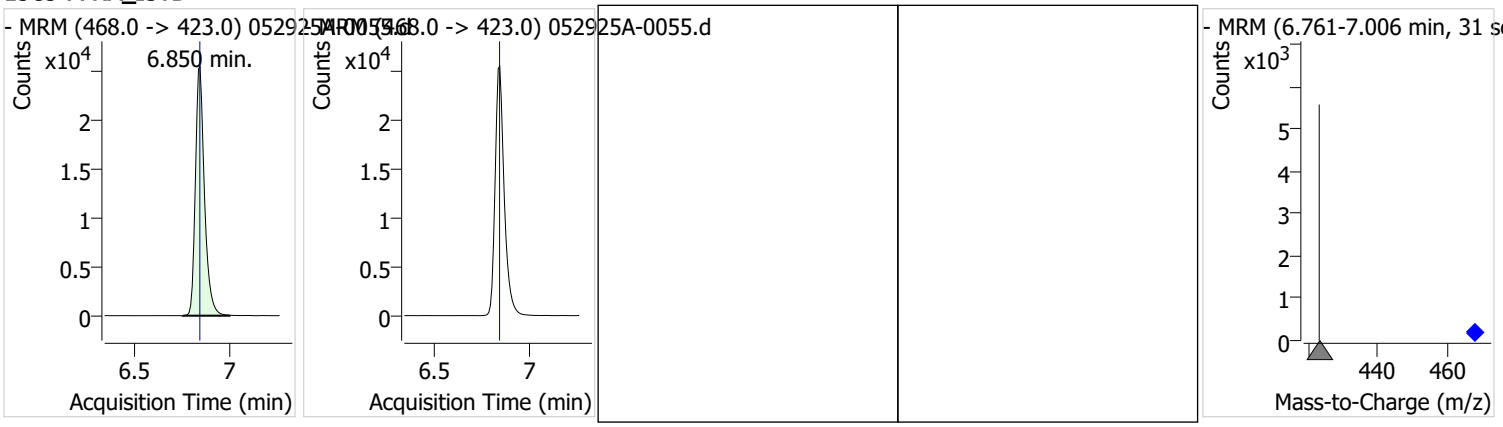
13C4-PFOA_ISTD



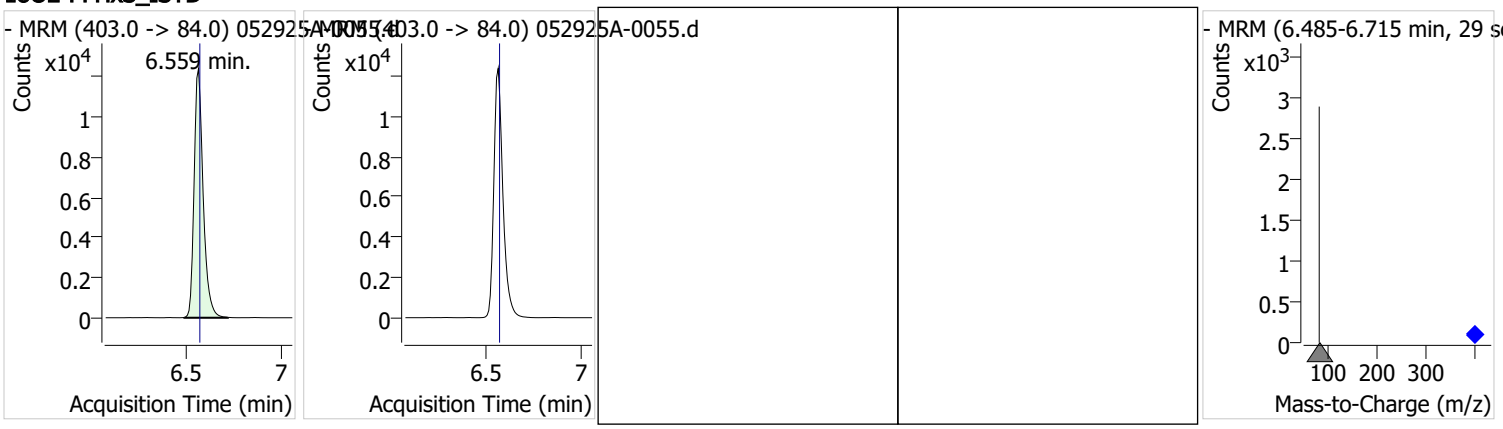
13C3-PFBA_ISTD



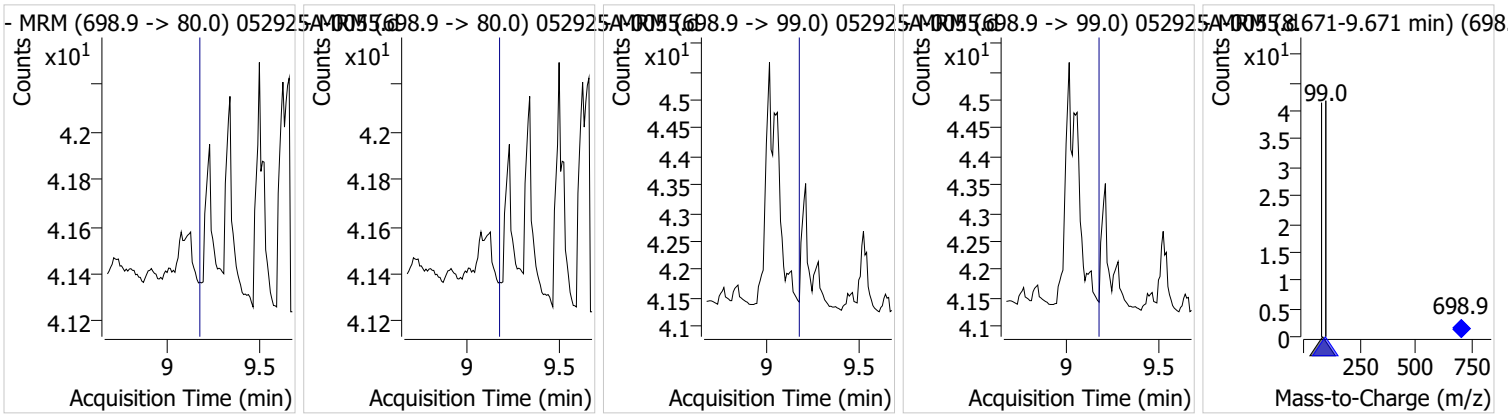
13C5-PFNA_ISTD



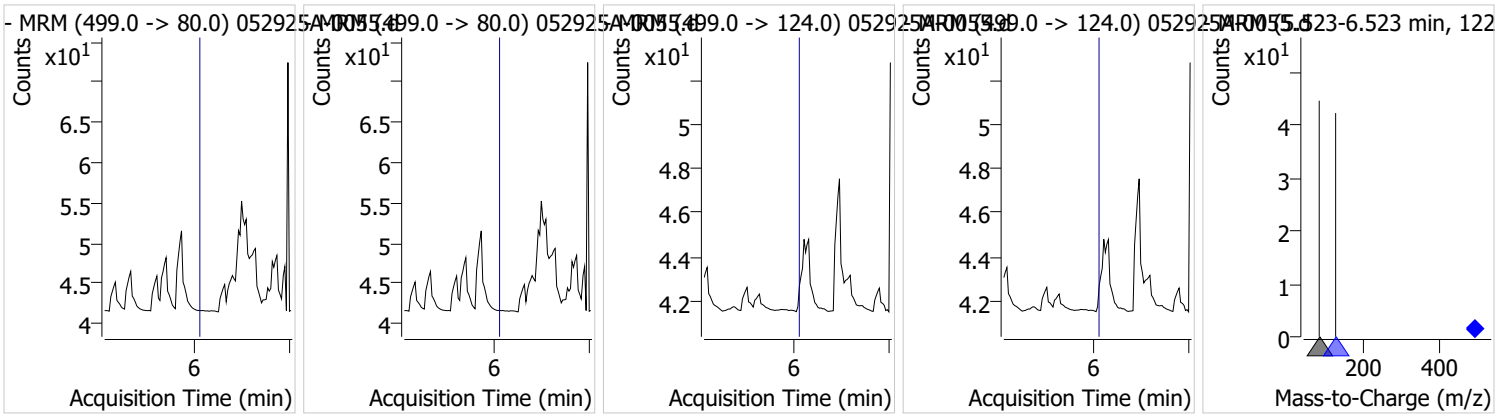
18O2-PFHxS_ISTD



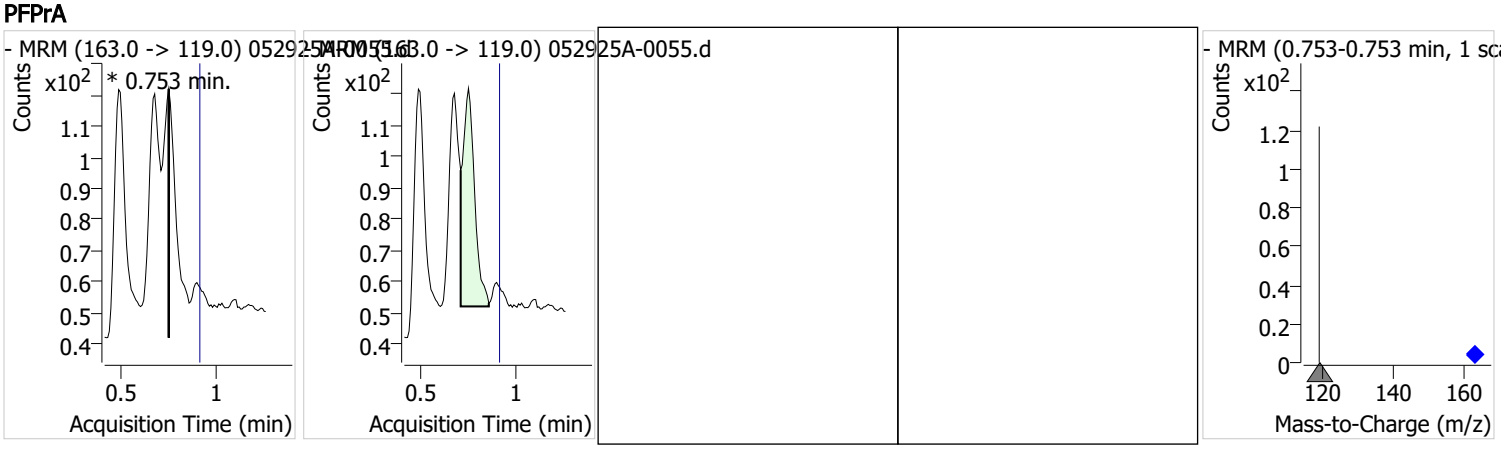
PFDoS



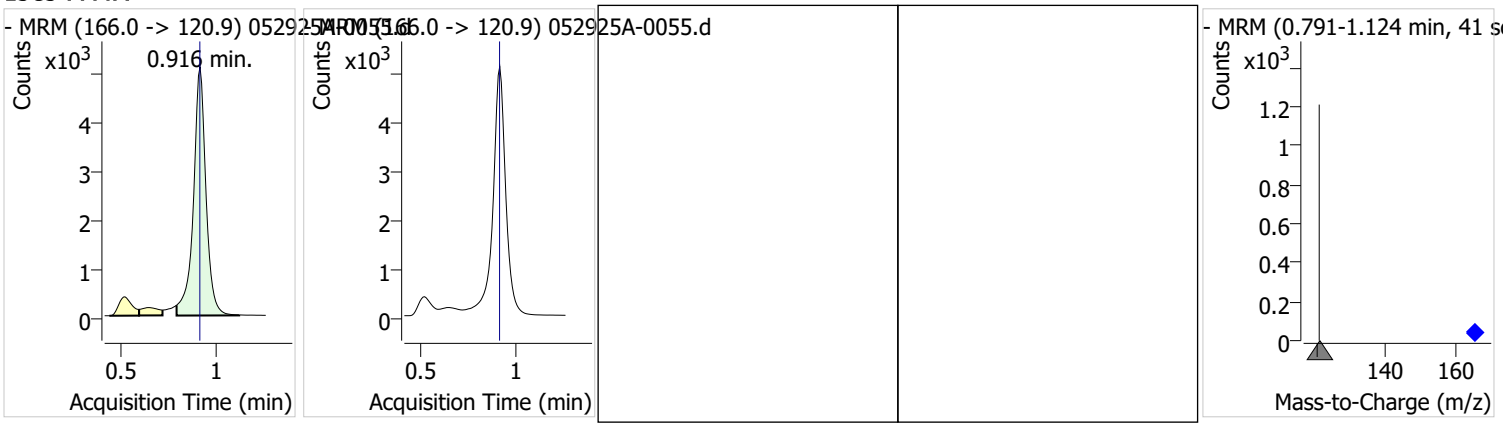
TDCA



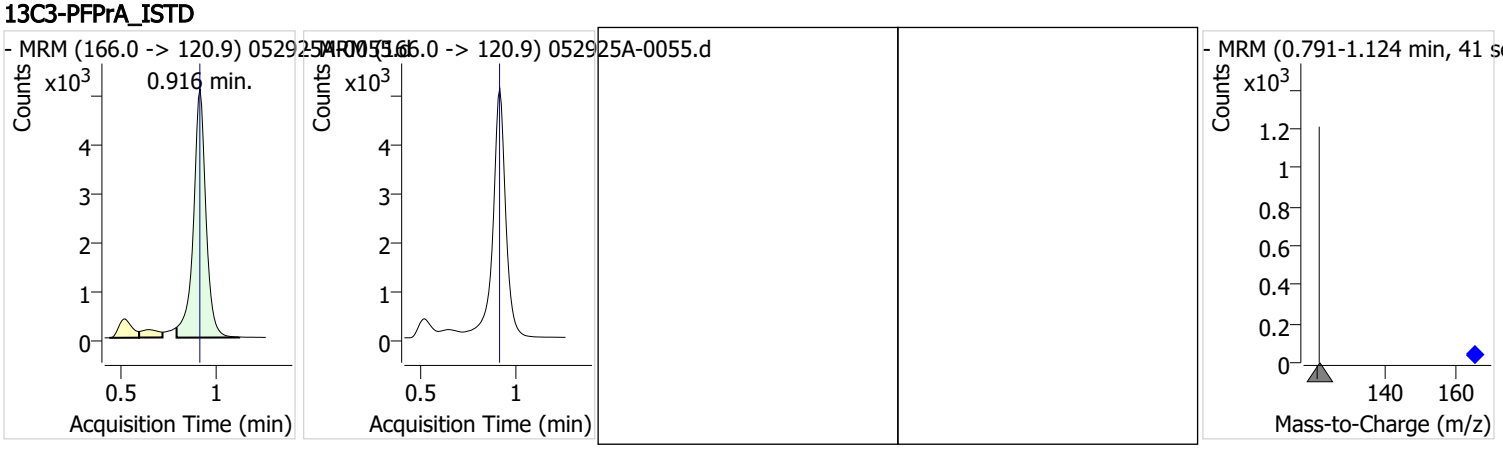
PFPrA



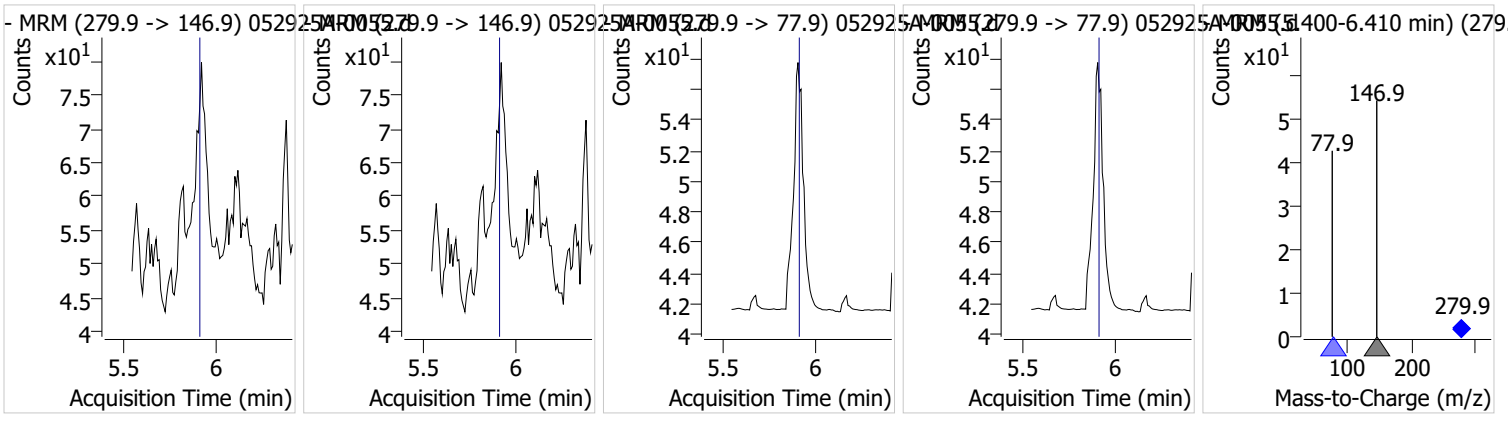
13C3-PFPrA



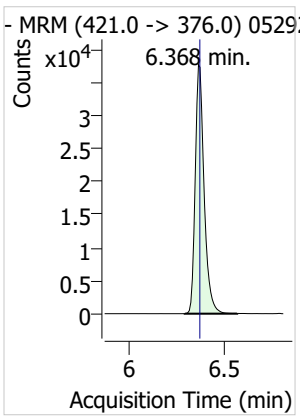
13C3-PFPrA_ISTD

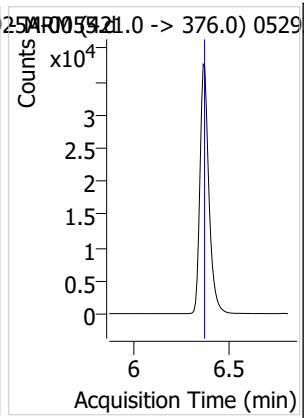


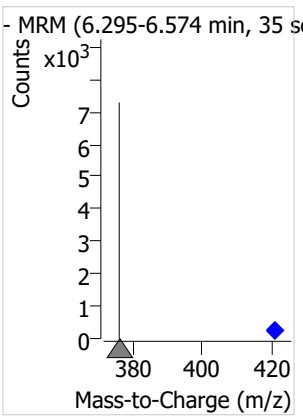
TFSI



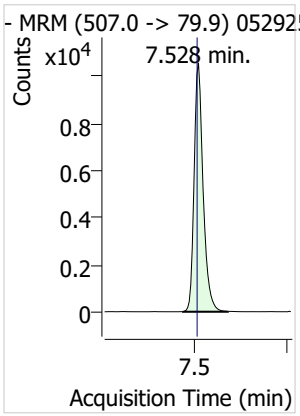
13C8-PFOA

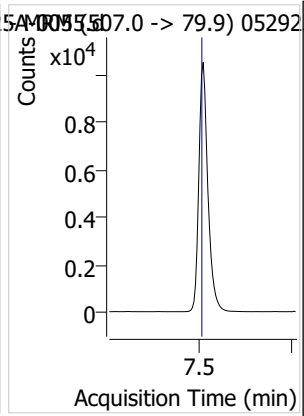


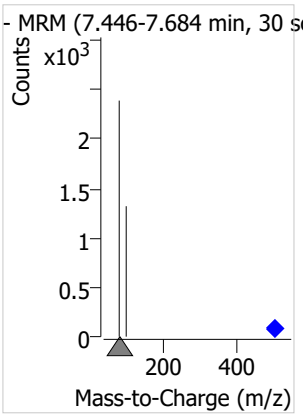




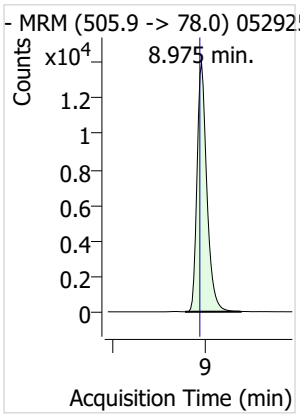
13C8-PFOS

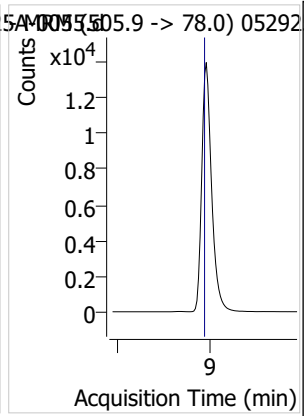


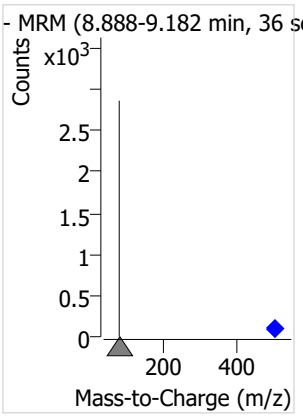




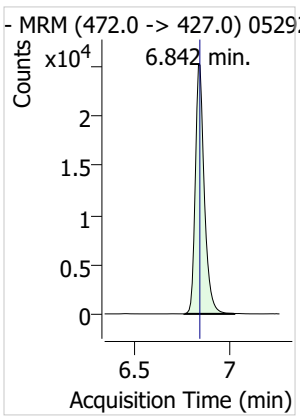
13C8-PFOSA

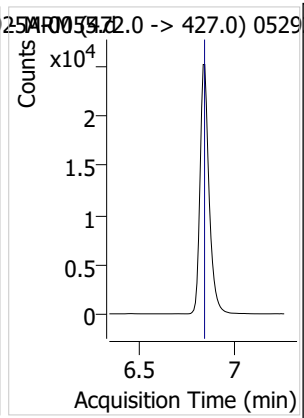


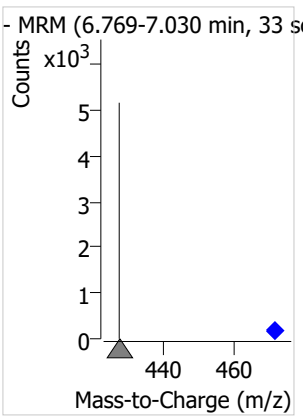




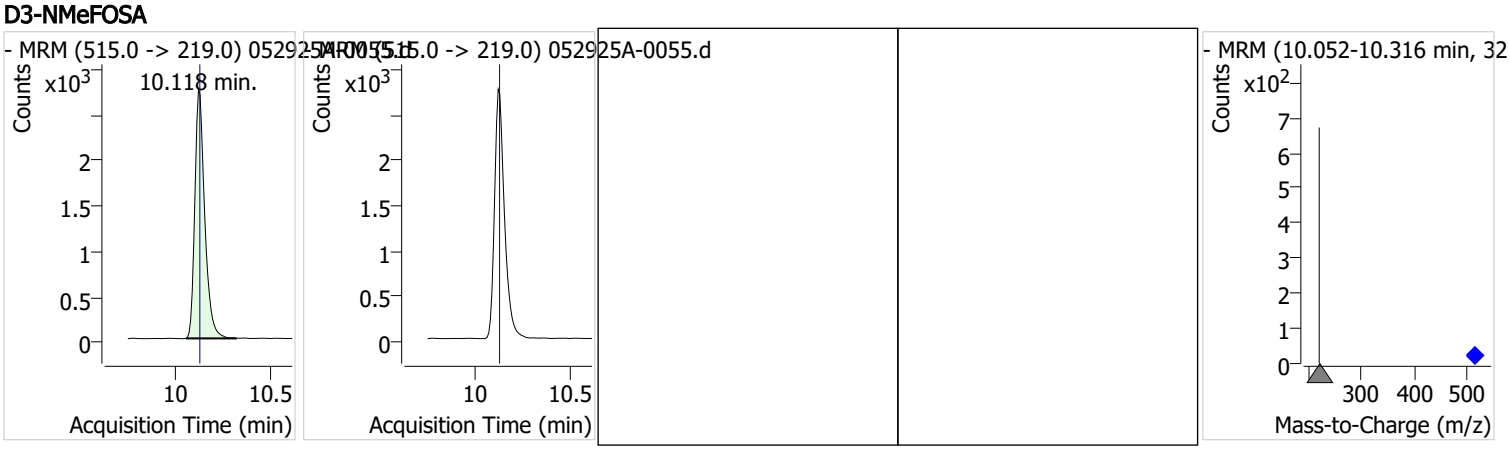
13C9-PFNA



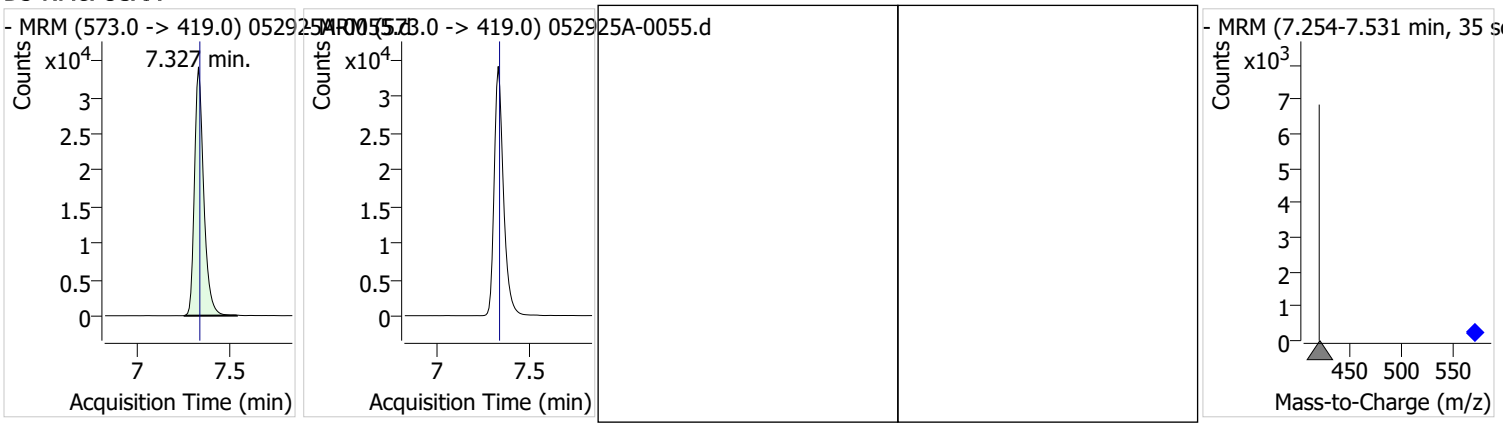




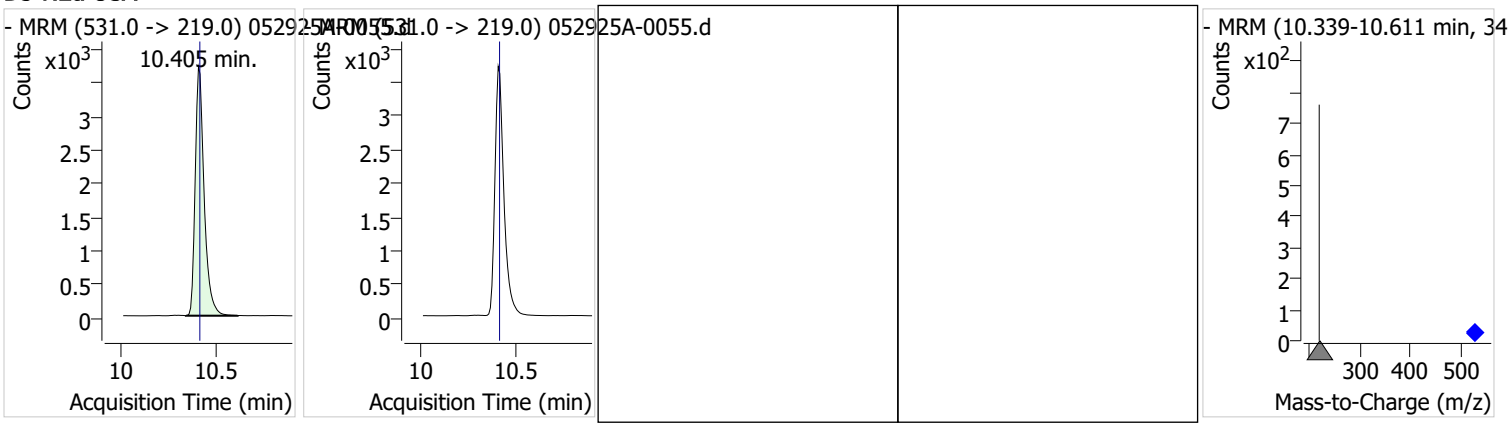
D3-NMeFOSA



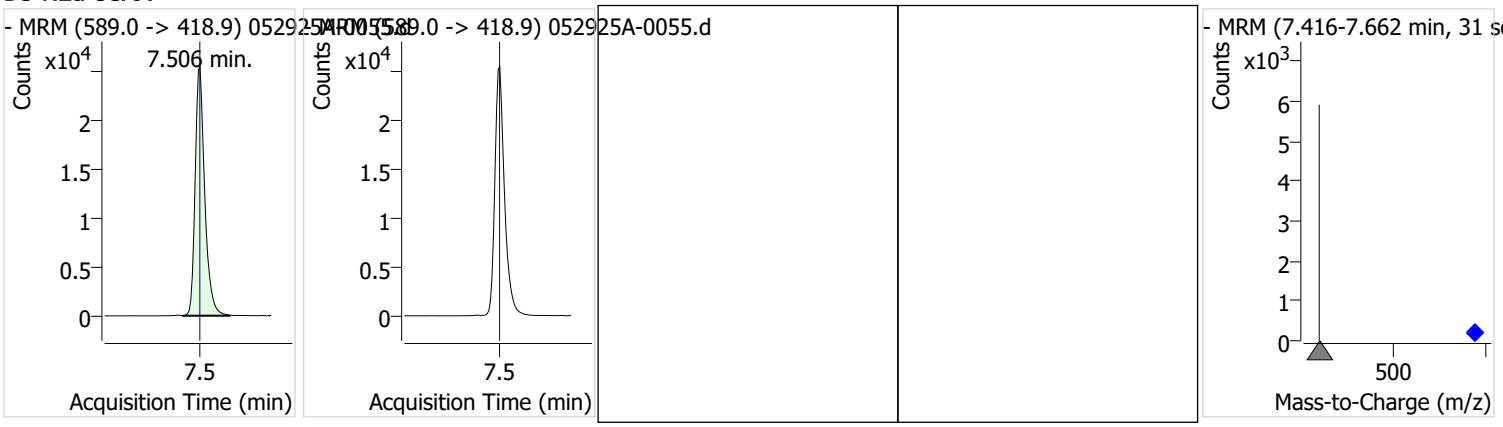
D3-NMeFOSAA



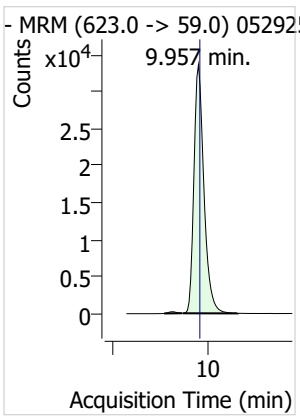
D5-NEtFOSA

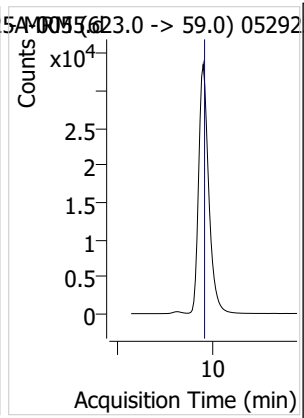


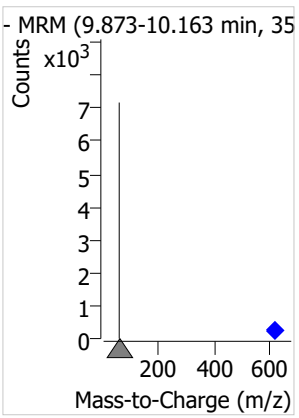
D5-NEtFOSAA



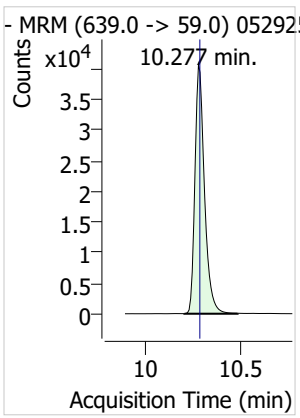
D7-NMeFOSE

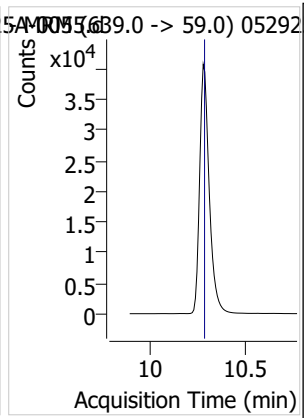


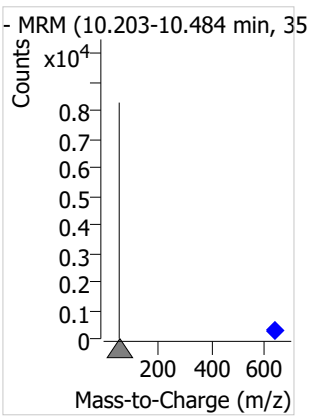




D9-NEtFOSE

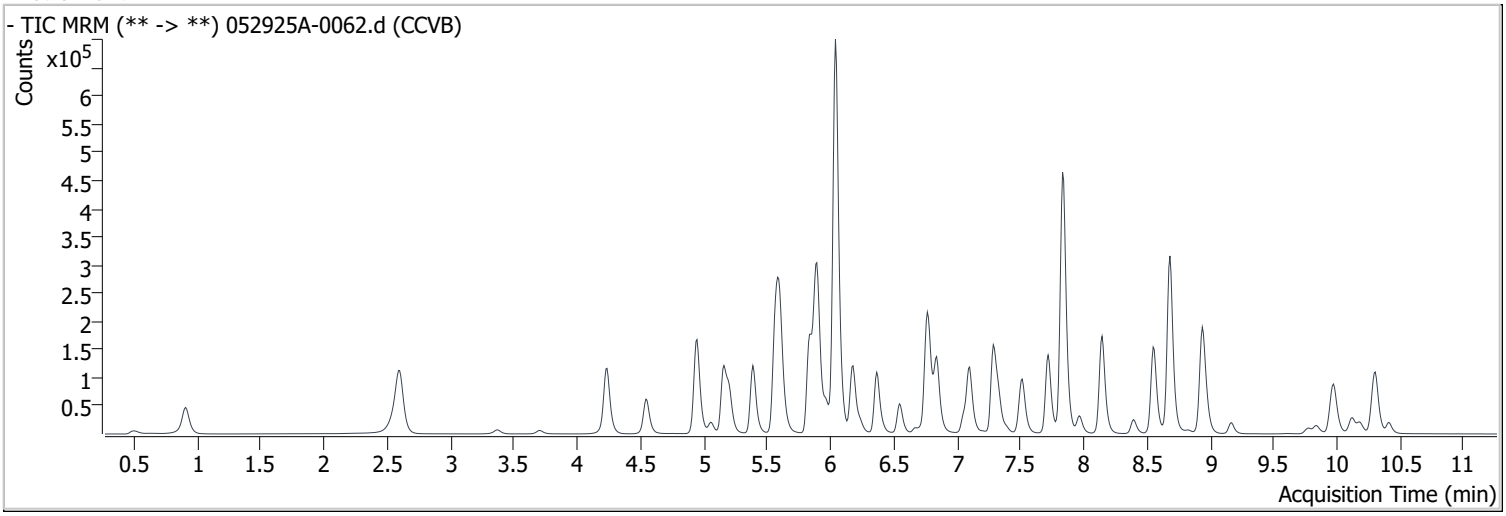






Quantitative Analysis Sample Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Last Calib Update**	5/23/2025 1:20 PM
Acq. Time	5/30/2025 12:32 AM	**Data File**	052925A-0062.d
Sample Type	CC	**Sample Name**	CCVB
Dilution	1	**Acq. Method**	051625A 1633F 2.m
Sample Comment	510289	**Processing method**	PFA2-052325 1633F.m
Instrument	10PFA2		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.395	165133	50071.73		13C3-HFPODA_ISTD	5.394	82206	20.4638	ng/ml			
285.0 -> 184.9	5.394	103096	12129.93	62.4								
4:2FTS	4.947	354960	749381.61		13C2-4:2FTS_ISTD	4.946	28260	19.0838	ng/ml			
327.0 -> 80.9	4.947	127228	20609.32	35.8								
6:2FTS	6.180	210432	1228044.27		13C2-6:2FTS_ISTD	6.172	19523	20.0112	ng/ml			
427.0 -> 80.9	6.181	91834	27337.31	43.6								
ADONA	6.044	1539832	467467.09		13C4-PFHpA_ISTD	5.839	145878	16.2795	ng/ml			
377.0 -> 85.1	6.044	634225	193308.82	41.2								
8:2FTS	7.100	206301	61685.50		13C2-8:2FTS_ISTD	7.100	18755	20.0674	ng/ml			
527.0 -> 81.0	7.101	93300	243058.21	45.2								
13C4-PFBA	2.597	184866	552.91		13C3-PFBA_ISTD	2.592	79408	9.5652	ng/ml			
9Cl-PF3ONS	7.838	1224121	17107.98		13C8-PFOS_ISTD	7.528	27711	19.5365	ng/ml			
533.0 -> 353.0	7.838	337195	7322.62	27.5								
11Cl-PF3OUdS	8.685	850838	109799.84		13C8-PFOS_ISTD	7.528	27711	19.3948	ng/ml			
633.0 -> 453.0	8.684	215540	18811.27	25.3								
PFHpS	7.055	73949	22126.09		13C8-PFOS_ISTD	7.528	27711	4.8086	ng/ml			
449.0 -> 98.8	7.055	31690	9660.81	42.9								
13C2-4:2FTS	4.946	28260	7881.98		18O2-PFHxS_ISTD	6.550	30400	5.3987	ng/ml			
13C2-6:2FTS	6.172	19523	59081.95		18O2-PFHxS_ISTD	6.550	30400	4.9502	ng/ml			
13C2-8:2FTS	7.100	18755	49789.69		18O2-PFHxS_ISTD	6.550	30400	4.7376	ng/ml			
13C2-PFDoA	8.146	95006	3477.71		13C2-PFDA_ISTD	7.290	63954	1.1890	ng/ml			
13C2-PFDA	7.290	63954	3500.77					1.3154	ng/ml			
13C2-PFHxA	5.162	79124	57064.75					2.5671	ng/ml			
13C2-PFTeDA	8.936	103967	19322.69		13C2-PFDA_ISTD	7.290	63954	1.1580	ng/ml			
13C4-PFOS	7.520	29681	69232.28					2.6926	ng/ml			
13C3-HFPODA	5.394	82206	153521.06		13C2-PFHxA_ISTD	5.162	79124	9.7240	ng/ml			
13C3-PFBS	5.205	50038	244721.81		18O2-PFHxS_ISTD	6.550	30400	2.4109	ng/ml			
13C3-PFHxS	6.551	33293	10236.22		18O2-PFHxS_ISTD	6.550	30400	2.3690	ng/ml			
NEtFOSAA	7.434	67500	3715.38		D5-NEtFOSAA_ISTD	7.498	73919	4.6905	ng/ml			

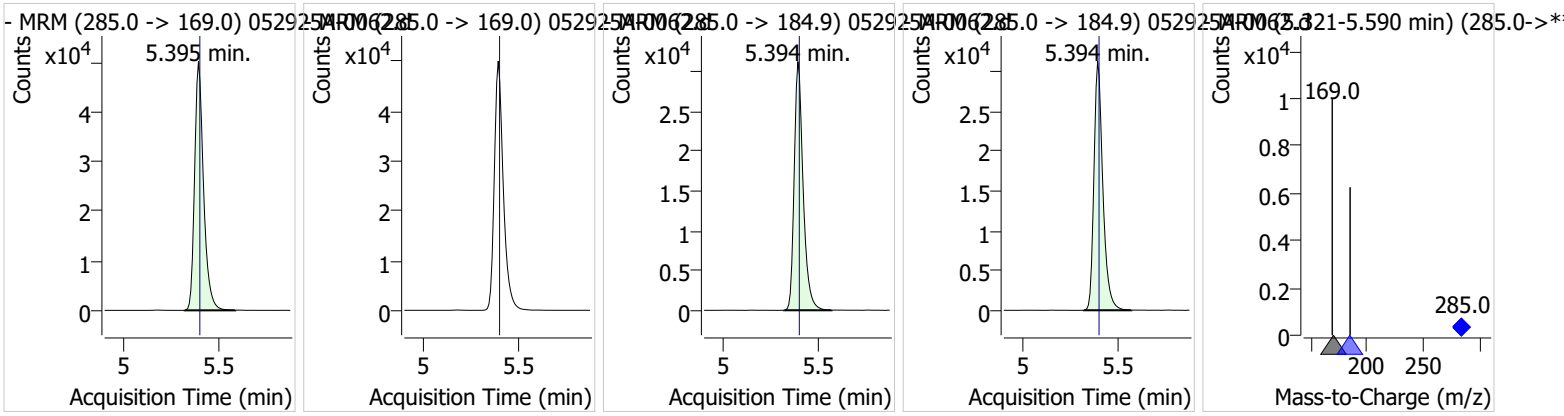
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
584.0 -> 526.0	7.433	60905	1507.22	90.2								
13C4-PFHpA	5.839	145878	153476.44		13C2-PFHxA_ISTD	5.162	79124	2.5962	ng/ml			
NMeFOSAA	7.247	32755	3237.07		D3-NMeFOSAA_ISTD	7.327	93978	4.6891	ng/ml			
570.0 -> 483.0	7.246	41498	2294.32	126.7								
PFBA	2.594	368066	65675.83		13C4-PFBA_ISTD	2.597	184866	19.9793	ng/ml			
13C5-PFHxA	5.161	87054	1815.42		13C2-PFHxA_ISTD	5.162	79124	2.4784	ng/ml			
PFBS	5.205	113773	32616.04		13C3-PFBS_ISTD	5.205	50038	4.3111	ng/ml			
298.9 -> 98.8	5.205	39994	1468.52	35.2								
NMeFOSA	10.073	27739	2994.49		D3-NMeFOSA_ISTD	10.118	12015	4.8501	ng/ml			
512.0 -> 169.0	10.074	37750	2655.17	136.1								
PFDA	7.290	300967	6297.08		13C6-PFDA_ISTD	7.289	73364	5.0134	ng/ml			
513.0 -> 219.0	7.290	55908	17228.22	18.6								
PFDoA	8.146	441911	12841.06		13C2-PFDoA_ISTD	8.146	95006	5.1642	ng/ml			
613.0 -> 319.0	8.147	49911	215950.63	11.3								
NEtFOSA	10.377	34536	2795.12		D5-NEtFOSA_ISTD	10.413	14621	4.8283	ng/ml			
526.0 -> 169.0	10.377	46082	2599.48	133.4								
PFHpA	5.839	321863	10674.91		13C4-PFHpA_ISTD	5.839	145878	4.9183	ng/ml			
362.9 -> 169.0	5.839	51874	1828.21	16.1								
PFHxA	5.163	200927	4266.98		13C5-PFHxA_ISTD	5.161	87054	4.9473	ng/ml			
313.0 -> 118.9	5.155	5988	14345.92	3.0								
NMeFOSE	9.899	298618	3165.86		D7-NMeFOSE_ISTD	9.957	126084	48.1136	ng/ml			
PFHxS	6.498	75238	9280.64		13C3-PFHxS_ISTD	6.551	33293	4.4728	ng/ml			
398.9 -> 99.0	6.498	33842	5612.31	45.0								
PFNA	6.789	220482	2482.78		13C9-PFNA_ISTD	6.842	68347	4.6098	ng/ml			
463.0 -> 219.0	6.789	69563	3139.78	31.6								
NEtFOSE	10.249	374166	2661.40		D9-NEtFOSE_ISTD	10.286	147040	46.9667	ng/ml			
PFOA	6.300	223683	3979.68		13C8-PFOA_ISTD	6.368	98241	4.8202	ng/ml			
413.0 -> 169.0	6.300	64816	3109.47	29.0								
PFOS	7.399	72775	8608.13		13C8-PFOS_ISTD	7.528	27711	4.4424	ng/ml			
499.0 -> 99.0	7.402	33919	3189.86	46.6								
PFPeA	4.239	305275	18283.64		13C5-PFPeA_ISTD	4.237	136454	9.9371	ng/ml			
PFMPA	3.377	31915	5172.57		13C4-PFBA_ISTD	2.597	184866	9.9799	ng/ml			
13C5-PFPeA	4.237	136454	14259.47		13C2-PFHxA_ISTD	5.162	79124	4.8695	ng/ml			
PFMBA	4.547	225024	61513.24		13C5-PFPeA_ISTD	4.237	136454	9.9290	ng/ml			
PFTrDA	8.550	484325	7436.28		13C2-PFDoA_ISTD	8.146	95006	4.8469	ng/ml			
663.0 -> 168.9	8.551	44250	31740.47	9.1								
PFEESA	5.570	613797	41318.75		13C5-PFHxA_ISTD	5.161	87054	8.8204	ng/ml			
315.0 -> 83.0	5.571	43947	13073.41	7.2								
13C6-PFDA	7.289	73364	471498.41		13C2-PFDA_ISTD	7.290	63954	1.2183	ng/ml			
NFDHA	5.066	46140	13574.41		13C5-PFHxA_ISTD	5.161	87054	9.7979	ng/ml			
295.0 -> 85.0	5.067	15411	2825.26	33.4								
PFOSA	8.899	88340	5336.99		13C8-PFOSA_ISTD	8.967	41325	4.8599	ng/ml			
497.9 -> 478.0	8.902	2376	610.18	2.7								
13C7-PFUnA	7.721	86285	219248.00		13C2-PFDA_ISTD	7.290	63954	1.2829	ng/ml			
13C4-PFOA	6.369	21490	6640.75					2.5991	ng/ml			
PFDS	8.398	55615	14492.50		13C8-PFOS_ISTD	7.528	27711	4.7726	ng/ml			
599.0 -> 98.8	8.397	27114	7963.26	48.8								
PFNS	7.969	67921	20135.53		13C8-PFOS_ISTD	7.528	27711	4.7413	ng/ml			
549.0 -> 98.8	7.968	31010	9357.52	45.7								
PFPeS	5.971	96158	29230.40		13C3-PFHxS_ISTD	6.551	33293	4.6053	ng/ml			
349.0 -> 98.9	5.971	42462	6523.33	44.2								

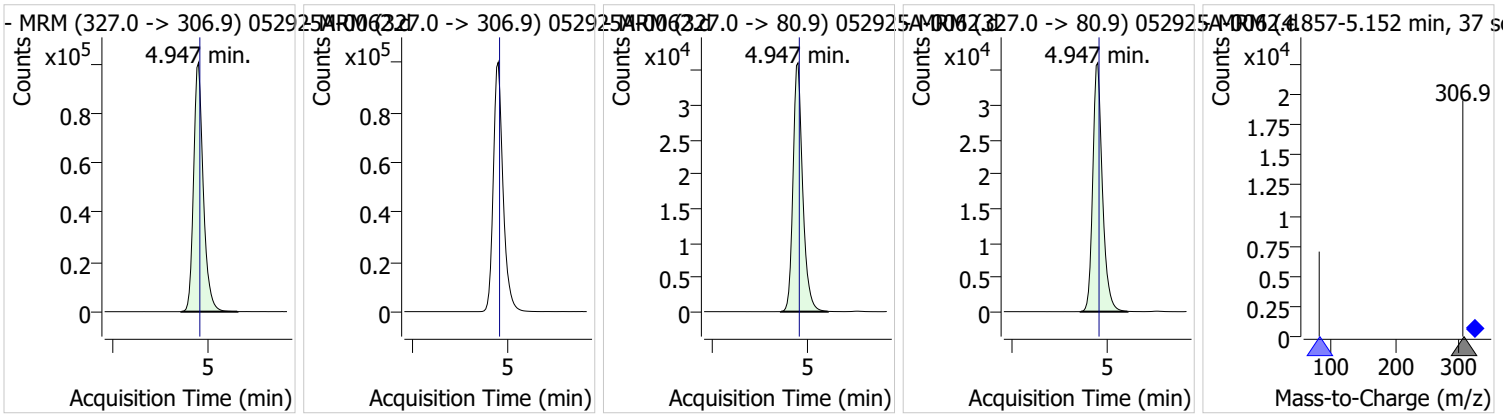
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFTeDA	8.937	470210	12988.43		13C2-PFTeDA_ISTD	8.936	103967	4.8998	ng/ml			
713.0 -> 168.9	8.938	26842	7873.08	5.7								
PFUnA	7.722	319638	4569.80		13C7-PFUnA_ISTD	7.721	86285	4.4359	ng/ml			
563.0 -> 269.1	7.722	54345	16050.72	17.0								
13C3-PFBA	2.592	79408	1110.85					5.2289	ng/ml			
3:3FTCA	3.704	16769	3144.58		13C5-PFPeA_ISTD	4.237	136454	21.7016	ng/ml			
241.0 -> 117.0	3.706	9185	608.91	54.8								
5:3FTCA	5.601	363620	24820.24		13C5-PFHxA_ISTD	5.161	87054	111.9166	ng/ml			
341.0 -> 217.0	5.602	332021	11685.88	91.3								
7:3FTCA	6.770	407256	15606.74		13C9-PFNA_ISTD	6.842	68347	111.3814	ng/ml			
441.0 -> 337.0	6.770	447036	1275138.81	109.8								
13C5-PFNA	6.842	61668	15723.87					1.3040	ng/ml			
18O2-PFHxS	6.550	30400	24038.08					2.6762	ng/ml			
PFDoS	9.171	41733	683858.87		13C8-PFOS_ISTD	7.528	27711	5.3275	ng/ml			
698.9 -> 99.0	9.170	23112	10228.19	55.4								
TDCA	6.023	62810	5840.10		13C8-PFOS_ISTD	7.528	27711	14.2212	ng/ml			
499.0 -> 124.0	6.023	110523	16913.06	176.0								
PFPrA	0.912	137668	29597.97		13C3-PFPrA_ISTD	0.907	81032	19.3347	ng/ml			
13C3-PFPrA	0.907	81032	35486.42		13C3-PFBA_ISTD	2.592	79408	9.4329	ng/ml			
TFSI	5.900	652617	12789.52		13C3-HFPODA_ISTD	5.394	82206	10.0587	ng/ml			
279.9 -> 77.9	5.900	453770	1966402.39	69.5								
13C8-PFOA	6.368	98241	30565.77		13C4-PFOA_ISTD	6.369	21490	2.4400	ng/ml			
13C8-PFOS	7.528	27711	8177.31		13C4-PFOS_ISTD	7.520	29681	2.3872	ng/ml			
13C8-PFOSA	8.967	41325	11499.29		13C4-PFOS_ISTD	7.520	29681	2.4758	ng/ml			
13C9-PFNA	6.842	68347	21286.55		13C5-PFNA_ISTD	6.842	61668	1.2544	ng/ml			
D3-NMeFOSA	10.118	12015	936.31		13C4-PFOS_ISTD	7.520	29681	2.2594	ng/ml			
D3-NMeFOSAA	7.327	93978	3900.43		13C4-PFOS_ISTD	7.520	29681	5.0905	ng/ml			
D5-NEtFOSA	10.413	14621	1407.89		13C4-PFOS_ISTD	7.520	29681	2.2871	ng/ml			
D5-NEtFOSAA	7.498	73919	21015.23		13C4-PFOS_ISTD	7.520	29681	5.2722	ng/ml			
D7-NMeFOSE	9.957	126084	40841.38		13C4-PFOS_ISTD	7.520	29681	24.6959	ng/ml			
D9-NEtFOSE	10.286	147040	3281.02		13C4-PFOS_ISTD	7.520	29681	25.9364	ng/ml			

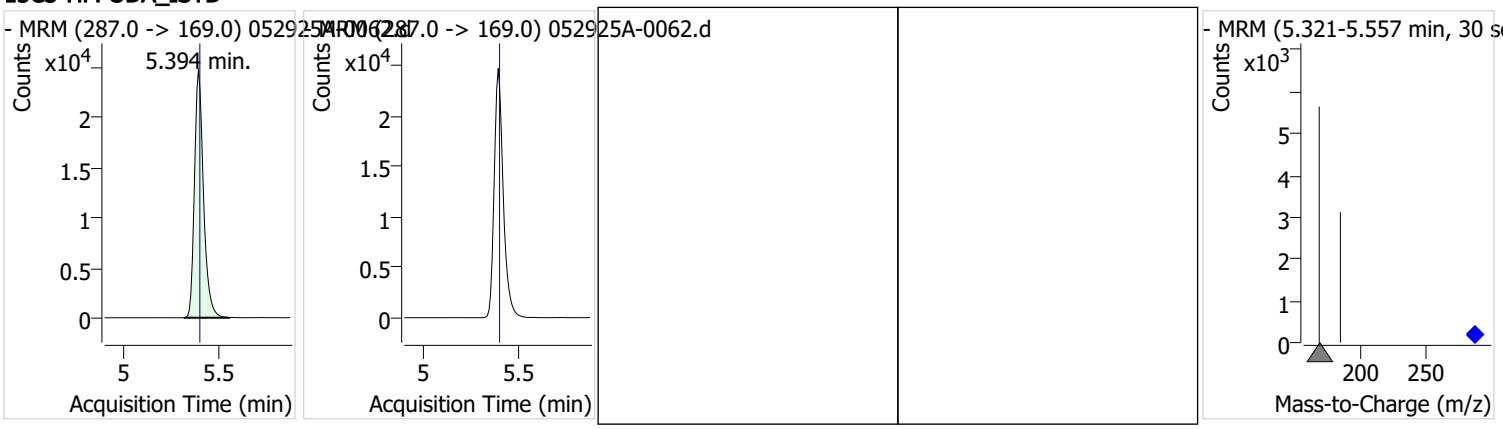
HFPO-DA



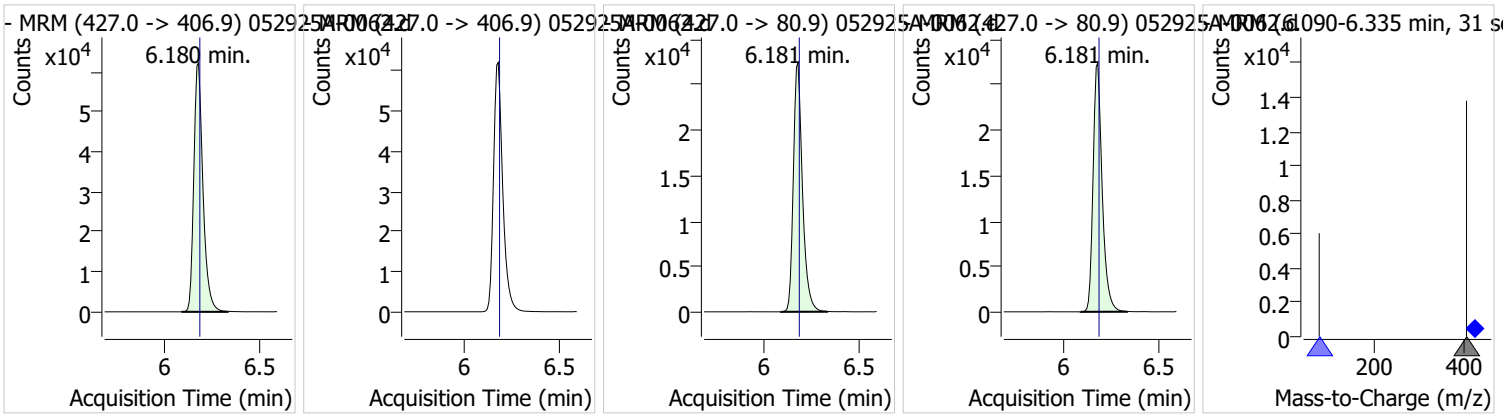
4:2FTS



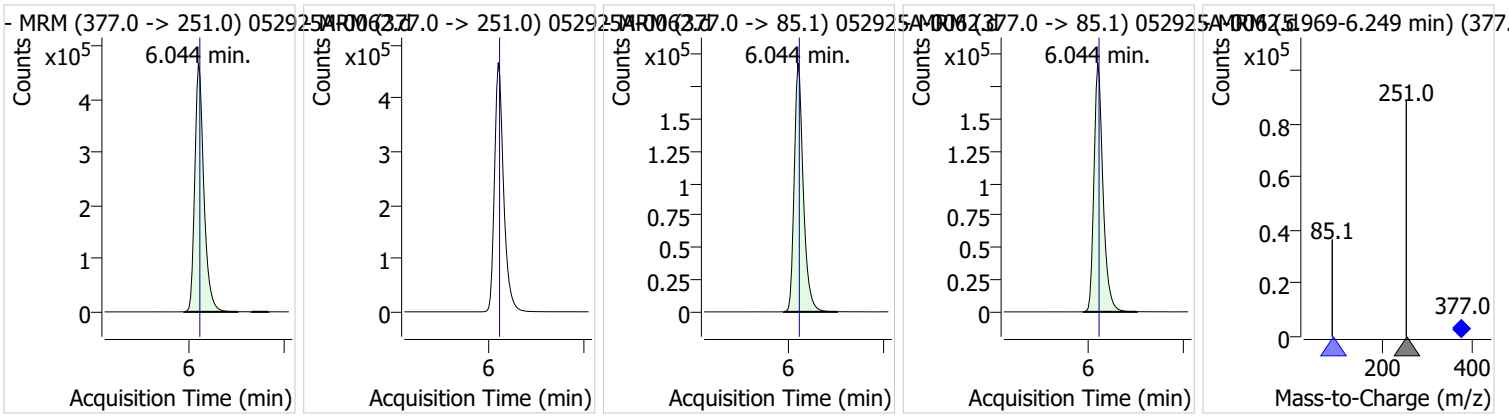
13C3-HFPODA_ISTD



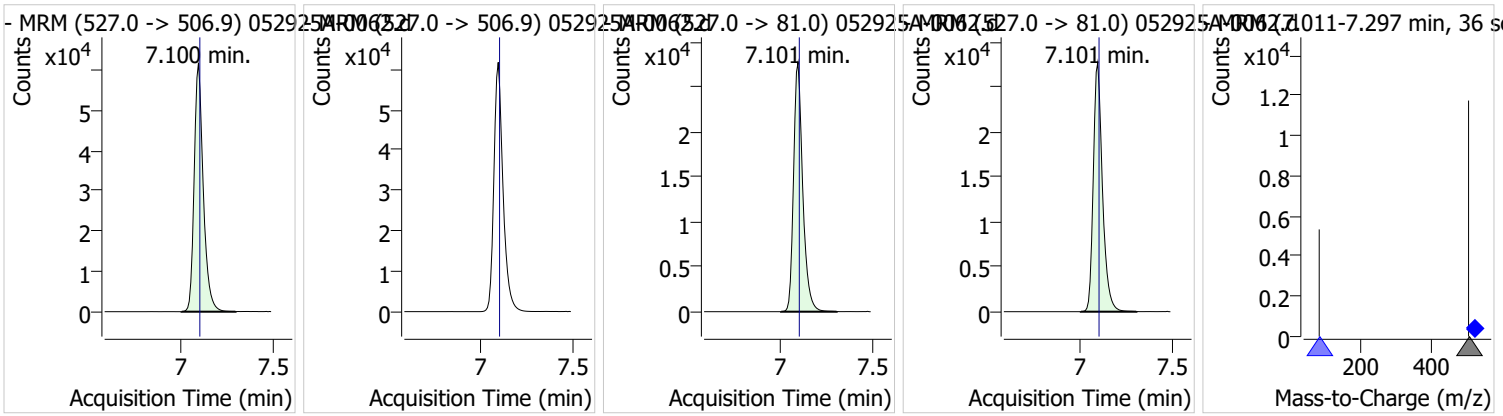
6:2FTS



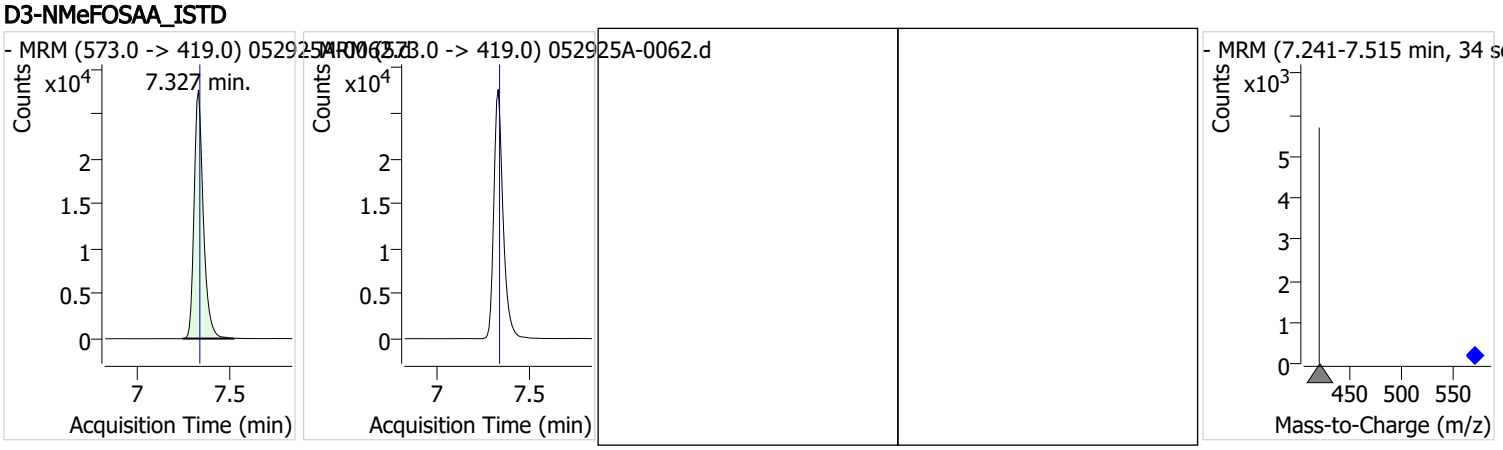
ADONA



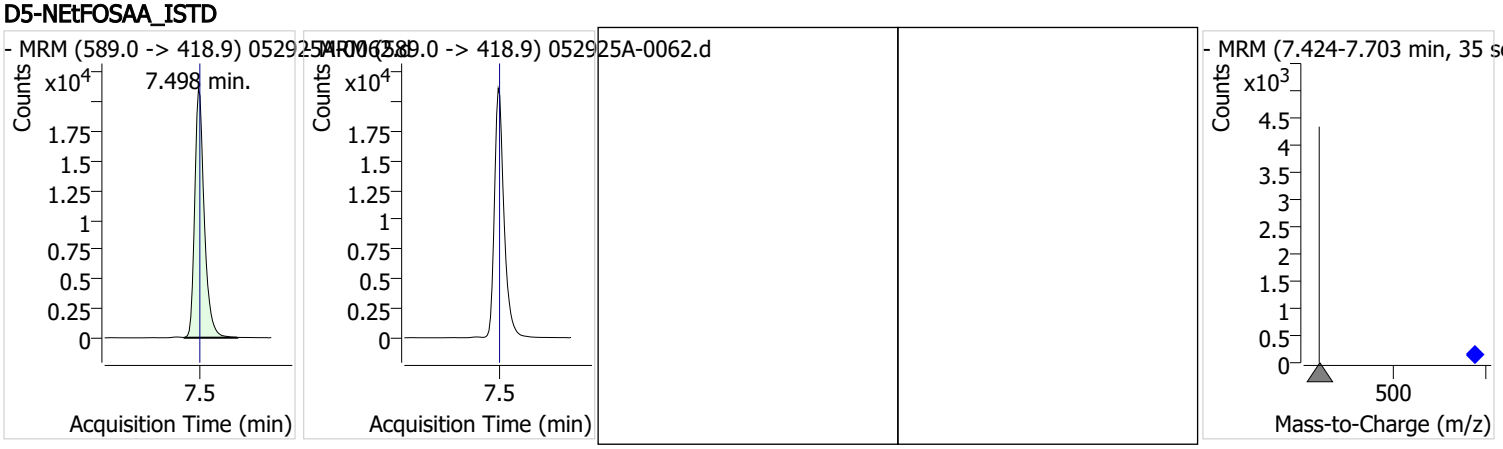
8:2FTS



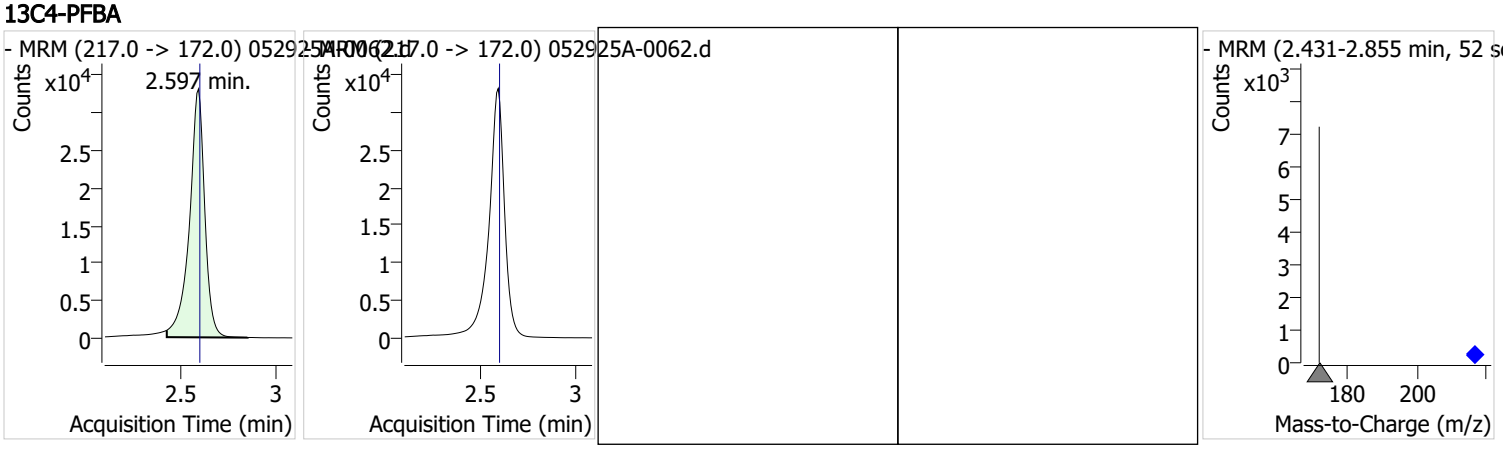
D3-NMeFOSAA_ISTD



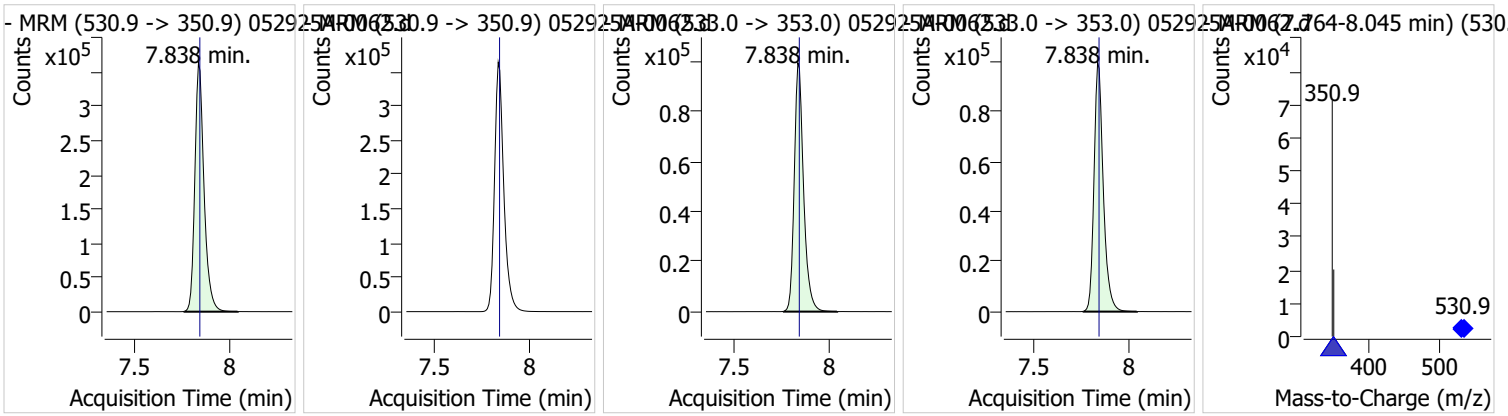
D5-NEtFOSAA_ISTD



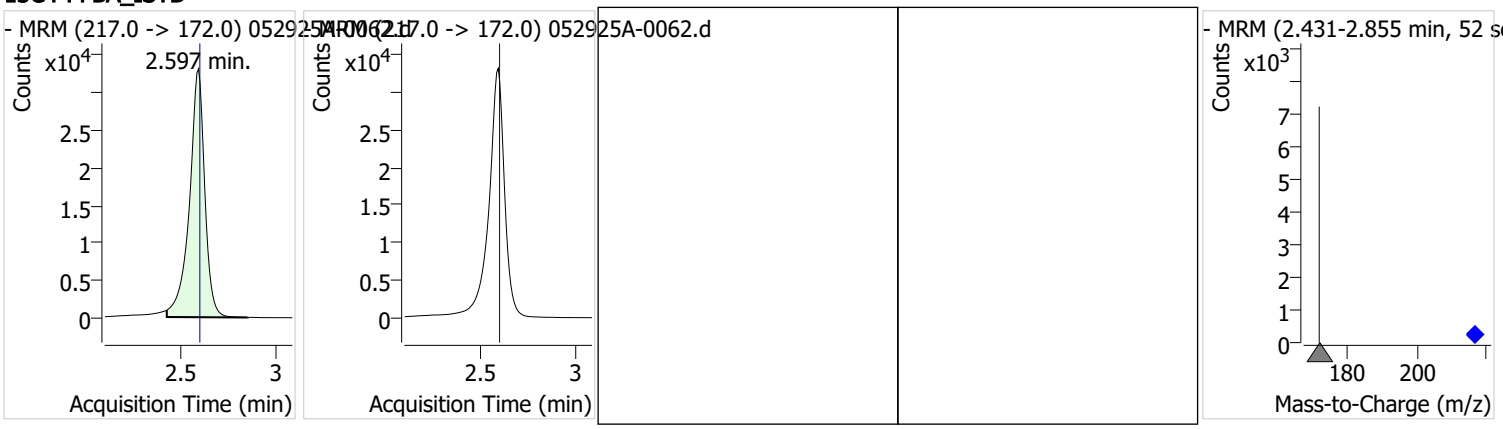
13C4-PFBA



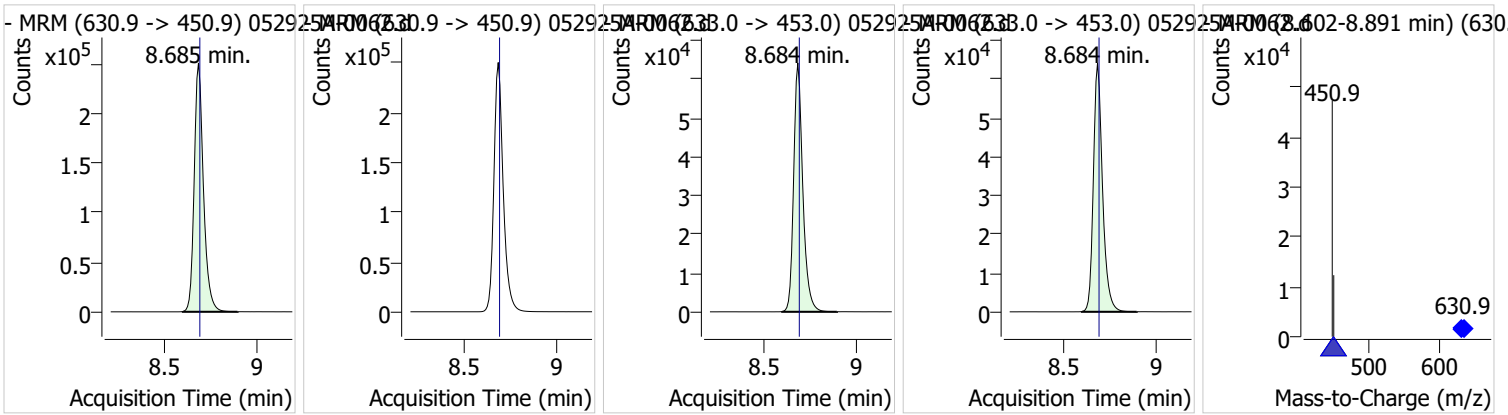
9Cl-PF3ONS



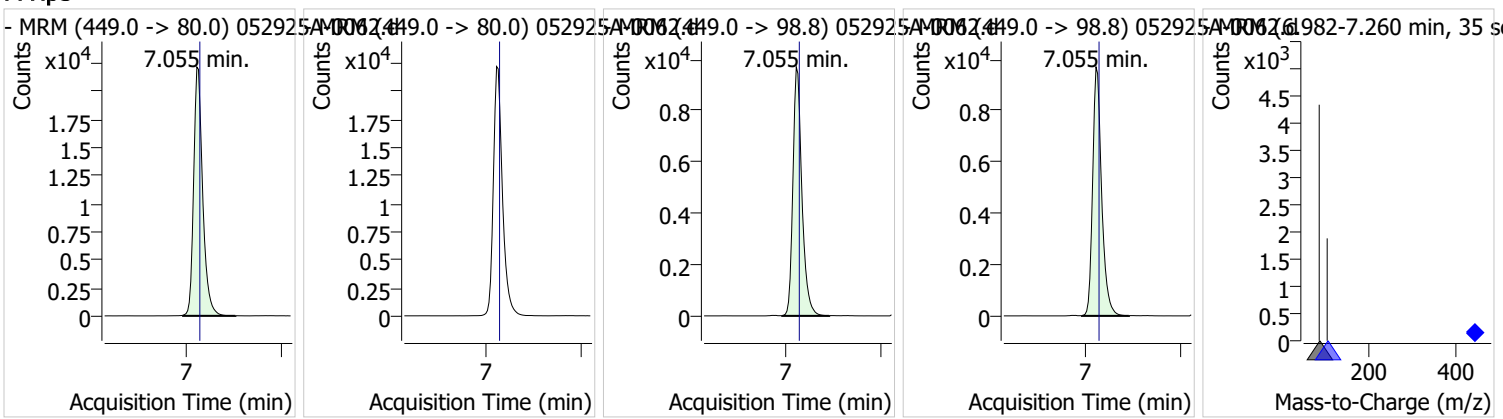
13C4-PFBA_ISTD



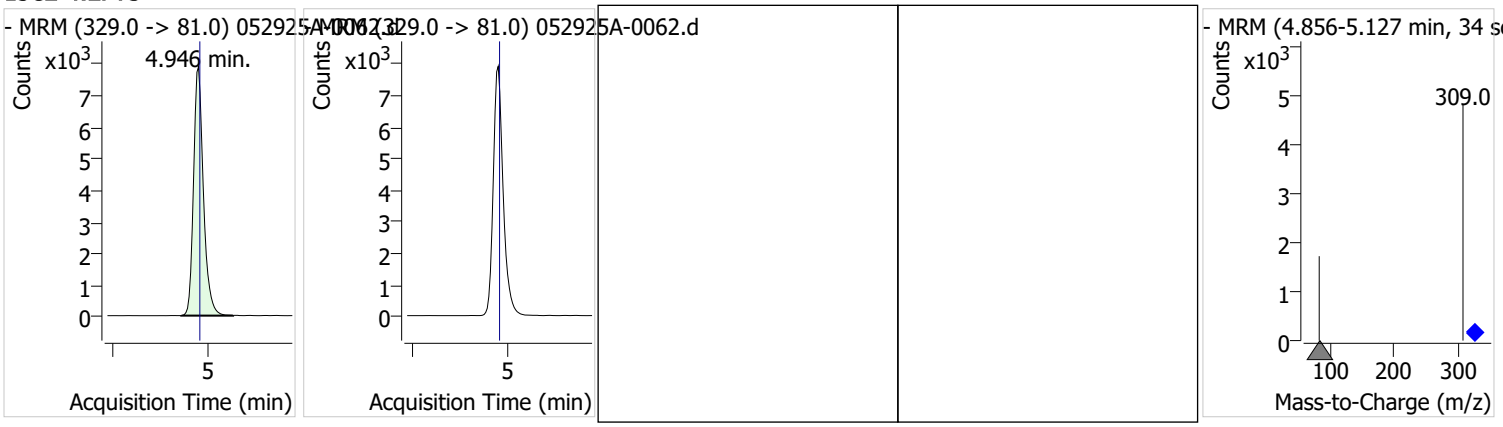
11Cl-PF3OUdS



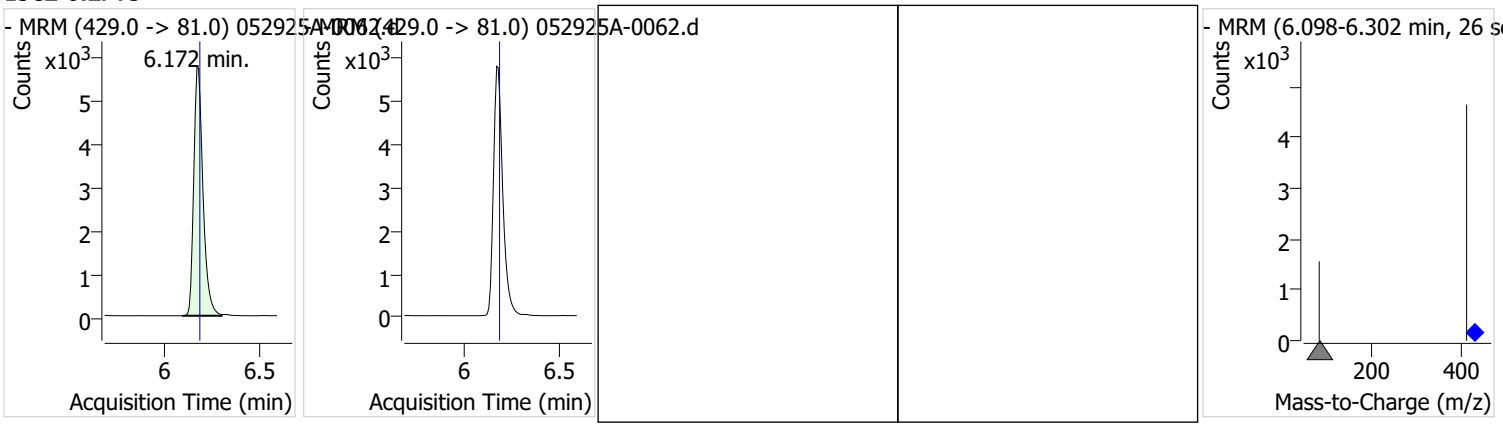
PFHpS



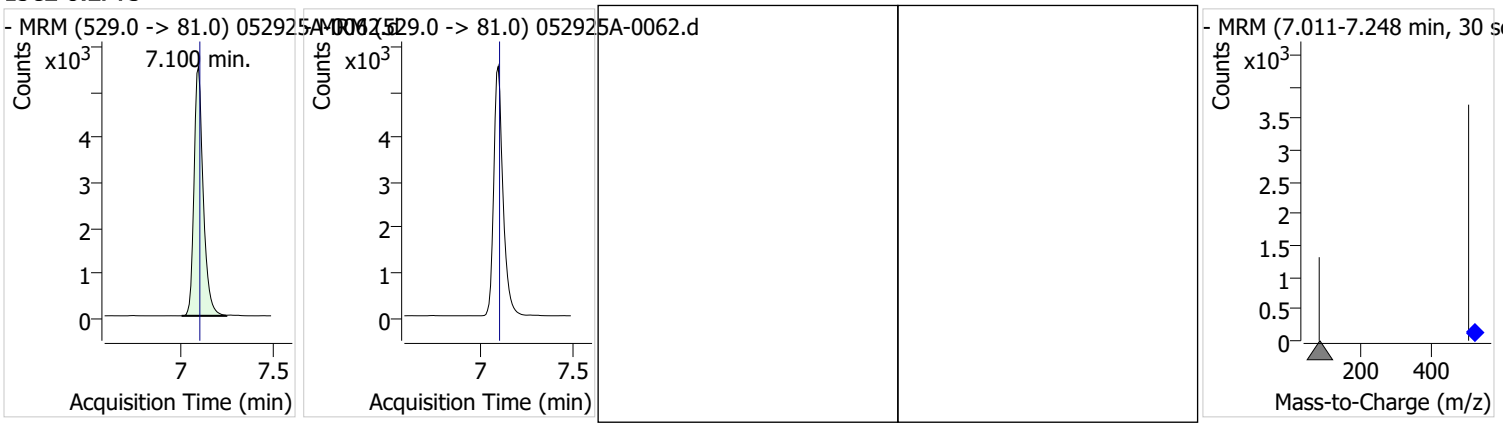
13C2-4:2FTS



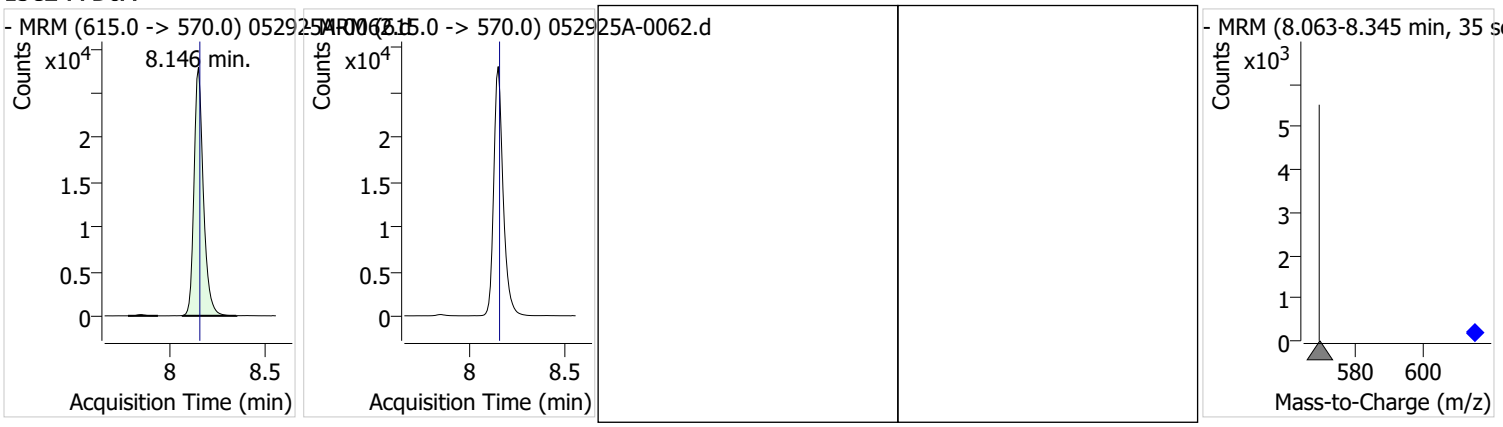
13C2-6:2FTS



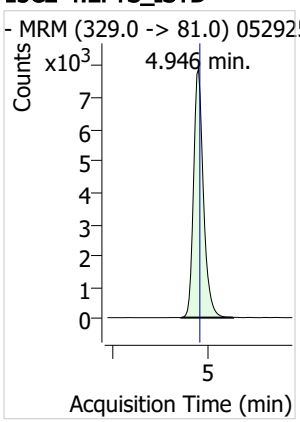
13C2-8:2FTS

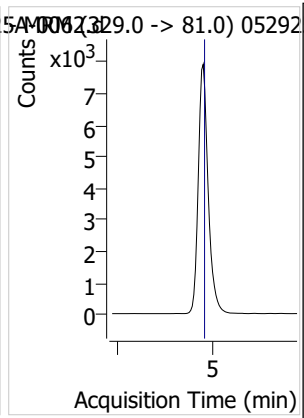


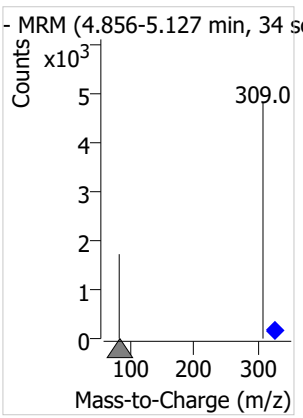
13C2-PFDoA



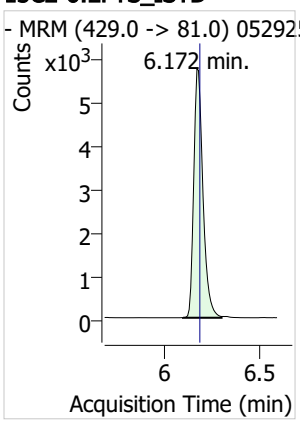
13C2-4:2FTS_ISTD

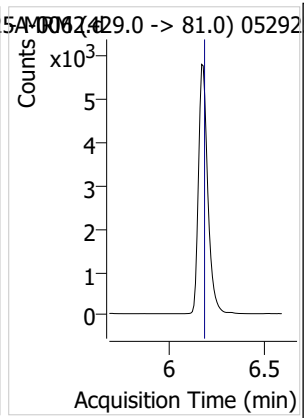


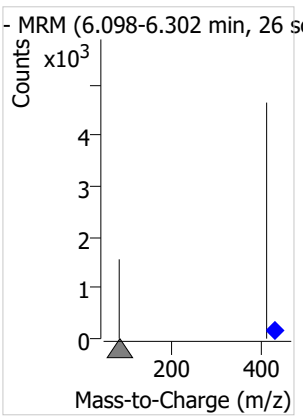




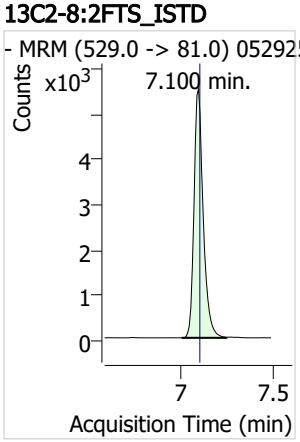
13C2-6:2FTS_ISTD

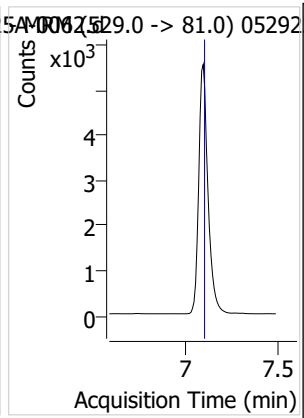


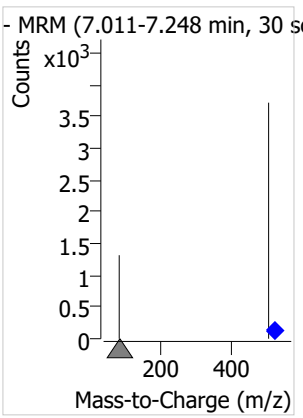




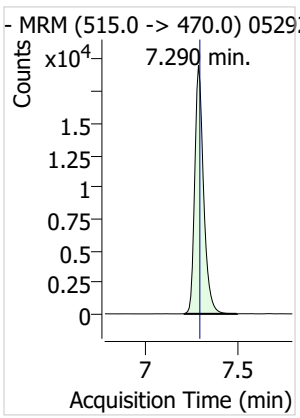
13C2-8:2FTS_ISTD

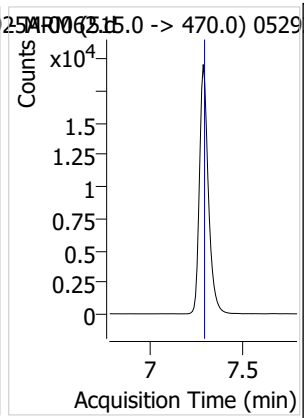


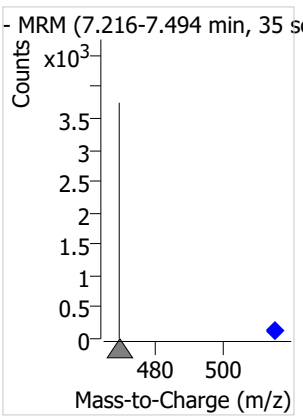




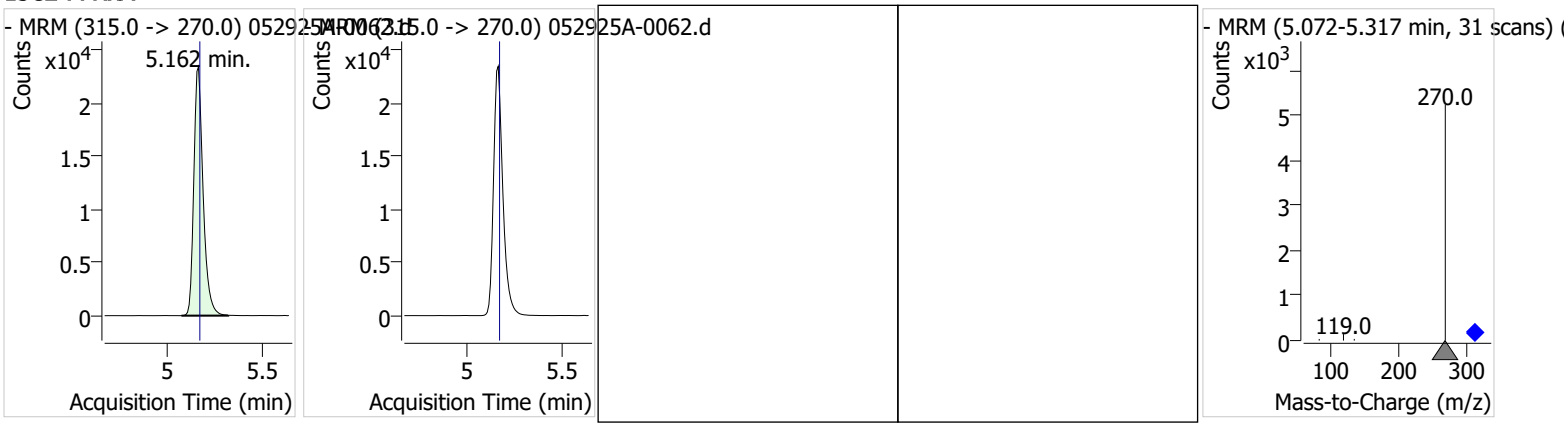
13C2-PFDA



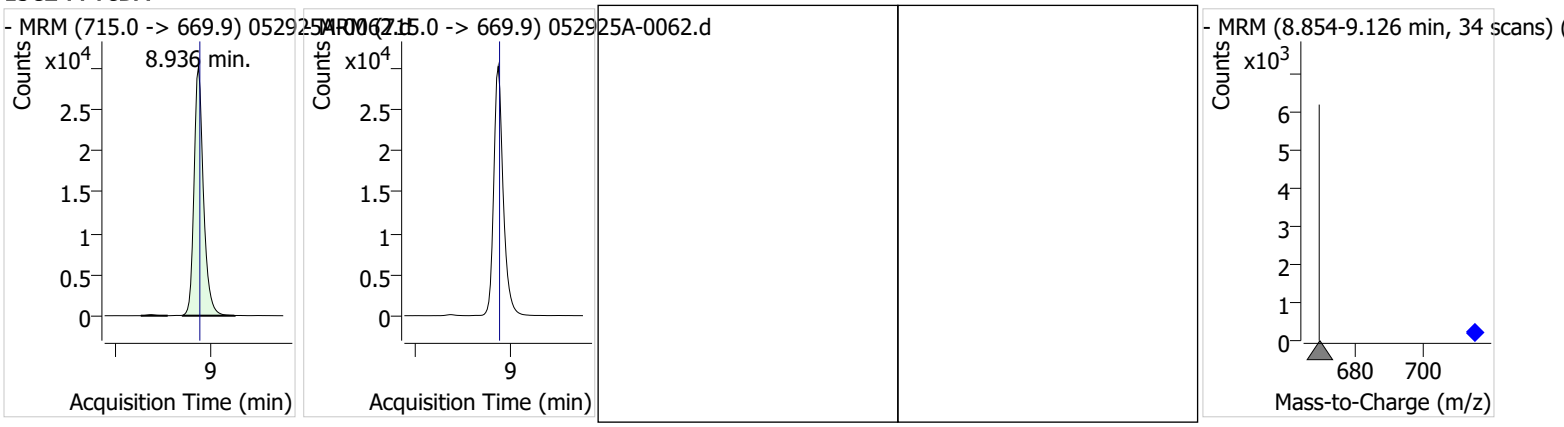




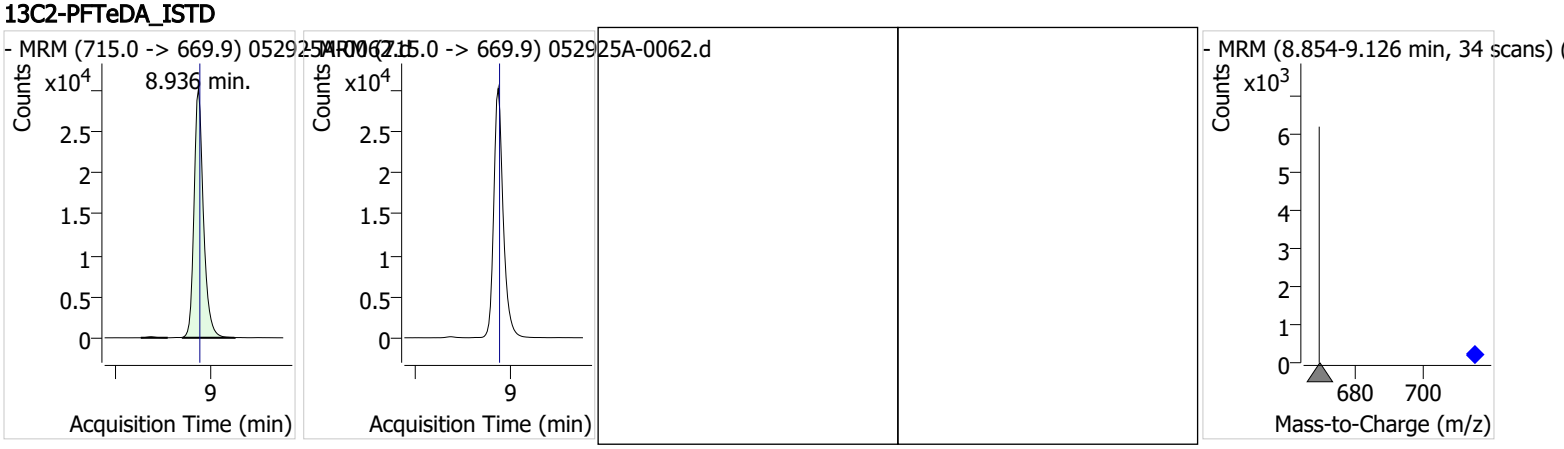
13C2-PFHxA



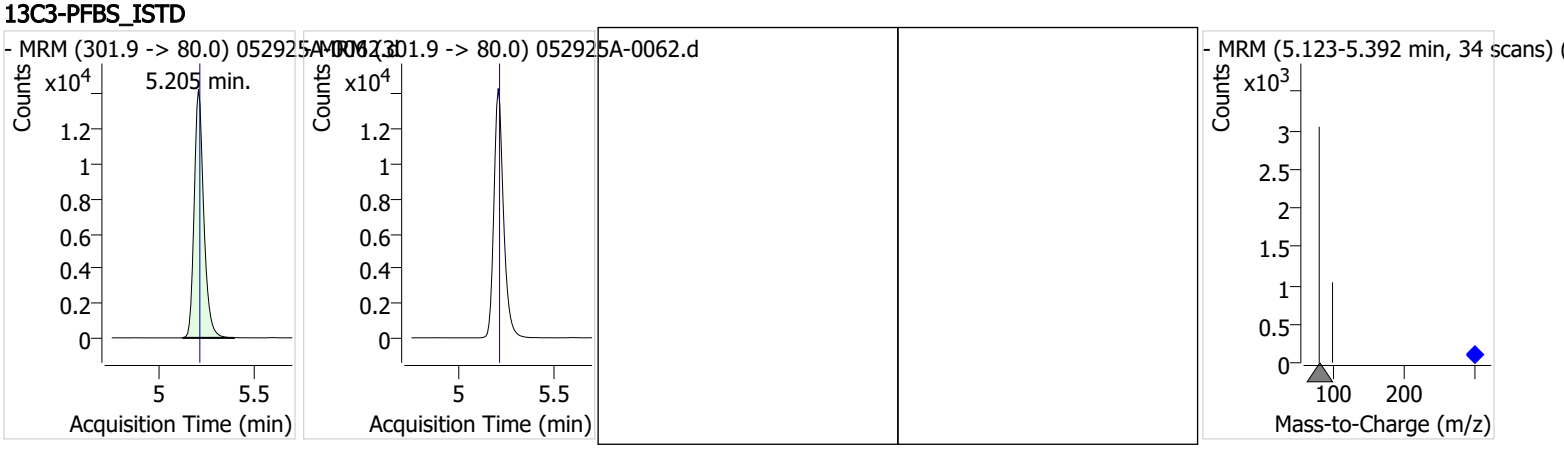
13C2-PFTeDA



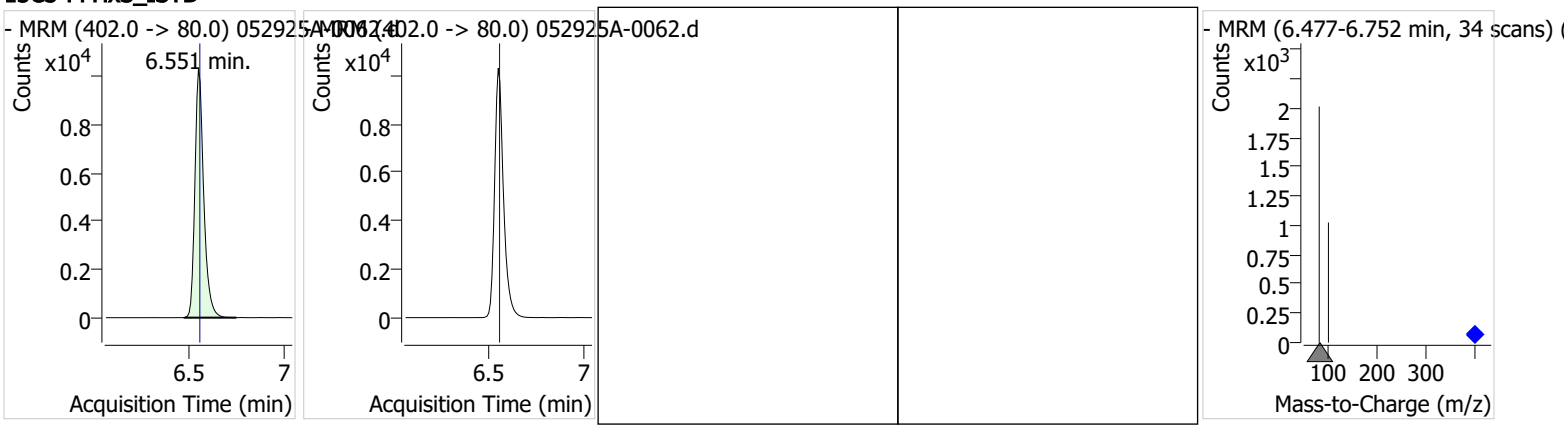
13C2-PFTeDA_ISTD



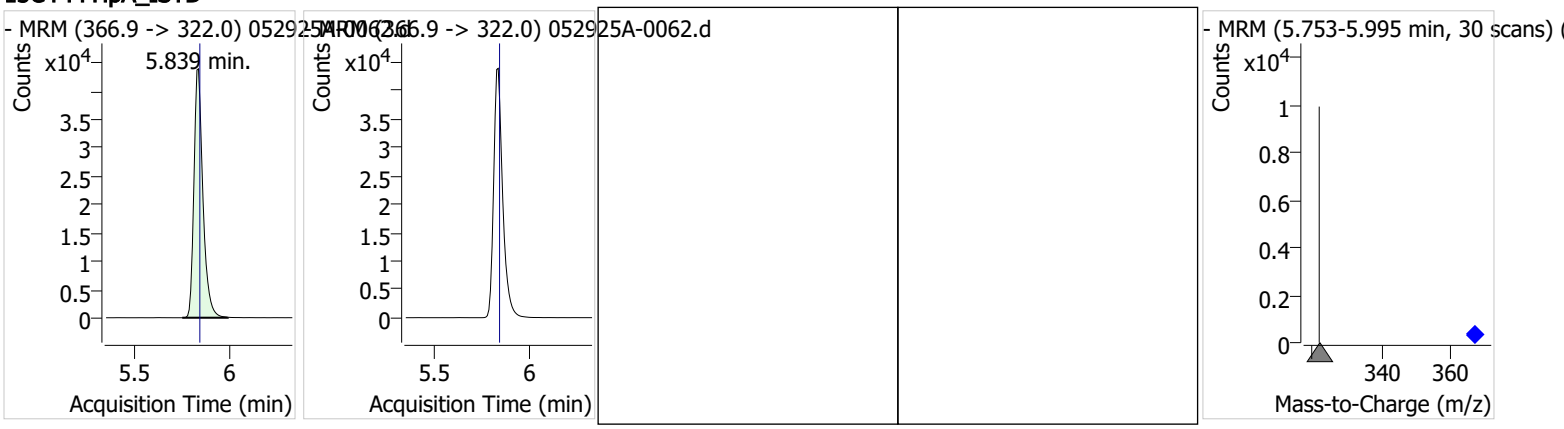
13C3-PFBS_ISTD



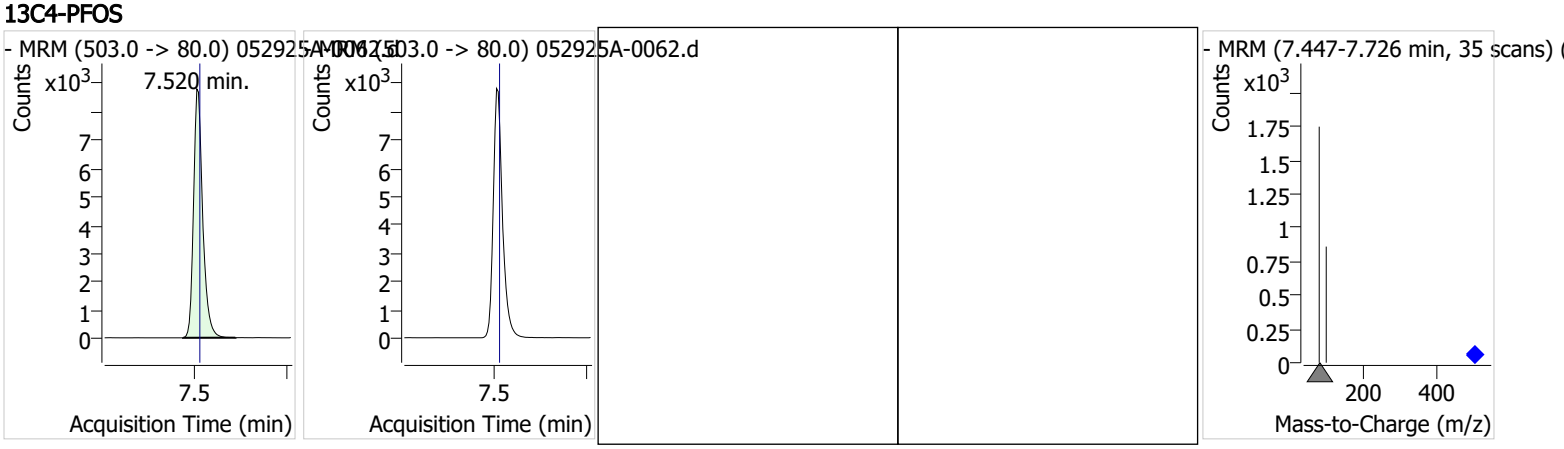
13C3-PFHxS_ISTD



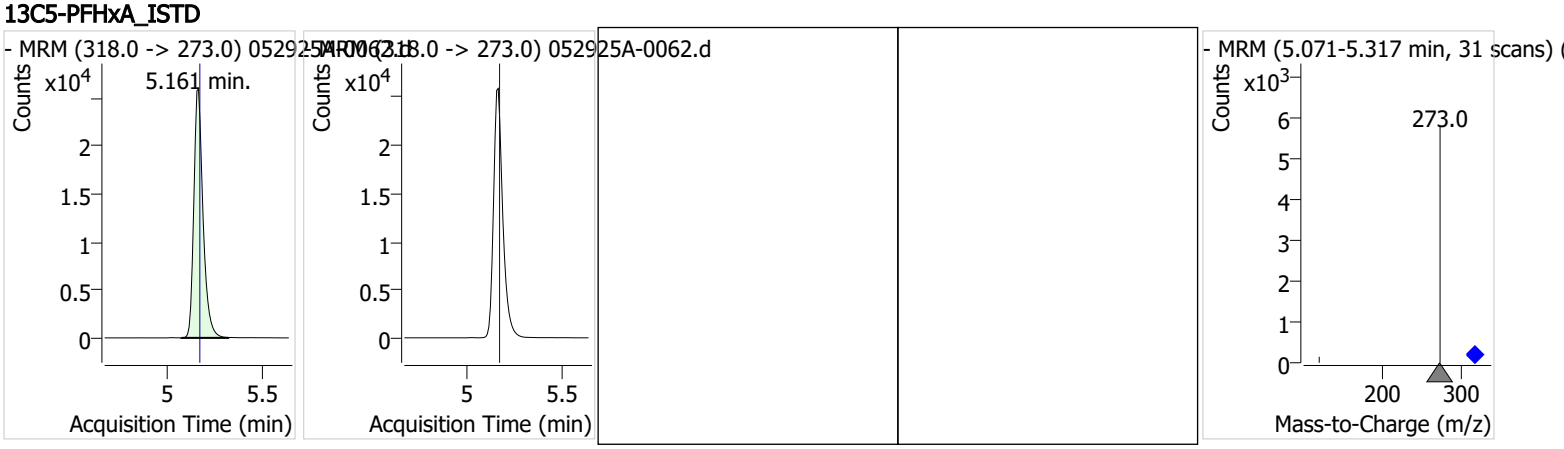
13C4-PFHpA_ISTD



13C4-PFOS



13C5-PFHxA_ISTD



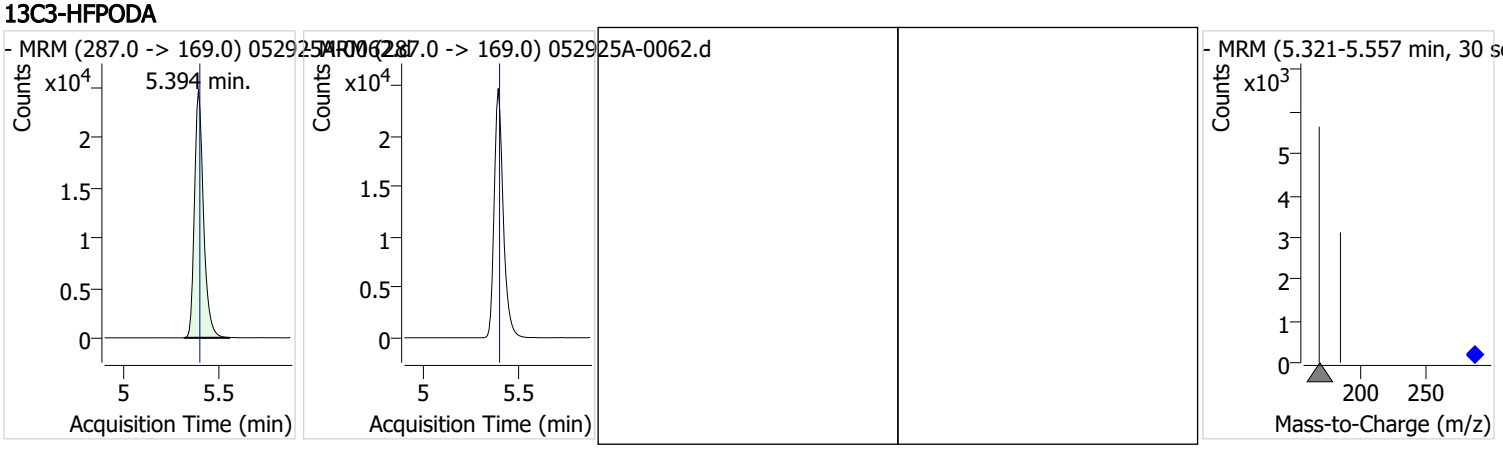
13C5-PFPeA_ISTD



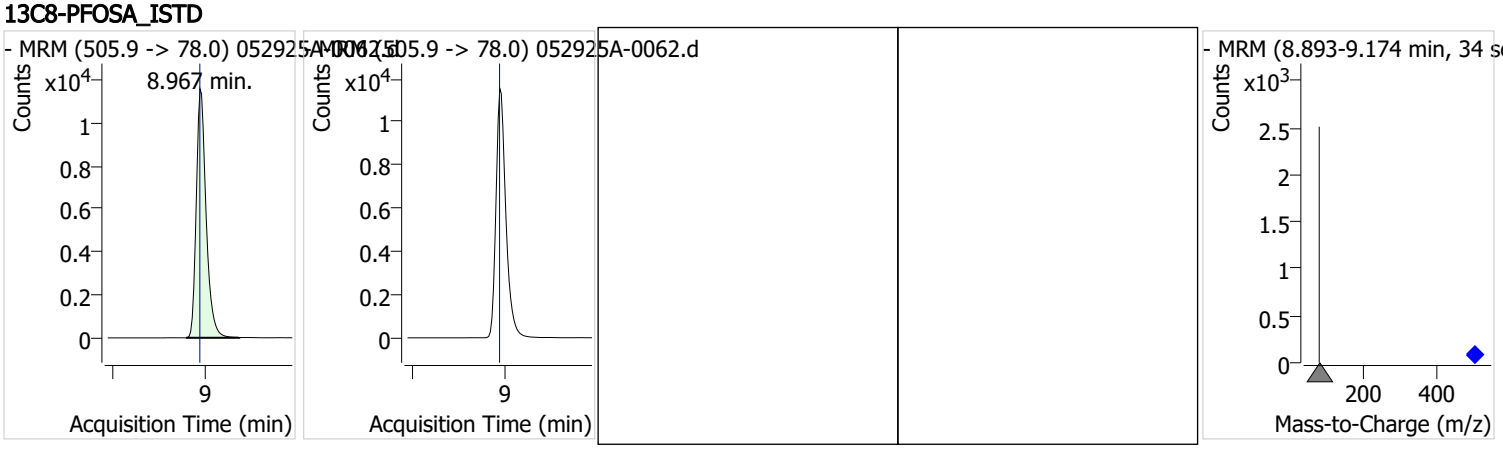
13C6-PFDA_ISTD



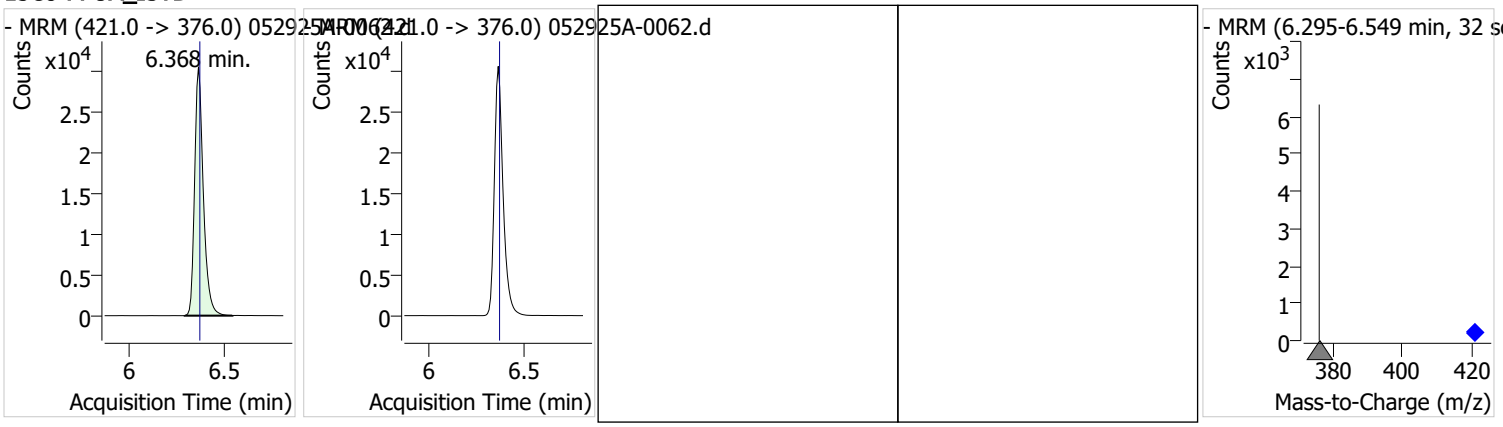
13C3-HFPODA



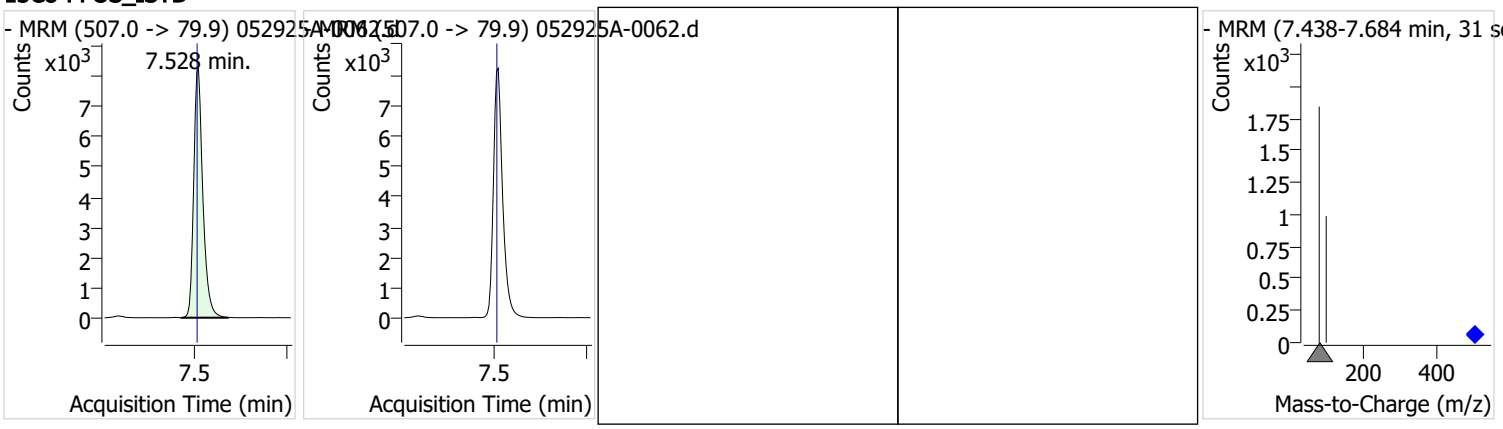
13C8-PFOSA_ISTD



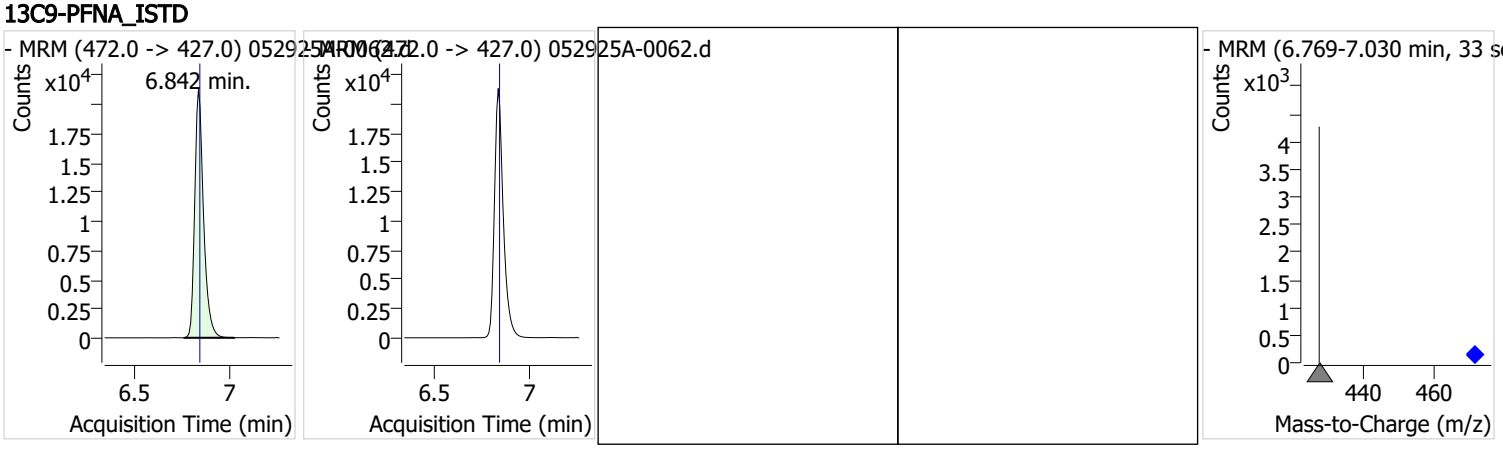
13C8-PFOA_ISTD



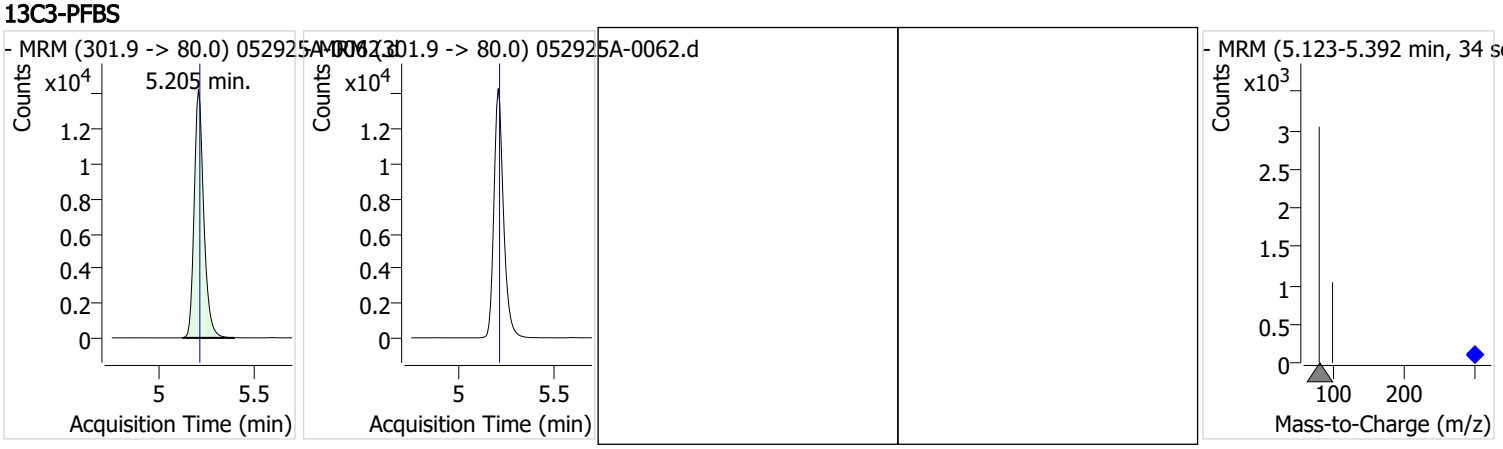
13C8-PFOS_ISTD



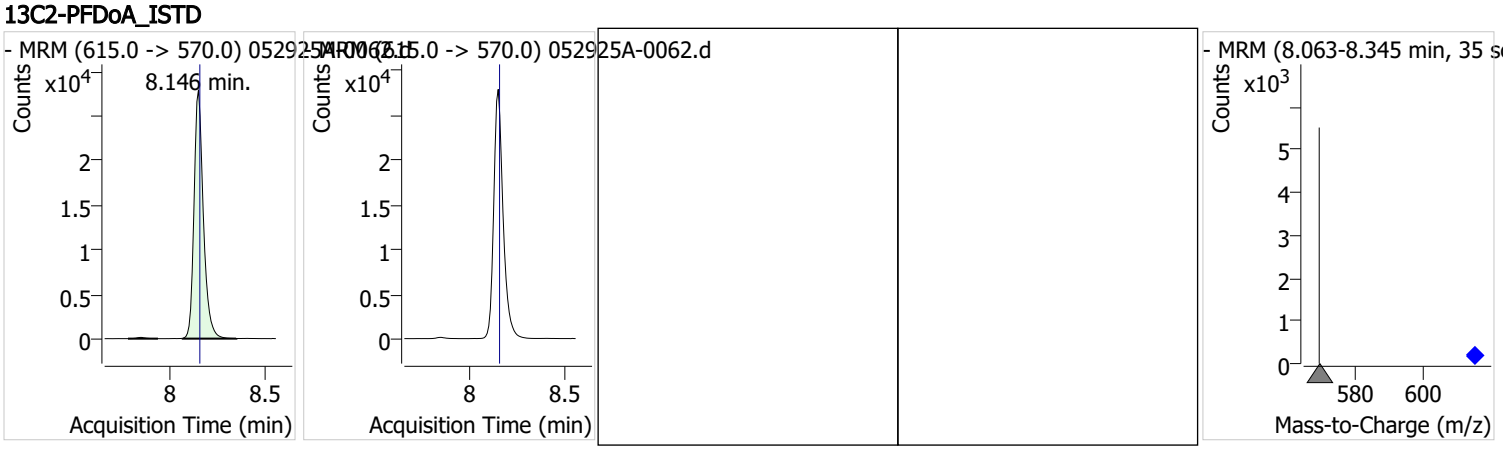
13C9-PFNA_ISTD



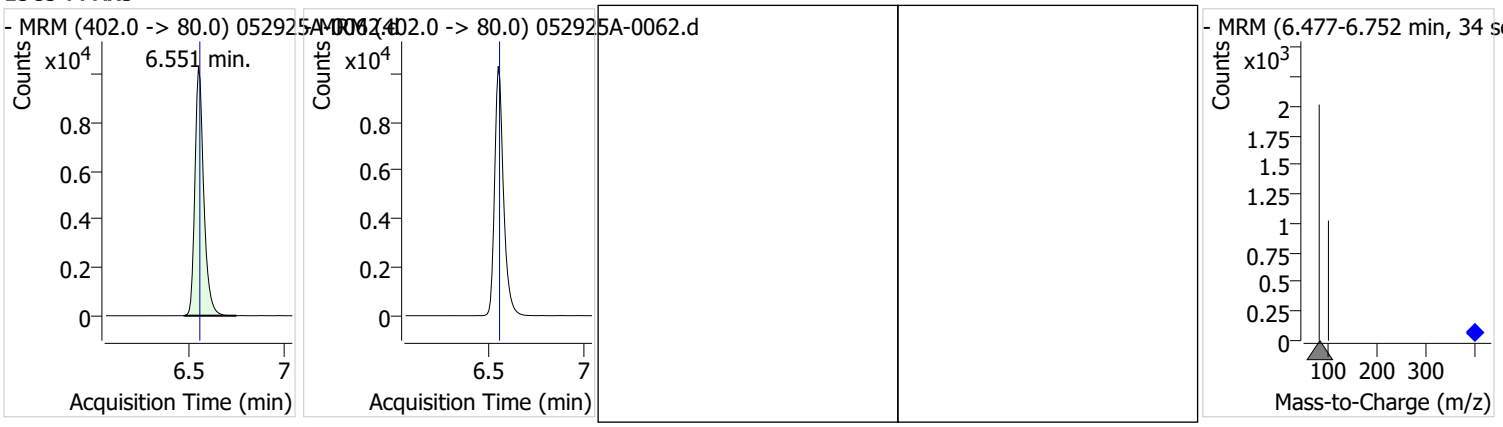
13C3-PFBS



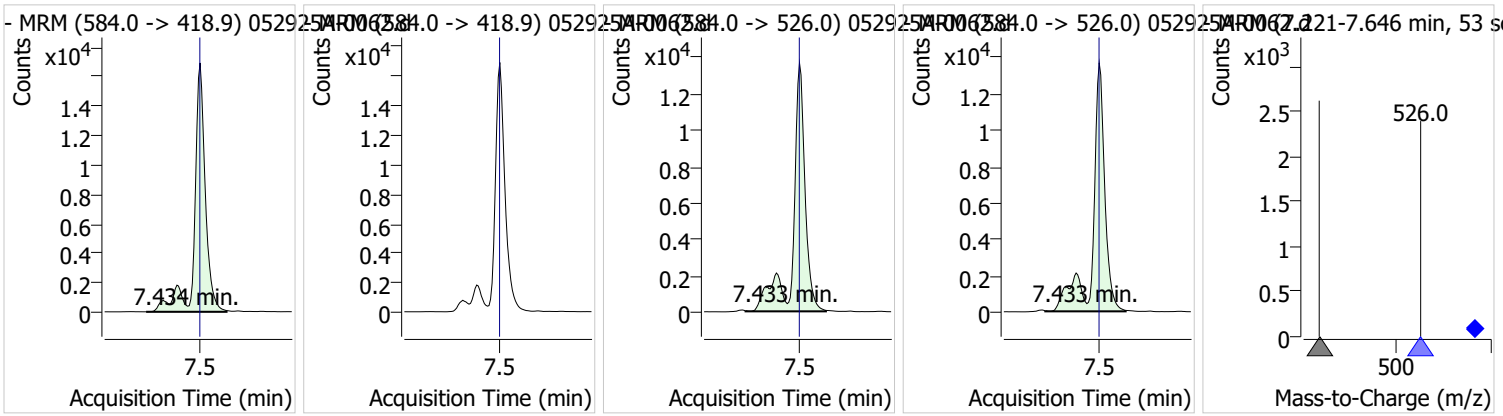
13C2-PFDoA_ISTD



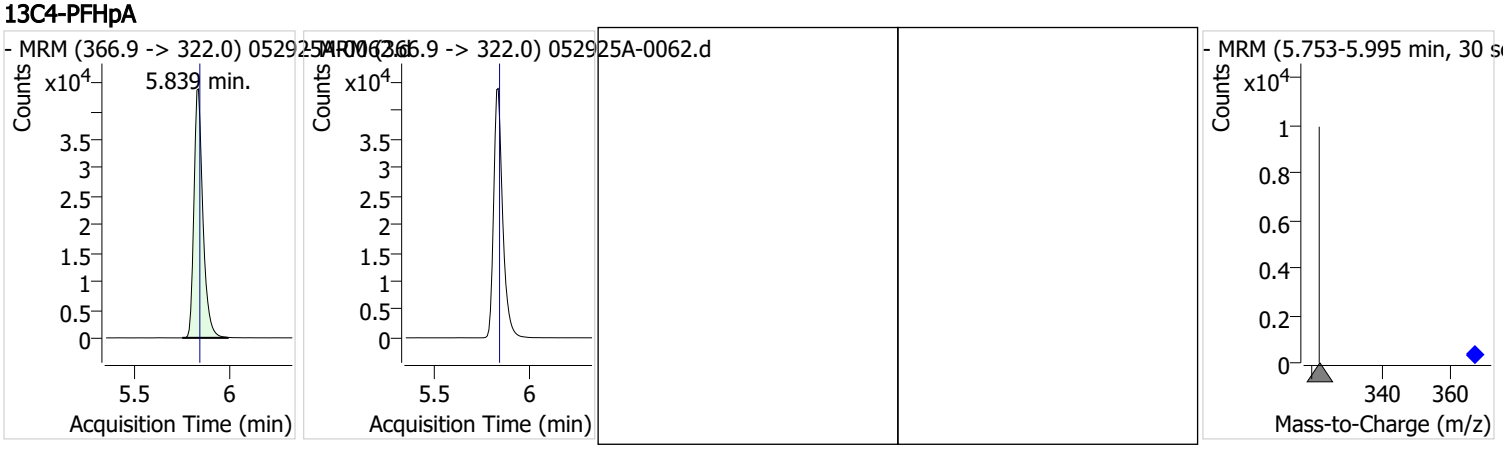
13C3-PFHxS



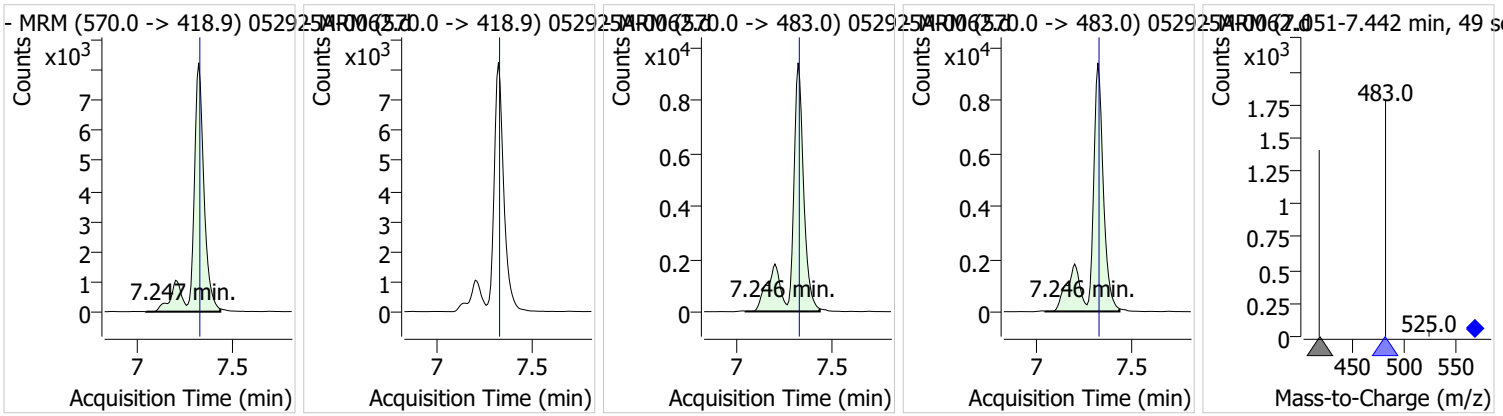
NEtFOSAA



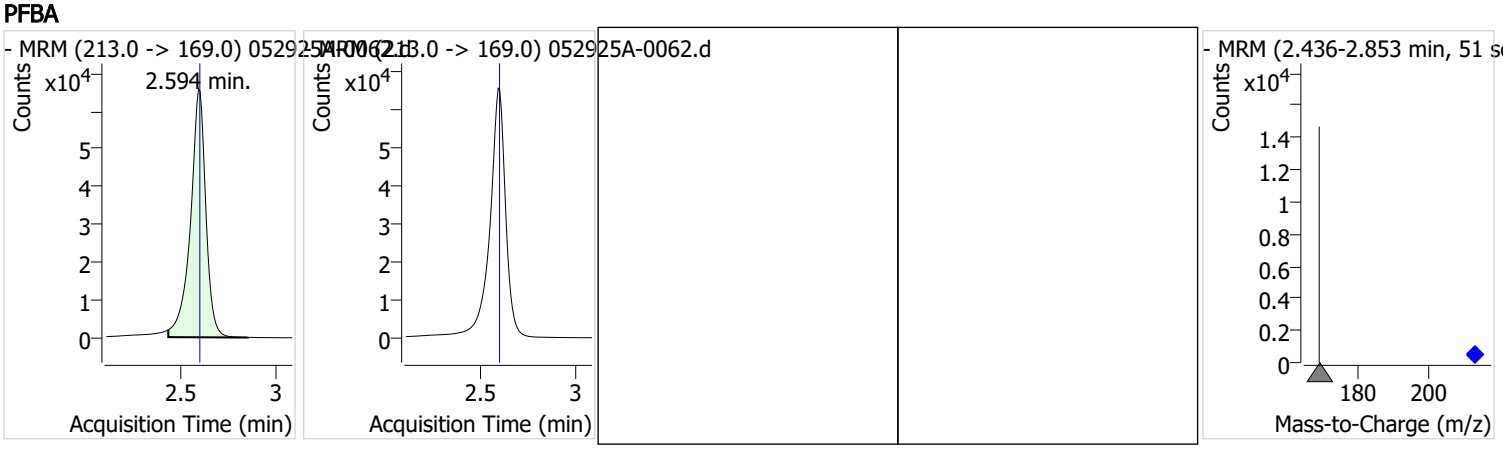
13C4-PFHpA



NMeFOSAA



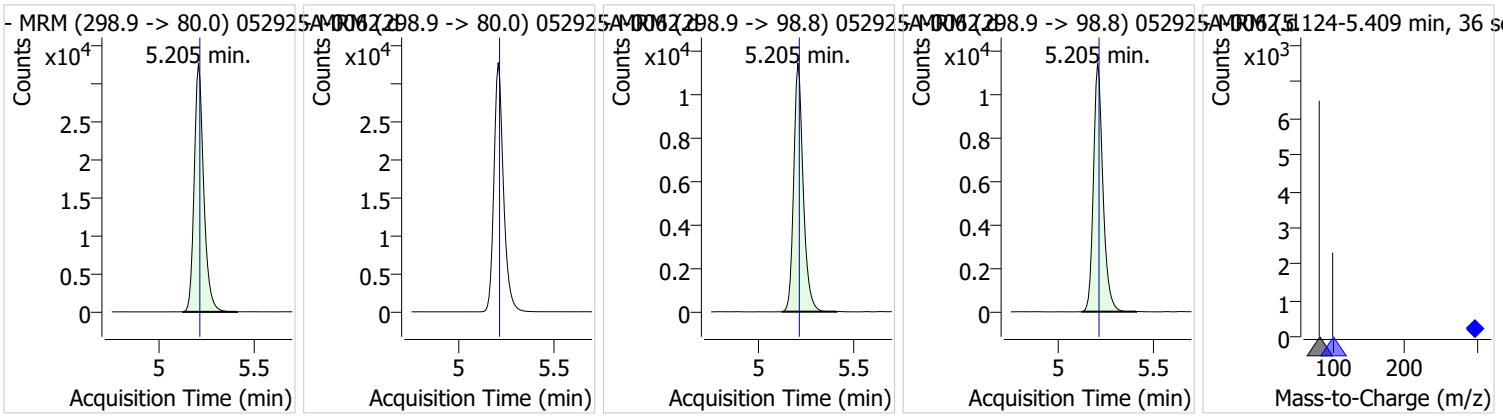
PFBA



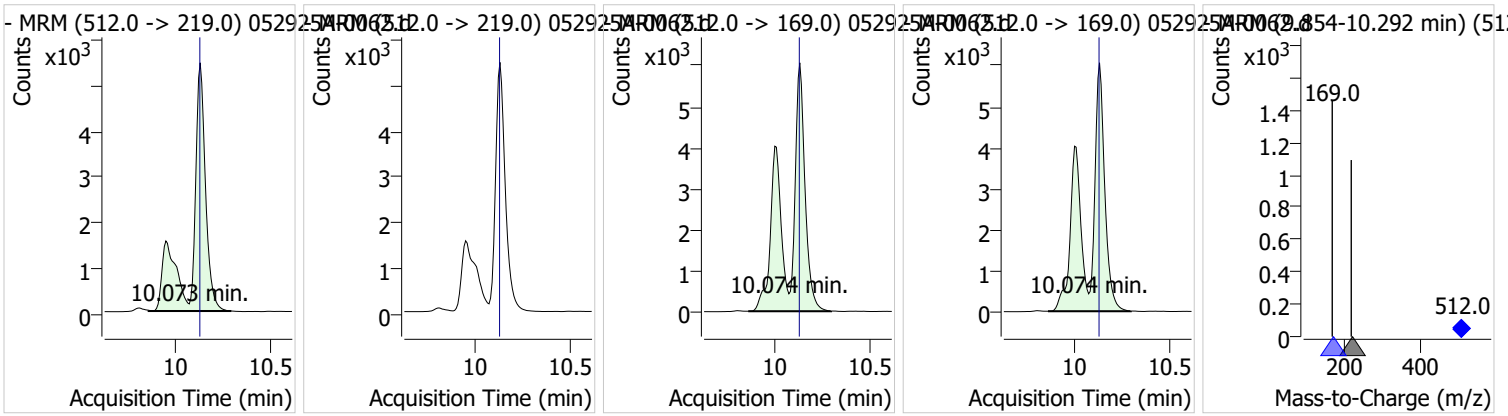
13C5-PFHxA



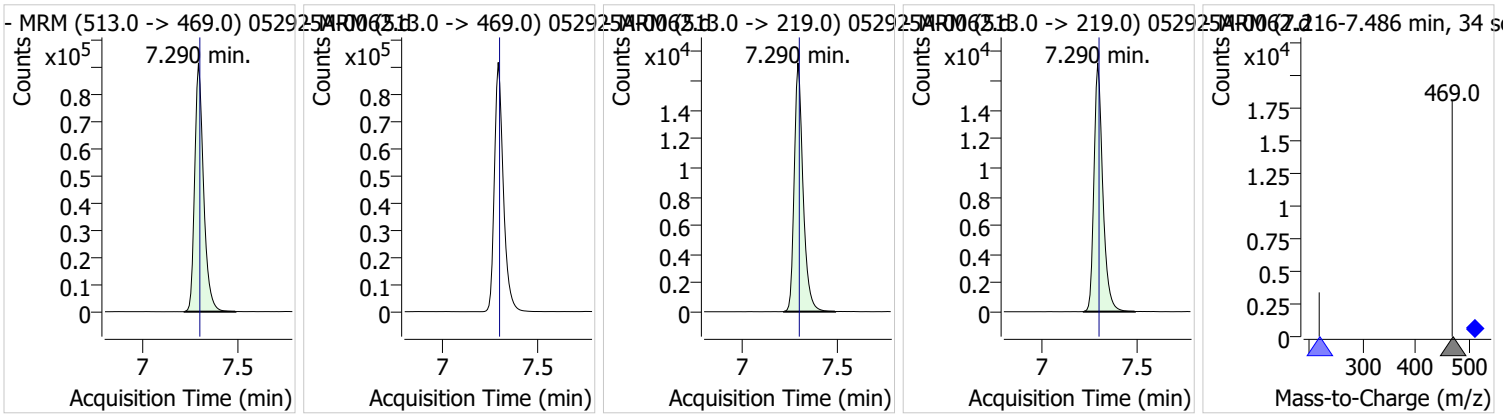
PFBS



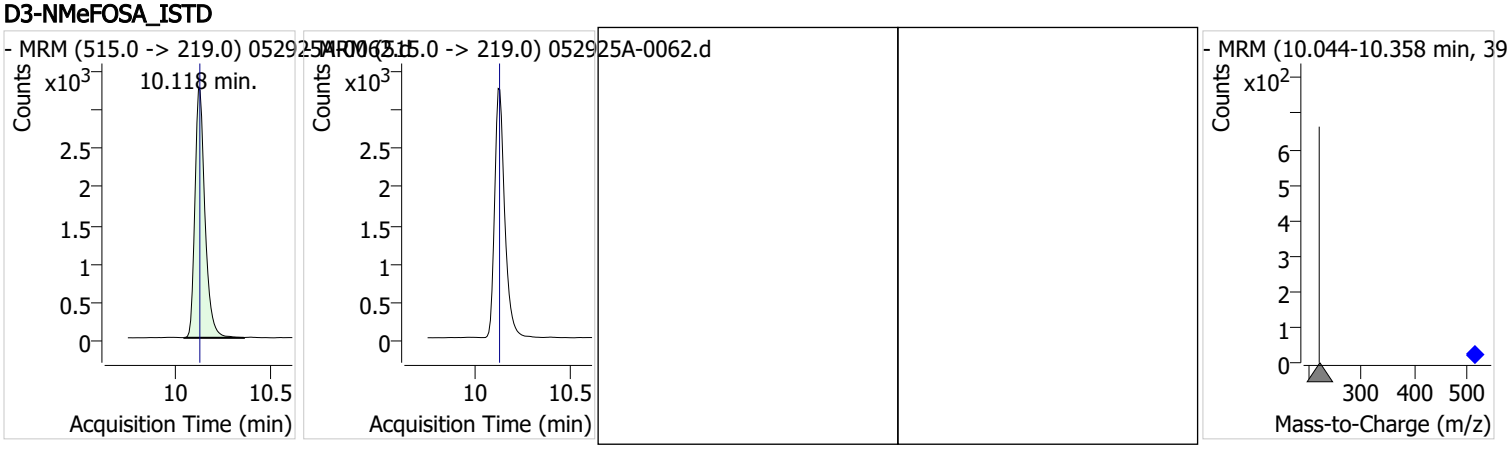
NMeFOSA



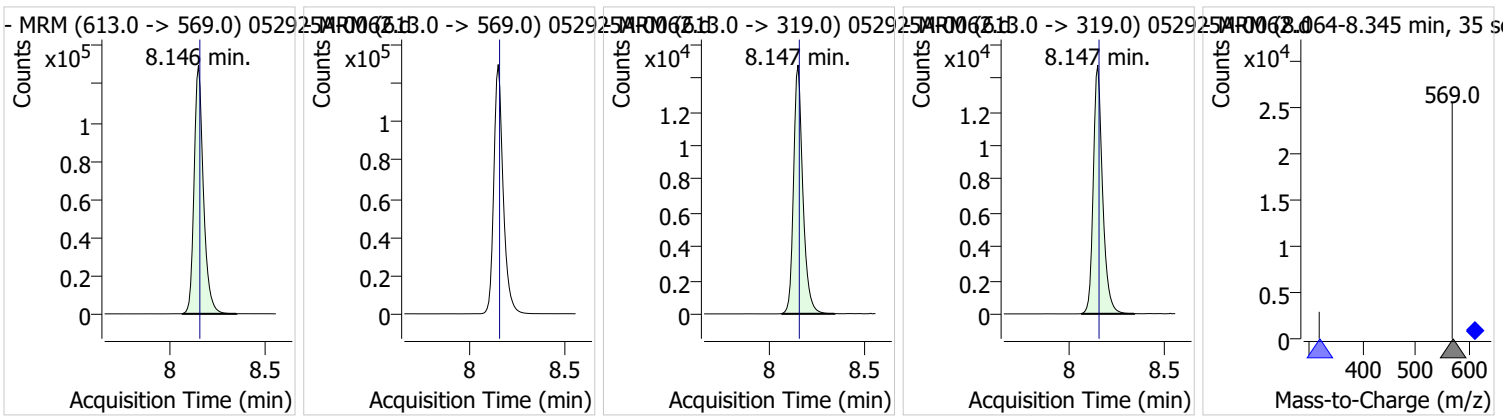
PFDA



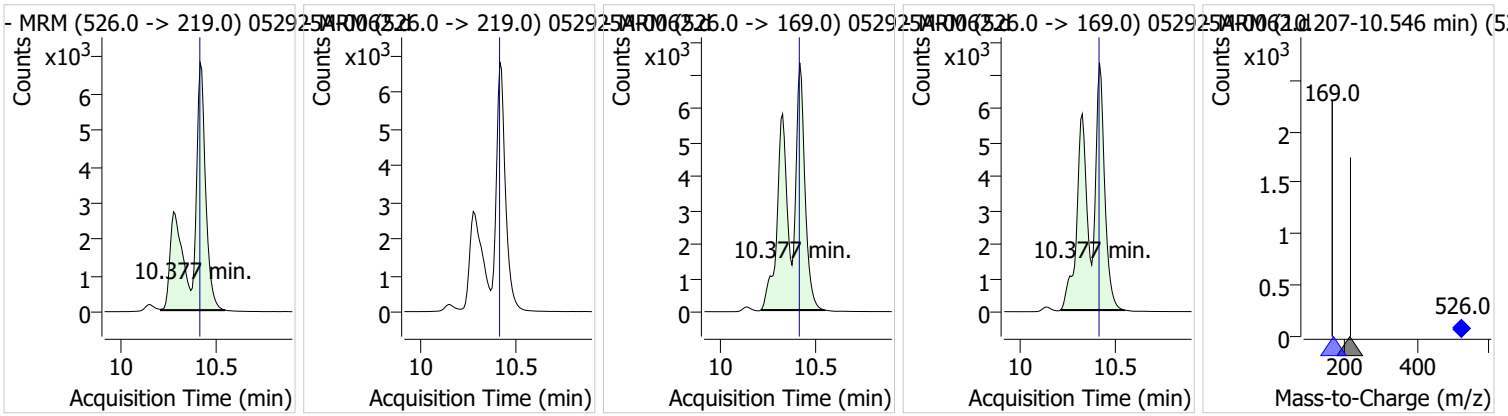
D3-NMeFOSA_ISTD



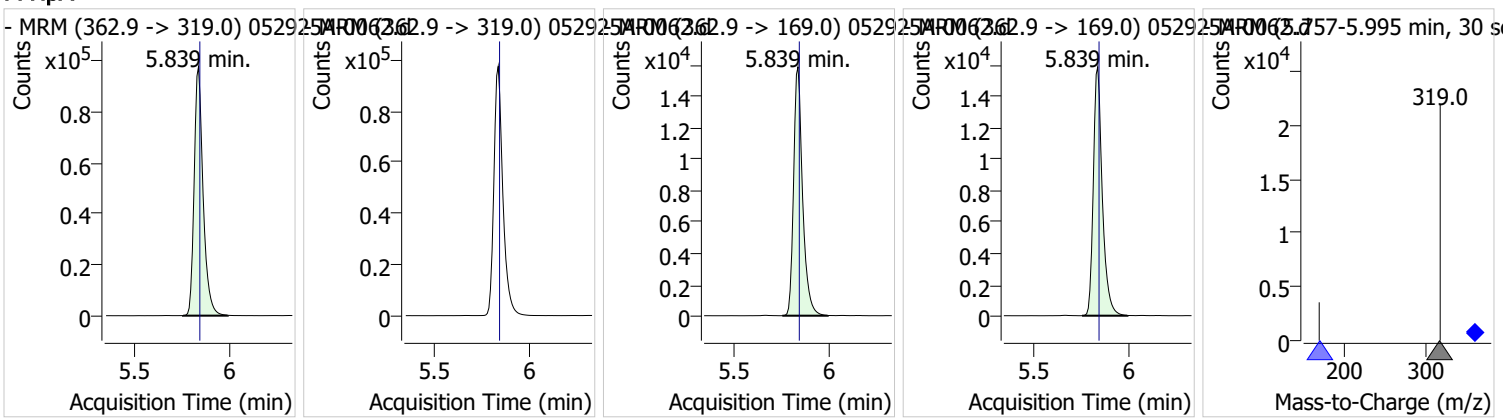
PFDoA



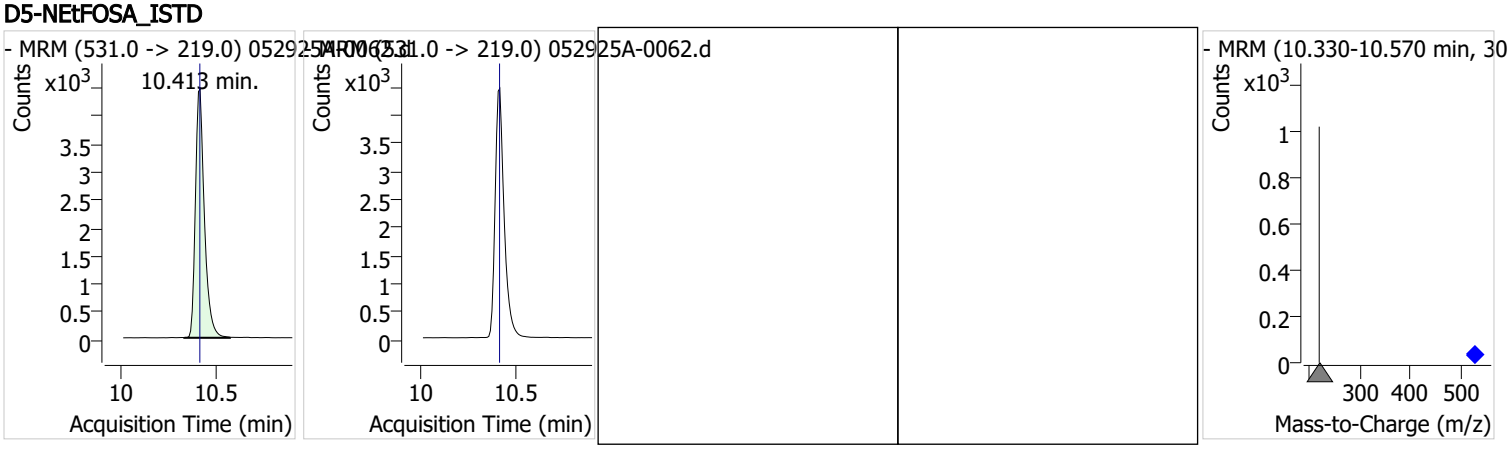
NEtFOSA



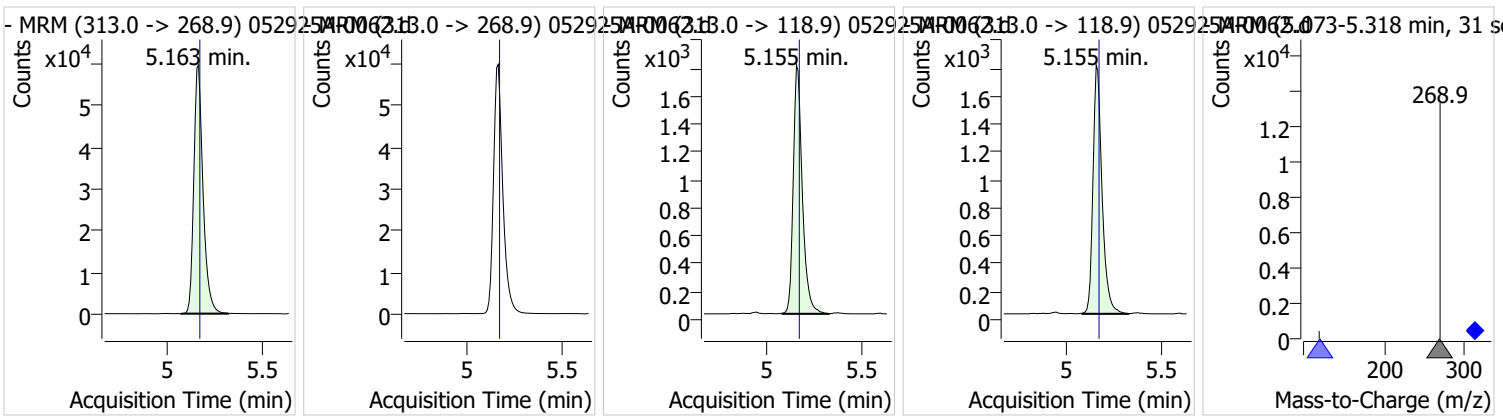
PFHpA



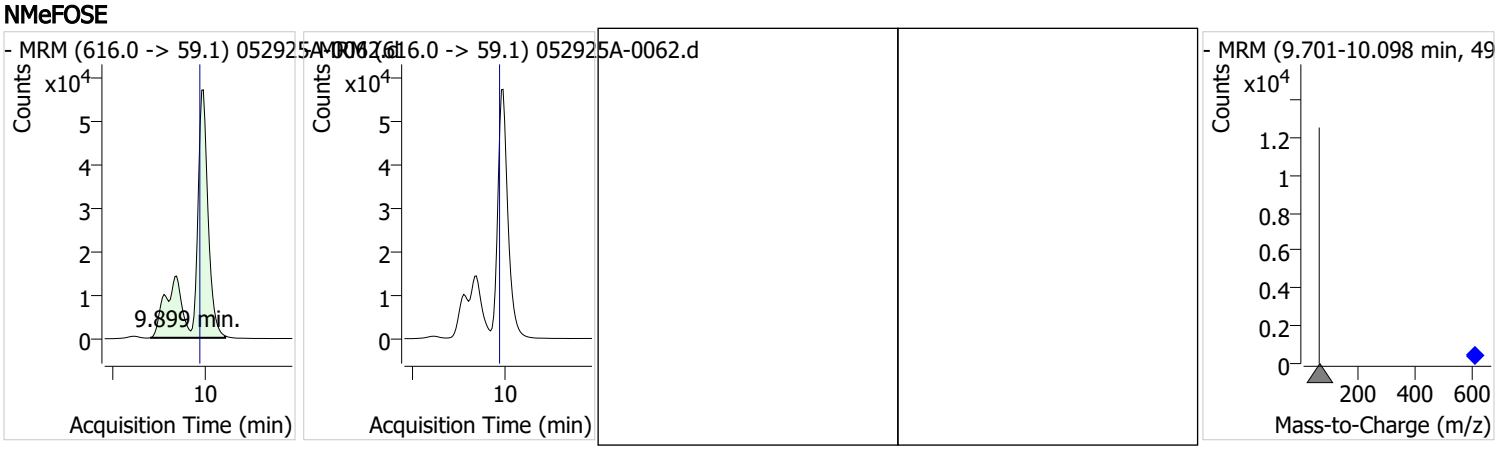
D5-NEtFOSA_ISTD



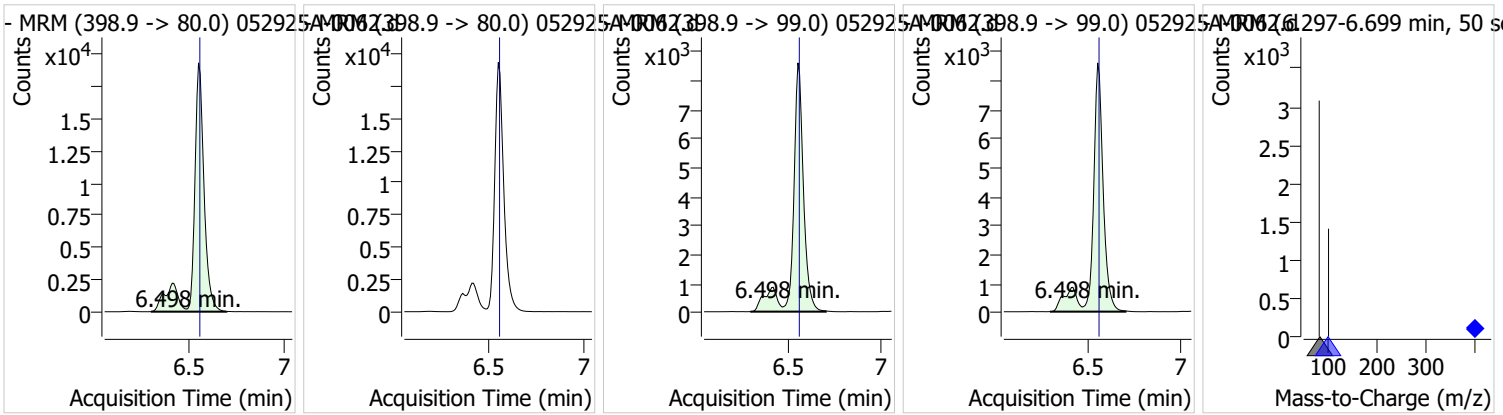
PFHxA



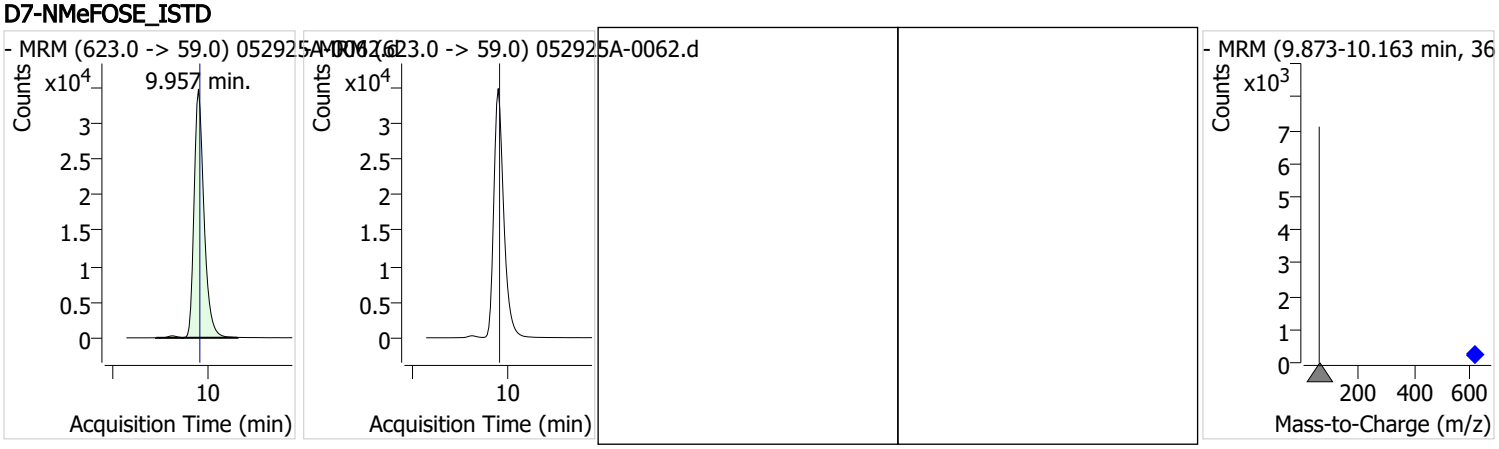
NMeFOSE



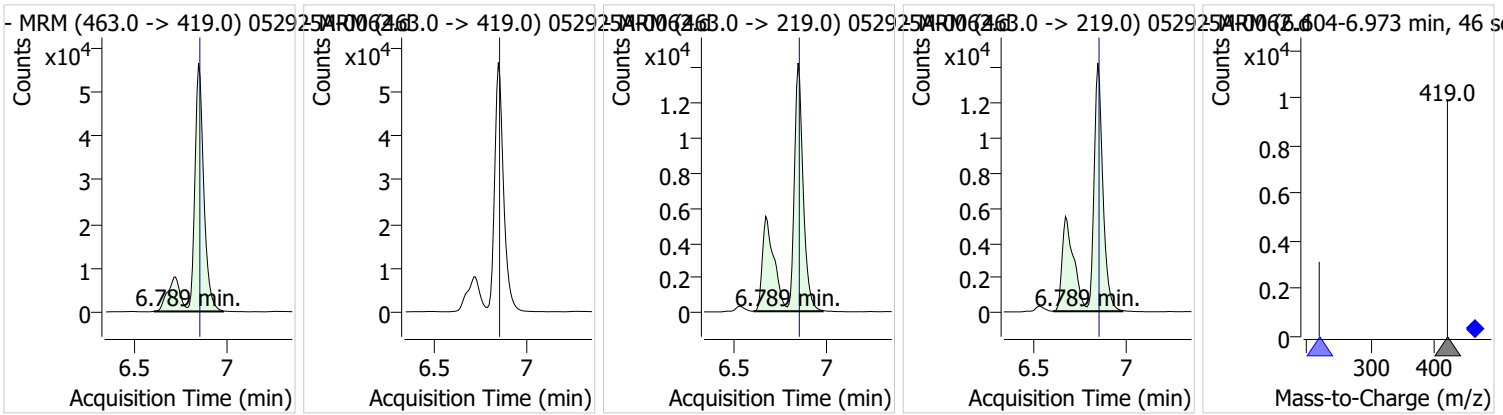
PFHxS



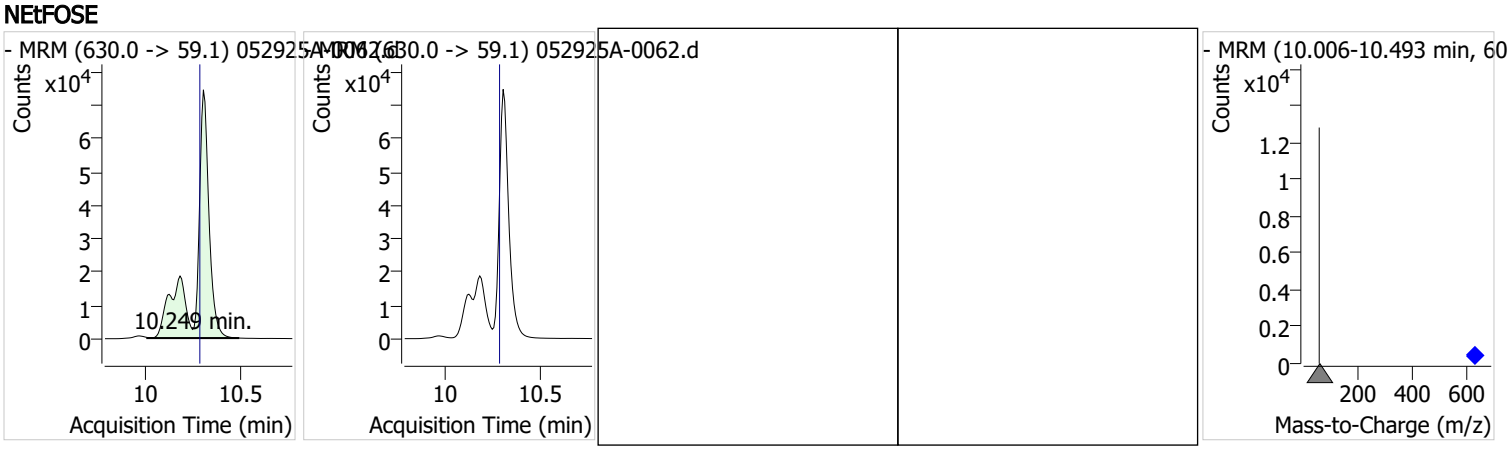
D7-NMeFOSE_ISTD



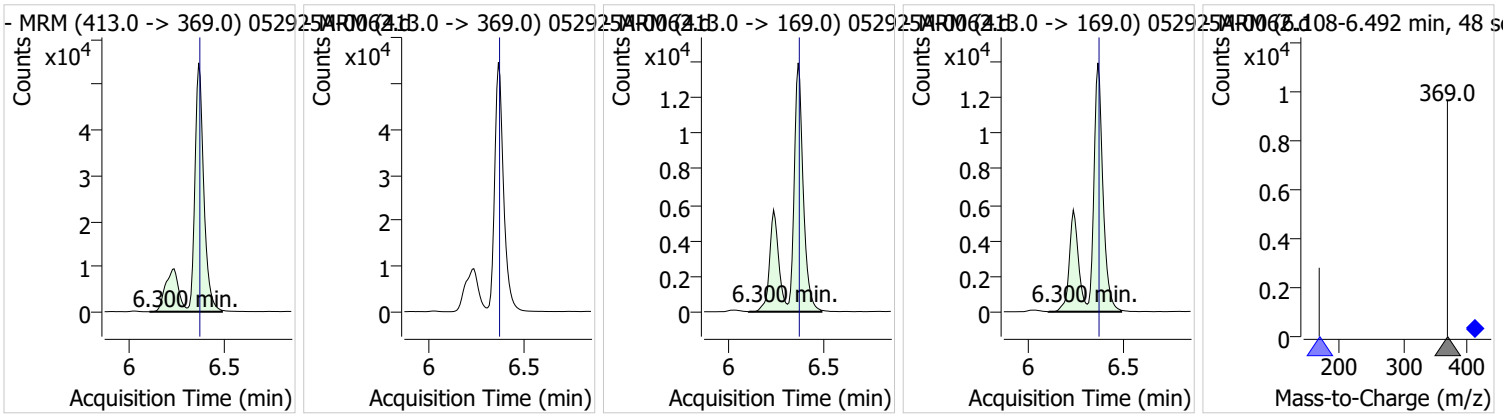
PFNA



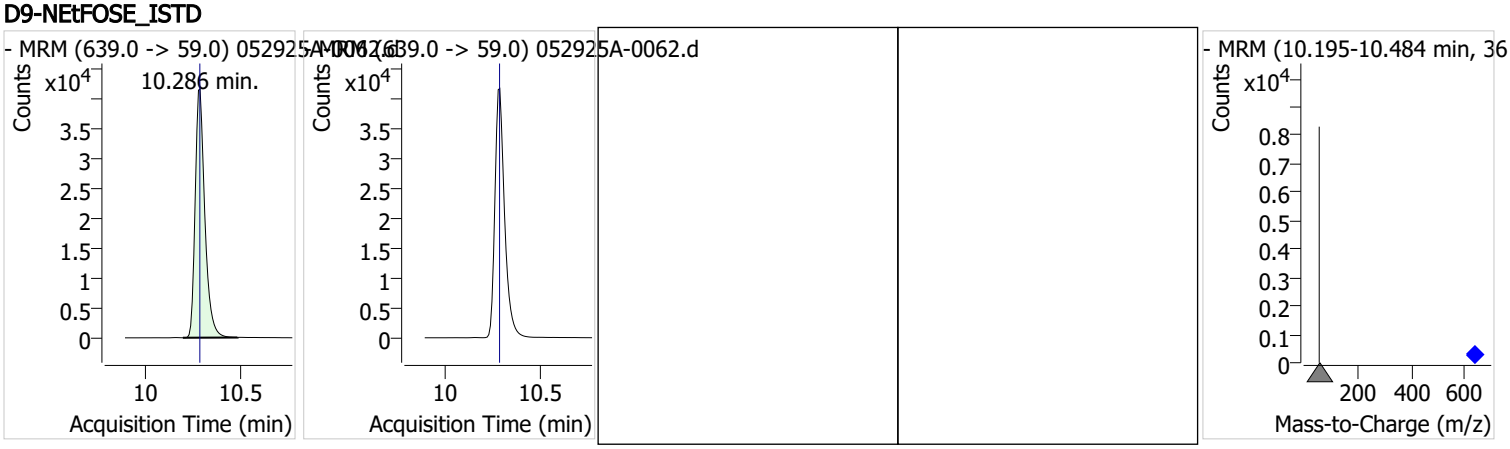
NEtFOSE



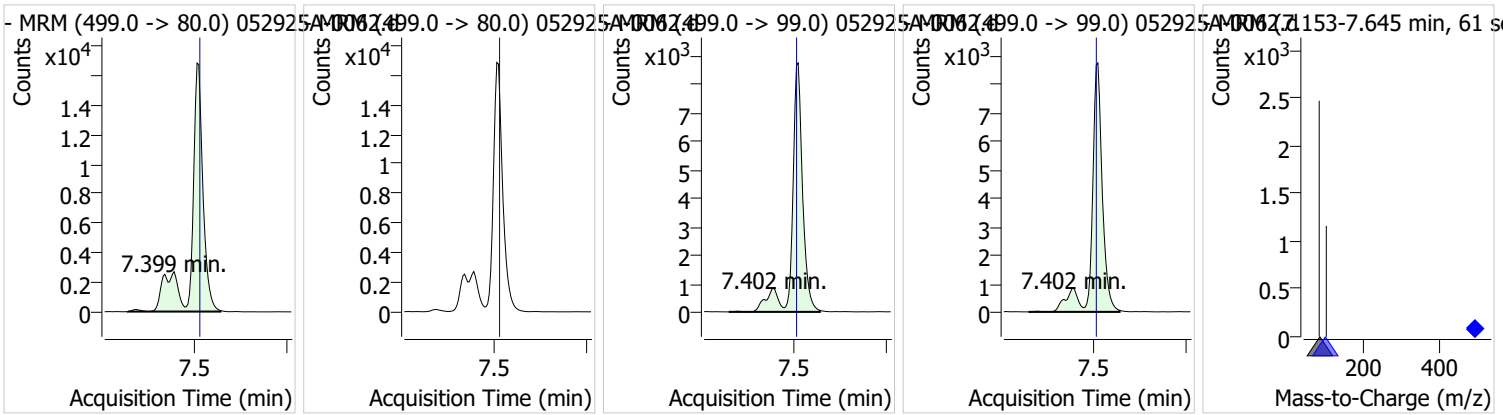
PFOA



D9-NEtFOSE_ISTD



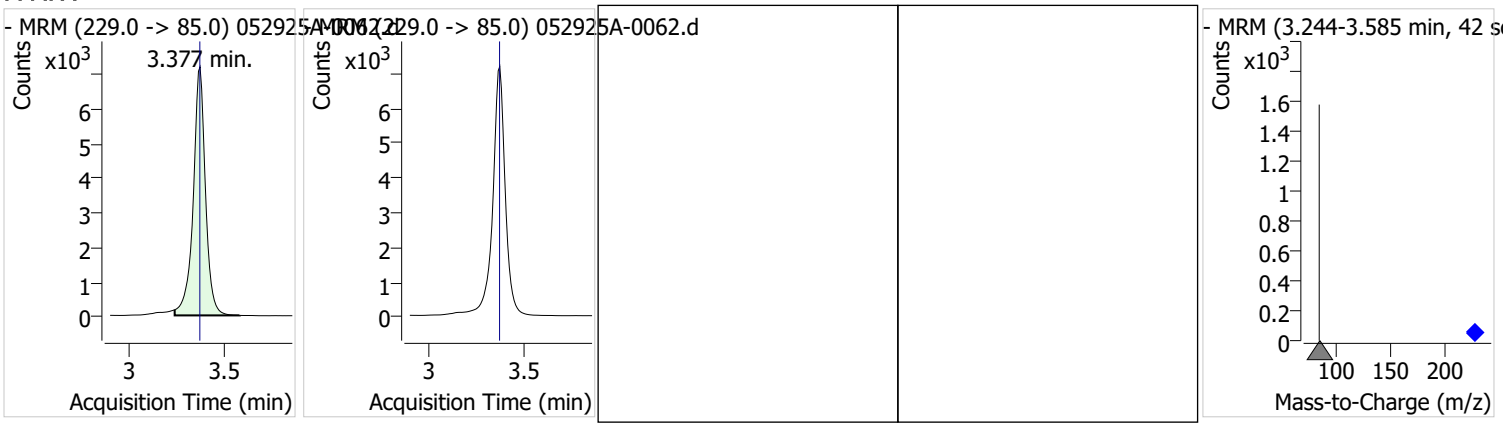
PFOS



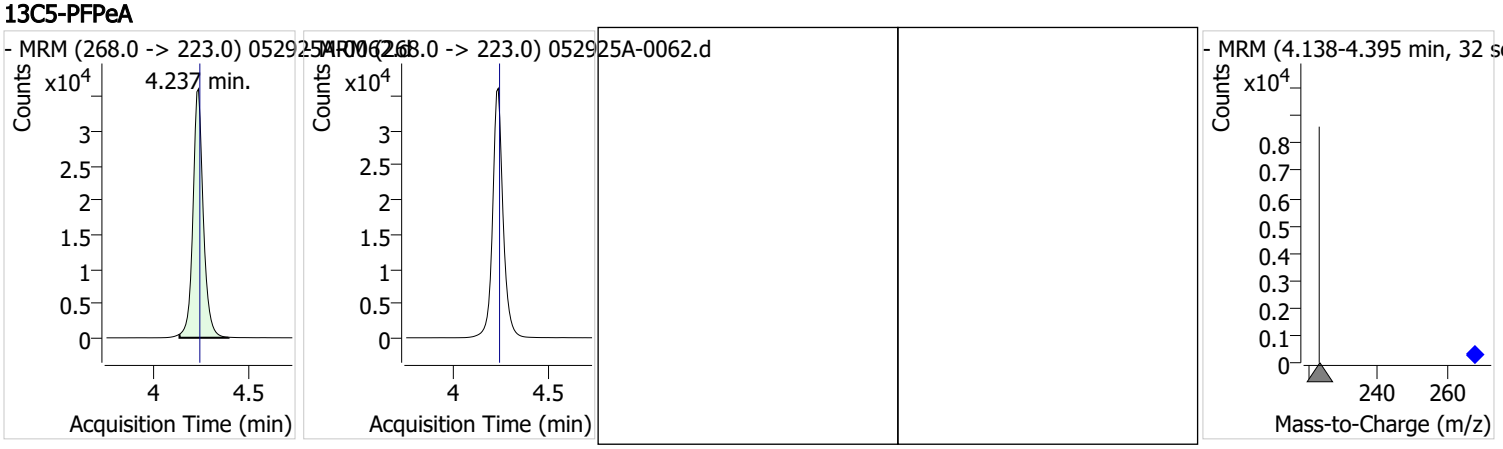
PFPeA



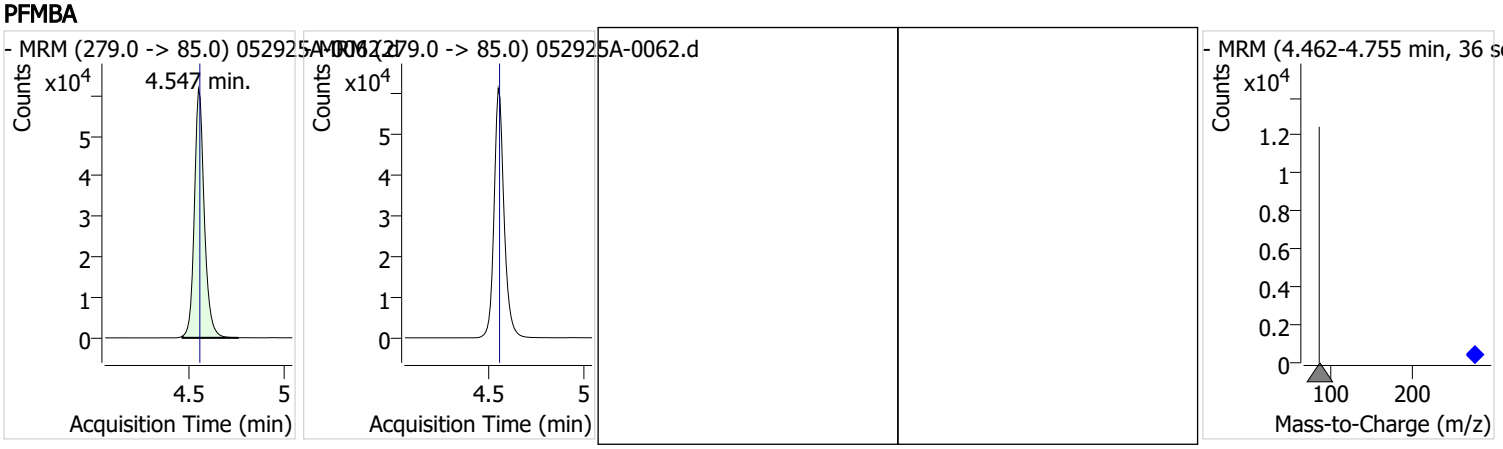
PFMPA



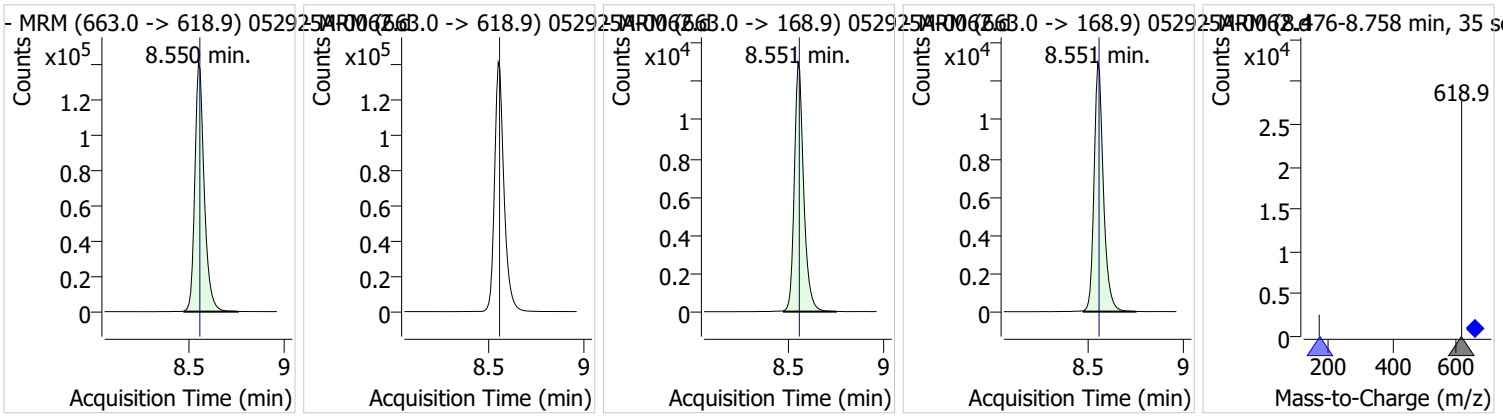
13C5-PFPeA



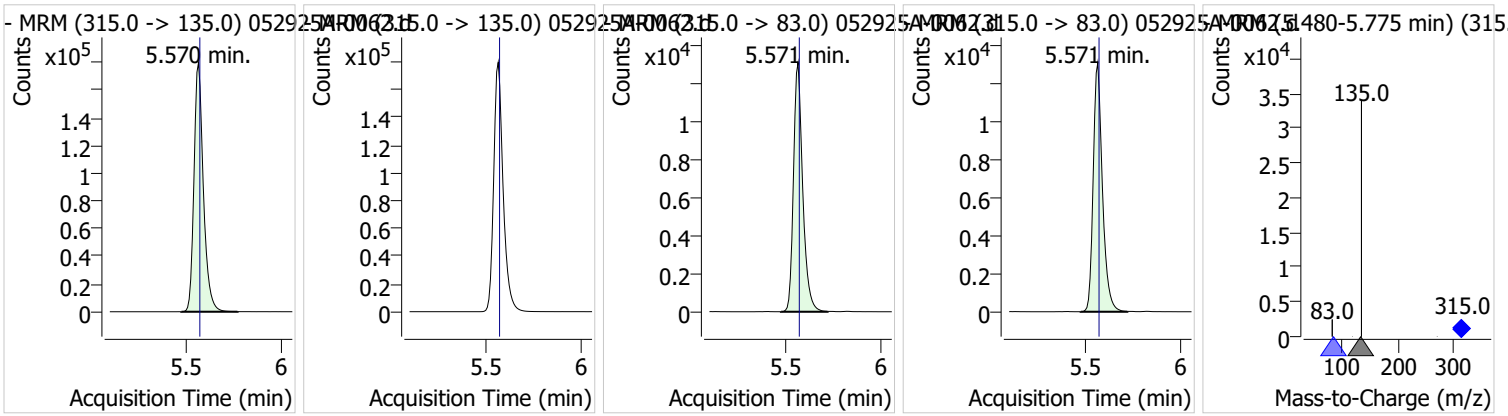
PFMBA



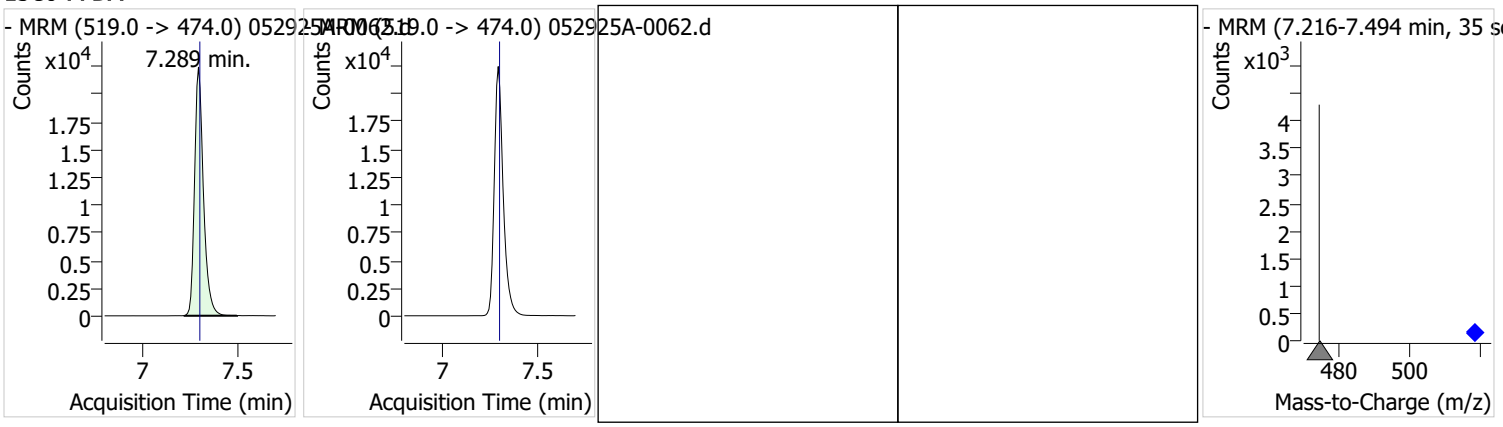
PFTrDA



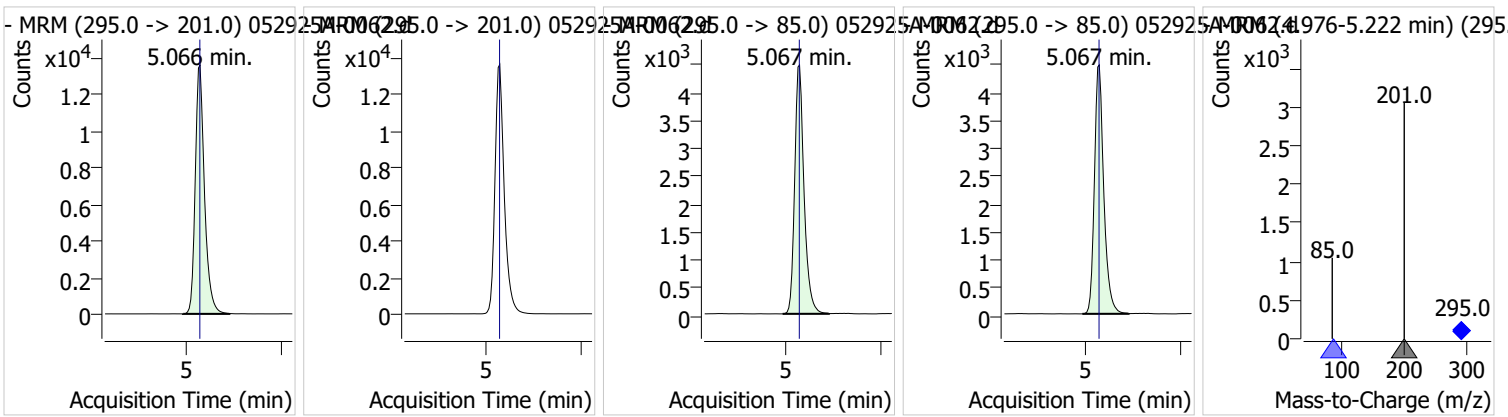
PFEESA



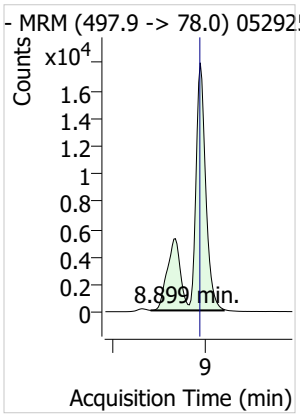
13C6-PFDA

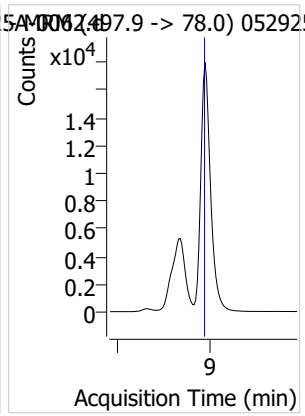


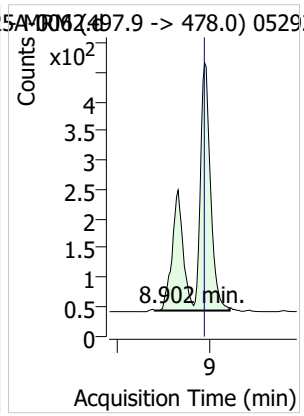
NFDHA

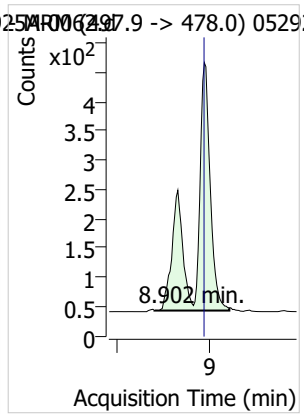


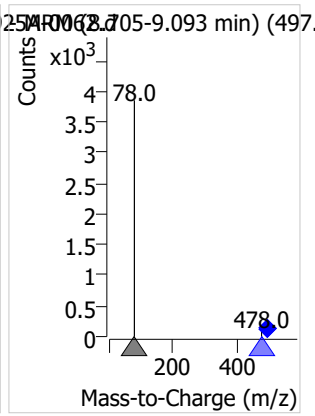
PFOSA



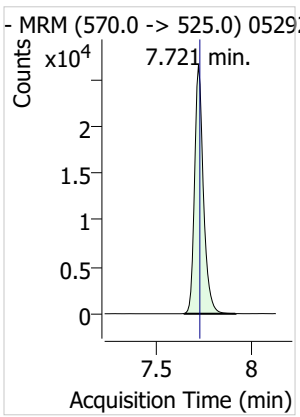


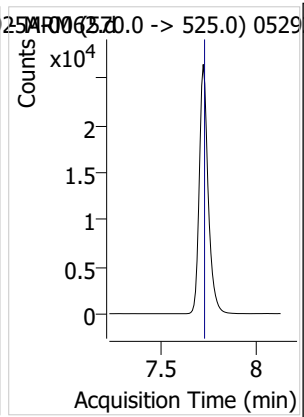


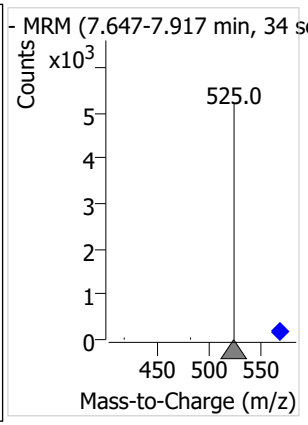




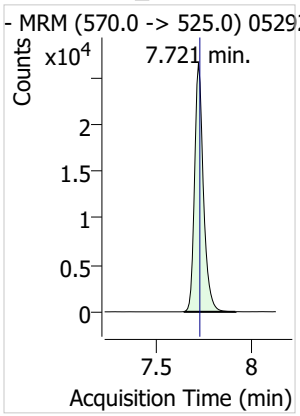
13C7-PFUnA

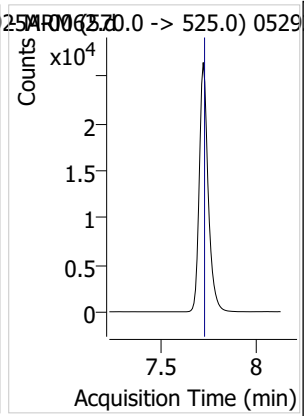


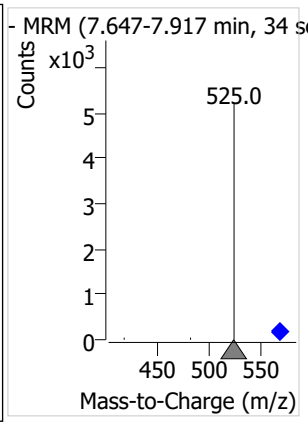




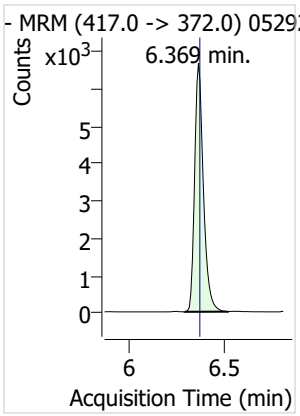
13C7-PFUnA_ISTD

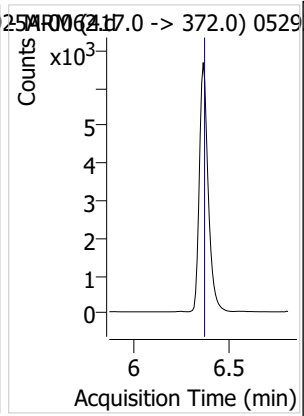


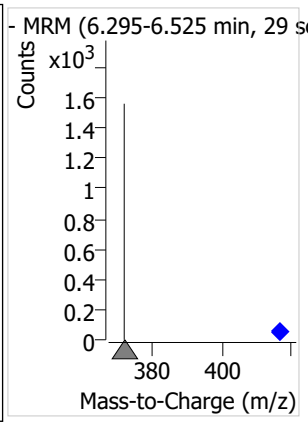




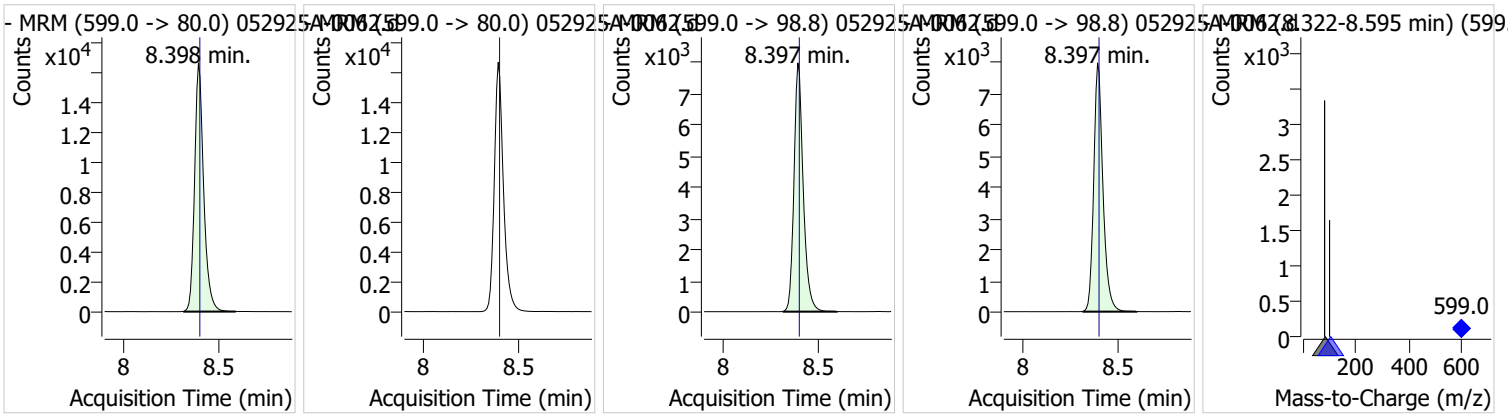
13C4-PFOA



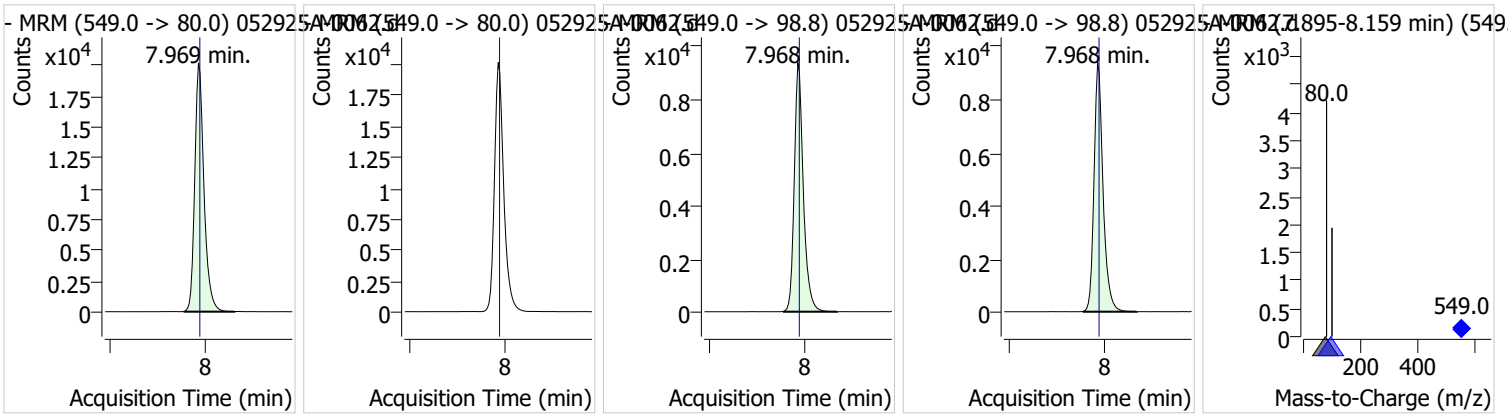




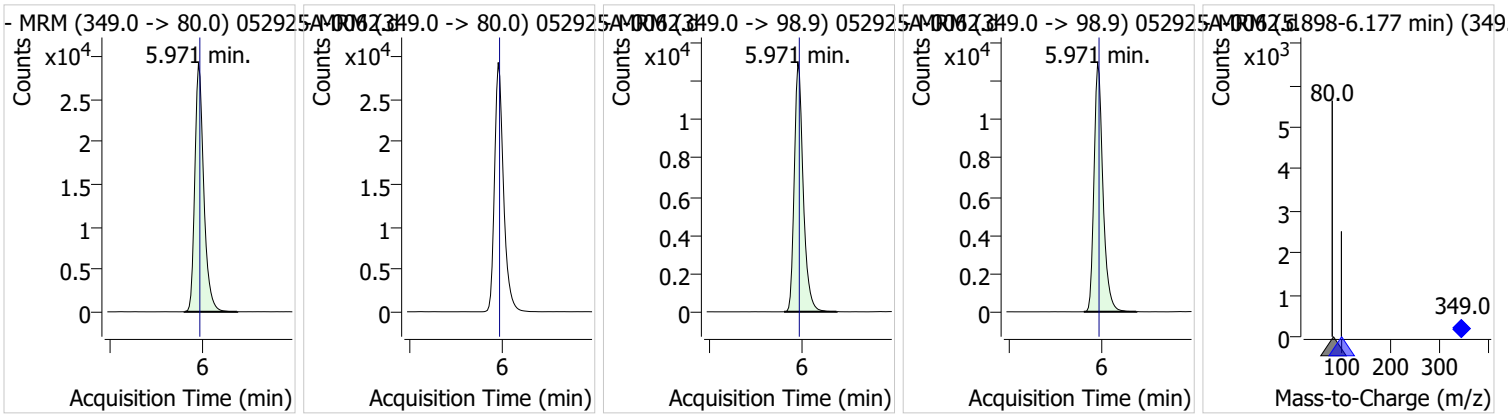
PFDS



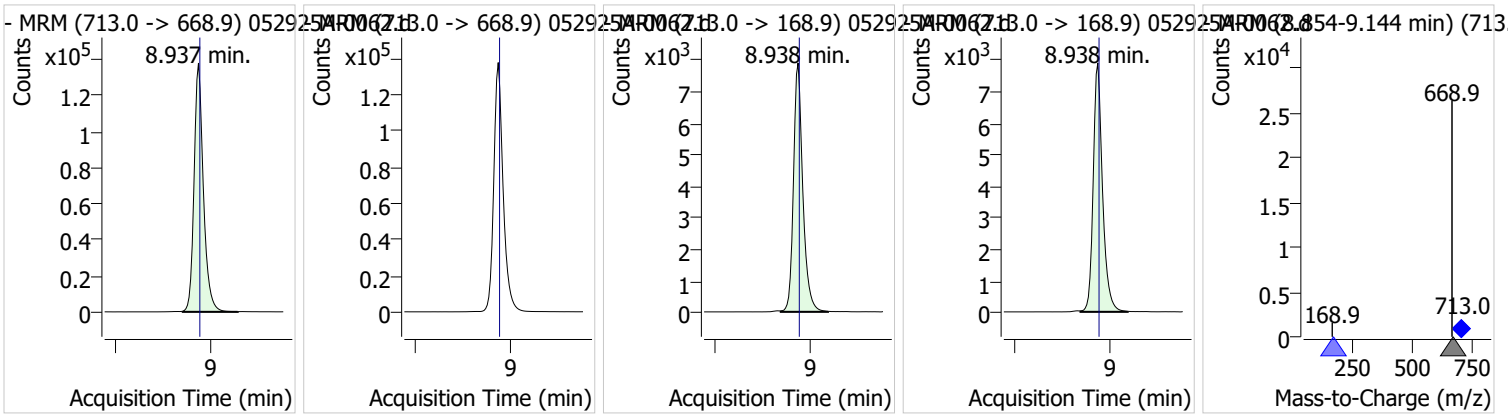
PFNS



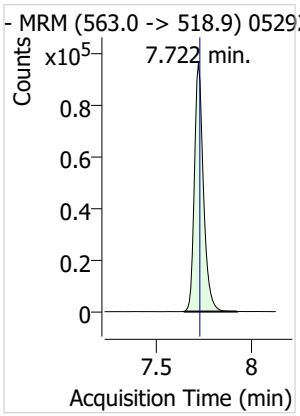
PFPeS

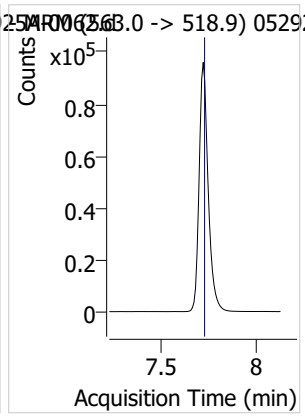


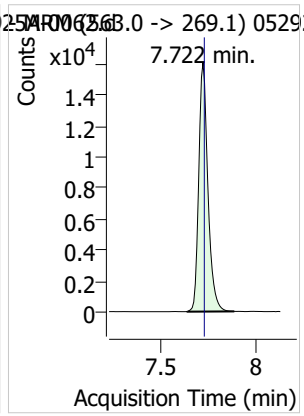
PFTeDA

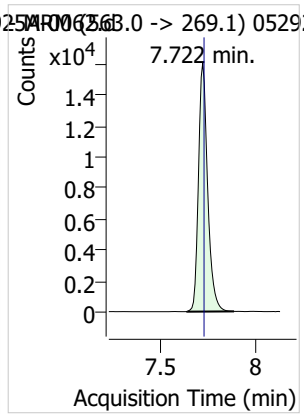


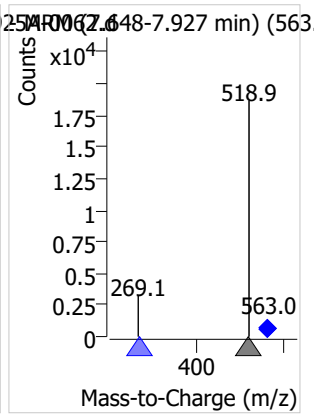
PFUnA



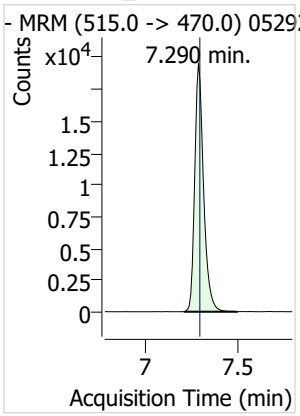


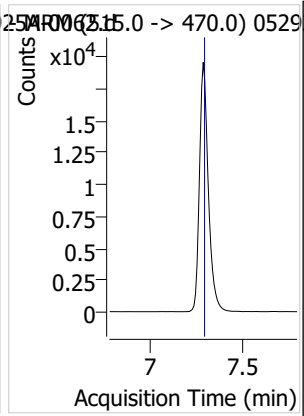


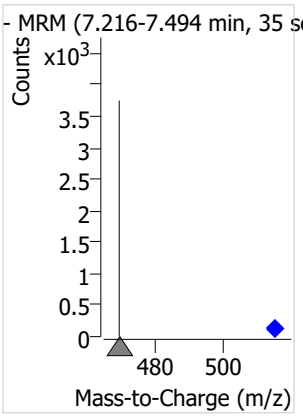




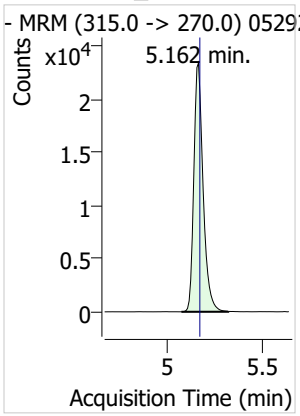
13C2-PFDA_ISTD

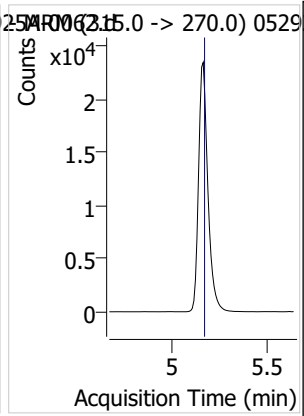


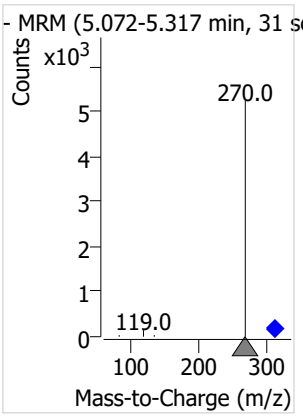




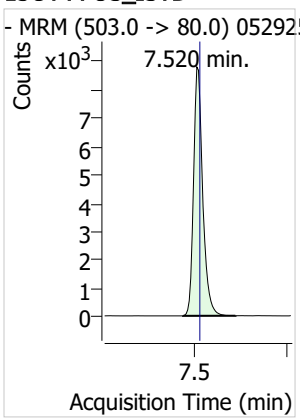
13C2-PFHxA_ISTD

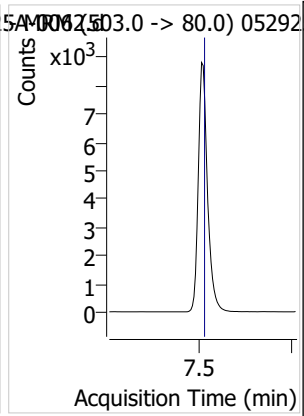


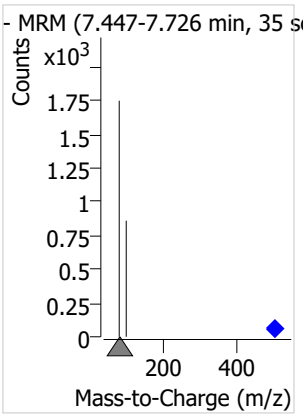




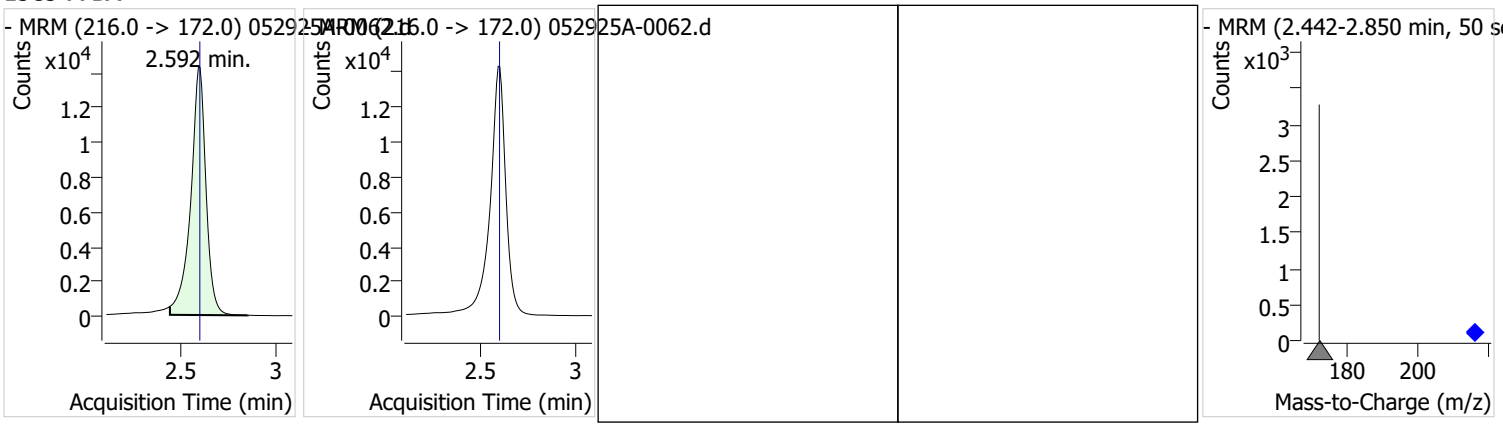
13C4-PFOS_ISTD



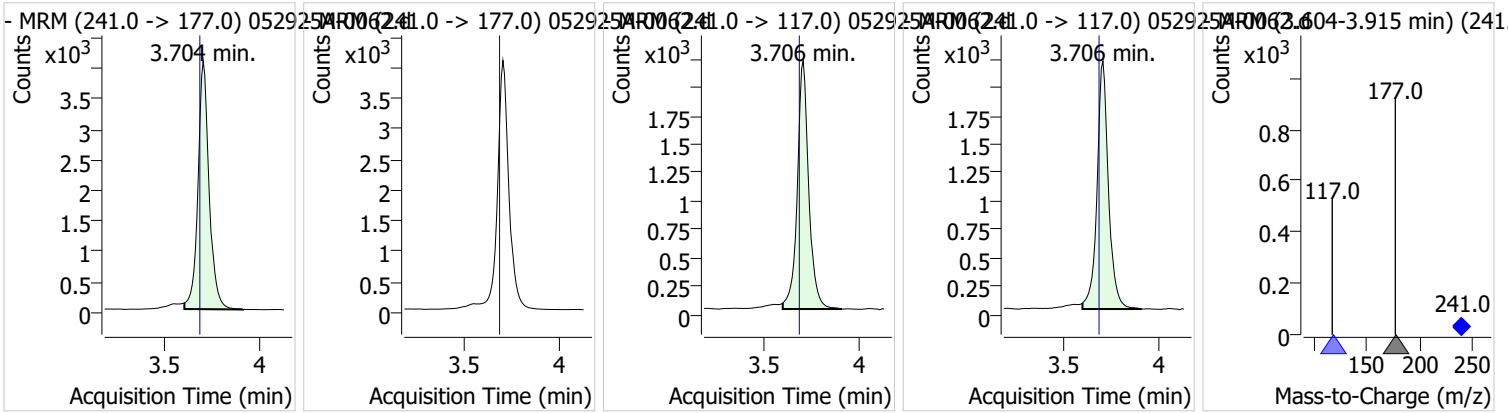




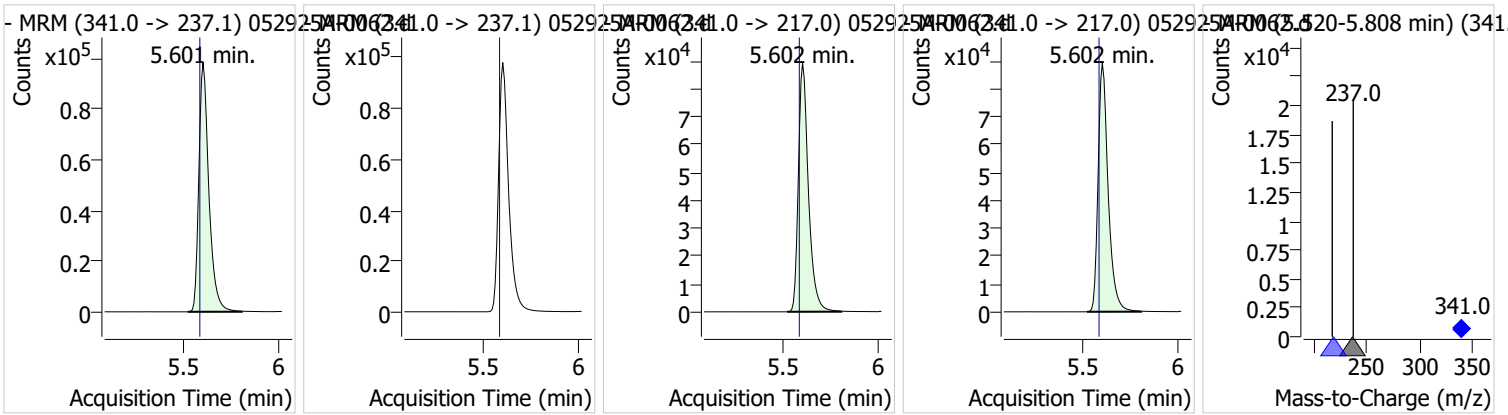
13C3-PFBA



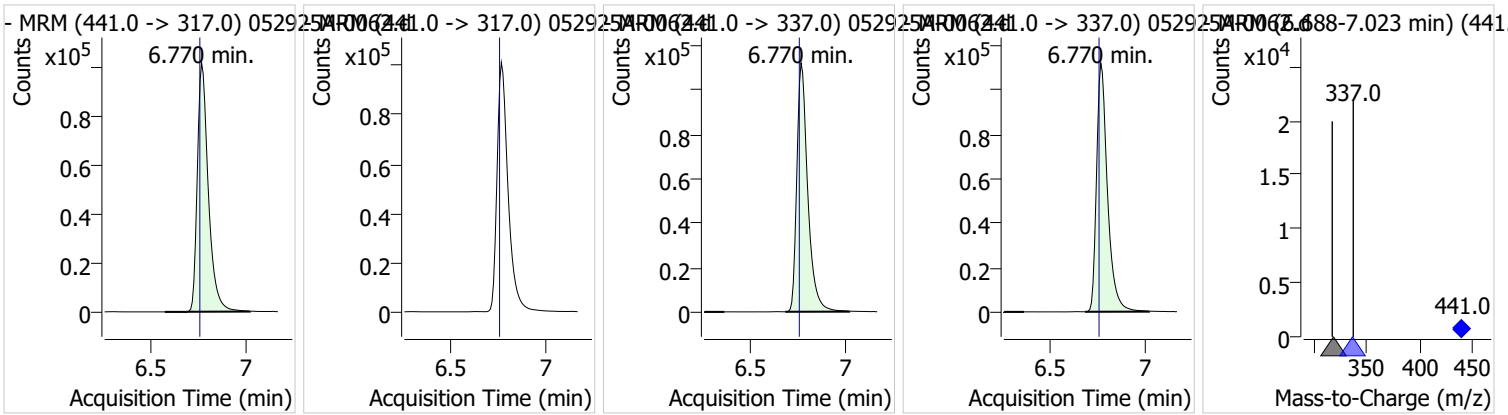
3:3FTCA



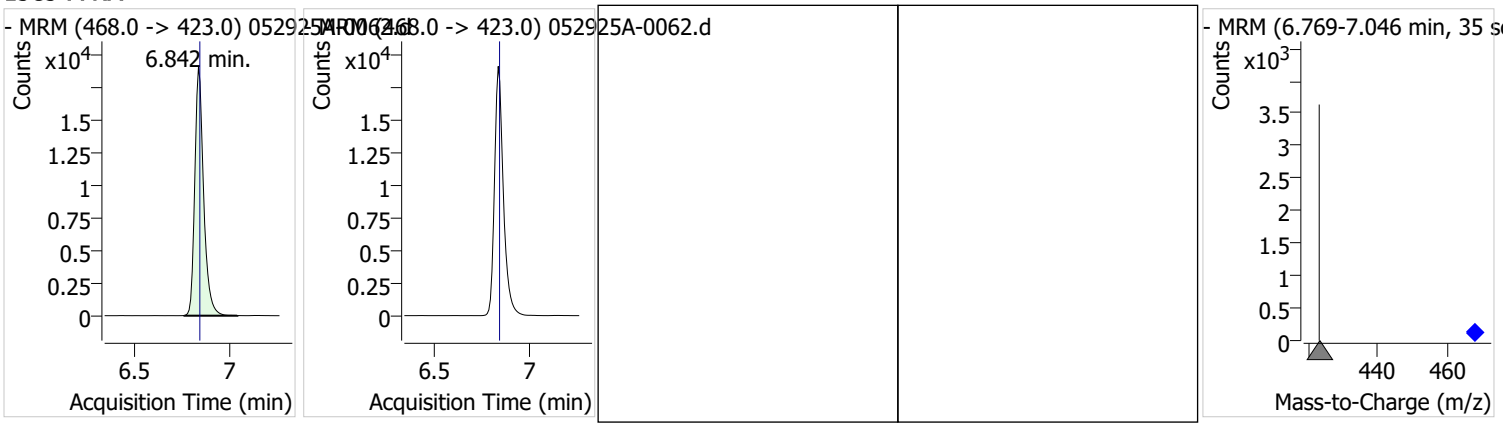
5:3FTCA



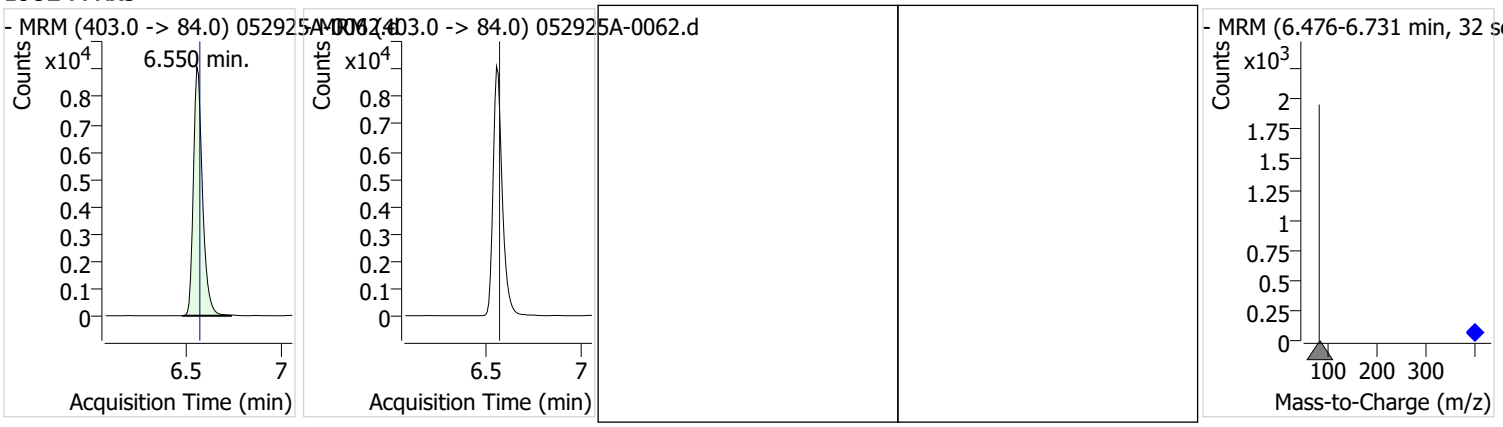
7:3FTCA



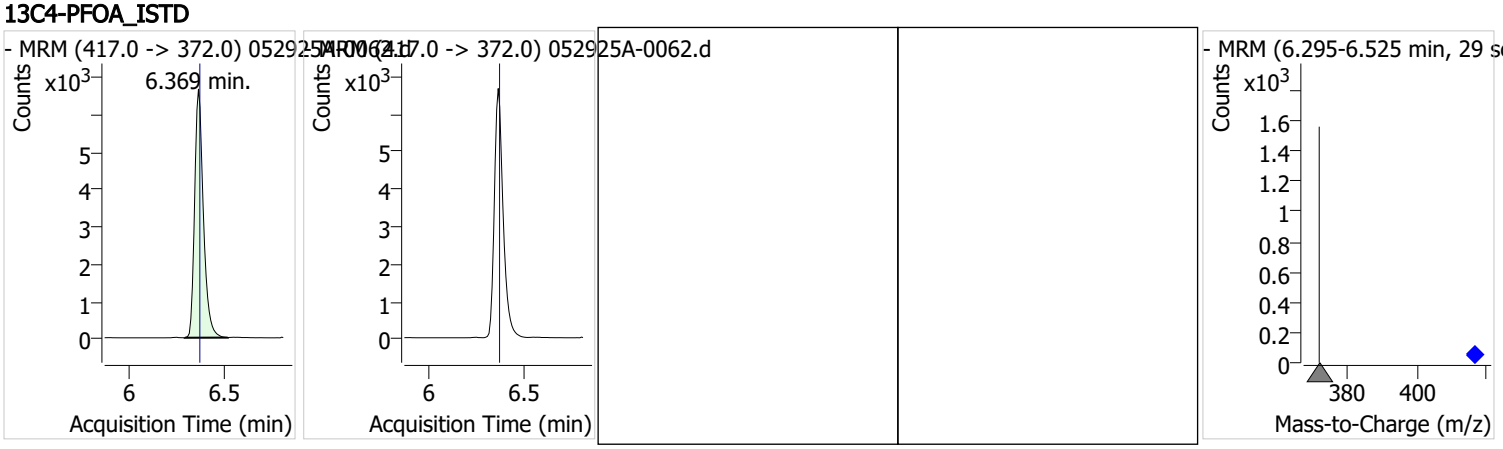
13C5-PFNA



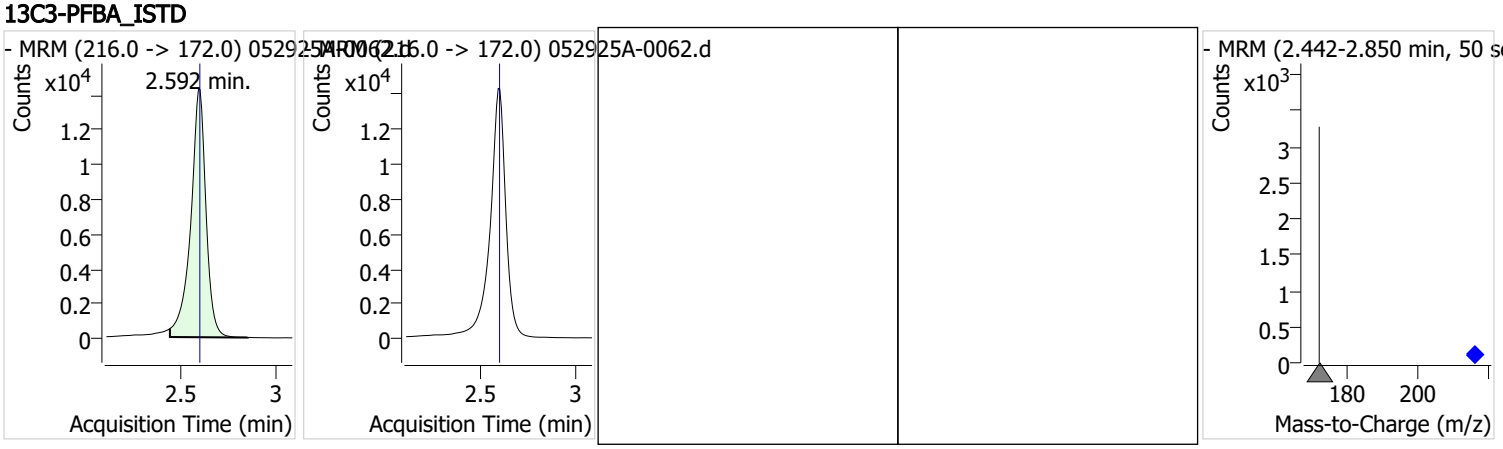
18O2-PFHxS



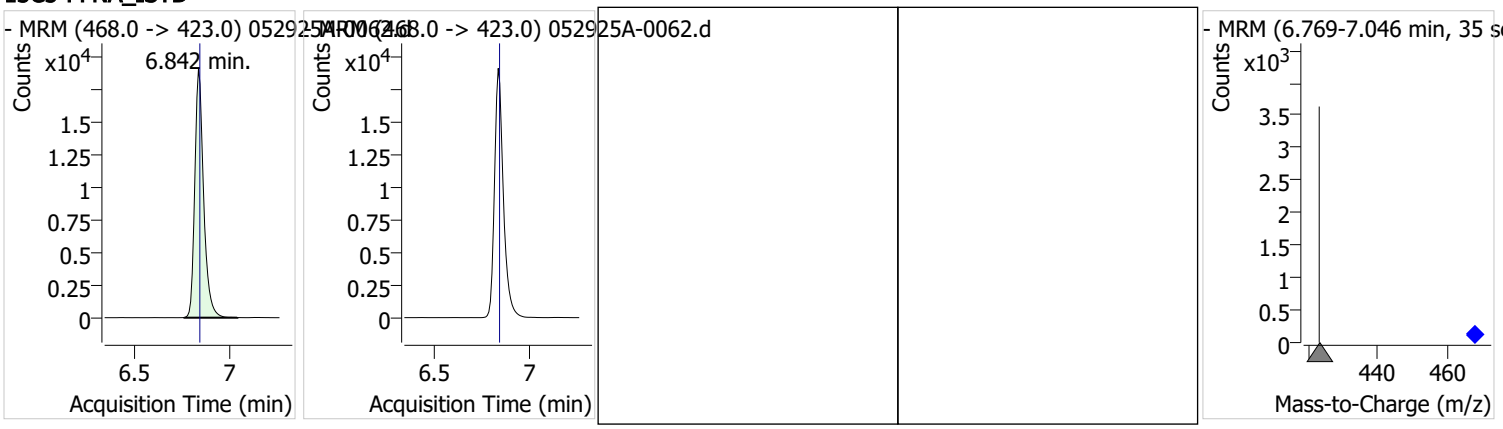
13C4-PFOA_ISTD



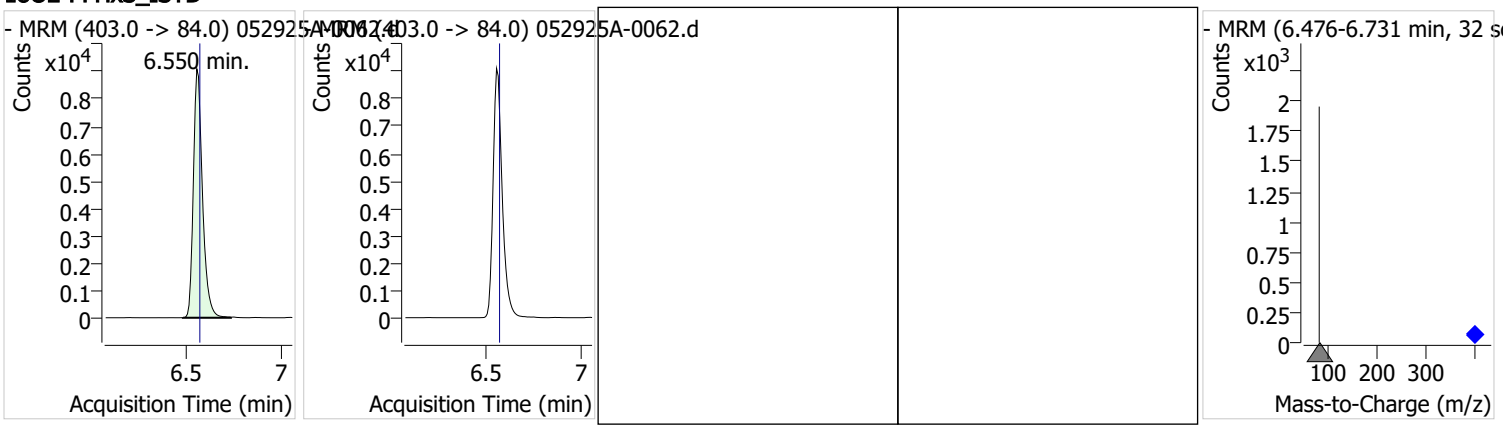
13C3-PFBA_ISTD



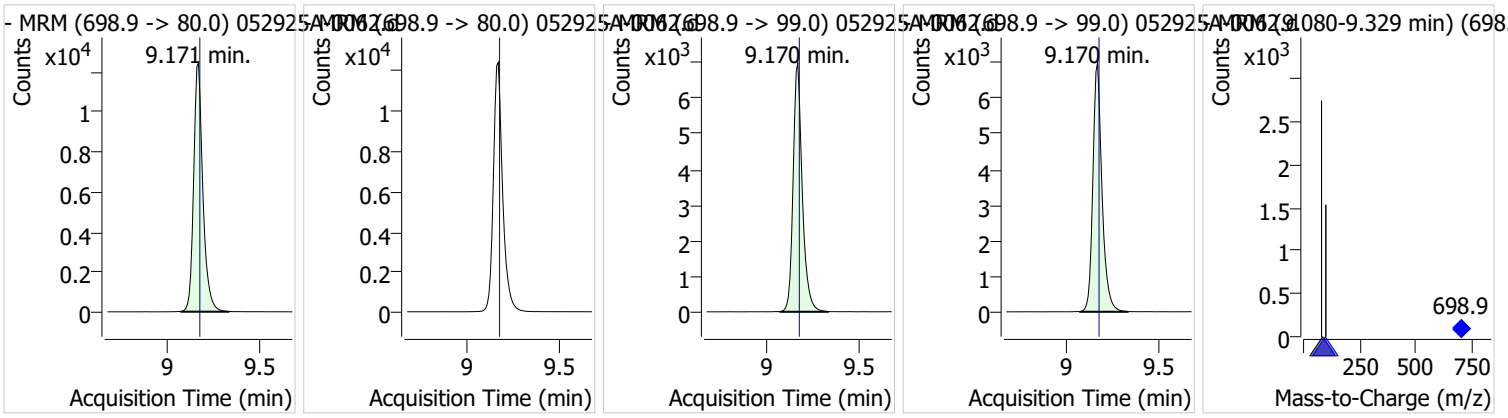
13C5-PFNA_ISTD



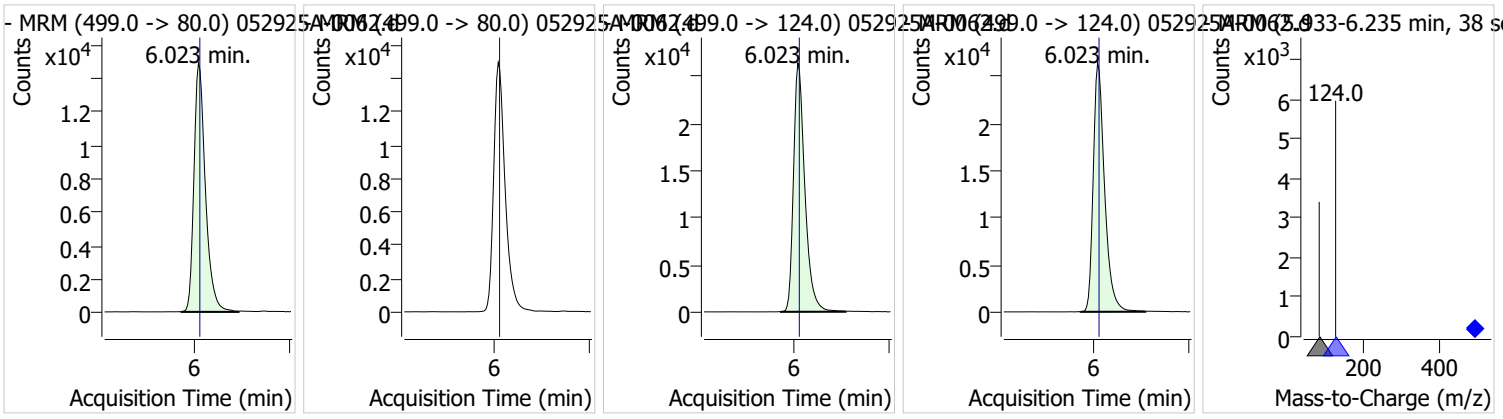
18O2-PFHxS_ISTD



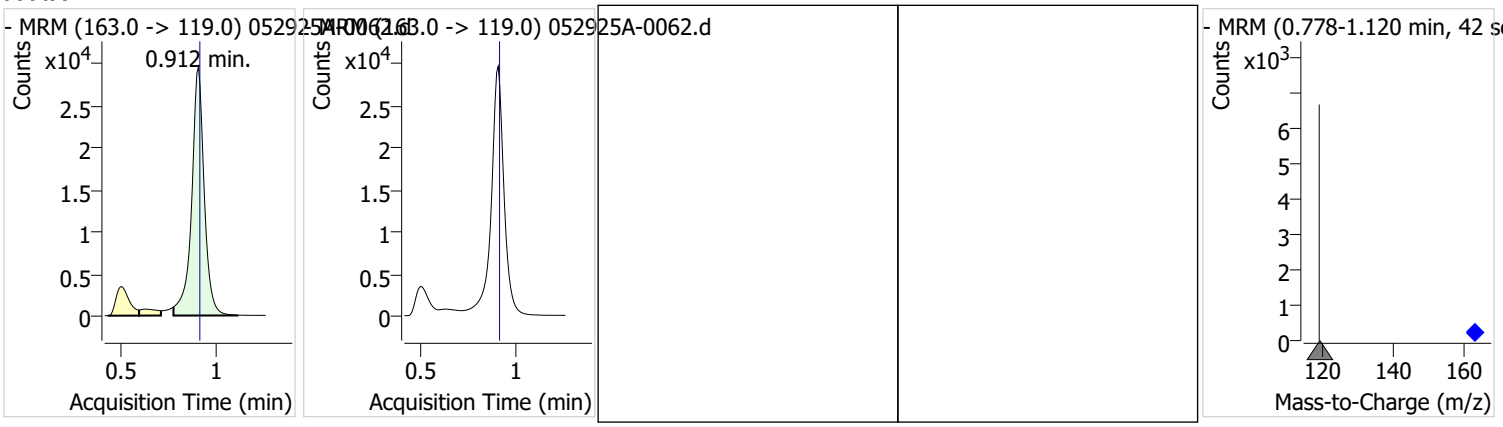
PFDoS



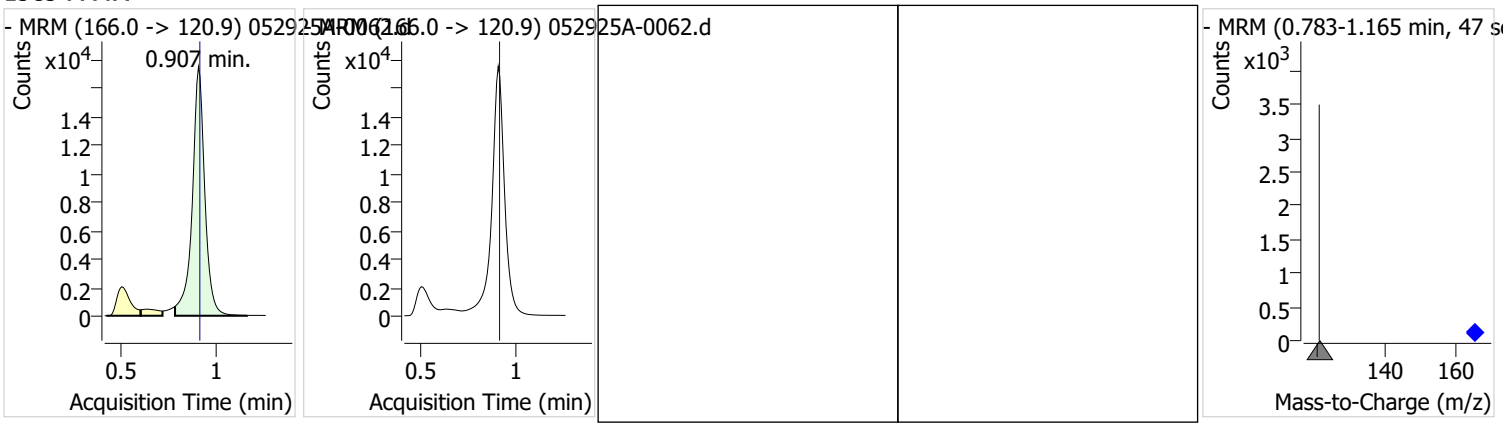
TDCA



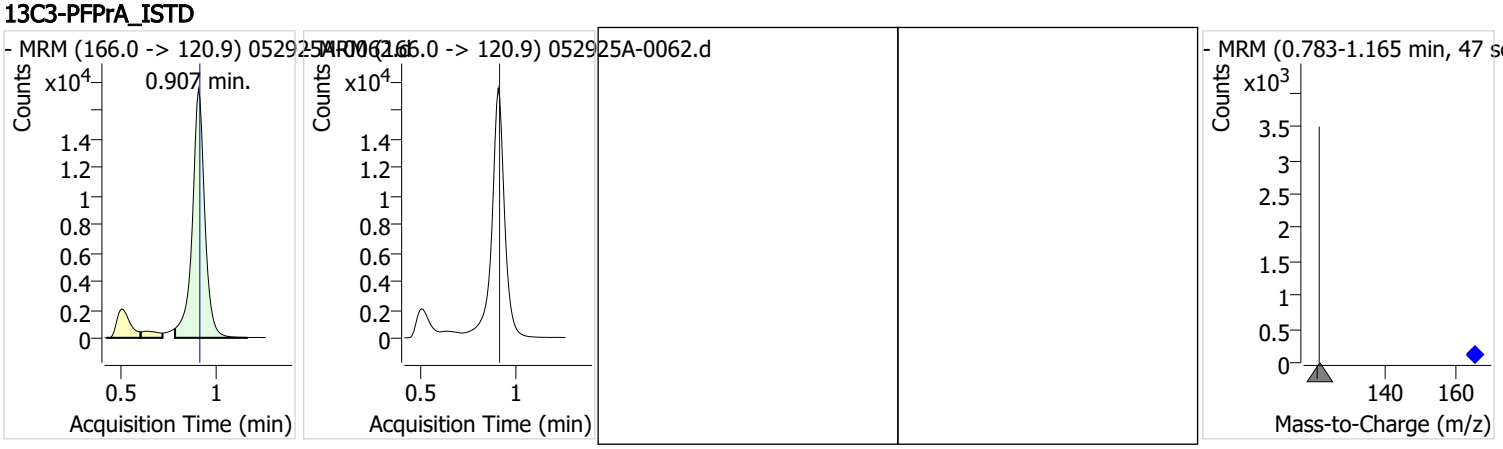
PFPrA



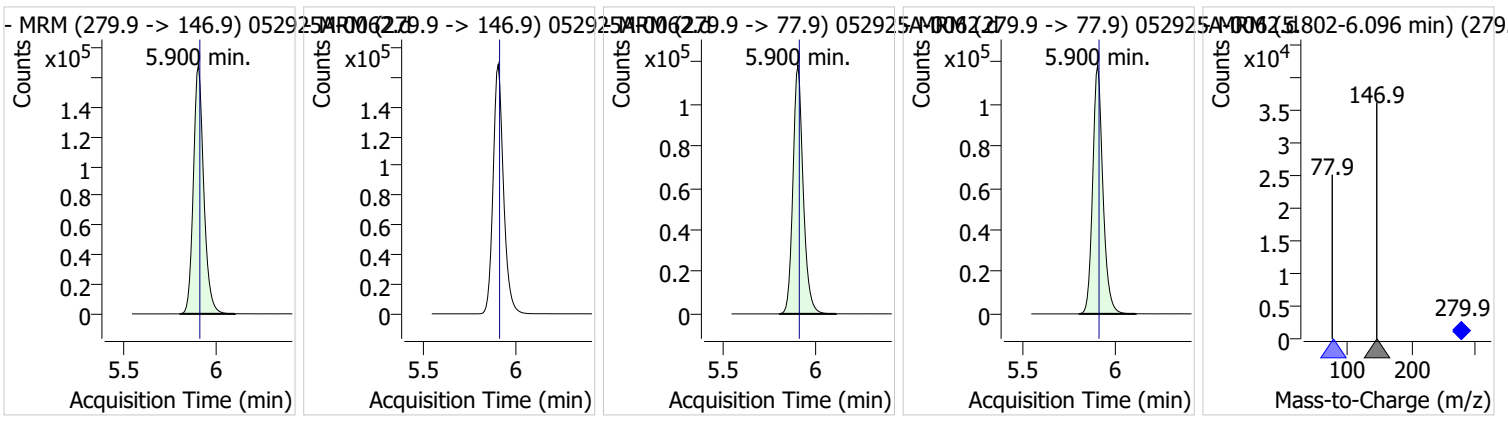
13C3-PFPrA



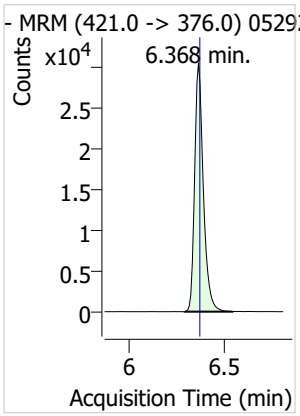
13C3-PFPrA_ISTD

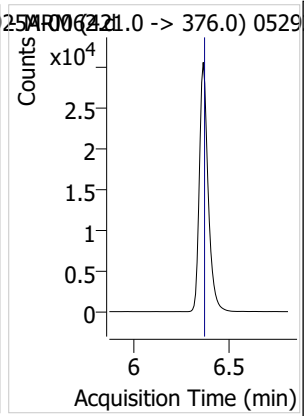


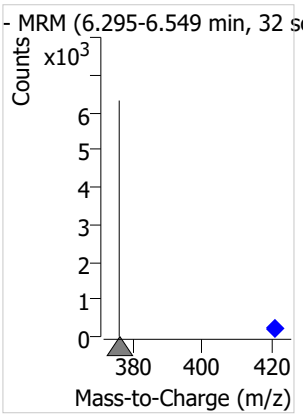
TFSI



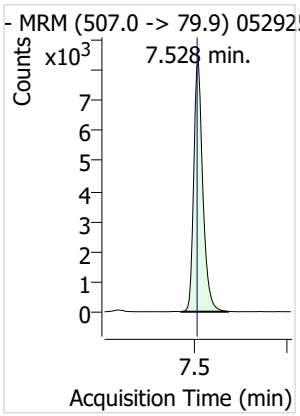
13C8-PFOA

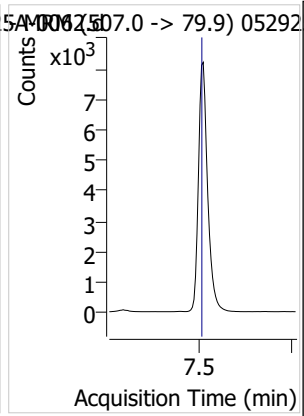


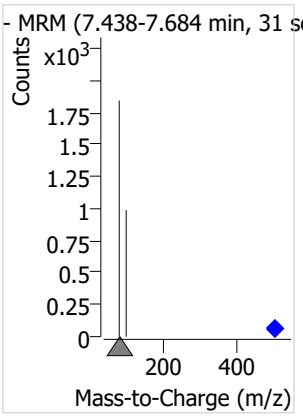




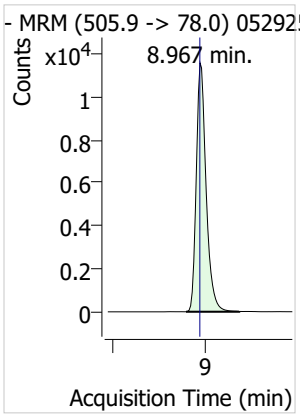
13C8-PFOS

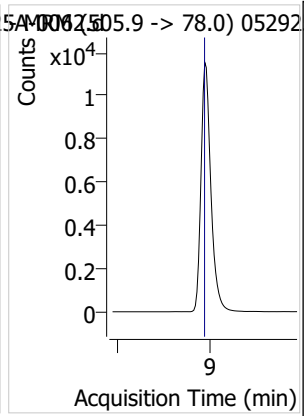


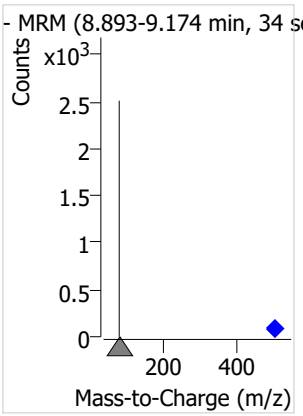




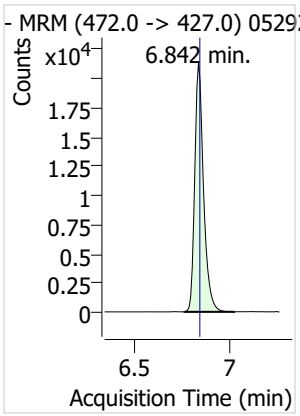
13C8-PFOSA

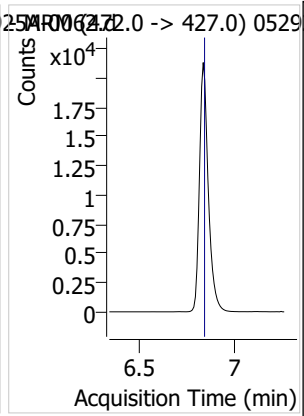


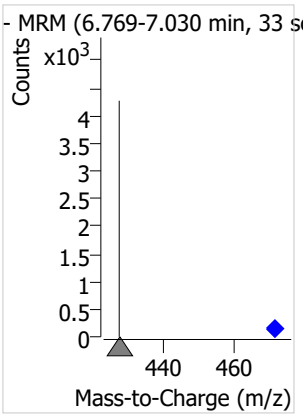




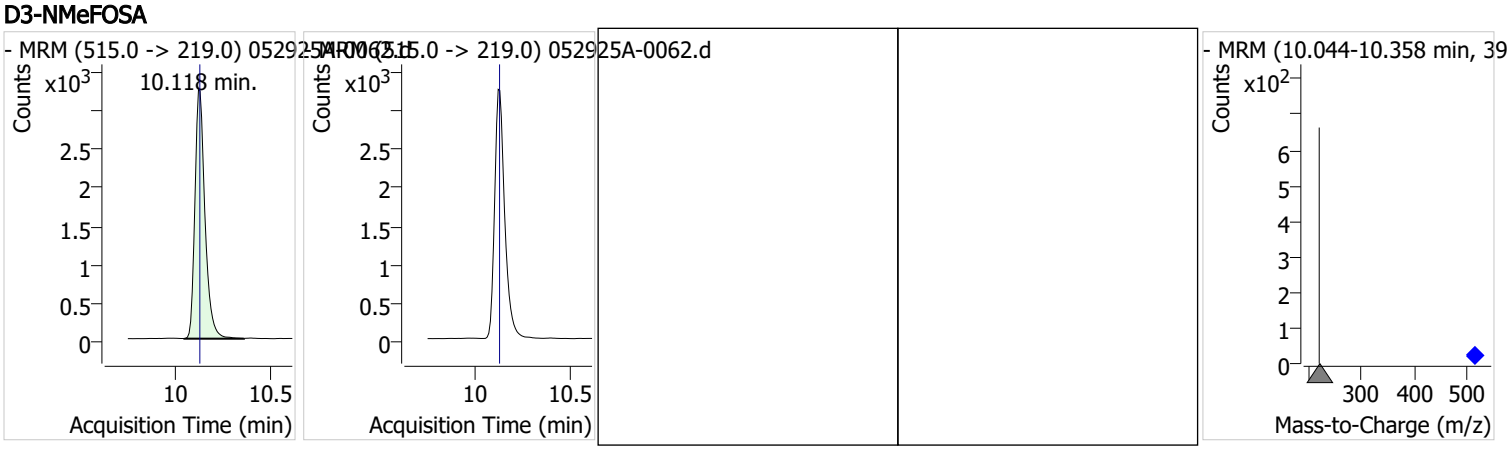
13C9-PFNA



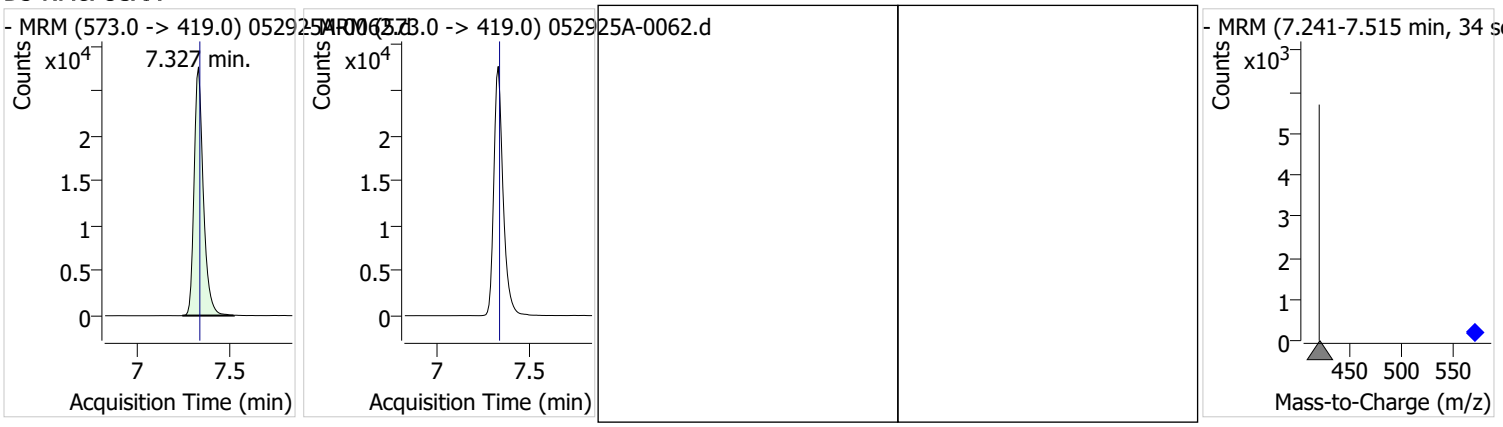




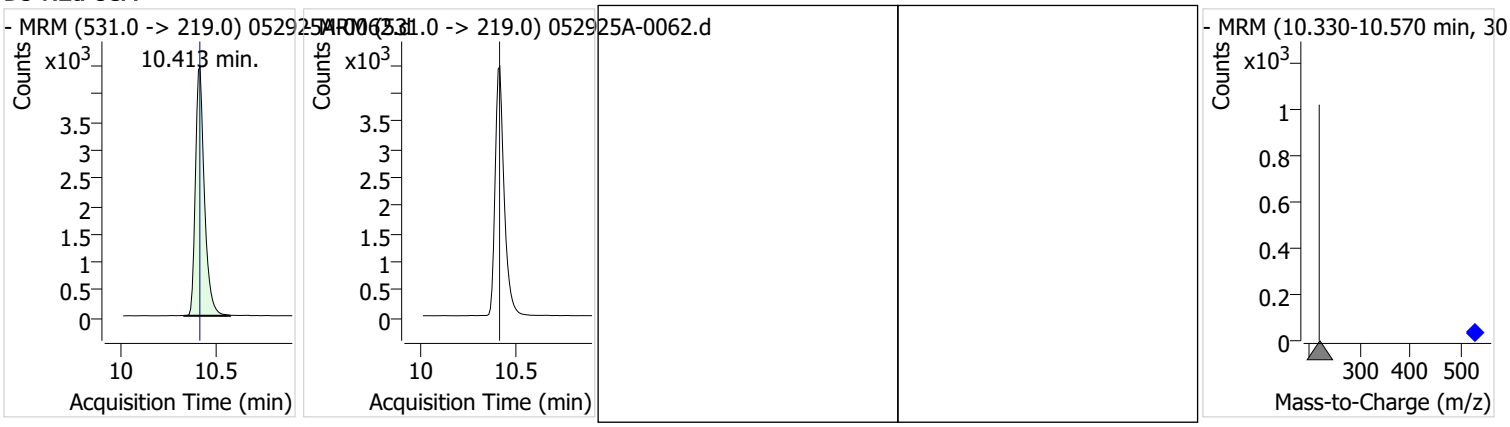
D3-NMeFOSA



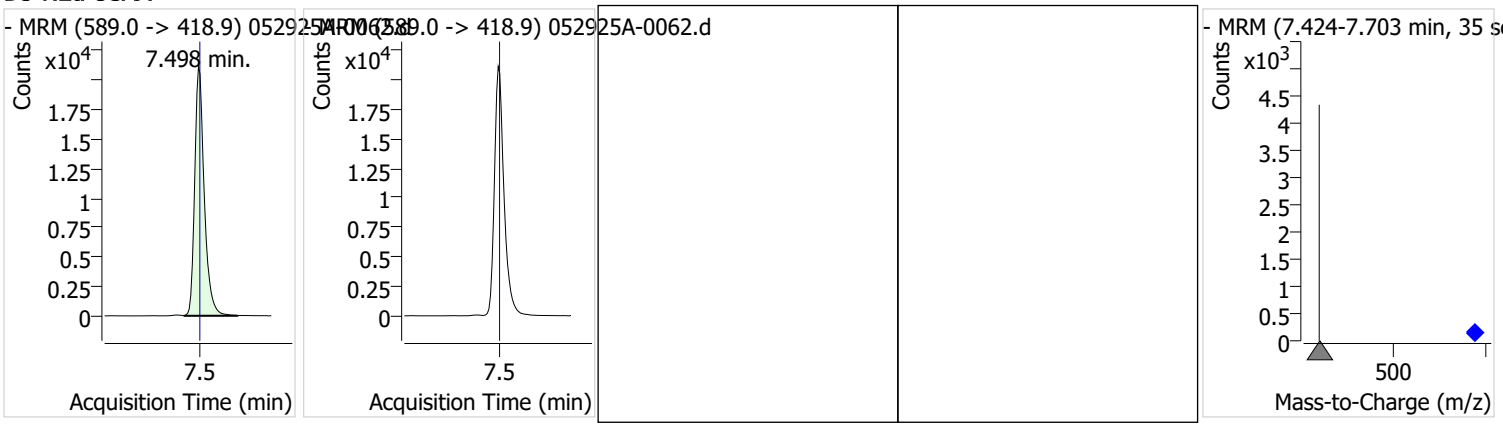
D3-NMeFOSAA



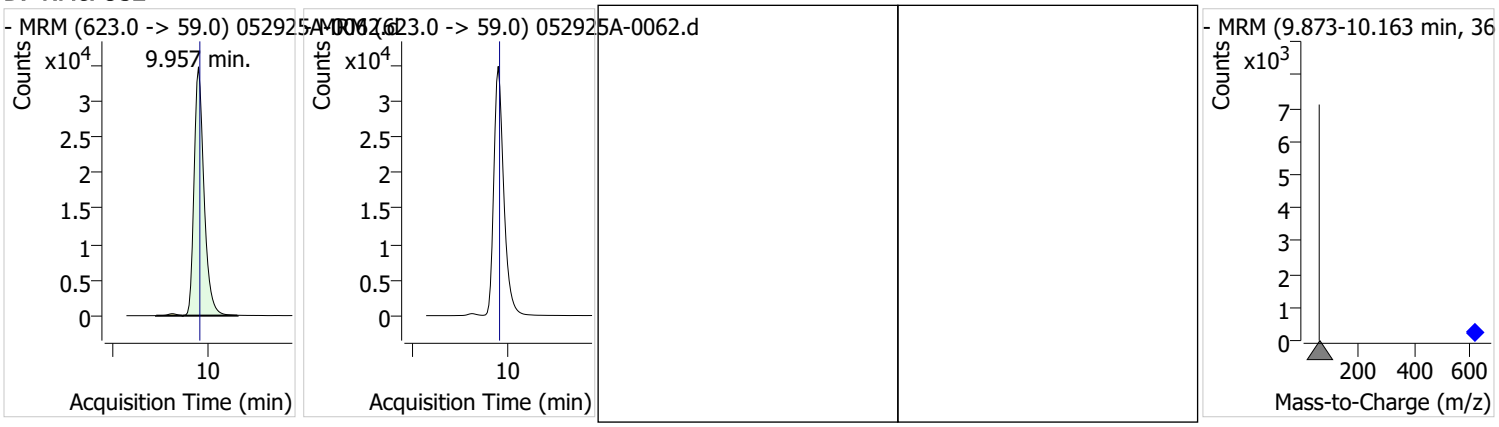
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



D9-NEtFOSE



SAMPLE NO.

BLANK

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received:
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 5253128
Date Analyzed: 05/29/2025 19:21
Lab File ID:
Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
68259-12-1	PFNS	ND	U
24448-09-7	NMeFOSE	ND	U
1691-99-2	NEtFOSE	ND	U
2706-90-3	PFPeA	ND	U
375-92-8	PFHpS	ND	U
335-77-3	PFDS	ND	U
4151-50-2	NEtFOSA	ND	U
27619-97-2	6:2 FTS	ND	U
2706-91-4	PFPeS	ND	U
31506-32-8	NMeFOSA	ND	U
757124-72-4	4:2 FTS	ND	U
754-91-6	PFOSA	ND	U

SAMPLE NO.

BLANK

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received:
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 5253128
Date Analyzed: 05/29/2025 19:21
Lab File ID:
Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
39108-34-4	8:2 FTS	ND	U
79780-39-5	PFDoS	ND	U
375-22-4	PFBA	ND	U

SAMPLE NO.

LCS

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received:
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 5253129
Date Analyzed: 05/29/2025 19:35
Lab File ID:
Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	65.3	
356-02-5	3:3 FTCA	78.6	
914637-49-3	5:3 FTCA	395	
812-70-4	7:3 FTCA	408	
756426-58-1	9Cl-PF3ONS	69.7	
919005-14-4	ADONA	65.2	
13252-13-6	HFPO-DA	72.0	
2991-50-6	NEtFOSAA	16.7	
151772-58-6	NFDHA	34.7	
2355-31-9	NMeFOSAA	16.4	
375-73-5	PFBS	16.0	
335-76-2	PFDA	18.5	
307-24-4	PFHxA	17.1	
113507-82-7	PFEESA	31.4	
863090-89-5	PFMBA	35.7	
377-73-1	PFMPA	34.3	
307-55-1	PFDoA	18.6	
375-85-9	PFHpA	17.5	
355-46-4	PFHxS	15.7	
375-95-1	PFNA	17.4	
1763-23-1	PFOS	15.4	
335-67-1	PFOA	17.3	
376-06-7	PFTeDA	18.4	
72629-94-8	PFTrDA	17.2	
2058-94-8	PFUnA	16.6	
24448-09-7	NMeFOSE	172	
31506-32-8	NMeFOSA	17.6	
39108-34-4	8:2 FTS	70.3	
375-22-4	PFBA	71.0	
68259-12-1	PFNS	16.3	
1691-99-2	NEtFOSE	168	
2706-90-3	PFPeA	35.1	
27619-97-2	6:2 FTS	69.7	
757124-72-4	4:2 FTS	72.0	
335-77-3	PFDS	16.1	
79780-39-5	PFDoS	16.8	
2706-91-4	PFPeS	15.9	

SAMPLE NO.

LCS

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received:
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 5253129
Date Analyzed: 05/29/2025 19:35
Lab File ID:
Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
375-92-8	PFHpS	17.1	
4151-50-2	NEtFOSA	17.5	
754-91-6	PFOSA	17.1	

SAMPLE NO.

SRM

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received: 05/19/2025 10:00
Matrix: Water SDG No.: 10733872
Date Extracted: 05/27/2025 13:59
Lab Sample ID: 5253130
Date Analyzed: 05/29/2025 19:49
Lab File ID:
Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	10.0	
356-02-5	3:3 FTCA	12.8	
914637-49-3	5:3 FTCA	57.0	
812-70-4	7:3 FTCA	61.3	
756426-58-1	9Cl-PF3ONS	10.3	
919005-14-4	ADONA	10.1	
13252-13-6	HFPO-DA	11.5	
2991-50-6	NEtFOSAA	2.6	
151772-58-6	NFDHA	5.6	
2355-31-9	NMeFOSAA	2.5	
375-73-5	PFBS	2.2	
335-76-2	PFDA	2.9	
307-24-4	PFHxA	2.5	
113507-82-7	PFEESA	4.7	
863090-89-5	PFMBA	5.0	
377-73-1	PFMPA	5.1	
307-55-1	PFDoA	2.7	
375-85-9	PFHpA	2.6	
355-46-4	PFHxS	2.6	
375-95-1	PFNA	2.5	
1763-23-1	PFOS	2.6	
335-67-1	PFOA	2.7	
376-06-7	PFTeDA	2.6	
72629-94-8	PFTrDA	2.4	
2058-94-8	PFUnA	2.4	
31506-32-8	NMeFOSA	2.6	
375-22-4	PFBA	10.4	
68259-12-1	PFNS	2.4	
754-91-6	PFOSA	2.7	
24448-09-7	NMeFOSE	26.0	
2706-90-3	PFPeA	5.2	
39108-34-4	8:2 FTS	10.4	
27619-97-2	6:2 FTS	9.7	
2706-91-4	PFPeS	2.4	
79780-39-5	PFDoS	2.6	
757124-72-4	4:2 FTS	10.1	
4151-50-2	NEtFOSA	2.7	

SAMPLE NO.

SRM

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota Contract: L1856433 WG2510324

Date Received: 05/19/2025 10:00 Matrix: Water SDG No.: 10733872

Date Extracted: 05/27/2025 13:59 Lab Sample ID: 5253130

Date Analyzed: 05/29/2025 19:49 Lab File ID:

Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1 Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
335-77-3	PFDS	2.5	
1691-99-2	NEtFOSE	25.1	
375-92-8	PFHpS	2.3	

SAMPLE NO.

BLANK

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received:
Matrix: Water SDG No.: 10733872
Date Extracted: 05/28/2025 06:49
Lab Sample ID: 5261023
Date Analyzed: 05/29/2025 12:59
Lab File ID:
Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	ND	U
356-02-5	3:3 FTCA	ND	U
914637-49-3	5:3 FTCA	ND	U
812-70-4	7:3 FTCA	ND	U
756426-58-1	9Cl-PF3ONS	ND	U
919005-14-4	ADONA	ND	U
13252-13-6	HFPO-DA	ND	U
2991-50-6	NEtFOSAA	ND	U
151772-58-6	NFDHA	ND	U
2355-31-9	NMeFOSAA	ND	U
375-73-5	PFBS	ND	U
335-76-2	PFDA	ND	U
307-24-4	PFHxA	ND	U
113507-82-7	PFEESA	ND	U
863090-89-5	PFMBA	ND	U
377-73-1	PFMPA	ND	U
307-55-1	PFDoA	ND	U
375-85-9	PFHpA	ND	U
355-46-4	PFHxS	ND	U
375-95-1	PFNA	ND	U
1763-23-1	PFOS	ND	U
335-67-1	PFOA	ND	U
376-06-7	PFTeDA	ND	U
72629-94-8	PFTrDA	ND	U
2058-94-8	PFUnA	ND	U
2706-90-3	PFPeA	ND	U
757124-72-4	4:2 FTS	ND	U
2706-91-4	PFPeS	ND	U
754-91-6	PFOSA	ND	U
335-77-3	PFDS	ND	U
375-92-8	PFHpS	ND	U
375-22-4	PFBA	ND	U
24448-09-7	NMeFOSE	ND	U
4151-50-2	NEtFOSA	ND	U
68259-12-1	PFNS	ND	U
27619-97-2	6:2 FTS	ND	U
31506-32-8	NMeFOSA	ND	U

SAMPLE NO.

BLANK

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received:
Matrix: Water SDG No.: 10733872
Date Extracted: 05/28/2025 06:49
Lab Sample ID: 5261023
Date Analyzed: 05/29/2025 12:59
Lab File ID:
Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
79780-39-5	PFDoS	ND	U
1691-99-2	NEtFOSE	ND	U
39108-34-4	8:2 FTS	ND	U

SAMPLE NO.

LCS

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received:
Matrix: Water SDG No.: 10733872
Date Extracted: 05/28/2025 06:49
Lab Sample ID: 5261024
Date Analyzed: 05/29/2025 13:13
Lab File ID:
Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	68.0	
356-02-5	3:3 FTCA	79.1	
914637-49-3	5:3 FTCA	404	
812-70-4	7:3 FTCA	401	
756426-58-1	9Cl-PF3ONS	71.0	
919005-14-4	ADONA	71.7	
13252-13-6	HFPO-DA	71.9	
2991-50-6	NEtFOSAA	16.9	
151772-58-6	NFDHA	36.3	
2355-31-9	NMeFOSAA	16.6	
375-73-5	PFBS	16.3	
335-76-2	PFDA	17.6	
307-24-4	PFHxA	17.5	
113507-82-7	PFEESA	32.3	
863090-89-5	PFMBA	36.6	
377-73-1	PFMPA	35.2	
307-55-1	PFDoA	18.6	
375-85-9	PFHpA	18.3	
355-46-4	PFHxS	16.1	
375-95-1	PFNA	17.4	
1763-23-1	PFOS	15.5	
335-67-1	PFOA	17.8	
376-06-7	PFTeDA	18.3	
72629-94-8	PFTrDA	16.6	
2058-94-8	PFUnA	16.9	
68259-12-1	PFNS	16.5	
375-22-4	PFBA	73.0	
1691-99-2	NEtFOSE	177	
757124-72-4	4:2 FTS	72.3	
754-91-6	PFOSA	17.5	
31506-32-8	NMeFOSA	18.1	
2706-90-3	PFPeA	36.6	
2706-91-4	PFPeS	16.3	
4151-50-2	NEtFOSA	16.5	
39108-34-4	8:2 FTS	73.8	
79780-39-5	PFDoS	16.5	
335-77-3	PFDS	16.0	

SAMPLE NO.

LCS

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota
Contract: L1856433 WG2510324
Date Received:
Matrix: Water SDG No.: 10733872
Date Extracted: 05/28/2025 06:49
Lab Sample ID: 5261024
Date Analyzed: 05/29/2025 13:13
Lab File ID:
Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1
Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
375-92-8	PFHpS	17.1	
24448-09-7	NMeFOSE	180	
27619-97-2	6:2 FTS	73.0	

SAMPLE NO.

SRM

FORM I PFAS-1

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota Contract: L1856433 WG2510324

Date Received: 05/27/2025 08:14 Matrix: Water SDG No.: 10733872

Date Extracted: 05/28/2025 06:49 Lab Sample ID: 5261025

Date Analyzed: 05/29/2025 13:27 Lab File ID:

Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1 Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
763051-92-9	11Cl-PF3OUdS	11.2	
356-02-5	3:3 FTCA	12.0	
914637-49-3	5:3 FTCA	63.7	
812-70-4	7:3 FTCA	62.3	
756426-58-1	9Cl-PF3ONS	11.8	
919005-14-4	ADONA	10.8	
13252-13-6	HFPO-DA	11.6	
2991-50-6	NEtFOSAA	2.5	
151772-58-6	NFDHA	5.8	
2355-31-9	NMeFOSAA	2.9	
375-73-5	PFBS	2.6	
335-76-2	PFDA	2.8	
307-24-4	PFHxA	2.9	
113507-82-7	PFEESA	5.2	
863090-89-5	PFMBA	5.5	
377-73-1	PFMPA	5.6	
307-55-1	PFDoA	3.0	
375-85-9	PFHpA	2.9	
355-46-4	PFHxS	2.7	
375-95-1	PFNA	2.7	
1763-23-1	PFOS	2.7	
335-67-1	PFOA	2.7	
376-06-7	PFTeDA	2.9	
72629-94-8	PFTrDA	2.7	
2058-94-8	PFUnA	2.6	
31506-32-8	NMeFOSA	2.9	
68259-12-1	PFNS	2.6	
27619-97-2	6:2 FTS	11.3	
24448-09-7	NMeFOSE	27.0	
375-22-4	PFBA	11.1	
335-77-3	PFDS	2.6	
757124-72-4	4:2 FTS	10.8	
39108-34-4	8:2 FTS	10.7	
754-91-6	PFOSA	2.8	
2706-91-4	PFPeS	2.5	
1691-99-2	NEtFOSE	27.0	
375-92-8	PFHpS	2.6	

SAMPLE NO.

SRM

FORM I PFAS-2

PFAS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Minnesota Contract: L1856433 WG2510324

Date Received: 05/27/2025 08:14 Matrix: Water SDG No.: 10733872

Date Extracted: 05/28/2025 06:49 Lab Sample ID: 5261025

Date Analyzed: 05/29/2025 13:27 Lab File ID:

Initial wt/vol: 500 mL Final wt/vol: 4 mL Dilution: 1 Instrument: 10PFA2 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ng/L	Q
2706-90-3	PFPeA	5.6	
4151-50-2	NEtFOSA	2.9	
79780-39-5	PFDoS	2.8	

Prep Log Report

Batch Information: 6251, 1633W, 1007578

1633 | PFAS Compound Extraction

Prep Method	EPA 1633	Analysis Method	EPA 1633	Prepared By	BLH	Weighed By	BLH
Extracted Date/Time	05/27/2025 13:59:35:501	Extraction End Date/Time	05/27/2025 16:31:44:285	Instrument	10BL09	Spiked By Date/Time	05/27/2025 13:11:13:545
pH Test Strips	492196	Water, Type I	488110	Methanol	504093	Carbon	509206
Manifold Liner	506830	SPE Cartridge	509853	Glass Wool	489280	NH4OH / MeOH Soln	509781
0.3M Formic Acid	509690	MeOH / Formic Acid Soln	509691	Elution Tubes	506846	Glacial Acetic Acid	494875
Auto-Sampler Vessels	500595	ASV Caps	506141	Bottle Lot #	L507902BB, 20240725-060-A, M405903BB, N505103BB	Disp. Syringe Lot #	N/A
Dispenser ID 1	Q561	Dispenser ID 2	Q884	Pipette ID 1	Q755	Pipette ID 2	Q989
Pipette ID 3	Q523	Pipet Tip Lot #	496382, 504637	NIS	509808	Reviewed By	SMK
Reviewed By Date	05/28/2025 07:40	Batch Notes	10BALX used for #20-23				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Spiked By	Spike Verified By	Surrogate By	Surrogate Verified By	Container + Sample Wt (g)	Container Wt (g)	Initial Amount (g | mL | wipe)	Initial pH	pH Adjusted	Adjusted pH (su)
1633F WP	BLANK	**5253128**	Y	Water			CJM1	SMK			500	7	No	N/A
1633F WP	LCS	**5253129**	Y	Water	CJM1	SMK	CJM1	SMK			500	7	No	N/A
1633F WP	SRM	**5253130**	Y	Water	CJM1	SMK	CJM1	SMK			500	7	No	N/A
1633F WP	PS	**10732440002**	Y	Water	CJM1	SMK	CJM1	SMK			500	7	No	N/A
1633F WP	PS	**10732440004**	Y	Water	CJM1	SMK	CJM1	SMK			500	7	No	N/A
1633F WP	PS	**10732440006**	Y	Water	CJM1	SMK	CJM1	SMK			500	7	No	N/A
1633F WP	PS	**10732440008**	Y	Water	CJM1	SMK	CJM1	SMK			500	7	No	N/A
1633F WP	PS	**10733872001**	Y	Water			CJM1	SMK	147.934	22.2643	125.7	7	No	N/A
1633F WP	PS	**10733872002**	Y	Water			CJM1	SMK	565.048	42.2855	522.8	7	No	N/A
1633F WP	PS	**10733872003**	Y	Water			CJM1	SMK	585.969	43.2933	542.7	7	No	N/A
1633F WP	PS	**10733872004**	Y	Water			CJM1	SMK	588.986	41.8948	547.1	7	No	N/A
1633F WP	PS	**10733872005**	Y	Water			CJM1	SMK	573.337	42.7371	530.6	7	No	N/A
1633F WP	PS	**10733872006**	Y	Water			CJM1	SMK	575.617	42.5007	533.1	7	No	N/A
1633F WP	PS	**10733872007**	Y	Water			CJM1	SMK	291.004	31.4023	259.6	7	No	N/A
1633F WP	PS	**10733872008**	Y	Water			CJM1	SMK	579.129	42.7244	536.4	7	No	N/A
1633F WP	PS	**10733872009**	Y	Water			CJM1	SMK	155.511	22.1486	133.4	7	No	N/A

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Spiked By	Spike Verified By	Surrogate By	Surrogate Verified By	Container + Sample Wt (g)	Container Wt (g)	Initial Amount (g | mL | wipe)	Initial pH	pH Adjusted	Adjusted pH (su)
1633F WP	PS	**10733872010**	Y	Water			CJM1	SMK	558.602	43.2881	515.3	7	No	N/A
1633F WP	PS	**10734440006**	Y	Water			CJM1	SMK	253.159	145.8457	107.3	7	No	N/A
1633F WP	PS	**10734440007**	Y	Water			CJM1	SMK	252.964	144.7692	108.2	7	No	N/A
1633F WP	PS	**10734440005**	Y	Water			CJM1	SMK			0.0225	7	No	N/A
1633F WP	PS	**10734440001**	Y	Water			CJM1	SMK			0.027	7	No	N/A
1633F WP	PS	**10734440008**	Y	Water			CJM1	SMK			0.0221	7	No	N/A
1633F WP	PS	**10734440009**	Y	Water			CJM1	SMK			0.035	7	No	N/A

QC Rule	Sample Type	Lab Sample ID	Final Volume (mL)	Centrifuge ID	Solid Phase Extractor ID	Solid Phase Extractor ID 2	Internal Standard By	Internal Standard Verified By	Sample Notes	1633-LLPDS (uL)	1633-PDS (uL)	1633-SS (uL)
1633F WP	BLANK	**5253128**	4	N/A	10HR82	10HR69	CJM1	NSR				509807 (40)
1633F WP	LCS	**5253129**	4	N/A	10HR82	10HR69	CJM1	NSR			509107 (80)	509807 (40)
1633F WP	SRM	**5253130**	4	N/A	10HR82	10HR69	CJM1	NSR		509108 (128)		509807 (40)
1633F WP	PS	**10732440002**	4	N/A	10HR82	10HR69	CJM1	NSR	MDL			509807 (40)
1633F WP	PS	**10732440004**	4	N/A	10HR82	10HR69	CJM1	NSR	MDL			509807 (40)
1633F WP	PS	**10732440006**	4	N/A	10HR82	10HR69	CJM1	NSR	MDL			509807 (40)
1633F WP	PS	**10732440008**	4	N/A	10HR82	10HR69	CJM1	NSR	MDL			509807 (40)
1633F WP	PS	**10733872001**	4	N/A	10HR82	10HR69	CJM1	NSR	2*			509807 (40)
1633F WP	PS	**10733872002**	4	N/A	10HR82	10HR69	CJM1	NSR				509807 (40)
1633F WP	PS	**10733872003**	4	N/A	10HR82	10HR69	CJM1	NSR				509807 (40)
1633F WP	PS	**10733872004**	4	N/A	10HR82	10HR69	CJM1	NSR				509807 (40)
1633F WP	PS	**10733872005**	4	N/A	10HR82	10HR69	CJM1	NSR				509807 (40)
1633F WP	PS	**10733872006**	4	N/A	10HR83	10HR69	CJM1	NSR				509807 (40)
1633F WP	PS	**10733872007**	4	N/A	10HR83	10HR69	CJM1	NSR	3*			509807 (40)
1633F WP	PS	**10733872008**	4	N/A	10HR83	10HR69	CJM1	NSR				509807 (40)

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Final Volume (mL)	Centrifuge ID	Solid Phase Extractor ID	Solid Phase Extractor ID 2	Internal Standard By	Internal Standard Verified By	Sample Notes	1633-LLPDS (uL)	1633-PDS (uL)	1633-SS (uL)
1633F WP	PS	**10733872009**	4	N/A	10HR83	10HR69	CJM1	NSR	1*			509807 (40)
1633F WP	PS	**10733872010**	4	N/A	10HR83	10HR69	CJM1	NSR				509807 (40)
1633F WP	PS	**10734440006**	4	N/A	10HR83	10HR69	CJM1	NSR	4*			509807 (40)
1633F WP	PS	**10734440007**	4	N/A	10HR83	10HR69	CJM1	NSR	4*			509807 (40)
1633F WP	PS	**10734440005**	4	N/A	10HR83	10HR69	CJM1	NSR	5*			509807 (40)
1633F WP	PS	**10734440001**	4	N/A	10HR83	10HR69	CJM1	NSR	5*			509807 (40)
1633F WP	PS	**10734440008**	4	N/A	10HR83	10HR69	CJM1	NSR	5*			509807 (40)
1633F WP	PS	**10734440009**	4	N/A	10HR83	10HR69	CJM1	NSR	5*			509807 (40)

Sample Notes:

1*: 100- color, floating particles, opacity

2*: 100- floating particles

3*: 250- floating particles

4*: received in small glass container

5*: ~0.02g - gel

Standard Notes:

509107: 1633F PDS P4-051425A

509108: 1633F PDS 10X P4-051425A

509807: 1633F EIS Mix. HIF-ES 24280-137,

Prep Log Report

Batch Information: 6320, 1633FWP, 1008996

1633 | PFAS Compound Extraction

Prep Method	EPA 1633	Analysis Method	EPA 1633	Prepared By	JBJ	Weighed By	JBJ
Extracted Date/Time	05/28/2025 06:49:27:201	Extraction End Date/Time	05/28/2025 10:44:35:376	Instrument	10BL09	Spiked By Date/Time	05/28/2025 06:33:45:999
pH Test Strips	492196	Water, Type I	488110	Methanol	504093	Carbon	509206
Manifold Liner	506830	SPE Cartridge	509853	Glass Wool	489280	NH4OH / MeOH Soln	509781
0.3M Formic Acid	509690	MeOH / Formic Acid Soln	509691	Elution Tubes	506846	Glacial Acetic Acid	494875
Auto-Sampler Vessels	500595	ASV Caps	506141	Bottle Lot #	L507902BB, M405903BB, N505103BB	Disp. Syringe Lot #	
Dispenser ID 1	Q884	Dispenser ID 2	Q561	Pipette ID 1	Q755	Pipette ID 2	Q1019
Pipette ID 3		Pipet Tip Lot #	496382. 504637	NIS	509808	Reviewed By	SMK
Reviewed By Date	05/29/2025 08:52	Batch Notes					

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Spiked By	Spike Verified By	Surrogate By	Surrogate Verified By	Container + Sample Wt (g)	Container Wt (g)	Initial Amount (g | mL | wipe)	Initial pH	pH Adjusted	Adjusted pH (su)
1633F WP	BLANK	**5261023**	Y	Water			TL	GMD			500	7	No	N/A
1633F WP	LCS	**5261024**	Y	Water	TL	GMD	TL	GMD			500	7	No	N/A
1633F WP	SRM	**5261025**	Y	Water	TL	GMD	TL	GMD			500	7	No	N/A
1633F WP	PS	**40294880024**	Y	Water			TL	GMD	548.044	42.7	505.3	7	No	N/A
1633F WP	PS	**40294880025**	Y	Water			TL	GMD	532.707	42.596	490.1	7	No	N/A
1633F WP	PS	**10734055001**	Y	Water			TL	GMD	148.704	22.228	126.5	7	No	N/A
1633F WP	PS	**10733932001**	Y	Water			TL	GMD	550.182	41.986	508.2	7	No	N/A
1633F WP	PS	**10733932002**	Y	Water			TL	GMD	512.363	42.063	470.3	7	No	N/A
1633F WP	PS	**10733932003**	Y	Water			TL	GMD	549.467	42	507.5	7	No	N/A
1633F WP	PS	**10733932004**	Y	Water			TL	GMD	530.687	42.105	488.6	7	No	N/A
1633F WP	PS	**10733932005**	Y	Water			TL	GMD	524.978	42.544	482.4	7	No	N/A
1633F WP	PS	**10733932006**	Y	Water			TL	GMD	542.152	42.531	499.6	7	No	N/A
1633F WP	PS	**10733872011**	Y	Water			TL	GMD	550.148	42.891	507.3	7	No	N/A
1633F WP	PS	**10733950001**	Y	Water			TL	GMD	535.408	41.658	493.8	7	No	N/A
1633F WP	PS	**10733950002**	Y	Water			TL	GMD	283.038	31.126	251.9	7	No	N/A
1633F WP	PS	**10733950003**	Y	Water			TL	GMD	545.042	41.607	503.4	7	No	N/A

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	Matrix	Spiked By	Spike Verified By	Surrogate By	Surrogate Verified By	Container + Sample Wt (g)	Container Wt (g)	Initial Amount (g | mL | wipe)	Initial pH	pH Adjusted	Adjusted pH (su)
1633F WP	PS	**10733950004**	Y	Water			TL	GMD	541.957	41.712	500.2	7	No	N/A
1633F WP	PS	**10733950005**	Y	Water			TL	GMD	539.756	41.703	498.1	7	No	N/A
1633F WP	PS	**10733999001**	Y	Water			TL	GMD	520.528	42.434	478.1	7	No	N/A
1633F WP	PS	**10733972001**	Y	Water			TL	GMD	541.876	42.655	499.2	7	No	N/A
1633F WP	PS	**10733972002**	Y	Water			TL	GMD	518.197	42.012	476.2	7	No	N/A
1633F WP	PS	**10733972003**	Y	Water			TL	GMD			0.1	8.5	Yes	7
1633F WP	PS	**10733972004**	Y	Water			TL	GMD			0.1	10	Yes	7

QC Rule	Sample Type	Lab Sample ID	Final Volume (mL)	Centrifuge ID	Solid Phase Extractor ID	Solid Phase Extractor ID 2	Internal Standard By	Internal Standard Verified By	Sample Notes	1633-LLPDS (uL)	1633-PDS (uL)	1633-SS (uL)
1633F WP	BLANK	**5261023**	4	N/A	10HR96	10HR67	TL	CJL				509807 (40)
1633F WP	LCS	**5261024**	4	N/A	10HR96	10HR67	TL	CJL			509107 (80)	509807 (40)
1633F WP	SRM	**5261025**	4	N/A	10HR96	10HR67	TL	CJL		509108 (128)		509807 (40)
1633F WP	PS	**40294880024**	4	N/A	10HR96	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**40294880025**	4	N/A	10HR96	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10734055001**	4	N/A	10HR96	10HR67	TL	CJL	2*			509807 (40)
1633F WP	PS	**10733932001**	4	N/A	10HR96	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733932002**	4	N/A	10HR96	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733932003**	4	N/A	10HR96	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733932004**	4	N/A	10HR96	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733932005**	4	N/A	10HR96	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733932006**	4	N/A	10HR96	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733872011**	4	N/A	10HR97	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733950001**	4	N/A	10HR97	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733950002**	4	N/A	10HR97	10HR67	TL	CJL	3*			509807 (40)

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Final Volume (mL)	Centrifuge ID	Solid Phase Extractor ID	Solid Phase Extractor ID 2	Internal Standard By	Internal Standard Verified By	Sample Notes	1633-LLPDS (uL)	1633-PDS (uL)	1633-SS (uL)
1633F WP	PS	**10733950003**	4	N/A	10HR97	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733950004**	4	N/A	10HR97	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733950005**	4	N/A	10HR97	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733999001**	4	N/A	10HR97	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733972001**	4	N/A	10HR97	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733972002**	4	N/A	10HR97	10HR67	TL	CJL				509807 (40)
1633F WP	PS	**10733972003**	4	N/A	10HR97	10HR67	TL	CJL	1*			509807 (40)
1633F WP	PS	**10733972004**	4	N/A	10HR97	10HR67	TL	CJL	1*			509807 (40)

Sample Notes:

1*: 0.1g - AFFF foam -- brought up 60mL (pH adjusted by dilution)

2*: 125mL - color, opacity, particles

3*: 250mL - color, opacity, particles

Standard Notes:

509107: 1633F PDS P4-051425A

509108: 1633F PDS 10X P4-051425A

509807: 1633F EIS Mix. HIF-ES 24280-137,

LC-QQQ Instrument Run Log

Instrument: 10PFA2
Instrument Batch: 052325A-1633F ICAL.batch.bin
Current ICAL Batch:
ICAL Std (ID/Exp):
ICV Std (ID/Exp):

LIMS Batch (HBN):
20mM NH4OAc (ID/Exp):
Methanol (ID/Exp):
EIS Mix (ID/Exp):
IIS Mix (ID/Exp):

Acquisition time	Data File	Name	Type	Dilution	Comment
05/23/25 10:12:08	052325A-0002.d	PBLK	Blank	1	2MM 25-056-017 ACE 242511
05/23/25 10:26:16	052325A-0003.d	CAL1	Cal	1	510285
05/23/25 10:40:24	052325A-0004.d	CAL2	Cal	1	510286
05/23/25 10:54:33	052325A-0005.d	CAL3	Cal	1	510287
05/23/25 11:08:41	052325A-0006.d	CAL4	Cal	1	510288
05/23/25 11:22:49	052325A-0007.d	CAL5	Cal	1	510289
05/23/25 11:36:57	052325A-0008.d	CAL6	Cal	1	510290
05/23/25 11:51:05	052325A-0009.d	CAL7	Cal	1	510291
05/23/25 12:05:13	052325A-0010.d	CAL8	Cal	1	510292
05/23/25 12:19:21	052325A-0011.d	CAL9	Cal	1	510293
05/23/25 12:33:29	052325A-0012.d	PBLK	Blank	1	6317
05/23/25 12:47:38	052325A-0013.d	ICV	QC	1	510294

LC-QQQ Instrument Run Log

Instrument: 10PFA2
Instrument Batch: 052925A-B 6320.batch.bin
Current ICAL Batch:
ICAL Std (ID/Exp):
ICV Std (ID/Exp):

LIMS Batch (HBN):
20mM NH4OAc (ID/Exp):
Methanol (ID/Exp):
EIS Mix (ID/Exp):
IIS Mix (ID/Exp):

Acquisition time	Data File	Name	Type	Dilution	Comment
05/29/25 12:31:22	052925A-0011.d	CCVB	CC	1	2
05/29/25 12:45:30	052925A-0012.d	PBLK	Blank	1	6317
05/29/25 12:59:38	052925A-0013.d	5261023	Blank	1	6367
05/29/25 13:13:47	052925A-0014.d	5261024	QC	1	6367
05/29/25 13:27:55	052925A-0015.d	5261025	QC	1	6367
05/29/25 13:42:03	052925A-0016.d	40294880024	Sample	1	6367
05/29/25 13:56:11	052925A-0017.d	40294880025	Sample	1	6367
05/29/25 14:10:19	052925A-0018.d	10734055001	Sample	1	6367
05/29/25 14:24:27	052925A-0019.d	10733932001	Sample	1	6367
05/29/25 14:38:35	052925A-0020.d	10733932002	Sample	1	6367
05/29/25 14:52:43	052925A-0021.d	10733932003	Sample	1	6367
05/29/25 15:06:51	052925A-0022.d	10733932004	Sample	1	6367
05/29/25 15:20:59	052925A-0023.d	10733932005	Sample	1	6367
05/29/25 15:35:07	052925A-0024.d	10733932006	Sample	1	6367
05/29/25 15:49:15	052925A-0025.d	10733872011	Sample	1	6367
05/29/25 16:03:23	052925A-0026.d	CCVB	CC	1	510289
05/29/25 16:17:31	052925A-0027.d	PBLK	Sample	1	6317
05/29/25 16:31:39	052925A-0028.d	10733950001	Sample	1	6367
05/29/25 16:45:47	052925A-0029.d	10733950002	Sample	1	6367
05/29/25 16:59:55	052925A-0030.d	10733950003	Sample	1	6367
05/29/25 17:14:03	052925A-0031.d	10733950004	Sample	1	6367
05/29/25 17:28:12	052925A-0032.d	10733950005	Sample	1	6367
05/29/25 17:42:19	052925A-0033.d	10733999001	Sample	1	6367
05/29/25 17:56:27	052925A-0034.d	10733972001	Sample	1	6367
05/29/25 18:10:35	052925A-0035.d	10733972002	Sample	1	6367
05/29/25 18:24:43	052925A-0036.d	10733972003	Sample	1	6367
05/29/25 18:38:51	052925A-0037.d	10733972004	Sample	1	6367
05/29/25 18:52:59	052925A-0038.d	CCVB	CC	1	510289

LC-QQQ Instrument Run Log

Instrument: 10PFA2
Instrument Batch: 052925A-C 6251.batch.bin
Current ICAL Batch:
ICAL Std (ID/Exp):
ICV Std (ID/Exp):

LIMS Batch (HBN):
20mM NH4OAc (ID/Exp):
Methanol (ID/Exp):
EIS Mix (ID/Exp):
IIS Mix (ID/Exp):

Acquisition time	Data File	Name	Type	Dilution	Comment
05/29/25 18:52:59	052925A-0038.d	CCVB	CC	1	2
05/29/25 19:07:07	052925A-0039.d	PBLK	Blank	1	
05/29/25 19:21:15	052925A-0040.d	5253128	Blank	1	6251
05/29/25 19:35:23	052925A-0041.d	5253129	QC	1	6251
05/29/25 19:49:31	052925A-0042.d	5253130	QC	1	6251
05/29/25 20:03:39	052925A-0043.d	10732440002	Sample	1	6251
05/29/25 20:17:47	052925A-0044.d	10733872001	Sample	1	6251
05/29/25 20:31:55	052925A-0045.d	10733872002	Sample	1	6251
05/29/25 20:46:03	052925A-0046.d	10733872003	Sample	1	6251
05/29/25 21:00:11	052925A-0047.d	10733872004	Sample	1	6251
05/29/25 21:14:19	052925A-0048.d	10733872005	Sample	1	6251
05/29/25 21:28:27	052925A-0049.d	10733872006	Sample	1	6251
05/29/25 21:42:35	052925A-0050.d	CCVB	CC	1	510289
05/29/25 21:56:43	052925A-0051.d	PBLK	Blank	1	
05/29/25 22:10:51	052925A-0052.d	10733872007	Sample	1	6251
05/29/25 22:24:59	052925A-0053.d	10733872008	Sample	1	6251
05/29/25 22:39:07	052925A-0054.d	10733872009	Sample	1	6251
05/29/25 22:53:15	052925A-0055.d	10733872010	Sample	1	6251
05/29/25 23:07:23	052925A-0056.d	10734440006	Sample	1	6251
05/29/25 23:21:31	052925A-0057.d	10734440007	Sample	1	6251
05/29/25 23:35:39	052925A-0058.d	10734440005	Sample	1	6251
05/29/25 23:49:47	052925A-0059.d	10734440001	Sample	1	6251
05/30/25 00:03:55	052925A-0060.d	10734440008	Sample	1	6251
05/30/25 00:18:03	052925A-0061.d	10734440009	Sample	1	6251
05/30/25 00:32:11	052925A-0062.d	CCVB	CC	1	510289

MS Checktune Report - G6495C

Agilent | Trusted Answers

Instrument Information

Model	G6495C
Serial Number	SG2216D203
SW/FW Version	3.0.1467/9.3.0
Tune Date/Time	2024-10-15T10:44:40-05:00
Tune File	atunes.tune
Last Tuned By	SYSTEM (SYSTEM)
Ion Source	AJS ESI
Ionization Mode	ESI
Tuned Resolution	Unit
Vacuum Pressure	1.51E+0[R][Torr]; 2.70E-5[H][Torr]
Overall Result	Pass

Negative Results

Source Parameters

Parameters	Value
Gas Temp(°C)	220
Gas Flow(L/min)	14
Nebulizer(psi)	20
Capillary Voltage	3000
Sheath Gas Temp(°C)	250
Sheath Gas Flow(L/min)	11
Nozzle Voltage(V)	1500
iFunnel High Pressure RF (V)	90
iFunnel Low Pressure RF (V)	60

Analyzer: MS1 **Polarity: Negative Results** **Resolution: Unit**

m/z Measured	Result	FWHM Measured	Result
112.94	Pass	0.66	Pass
301.94	Pass	0.78	Pass
601.94	Pass	0.69	Pass
1034.00	Pass	0.74	Pass
1633.86	Pass	0.65	Pass
2233.98	Pass	0.75	Pass

Analyzer: MS2 **Polarity: Negative Results** **Resolution: Unit**

m/z Measured	Result	FWHM Measured	Result
112.95	Pass	0.75	Pass
301.99	Pass	0.69	Pass
602.02	Pass	0.67	Pass
1034.08	Pass	0.60	Pass
1634.13	Pass	0.60	Pass
2234.10	Pass	0.57	Pass

Qualifier Ratio Failure Report

Batch Path	P:\PFA2\052325A-1633F ICAL\QuantResults\052325A-1633F ICAL.batch.bin		
Analysis Time	5/23/2025 1:20 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/27/2025 7:30:15 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

Sample Type	Data File	Acq. Time	Sample Name
Blank	**052325A-0012.d**	**5/23/2025 12:33 PM**	**PBLK**
	TFSI	Limits=54.6-82.0	Ratio=51.0
	8:2FTS	Limits=20.9-62.7	Ratio=67.8

Qualifier Ratio Failure Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-B 6320.batch.bin		
Analysis Time	5/30/2025 12:34 PM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/30/2025 12:39:30 PM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

Sample Type	Data File	Acq. Time	Sample Name
Blank	**052925A-0012.d**	**5/29/2025 12:45 PM**	**PBLK**
	PFOA	Limits=14.5-43.4	Ratio=9.3
Sample	**052925A-0016.d**	**5/29/2025 1:42 PM**	**40294880024**
	4:2FTS	Limits=18.6-55.8	Ratio=152.5
	PFOSA	Limits=1.2-3.7	Ratio=7.9
Sample	**052925A-0017.d**	**5/29/2025 1:56 PM**	**40294880025**
	PFBS	Limits=17.5-52.5	Ratio=13.8
	TFSI	Limits=54.6-82.0	Ratio=42.1
	PFHxS	Limits=22.4-67.2	Ratio=79.2
	PFNA	Limits=14.8-44.4	Ratio=6.9
Sample	**052925A-0023.d**	**5/29/2025 3:20 PM**	**10733932005**
	PFOA	Limits=14.5-43.4	Ratio=11.4
Sample	**052925A-0024.d**	**5/29/2025 3:35 PM**	**10733932006**
	PFOA	Limits=14.5-43.4	Ratio=11.1
Sample	**052925A-0027.d**	**5/29/2025 4:17 PM**	**PBLK**
	PFHxA	Limits=1.6-4.7	Ratio=7.4
Sample	**052925A-0028.d**	**5/29/2025 4:31 PM**	**10733950001**
	PFPeS	Limits=22.0-65.9	Ratio=77.7
	PFNA	Limits=14.8-44.4	Ratio=8.4
Sample	**052925A-0029.d**	**5/29/2025 4:45 PM**	**10733950002**
	3:3FTCA	Limits=26.3-78.8	Ratio=82.5
Sample	**052925A-0031.d**	**5/29/2025 5:14 PM**	**10733950004**
	PFOS	Limits=24.0-72.0	Ratio=74.0
Sample	**052925A-0032.d**	**5/29/2025 5:28 PM**	**10733950005**
	PFHxA	Limits=1.6-4.7	Ratio=5.3
	PFDoA	Limits=5.7-17.0	Ratio=17.1
Sample	**052925A-0033.d**	**5/29/2025 5:42 PM**	**10733999001**
	6:2FTS	Limits=20.6-61.8	Ratio=82.9
	PFOS	Limits=24.0-72.0	Ratio=17.0
	PFOSA	Limits=1.2-3.7	Ratio=5.1
Sample	**052925A-0035.d**	**5/29/2025 6:10 PM**	**10733972002**
	PFHxA	Limits=1.6-4.7	Ratio=8.2
Sample	**052925A-0036.d**	**5/29/2025 6:24 PM**	**10733972003**
	PFOA	Limits=14.5-43.4	Ratio=8.4
	PFHxS	Limits=22.4-67.2	Ratio=12.6
Sample	**052925A-0037.d**	**5/29/2025 6:38 PM**	**10733972004**
	PFHpA	Limits=8.3-25.0	Ratio=1.9
	PFOS	Limits=24.0-72.0	Ratio=234.6

Qualifier Ratio Failure Report

Batch Path	P:\PFA2\052925A-1633F W 6345, 6320, 6251, 6311\QuantResults\052925A-C 6251.batch.bin		
Analysis Time	5/30/2025 11:04 AM	**Analyst Name**	pacelabs\10pfasuser
Report Time	5/30/2025 11:07:10 AM	**Reporter Name**	pacelabs\10pfasuser
Last Calib Update	5/23/2025 1:20 PM	**Batch State**	Processed
Analyzed by Quant version	12.0	**Reported by Quant version**	12.0

Sample Type	Data File	Acq. Time	Sample Name
Blank	**052925A-0039.d**	**5/29/2025 7:07 PM**	**PBLK**
	PFOA	Limits=14.5-43.4	Ratio=6.1
Blank	**052925A-0040.d**	**5/29/2025 7:21 PM**	**5253128**
	PFOA	Limits=14.5-43.4	Ratio=8.9
QC	**052925A-0042.d**	**5/29/2025 7:49 PM**	**5253130**
	PFOSA	Limits=1.2-3.7	Ratio=4.0
Sample	**052925A-0043.d**	**5/29/2025 8:03 PM**	**10732440002**
	PFOSA	Limits=1.2-3.7	Ratio=4.5
Sample	**052925A-0044.d**	**5/29/2025 8:17 PM**	**10733872001**
	TFSI	Limits=54.6-82.0	Ratio=87.2
	PFOSA	Limits=1.2-3.7	Ratio=11.2
Sample	**052925A-0045.d**	**5/29/2025 8:31 PM**	**10733872002**
	PFOS	Limits=24.0-72.0	Ratio=22.7
Sample	**052925A-0046.d**	**5/29/2025 8:46 PM**	**10733872003**
	PFHxA	Limits=1.6-4.7	Ratio=5.1
Sample	**052925A-0047.d**	**5/29/2025 9:00 PM**	**10733872004**
	TFSI	Limits=54.6-82.0	Ratio=52.1
Sample	**052925A-0048.d**	**5/29/2025 9:14 PM**	**10733872005**
	PFOA	Limits=14.5-43.4	Ratio=11.4
Blank	**052925A-0051.d**	**5/29/2025 9:56 PM**	**PBLK**
	PFOA	Limits=14.5-43.4	Ratio=11.1
Sample	**052925A-0052.d**	**5/29/2025 10:10 PM**	**10733872007**
	PFOA	Limits=14.5-43.4	Ratio=12.1
Sample	**052925A-0053.d**	**5/29/2025 10:24 PM**	**10733872008**
	PFHxS	Limits=22.4-67.2	Ratio=79.4
Sample	**052925A-0054.d**	**5/29/2025 10:39 PM**	**10733872009**
	PFOA	Limits=14.5-43.4	Ratio=10.8
Sample	**052925A-0055.d**	**5/29/2025 10:53 PM**	**10733872010**
	PFOA	Limits=14.5-43.4	Ratio=11.5
Sample	**052925A-0056.d**	**5/29/2025 11:07 PM**	**10734440006**
	PFHpA	Limits=8.3-25.0	Ratio=26.1
	PFHxS	Limits=22.4-67.2	Ratio=75.1
	PFOS	Limits=24.0-72.0	Ratio=72.5
Sample	**052925A-0058.d**	**5/29/2025 11:35 PM**	**10734440005**
	PFNA	Limits=14.8-44.4	Ratio=2.6
	PFOS	Limits=24.0-72.0	Ratio=202.8
Sample	**052925A-0059.d**	**5/29/2025 11:49 PM**	**10734440001**
	PFNA	Limits=14.8-44.4	Ratio=2.7
	PFOS	Limits=24.0-72.0	Ratio=234.9
Sample	**052925A-0060.d**	**5/30/2025 12:03 AM**	**10734440008**
	PFNA	Limits=14.8-44.4	Ratio=0.9
	PFOS	Limits=24.0-72.0	Ratio=188.7
Sample	**052925A-0061.d**	**5/30/2025 12:18 AM**	**10734440009**
	PFNA	Limits=14.8-44.4	Ratio=3.7
	PFOS	Limits=24.0-72.0	Ratio=221.0

Standard Log Report

Standards Log Information for Standard #510546

WORKING STANDARD

Created By:	SMK	**Volume of Standard:**	12 mL	**Lot ID:**	24272-118
Create Date:	05/28/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	05/28/2026	**Manufacturer Lot ID:**	24272-118	**Standard ID:**	1633-IS

Notes:

1633F NIS 24280-144 P3-052825A-B

Compound Name and Concentration for Standard #510546

Compound Name	Concentration	Compound Name	Concentration
13C2-PFDA (IS)	250 ng/mL	13C2-PFHxA (IS)	500 ng/mL
13C3-PFBA (IS)	1000 ng/mL	13C4PFOA (IS)	500 ng/mL
13C4PFOS (IS)	500 ng/mL	13C5-PFNA (IS)	250 ng/mL
18O2-PFHxS (IS)	500 ng/mL		

Composed of Information for Standard #510546

Composed of Standard Seq	Volume	Units
509979	12	mL

Standard Log Report

Standards Log Information for Standard #510294

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	4 mL	**Lot ID:**	25-062-C-14
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/21/2025	**Manufacturer Lot ID:**	NA	**Standard ID:**	1633-ICV

Notes:

1633F ICV 25-062-C-14

Compound Name and Concentration for Standard #510294

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	13 ng/mL	13C2-PFDA (IS)	1.2 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	2.5 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	5 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	2.5 ng/mL
13C4PFOS (IS)	2.5 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	1.2 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	2.5 ng/mL	3:3 FTCA	19.6 ng/mL
4:2 FTS	6.6 ng/mL	5:3 FTCA	16.6 ng/mL
6:2 FTS	7.6 ng/mL	7:3 FTCA	15 ng/mL
8:2 FTS	11.2 ng/mL	9Cl-PF3ONS	19 ng/mL
ADONA	14.2 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	18.4 ng/mL
Methanol	ng/mL	NEtFOSA	4 ng/mL
NEtFOSAA	4 ng/mL	NEtFOSE	5.5 ng/mL
NFDHA	14.6 ng/mL	NMeFOSA	6 ng/mL
NMeFOSAA	3.8 ng/mL	NMeFOSE	7.5 ng/mL
PFBA	9.6 ng/mL	PFBS	6.9 ng/mL
PFDA	5.2 ng/mL	PFDS	8.8 ng/mL
PFDoA	7.4 ng/mL	PFDoS	9.3 ng/mL
PFEESA	5.8 ng/mL	PFHpA	5.8 ng/mL
PFHpS	2.4 ng/mL	PFHxA	5.6 ng/mL
PFHxS	4.7 ng/mL	PFMBA	16.2 ng/mL
PFMPA	15 ng/mL	PFNA	2.4 ng/mL
PFNS	1.4 ng/mL	PFOA	8.8 ng/mL
PFOS	8.1 ng/mL	PFOSA	3.7 ng/mL
PFPeA	18.8 ng/mL	PFPeS	6.4 ng/mL
PFPrA	13.2 ng/mL	PFTeDA	4.8 ng/mL
PFTrDA	6.2 ng/mL	PFUnA	3.6 ng/mL
TFSI	12.4 ng/mL	Water, Type I	ng/mL
d3-MeFOSAA (S)	5 ng/mL	d3-NMeFOSA (S)	2.5 ng/mL
d5-EtFOSAA (S)	5 ng/mL	d5-NEtFOSA (S)	2.5 ng/mL
d7-NMeFOSE (S)	25 ng/mL	d9-NEtFOSE (S)	25 ng/mL

Composed of Information for Standard #510294

Composed of Standard Seq	Volume	Units
510102	3740	uL

The standards listed are from Pace's Minneapolis Laboratory.

509808	20	uL
509807	40	uL
499501	200	uL

Standard Log Report

Standards Log Information for Standard #510293

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	2 mL	**Lot ID:**	25-062-B-10
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1633-CAL9

Notes:

1633F Cal 9 25-062-B-10

Compound Name and Concentration for Standard #510293

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	235 ng/mL	13C2-PFDA (IS)	1.2 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	2.5 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	5 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	2.5 ng/mL
13C4PFOS (IS)	2.5 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	1.2 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	2.5 ng/mL	3:3 FTCA	310 ng/mL
4:2 FTS	235 ng/mL	5:3 FTCA	1550 ng/mL
6:2 FTS	240 ng/mL	7:3 FTCA	1550 ng/mL
8:2 FTS	240 ng/mL	9Cl-PF3ONS	235 ng/mL
ADONA	235 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	250 ng/mL
HQ-115	125 ng/mL	Methanol	ng/mL
NEtFOSA	60 ng/mL	NEtFOSAA	60 ng/mL
NEtFOSE	600 ng/mL	NFDHA	125 ng/mL
NMeFOSA	60 ng/mL	NMeFOSAA	60 ng/mL
NMeFOSE	600 ng/mL	PFBA	250 ng/mL
PFBS	55 ng/mL	PFDA	60 ng/mL
PFDS	60 ng/mL	PFDoA	60 ng/mL
PFDoS	60 ng/mL	PFEESA	110 ng/mL
PFHpA	60 ng/mL	PFHpS	60 ng/mL
PFHxA	60 ng/mL	PFHxS	55 ng/mL
PFMBA	125 ng/mL	PFMPA	125 ng/mL
PFNA	60 ng/mL	PFNS	60 ng/mL
PFOA	60 ng/mL	PFOS	60 ng/mL
PFOSA	60 ng/mL	PFPeA	125 ng/mL
PFPeS	60 ng/mL	PFPrA	250 ng/mL
PFTeDA	60 ng/mL	PFTrDA	60 ng/mL
PFUnA	60 ng/mL	TFSI	125 ng/mL
Water, Type I	ng/mL	d3-MeFOSAA (S)	5 ng/mL
d3-NMeFOSA (S)	2.5 ng/mL	d5-EtFOSAA (S)	5 ng/mL
d5-NEtFOSA (S)	2.5 ng/mL	d7-NMeFOSE (S)	25 ng/mL
d9-NEtFOSE (S)	25 ng/mL		

Composed of Information for Standard #510293

Composed of Standard Seq	Volume	Units

510102	970	uL
509808	10	uL
509807	20	uL
509107	1000	uL

Standard Log Report

Standards Log Information for Standard #510292

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	2 mL	**Lot ID:**	25-062-B-10
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1633-CAL8

Notes:

1633F Cal 8 25-062-B-10

Compound Name and Concentration for Standard #510292

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	188 ng/mL	13C2-PFDA (IS)	1.2 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	2.5 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	5 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	2.5 ng/mL
13C4PFOS (IS)	2.5 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	1.2 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	2.5 ng/mL	3:3 FTCA	248 ng/mL
4:2 FTS	188 ng/mL	5:3 FTCA	1240 ng/mL
6:2 FTS	192 ng/mL	7:3 FTCA	1240 ng/mL
8:2 FTS	192 ng/mL	9Cl-PF3ONS	188 ng/mL
ADONA	188 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	200 ng/mL
HQ-115	100 ng/mL	Methanol	ng/mL
NEtFOSA	48 ng/mL	NEtFOSAA	48 ng/mL
NEtFOSE	480 ng/mL	NFDHA	100 ng/mL
NMeFOSA	48 ng/mL	NMeFOSAA	48 ng/mL
NMeFOSE	480 ng/mL	PFBA	200 ng/mL
PFBS	44 ng/mL	PFDA	48 ng/mL
PFDS	48 ng/mL	PFDoA	48 ng/mL
PFDoS	48 ng/mL	PFEESA	88 ng/mL
PFHpA	48 ng/mL	PFHpS	48 ng/mL
PFHxA	48 ng/mL	PFHxS	44 ng/mL
PFMBA	100 ng/mL	PFMPA	100 ng/mL
PFNA	48 ng/mL	PFNS	48 ng/mL
PFOA	48 ng/mL	PFOS	48 ng/mL
PFOSA	48 ng/mL	PFPeA	100 ng/mL
PFPeS	48 ng/mL	PFPrA	200 ng/mL
PFTeDA	48 ng/mL	PFTrDA	48 ng/mL
PFUnA	48 ng/mL	TFSI	100 ng/mL
Water, Type I	ng/mL	d3-MeFOSAA (S)	5 ng/mL
d3-NMeFOSA (S)	2.5 ng/mL	d5-EtFOSAA (S)	5 ng/mL
d5-NEtFOSA (S)	2.5 ng/mL	d7-NMeFOSE (S)	25 ng/mL
d9-NEtFOSE (S)	25 ng/mL		

Composed of Information for Standard #510292

Composed of Standard Seq	Volume	Units

510102	1170	uL
509808	10	uL
509807	20	uL
509107	800	uL

Standard Log Report

Standards Log Information for Standard #510291

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	2 mL	**Lot ID:**	25-062-B-10
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1633-CAL7

Notes:

1633F Cal 7 25-062-B-10

Compound Name and Concentration for Standard #510291

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	2.4 ng/mL	13C2-PFDA (IS)	50 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	100 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	200 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	100 ng/mL
13C4PFOS (IS)	100 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	50 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	100 ng/mL	3:3 FTCA	3.1 ng/mL
4:2 FTS	2.4 ng/mL	5:3 FTCA	15.5 ng/mL
6:2 FTS	2.4 ng/mL	7:3 FTCA	15.5 ng/mL
8:2 FTS	2.4 ng/mL	9Cl-PF3ONS	2.4 ng/mL
ADONA	2.4 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	2.5 ng/mL
HQ-115	1.2 ng/mL	Methanol	ng/mL
NEtFOSA	.6 ng/mL	NEtFOSAA	.6 ng/mL
NEtFOSE	6 ng/mL	NFDHA	1.2 ng/mL
NMeFOSA	.6 ng/mL	NMeFOSAA	.6 ng/mL
NMeFOSE	6 ng/mL	PFBA	2.5 ng/mL
PFBS	.55 ng/mL	PFDA	.6 ng/mL
PFDS	.6 ng/mL	PFDoA	.6 ng/mL
PFDoS	.6 ng/mL	PFEESA	1.1 ng/mL
PFHpA	.6 ng/mL	PFHpS	.6 ng/mL
PFHxA	.6 ng/mL	PFHxS	.55 ng/mL
PFMBA	1.2 ng/mL	PFMPA	1.2 ng/mL
PFNA	.6 ng/mL	PFNS	.6 ng/mL
PFOA	.6 ng/mL	PFOS	.6 ng/mL
PFOSA	.6 ng/mL	PFPeA	1.2 ng/mL
PFPeS	.6 ng/mL	PFPrA	2.5 ng/mL
PFTeDA	.6 ng/mL	PFTrDA	.6 ng/mL
PFUnA	.6 ng/mL	TFSI	1.2 ng/mL
Water, Type I	ng/mL	d3-MeFOSAA (S)	5 ng/mL
d3-NMeFOSA (S)	2.5 ng/mL	d5-EtFOSAA (S)	5 ng/mL
d5-NEtFOSA (S)	2.5 ng/mL	d7-NMeFOSE (S)	25 ng/mL
d9-NEtFOSE (S)	25 ng/mL		

Composed of Information for Standard #510291

Composed of Standard Seq	Volume	Units

510102	1570	uL
509808	400	uL
509807	20	uL
509107	10	uL

Standard Log Report

Standards Log Information for Standard #510290

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	2 mL	**Lot ID:**	25-062-B-10
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1633-CAL6

Notes:

1633F Cal 6 25-062-B-10

Compound Name and Concentration for Standard #510290

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	2.4 ng/mL	13C2-PFDA (IS)	25 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	50 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	100 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	50 ng/mL
13C4PFOS (IS)	50 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	25 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	50 ng/mL	3:3 FTCA	3.1 ng/mL
4:2 FTS	2.4 ng/mL	5:3 FTCA	15.5 ng/mL
6:2 FTS	2.4 ng/mL	7:3 FTCA	15.5 ng/mL
8:2 FTS	2.4 ng/mL	9Cl-PF3ONS	2.4 ng/mL
ADONA	2.4 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	2.5 ng/mL
HQ-115	1.2 ng/mL	Methanol	ng/mL
NEtFOSA	.6 ng/mL	NEtFOSAA	.6 ng/mL
NEtFOSE	6 ng/mL	NFDHA	1.2 ng/mL
NMeFOSA	.6 ng/mL	NMeFOSAA	.6 ng/mL
NMeFOSE	6 ng/mL	PFBA	2.5 ng/mL
PFBS	.55 ng/mL	PFDA	.6 ng/mL
PFDS	.6 ng/mL	PFDoA	.6 ng/mL
PFDoS	.6 ng/mL	PFEESA	1.1 ng/mL
PFHpA	.6 ng/mL	PFHpS	.6 ng/mL
PFHxA	.6 ng/mL	PFHxS	.55 ng/mL
PFMBA	1.2 ng/mL	PFMPA	1.2 ng/mL
PFNA	.6 ng/mL	PFNS	.6 ng/mL
PFOA	.6 ng/mL	PFOS	.6 ng/mL
PFOSA	.6 ng/mL	PFPeA	1.2 ng/mL
PFPeS	.6 ng/mL	PFPrA	2.5 ng/mL
PFTeDA	.6 ng/mL	PFTrDA	.6 ng/mL
PFUnA	.6 ng/mL	TFSI	1.2 ng/mL
Water, Type I	ng/mL	d3-MeFOSAA (S)	5 ng/mL
d3-NMeFOSA (S)	2.5 ng/mL	d5-EtFOSAA (S)	5 ng/mL
d5-NEtFOSA (S)	2.5 ng/mL	d7-NMeFOSE (S)	25 ng/mL
d9-NEtFOSE (S)	25 ng/mL		

Composed of Information for Standard #510290

Composed of Standard Seq	Volume	Units

510102	1770	uL
509808	200	uL
509807	20	uL
509107	10	uL

Standard Log Report

Standards Log Information for Standard #510289

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	4 mL	**Lot ID:**	25-062-B-10
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1633-CAL5

Notes:

1633F Cal 5 25-062-B-10

Compound Name and Concentration for Standard #510289

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	18.8 ng/mL	13C2-PFDA (IS)	1.2 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	2.5 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	5 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	2.5 ng/mL
13C4PFOS (IS)	2.5 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	1.2 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	2.5 ng/mL	3:3 FTCA	24.8 ng/mL
4:2 FTS	18.8 ng/mL	5:3 FTCA	124 ng/mL
6:2 FTS	19.2 ng/mL	7:3 FTCA	124 ng/mL
8:2 FTS	19.2 ng/mL	9Cl-PF3ONS	18.8 ng/mL
ADONA	18.8 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	20 ng/mL
HQ-115	10 ng/mL	Methanol	ng/mL
NEtFOSA	4.8 ng/mL	NEtFOSAA	4.8 ng/mL
NEtFOSE	48 ng/mL	NFDHA	10 ng/mL
NMeFOSA	4.8 ng/mL	NMeFOSAA	4.8 ng/mL
NMeFOSE	48 ng/mL	PFBA	20 ng/mL
PFBS	4.4 ng/mL	PFDA	4.8 ng/mL
PFDS	4.8 ng/mL	PFDoA	4.8 ng/mL
PFDoS	4.8 ng/mL	PFEESA	8.8 ng/mL
PFHpA	4.8 ng/mL	PFHpS	4.8 ng/mL
PFHxA	4.8 ng/mL	PFHxS	4.4 ng/mL
PFMBA	10 ng/mL	PFMPA	10 ng/mL
PFNA	4.8 ng/mL	PFNS	4.8 ng/mL
PFOA	4.8 ng/mL	PFOS	4.8 ng/mL
PFOSA	4.8 ng/mL	PFPeA	10 ng/mL
PFPeS	4.8 ng/mL	PFPrA	20 ng/mL
PFTeDA	4.8 ng/mL	PFTrDA	4.8 ng/mL
PFUnA	4.8 ng/mL	TFSI	10 ng/mL
Water, Type I	ng/mL	d3-MeFOSAA (S)	5 ng/mL
d3-NMeFOSA (S)	2.5 ng/mL	d5-EtFOSAA (S)	5 ng/mL
d5-NEtFOSA (S)	2.5 ng/mL	d7-NMeFOSE (S)	25 ng/mL
d9-NEtFOSE (S)	25 ng/mL		

Composed of Information for Standard #510289

Composed of Standard Seq	Volume	Units

510102	3760	uL
509808	20	uL
509807	40	uL
509107	160	uL

Standard Log Report

Standards Log Information for Standard #510288

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	2 mL	**Lot ID:**	25-062-B-10
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1633-CAL4

Notes:

1633F Cal 4 25-062-B-10

Compound Name and Concentration for Standard #510288

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	9.4 ng/mL	13C2-PFDA (IS)	1.2 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	2.5 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	5 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	2.5 ng/mL
13C4PFOS (IS)	2.5 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	1.2 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	2.5 ng/mL	3:3 FTCA	12.4 ng/mL
4:2 FTS	9.4 ng/mL	5:3 FTCA	62 ng/mL
6:2 FTS	9.6 ng/mL	7:3 FTCA	62 ng/mL
8:2 FTS	9.6 ng/mL	9Cl-PF3ONS	9.4 ng/mL
ADONA	9.4 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	10 ng/mL
HQ-115	5 ng/mL	Methanol	ng/mL
NEtFOSA	2.4 ng/mL	NEtFOSAA	2.4 ng/mL
NEtFOSE	24 ng/mL	NFDHA	5 ng/mL
NMeFOSA	2.4 ng/mL	NMeFOSAA	2.4 ng/mL
NMeFOSE	24 ng/mL	PFBA	10 ng/mL
PFBS	2.2 ng/mL	PFDA	2.4 ng/mL
PFDS	2.4 ng/mL	PFDoA	2.4 ng/mL
PFDoS	2.4 ng/mL	PFEESA	4.4 ng/mL
PFHpA	2.4 ng/mL	PFHpS	2.4 ng/mL
PFHxA	2.4 ng/mL	PFHxS	2.2 ng/mL
PFMBA	5 ng/mL	PFMPA	5 ng/mL
PFNA	2.4 ng/mL	PFNS	2.4 ng/mL
PFOA	2.4 ng/mL	PFOS	2.4 ng/mL
PFOSA	2.4 ng/mL	PFPeA	5 ng/mL
PFPeS	2.4 ng/mL	PFPrA	10 ng/mL
PFTeDA	2.4 ng/mL	PFTrDA	2.4 ng/mL
PFUnA	2.4 ng/mL	TFSI	5 ng/mL
Water, Type I	ng/mL	d3-MeFOSAA (S)	5 ng/mL
d3-NMeFOSA (S)	2.5 ng/mL	d5-EtFOSAA (S)	5 ng/mL
d5-NEtFOSA (S)	2.5 ng/mL	d7-NMeFOSE (S)	25 ng/mL
d9-NEtFOSE (S)	25 ng/mL		

Composed of Information for Standard #510288

Composed of Standard Seq	Volume	Units

510102	1930	uL
509808	10	uL
509807	20	uL
509107	40	uL

Standard Log Report

Standards Log Information for Standard #510287

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	2 mL	**Lot ID:**	25-062-B-10
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1633-CAL3

Notes:

1633F Cal 3 25-062-B-10

Compound Name and Concentration for Standard #510287

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	1.9 ng/mL	13C2-PFDA (IS)	1.2 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	2.5 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	5 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	2.5 ng/mL
13C4PFOS (IS)	2.5 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	1.2 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	2.5 ng/mL	3:3 FTCA	2.5 ng/mL
4:2 FTS	1.9 ng/mL	5:3 FTCA	12.4 ng/mL
6:2 FTS	1.9 ng/mL	7:3 FTCA	12.4 ng/mL
8:2 FTS	1.9 ng/mL	9Cl-PF3ONS	1.9 ng/mL
ADONA	1.9 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	2 ng/mL
HQ-115	1 ng/mL	Methanol	ng/mL
NEtFOSA	.48 ng/mL	NEtFOSAA	.48 ng/mL
NEtFOSE	4.8 ng/mL	NFDHA	1 ng/mL
NMeFOSA	.48 ng/mL	NMeFOSAA	.48 ng/mL
NMeFOSE	4.8 ng/mL	PFBA	2 ng/mL
PFBS	.44 ng/mL	PFDA	.48 ng/mL
PFDS	.48 ng/mL	PFDoA	.48 ng/mL
PFDoS	.48 ng/mL	PFEESA	.88 ng/mL
PFHpA	.48 ng/mL	PFHpS	.48 ng/mL
PFHxA	.48 ng/mL	PFHxS	.44 ng/mL
PFMBA	1 ng/mL	PFMPA	1 ng/mL
PFNA	.48 ng/mL	PFNS	.48 ng/mL
PFOA	.48 ng/mL	PFOS	.48 ng/mL
PFOSA	.48 ng/mL	PFPeA	1 ng/mL
PFPeS	.48 ng/mL	PFPrA	2 ng/mL
PFTeDA	.48 ng/mL	PFTrDA	.48 ng/mL
PFUnA	.48 ng/mL	TFSI	1 ng/mL
Water, Type I	ng/mL	d3-MeFOSAA (S)	5 ng/mL
d3-NMeFOSA (S)	2.5 ng/mL	d5-EtFOSAA (S)	5 ng/mL
d5-NEtFOSA (S)	2.5 ng/mL	d7-NMeFOSE (S)	25 ng/mL
d9-NEtFOSE (S)	25 ng/mL		

Composed of Information for Standard #510287

Composed of Standard Seq	Volume	Units

510102	1890	uL
509808	10	uL
509807	20	uL
509108	80	uL

Standard Log Report

Standards Log Information for Standard #510286

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	4 mL	**Lot ID:**	25-062-B-10
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1633-CAL2

Notes:

1633F Cal 2 25-062-B-10

Compound Name and Concentration for Standard #510286

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	.75 ng/mL	13C2-PFDA (IS)	1.2 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	2.5 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	5 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	2.5 ng/mL
13C4PFOS (IS)	2.5 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	1.2 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	2.5 ng/mL	3:3 FTCA	.99 ng/mL
4:2 FTS	.75 ng/mL	5:3 FTCA	5 ng/mL
6:2 FTS	.77 ng/mL	7:3 FTCA	5 ng/mL
8:2 FTS	.77 ng/mL	9Cl-PF3ONS	.75 ng/mL
ADONA	.75 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	.8 ng/mL
HQ-115	.4 ng/mL	Methanol	ng/mL
NEtFOSA	.19 ng/mL	NEtFOSAA	.19 ng/mL
NEtFOSE	1.9 ng/mL	NFDHA	.4 ng/mL
NMeFOSA	.19 ng/mL	NMeFOSAA	.19 ng/mL
NMeFOSE	1.9 ng/mL	PFBA	.8 ng/mL
PFBS	.18 ng/mL	PFDA	.19 ng/mL
PFDS	.19 ng/mL	PFDoA	.19 ng/mL
PFDoS	.19 ng/mL	PFEESA	.35 ng/mL
PFHpA	.19 ng/mL	PFHpS	.19 ng/mL
PFHxA	.19 ng/mL	PFHxS	.18 ng/mL
PFMBA	.4 ng/mL	PFMPA	.4 ng/mL
PFNA	.19 ng/mL	PFNS	.19 ng/mL
PFOA	.19 ng/mL	PFOS	.19 ng/mL
PFOSA	.19 ng/mL	PFPeA	.4 ng/mL
PFPeS	.19 ng/mL	PFPrA	.8 ng/mL
PFTeDA	.19 ng/mL	PFTrDA	.19 ng/mL
PFUnA	.19 ng/mL	TFSI	.4 ng/mL
Water, Type I	ng/mL	d3-MeFOSAA (S)	5 ng/mL
d3-NMeFOSA (S)	2.5 ng/mL	d5-EtFOSAA (S)	5 ng/mL
d5-NEtFOSA (S)	2.5 ng/mL	d7-NMeFOSE (S)	25 ng/mL
d9-NEtFOSE (S)	25 ng/mL		

Composed of Information for Standard #510286

Composed of Standard Seq	Volume	Units

510102	3856	uL
509808	20	uL
509807	40	uL
509108	64	uL

Standard Log Report

Standards Log Information for Standard #510285

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	2 mL	**Lot ID:**	25-062-B-10
Create Date:	05/22/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	1633-CAL1

Notes:

1633F Cal 1 25-062-B-10

Compound Name and Concentration for Standard #510285

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	.38 ng/mL	13C2-PFDA (IS)	1.2 ng/mL
13C2-PFDoA (S)	1.2 ng/mL	13C2-PFHxA (IS)	2.5 ng/mL
13C2-PFTA (S)	1.2 ng/mL	13C24:2FTS (S)	5 ng/mL
13C26:2FTS (S)	5 ng/mL	13C28:2FTS (S)	5 ng/mL
13C3-PFBA (IS)	5 ng/mL	13C3-PFBS (S)	2.5 ng/mL
13C3-PFHxS (S)	2.5 ng/mL	13C3-PFPrA (S)	10 ng/mL
13C3HFPO-DA (S)	10 ng/mL	13C4-PFBA (S)	10 ng/mL
13C4-PFHpA (S)	2.5 ng/mL	13C4PFOA (IS)	2.5 ng/mL
13C4PFOS (IS)	2.5 ng/mL	13C5-PFHxA (S)	2.5 ng/mL
13C5-PFNA (IS)	1.2 ng/mL	13C5-PFPeA (S)	5 ng/mL
13C6-PFDA (S)	1.2 ng/mL	13C7-PFUdA (S)	1.2 ng/mL
13C8-PFOA (S)	2.5 ng/mL	13C8-PFOS (S)	2.5 ng/mL
13C8-PFOSA (S)	2.5 ng/mL	13C9-PFNA (S)	1.2 ng/mL
18O2-PFHxS (IS)	2.5 ng/mL	3:3 FTCA	.5 ng/mL
4:2 FTS	.38 ng/mL	5:3 FTCA	2.5 ng/mL
6:2 FTS	.38 ng/mL	7:3 FTCA	2.5 ng/mL
8:2 FTS	.38 ng/mL	9Cl-PF3ONS	.38 ng/mL
ADONA	.38 ng/mL	Ammonium Hydroxide	ng/mL
Glacial Acetic Acid	ng/mL	HFPO-DA	.4 ng/mL
HQ-115	.2 ng/mL	Methanol	ng/mL
NEtFOSA	.096 ng/mL	NEtFOSAA	.096 ng/mL
NEtFOSE	.96 ng/mL	NFDHA	.2 ng/mL
NMeFOSA	.096 ng/mL	NMeFOSAA	.096 ng/mL
NMeFOSE	.96 ng/mL	PFBA	.4 ng/mL
PFBS	.088 ng/mL	PFDA	.096 ng/mL
PFDS	.096 ng/mL	PFDoA	.096 ng/mL
PFDoS	.096 ng/mL	PFEESA	.18 ng/mL
PFHpA	.096 ng/mL	PFHpS	.096 ng/mL
PFHxA	.096 ng/mL	PFHxS	.088 ng/mL
PFMBA	.2 ng/mL	PFMPA	.2 ng/mL
PFNA	.096 ng/mL	PFNS	.096 ng/mL
PFOA	.096 ng/mL	PFOS	.096 ng/mL
PFOSA	.096 ng/mL	PFPeA	.2 ng/mL
PFPeS	.096 ng/mL	PFPrA	.4 ng/mL
PFTeDA	.096 ng/mL	PFTrDA	.096 ng/mL
PFUnA	.096 ng/mL	TFSI	.2 ng/mL
Water, Type I	ng/mL	d3-MeFOSAA (S)	5 ng/mL
d3-NMeFOSA (S)	2.5 ng/mL	d5-EtFOSAA (S)	5 ng/mL
d5-NEtFOSA (S)	2.5 ng/mL	d7-NMeFOSE (S)	25 ng/mL
d9-NEtFOSE (S)	25 ng/mL		

Composed of Information for Standard #510285

Composed of Standard Seq	Volume	Units

510102	1954	uL
509808	10	uL
509807	20	uL
509108	16	uL

Standard Log Report

Standards Log Information for Standard #510102

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	4058 mL	**Lot ID:**	24049-018
Create Date:	05/22/2025	**Manufacturer:**	Pace	**Part ID:**	NA
Expire Date:	06/22/2025	**Manufacturer Lot ID:**	N/A	**Standard ID:**	RGNT1012

Notes:

1633F IBLK Mix-1% NH4OH/MeOH

Compound Name and Concentration for Standard #510102

Compound Name	Concentration	Compound Name	Concentration
Ammonium Hydroxide	ng/mL	Glacial Acetic Acid	ng/mL
Methanol	ng/mL	Water, Type I	ng/mL

Composed of Information for Standard #510102

Composed of Standard Seq	Volume	Units
504093	94.4	mL
494875	0.625	mL
491642	3.3	mL
488110	1.67	mL

Standard Log Report

Standards Log Information for Standard #509979

INDIVIDUAL STANDARD

Created By:	NSR	**Volume of Standard:**	12 mL	**Lot ID:**	1023836
Create Date:	05/22/2025	**Manufacturer:**	WELLINGTON	**Part ID:**	MPFAC-HIF-IS
Expire Date:	04/29/2030	**Manufacturer Lot ID:**	MPFACHIFIS0425	**Standard ID:**	1633-HIF-IS

Notes:

24280-144 MPFAC-HIF-IS

Compound Name and Concentration for Standard #509979

Compound Name	Concentration	Compound Name	Concentration
13C2-PFDA (IS)	250 ng/mL	13C2-PFHxA (IS)	500 ng/mL
13C3-PFBA (IS)	1000 ng/mL	13C4PFOA (IS)	500 ng/mL
13C4PFOS (IS)	500 ng/mL	13C5-PFNA (IS)	250 ng/mL
18O2-PFHxS (IS)	500 ng/mL		

Standard Log Report

Standards Log Information for Standard #509808

WORKING STANDARD

Created By:	SMK	**Volume of Standard:**	12 mL	**Lot ID:**	24272-116
Create Date:	05/21/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	05/21/2026	**Manufacturer Lot ID:**	24272-116	**Standard ID:**	1633-IS

Notes:

1633F NIS 24280-138 P3-052125A

Compound Name and Concentration for Standard #509808

Compound Name	Concentration	Compound Name	Concentration
13C2-PFDA (IS)	250 ng/mL	13C2-PFHxA (IS)	500 ng/mL
13C3-PFBA (IS)	1000 ng/mL	13C4PFOA (IS)	500 ng/mL
13C4PFOS (IS)	500 ng/mL	13C5-PFNA (IS)	250 ng/mL
18O2-PFHxS (IS)	500 ng/mL		

Composed of Information for Standard #509808

Composed of Standard Seq	Volume	Units
509242	12	mL

Standard Log Report

Standards Log Information for Standard #509807

WORKING STANDARD

Created By:	SMK	**Volume of Standard:**	22 mL	**Lot ID:**	24272-115
Create Date:	05/21/2025	**Manufacturer:**	Pace	**Part ID:**	N/A
Expire Date:	06/21/2025	**Manufacturer Lot ID:**	24272-115	**Standard ID:**	1633-SS

Notes:

1633F EIS Mix. HIF-ES 24280-137, PFPrA 24280-130 P3-052125A

Compound Name and Concentration for Standard #509807

Compound Name	Concentration	Compound Name	Concentration
13C2-PFDoA (S)	125 ng/mL	13C2-PFTA (S)	125 ng/mL
13C24:2FTS (S)	500 ng/mL	13C26:2FTS (S)	500 ng/mL
13C28:2FTS (S)	500 ng/mL	13C3-PFBS (S)	250 ng/mL
13C3-PFHxS (S)	250 ng/mL	13C3-PFPrA (S)	1000 ng/mL
13C3HFPO-DA (S)	1000 ng/mL	13C4-PFBA (S)	1000 ng/mL
13C4-PFHpA (S)	250 ng/mL	13C5-PFHxA (S)	250 ng/mL
13C5-PFPeA (S)	500 ng/mL	13C6-PFDA (S)	125 ng/mL
13C7-PFUdA (S)	125 ng/mL	13C8-PFOA (S)	250 ng/mL
13C8-PFOS (S)	250 ng/mL	13C8-PFOSA (S)	250 ng/mL
13C9-PFNA (S)	125 ng/mL	Methanol	ng/mL
d3-MeFOSAA (S)	500 ng/mL	d3-NMeFOSA (S)	250 ng/mL
d5-EtFOSAA (S)	500 ng/mL	d5-NEtFOSA (S)	250 ng/mL
d7-NMeFOSE (S)	2500 ng/mL	d9-NEtFOSE (S)	2500 ng/mL

Composed of Information for Standard #509807

Composed of Standard Seq	Volume	Units
509241	11000	uL
506848	440	uL
504093	10560	uL

Standard Log Report

Standards Log Information for Standard #509781

WORKING STANDARD

Created By:	TL	**Volume of Standard:**	4136 mL	**Lot ID:**	25078-025
Create Date:	05/21/2025	**Manufacturer:**	Pace	**Part ID:**	N/A
Expire Date:	06/21/2025	**Manufacturer Lot ID:**	25078-025	**Standard ID:**	RGNT1012

Notes:

PFAS 1% Methanol/ Ammonium Hydroxide mix 25078-025

Compound Name and Concentration for Standard #509781

Compound Name	Concentration	Compound Name	Concentration
Ammonium Hydroxide	ng/mL	Methanol	ng/mL

Composed of Information for Standard #509781

Composed of Standard Seq	Volume	Units
504093	4000	mL
491642	136	mL

Standard Log Report

Standards Log Information for Standard #509691

WORKING STANDARD

Created By:	VLK	**Volume of Standard:**	2007.78 mL	**Lot ID:**	25096-B-005
Create Date:	05/20/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	05/20/2026	**Manufacturer Lot ID:**	25096-B-005	**Standard ID:**	RGNT1013

Notes:

1:1 MeOH: 0.1 Formic Acid 25096-B-005

Compound Name and Concentration for Standard #509691

Compound Name	Concentration	Compound Name	Concentration
Methanol		Water, Type I	

Composed of Information for Standard #509691

Composed of Standard Seq	Volume	Units
508367	3.78	null
504093	1004	null
488110	1000	null

Standard Log Report

Standards Log Information for Standard #509690

WORKING STANDARD

Created By:	VLK	**Volume of Standard:**	2022.88 mL	**Lot ID:**	25096-A-005
Create Date:	05/20/2025	**Manufacturer:**	Pace	**Part ID:**	N/A
Expire Date:	05/20/2026	**Manufacturer Lot ID:**	25096-A-005	**Standard ID:**	RGNT1028

Notes:

0.3M Formic Acid 25096-A-005

Compound Name and Concentration for Standard #509690

Compound Name	Concentration	Compound Name	Concentration
Water, Type I			

Composed of Information for Standard #509690

Composed of Standard Seq	Volume	Units
508367	22.88	mL
488110	2000	mL

Standard Log Report

Standards Log Information for Standard #509242

INDIVIDUAL STANDARD

Created By:	SMK	**Volume of Standard:**	12 mL	**Lot ID:**	1023804
Create Date:	05/15/2025	**Manufacturer:**	WELLINGTON	**Part ID:**	MPFAC-HIF-IS
Expire Date:	04/29/2030	**Manufacturer Lot ID:**	MPFACHIFIS0425	**Standard ID:**	1633-HIF-IS

Notes:

24280-138 MPFAC-HIF-IS

Compound Name and Concentration for Standard #509242

Compound Name	Concentration	Compound Name	Concentration
13C2-PFDA (IS)	250 ng/mL	13C2-PFHxA (IS)	500 ng/mL
13C3-PFBA (IS)	1000 ng/mL	13C4PFOA (IS)	500 ng/mL
13C4PFOS (IS)	500 ng/mL	13C5-PFNA (IS)	250 ng/mL
18O2-PFHxS (IS)	500 ng/mL		

Standard Log Report

Standards Log Information for Standard #509241

INDIVIDUAL STANDARD

Created By:	SMK	**Volume of Standard:**	12 mL	**Lot ID:**	1023803
Create Date:	05/15/2025	**Manufacturer:**	WELLINGTON	**Part ID:**	MPFAC-HIF-ES
Expire Date:	09/26/2028	**Manufacturer Lot ID:**	MPFACHIFES0924	**Standard ID:**	1633-HIF-ES

Notes:

24280-137 MPFAC-HIF-ES

Compound Name and Concentration for Standard #509241

Compound Name	Concentration	Compound Name	Concentration
13C2-PFDoA (S)	250 ng/mL	13C2-PFTA (S)	250 ng/mL
13C24:2FTS (S)	1000 ng/mL	13C26:2FTS (S)	1000 ng/mL
13C28:2FTS (S)	1000 ng/mL	13C3-PFBS (S)	500 ng/mL
13C3-PFHxS (S)	500 ng/mL	13C3HFPO-DA (S)	2000 ng/mL
13C4-PFBA (S)	2000 ng/mL	13C4-PFHpA (S)	500 ng/mL
13C5-PFHxA (S)	500 ng/mL	13C5-PFPeA (S)	1000 ng/mL
13C6-PFDA (S)	250 ng/mL	13C7-PFUdA (S)	250 ng/mL
13C8-PFOA (S)	500 ng/mL	13C8-PFOS (S)	500 ng/mL
13C8-PFOSA (S)	500 ng/mL	13C9-PFNA (S)	250 ng/mL
d3-MeFOSAA (S)	1000 ng/mL	d3-NMeFOSA (S)	500 ng/mL
d5-EtFOSAA (S)	1000 ng/mL	d5-NEtFOSA (S)	500 ng/mL
d7-NMeFOSE (S)	5000 ng/mL	d9-NEtFOSE (S)	5000 ng/mL

Standard Log Report

Standards Log Information for Standard #509206

STOCK STANDARD

Created By:	SMK	**Volume of Standard:**	25 mg	**Lot ID:**	H01054
Create Date:	05/15/2025	**Manufacturer:**	Phenomenex	**Part ID:**	8B-S528-CAJ
Expire Date:	05/15/2030	**Manufacturer Lot ID:**	H01054	**Standard ID:**	RGNT1014

Notes:

PFAS 1633F GCB Cartridge 25mg/1mL IC, Phenomenex (8B-S528-CAJ), H01054 P3-52125B

Standard Log Report

Standards Log Information for Standard #509108

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	10 mL	**Lot ID:**	24272-112
Create Date:	05/14/2025	**Manufacturer:**	Pace	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	24272-112	**Standard ID:**	1633-LLPDS

Notes:

1633F PDS 10X P4-051425A

Compound Name and Concentration for Standard #509108

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	.047 ug/mL	3:3 FTCA	.062 ug/mL
4:2 FTS	.047 ug/mL	5:3 FTCA	.31 ug/mL
6:2 FTS	.048 ug/mL	7:3 FTCA	.31 ug/mL
8:2 FTS	.048 ug/mL	9Cl-PF3ONS	.047 ug/mL
ADONA	.047 ug/mL	HFPO-DA	.05 ug/mL
HQ-115	.025 ug/mL	Methanol	ug/mL
NEtFOSA	.012 ug/mL	NEtFOSAA	.012 ug/mL
NEtFOSE	.12 ug/mL	NFDHA	.025 ug/mL
NMeFOSA	.012 ug/mL	NMeFOSAA	.012 ug/mL
NMeFOSE	.12 ug/mL	PFBA	.05 ug/mL
PFBS	.011 ug/mL	PFDA	.012 ug/mL
PFDS	.012 ug/mL	PFDoA	.012 ug/mL
PFDoS	.012 ug/mL	PFEESA	.022 ug/mL
PFHpA	.012 ug/mL	PFHpS	.012 ug/mL
PFHxA	.012 ug/mL	PFHxS	.011 ug/mL
PFMBA	.025 ug/mL	PFMPA	.025 ug/mL
PFNA	.012 ug/mL	PFNS	.012 ug/mL
PFOA	.012 ug/mL	PFOS	.012 ug/mL
PFOSA	.012 ug/mL	PFPeA	.025 ug/mL
PFPeS	.012 ug/mL	PFPrA	.05 ug/mL
PFTeDA	.012 ug/mL	PFTrDA	.012 ug/mL
PFUnA	.012 ug/mL	TFSI	.025 ug/mL

Composed of Information for Standard #509108

Composed of Standard Seq	Volume	Units
509107	1000	uL
504093	9000	uL

Standard Log Report

Standards Log Information for Standard #509107

WORKING STANDARD

Created By:	MJL	**Volume of Standard:**	12 mL	**Lot ID:**	24272-111
Create Date:	05/14/2025	**Manufacturer:**	N/A	**Part ID:**	N/A
Expire Date:	06/14/2025	**Manufacturer Lot ID:**	24272-111	**Standard ID:**	1633-PDS

Notes:

1633F PDS P4-051425A

Compound Name and Concentration for Standard #509107

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	.47 ug/mL	3:3 FTCA	.62 ug/mL
4:2 FTS	.47 ug/mL	5:3 FTCA	3.1 ug/mL
6:2 FTS	.48 ug/mL	7:3 FTCA	3.1 ug/mL
8:2 FTS	.48 ug/mL	9Cl-PF3ONS	.47 ug/mL
ADONA	.47 ug/mL	HFPO-DA	.5 ug/mL
HQ-115	.25 ug/mL	Methanol	ug/mL
NEtFOSA	.12 ug/mL	NEtFOSAA	.12 ug/mL
NEtFOSE	1.2 ug/mL	NFDHA	.25 ug/mL
NMeFOSA	.12 ug/mL	NMeFOSAA	.12 ug/mL
NMeFOSE	1.2 ug/mL	PFBA	.5 ug/mL
PFBS	.11 ug/mL	PFDA	.12 ug/mL
PFDS	.12 ug/mL	PFDoA	.12 ug/mL
PFDoS	.12 ug/mL	PFEESA	.22 ug/mL
PFHpA	.12 ug/mL	PFHpS	.12 ug/mL
PFHxA	.12 ug/mL	PFHxS	.11 ug/mL
PFMBA	.25 ug/mL	PFMPA	.25 ug/mL
PFNA	.12 ug/mL	PFNS	.12 ug/mL
PFOA	.12 ug/mL	PFOS	.12 ug/mL
PFOSA	.12 ug/mL	PFPeA	.25 ug/mL
PFPeS	.12 ug/mL	PFPrA	.5 ug/mL
PFTeDA	.12 ug/mL	PFTrDA	.12 ug/mL
PFUnA	.12 ug/mL	TFSI	.25 ug/mL

Composed of Information for Standard #509107

Composed of Standard Seq	Volume	Units
507233	6000	uL
504093	5850	uL
496878	30	uL
496877	120	uL

Standard Log Report

Standards Log Information for Standard #508367

STOCK STANDARD

Created By:	SMK	**Volume of Standard:**	25 mL	**Lot ID:**	A0465202
Create Date:	05/09/2025	**Manufacturer:**	Thermo Scientific	**Part ID:**	N/A
Expire Date:	09/23/2027	**Manufacturer Lot ID:**	A0465202	**Standard ID:**	RGNT1010

Notes:

Formic acid 99% A0465202

Standard Log Report

Standards Log Information for Standard #507233

INDIVIDUAL STANDARD

Created By:	SMK	**Volume of Standard:**	7.2 mL	**Lot ID:**	1023715
Create Date:	05/01/2025	**Manufacturer:**	Wellington	**Part ID:**	N/A
Expire Date:	01/27/2029	**Manufacturer Lot ID:**	1633STK0125	**Standard ID:**	1633-STK

Notes:

EPA-1633STK Standard 24280-134

Compound Name and Concentration for Standard #507233

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	943 ng/mL	3:3 FTCA	1250 ng/mL
4:2 FTS	937 ng/mL	5:3 FTCA	6250 ng/mL
6:2 FTS	951 ng/mL	7:3 FTCA	6250 ng/mL
8:2 FTS	960 ng/mL	9Cl-PF3ONS	933 ng/mL
ADONA	945 ng/mL	HFPO-DA	1000 ng/mL
NEtFOSA	250 ng/mL	NEtFOSAA	250 ng/mL
NEtFOSE	2500 ng/mL	NFDHA	500 ng/mL
NMeFOSA	250 ng/mL	NMeFOSAA	250 ng/mL
NMeFOSE	2500 ng/mL	PFBA	1000 ng/mL
PFBS	222 ng/mL	PFDA	250 ng/mL
PFDS	241 ng/mL	PFDoA	250 ng/mL
PFDoS	242 ng/mL	PFEESA	446 ng/mL
PFHpA	250 ng/mL	PFHpS	238 ng/mL
PFHxA	250 ng/mL	PFHxS	228.1 ng/mL
PFMBA	500 ng/mL	PFMPA	500 ng/mL
PFNA	250 ng/mL	PFNS	240 ng/mL
PFOA	250 ng/mL	PFOS	232 ng/mL
PFOSA	250 ng/mL	PFPeA	500 ng/mL
PFPeS	235 ng/mL	PFTeDA	250 ng/mL
PFTrDA	250 ng/mL	PFUnA	250 ng/mL

Standard Log Report

Standards Log Information for Standard #506848

INDIVIDUAL STANDARD

Created By:	SMK	**Volume of Standard:**	3.6 mL	**Lot ID:**	1023691
Create Date:	04/28/2025	**Manufacturer:**	Cambridge Isotope	**Part ID:**	13C3-PFPrA
Expire Date:	04/08/2030	**Manufacturer Lot ID:**	B003784	**Standard ID:**	13C3-PFPrA

Notes:

13C3-PFPrA Stock 24280-130

Compound Name and Concentration for Standard #506848

Compound Name	Concentration	Compound Name	Concentration
13C3-PFPrA (S)	50 ug/mL		

Standard Log Report

Standards Log Information for Standard #504093

STOCK STANDARD

Created By:	CJM1	**Volume of Standard:**	4000 mL	**Lot ID:**	245410
Create Date:	04/03/2025	**Manufacturer:**	FISHER Chemical	**Part ID:**	N/A
Expire Date:	04/03/2027	**Manufacturer Lot ID:**	245410	**Standard ID:**	RGNT179

Notes:

PFAS Optima Methanol 245410 PFA3 022725B P5-040725A

Compound Name and Concentration for Standard #504093

Compound Name	Concentration	Compound Name	Concentration
Methanol			

Standard Log Report

Standards Log Information for Standard #499501

INDIVIDUAL STANDARD

Created By:	SMK	**Volume of Standard:**	1.2 mL	**Lot ID:**	1023340
Create Date:	02/21/2025	**Manufacturer:**	Wellington	**Part ID:**	N/A
Expire Date:	12/12/2025	**Manufacturer Lot ID:**	P336-404	**Standard ID:**	1633-ICVSTK

Notes:

1633F ERA CRM (cat. #404) P336-404 24280-075

Compound Name and Concentration for Standard #499501

Compound Name	Concentration	Compound Name	Concentration
11Cl-PF3OUdS	259 ng/mL	3:3 FTCA	392 ng/mL
4:2 FTS	131 ng/mL	5:3 FTCA	333 ng/mL
6:2 FTS	152 ng/mL	7:3 FTCA	300 ng/mL
8:2 FTS	224 ng/mL	9Cl-PF3ONS	381 ng/mL
ADONA	283 ng/mL	HFPO-DA	367 ng/mL
NEtFOSA	80 ng/mL	NEtFOSAA	80 ng/mL
NEtFOSE	110 ng/mL	NFDHA	292 ng/mL
NMeFOSA	120 ng/mL	NMeFOSAA	75 ng/mL
NMeFOSE	150 ng/mL	PFBA	192 ng/mL
PFBS	138 ng/mL	PFDA	103 ng/mL
PFDS	177 ng/mL	PFDoA	147 ng/mL
PFDoS	186 ng/mL	PFEESA	116 ng/mL
PFHpA	117 ng/mL	PFHpS	47.6 ng/mL
PFHxA	113 ng/mL	PFHxS	94 ng/mL
PFMBA	325 ng/mL	PFMPA	300 ng/mL
PFNA	48.3 ng/mL	PFNS	27.2 ng/mL
PFOA	175 ng/mL	PFOS	162 ng/mL
PFOSA	73.3 ng/mL	PFPeA	375 ng/mL
PFPeS	128 ng/mL	PFPrA	264 ng/mL
PFTeDA	96.7 ng/mL	PFTrDA	123 ng/mL
PFUnA	71.7 ng/mL	TFSI	247 ng/mL

Standard Log Report

Standards Log Information for Standard #496878

INDIVIDUAL STANDARD

Created By:	SMK	**Volume of Standard:**	1 mL	**Lot ID:**	1023233
Create Date:	01/28/2025	**Manufacturer:**	Accu Standard	**Part ID:**	N/A
Expire Date:	08/30/2025	**Manufacturer Lot ID:**	224061564	**Standard ID:**	TFSI-STK

Notes:

1633F PFOS-030S 24013-157

Compound Name and Concentration for Standard #496878

Compound Name	Concentration	Compound Name	Concentration
HQ-115	101.5 ug/mL	TFSI	101.5 ug/mL

Standard Log Report

Standards Log Information for Standard #496877

INDIVIDUAL STANDARD

Created By:	SMK	**Volume of Standard:**	1.2 mL	**Lot ID:**	1023158
Create Date:	01/28/2025	**Manufacturer:**	Wellington	**Part ID:**	N/A
Expire Date:	11/20/2029	**Manufacturer Lot ID:**	PFPrA1124	**Standard ID:**	PFPrA-STK

Notes:

1633F PFPrA-STK Standard 24280-028

Compound Name and Concentration for Standard #496877

Compound Name	Concentration	Compound Name	Concentration
PFPrA	50000 ng/mL		

Standard Log Report

Standards Log Information for Standard #494875

STOCK STANDARD

Created By:	SMK	**Volume of Standard:**	500 mL	**Lot ID:**	244097
Create Date:	01/07/2025	**Manufacturer:**	FISHER Chemical	**Part ID:**	N/A
Expire Date:	10/31/2029	**Manufacturer Lot ID:**	244097	**Standard ID:**	RGNT144

Notes:

PFAS Glacial Acetic Acid 244097

Compound Name and Concentration for Standard #494875

Compound Name	Concentration	Compound Name	Concentration
Glacial Acetic Acid			

Standard Log Report

Standards Log Information for Standard #491642

INDIVIDUAL STANDARD

Created By:	KDN	**Volume of Standard:**	6 L	**Lot ID:**	242452
Create Date:	12/04/2024	**Manufacturer:**	FISHER Chemical	**Part ID:**	N/A
Expire Date:	05/31/2026	**Manufacturer Lot ID:**	242452	**Standard ID:**	RGNT055

Notes:

Ammonium Hydroxide

Compound Name and Concentration for Standard #491642

Compound Name	Concentration	Compound Name	Concentration
Ammonium Hydroxide			

Standard Log Report

Standards Log Information for Standard #488110

STOCK STANDARD

Created By:	SMK	**Volume of Standard:**	4000 mL	**Lot ID:**	MPLS Millipore
Create Date:	11/01/2024	**Manufacturer:**	PACE	**Part ID:**	NA
Expire Date:	10/30/2034	**Manufacturer Lot ID:**	Millipore Water	**Standard ID:**	RGNT340

Notes:

DI WATER. SmartPak and UV lamp changed 10/30/24. UV: F4KB73022. SmartPak: F4MB84795

Compound Name and Concentration for Standard #488110

Compound Name	Concentration	Compound Name	Concentration
Water, Type I			

24280-028
rec 1/10/25
SMK

1023168
REC. 01/10/25 BY SMK
Exp. --/--/-- By --
Open --/--/-- By --

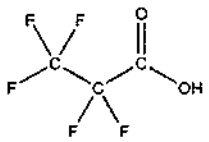
TEST LIMS

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: PFPrA
COMPOUND: Perfluoropropanoic acid
LOT NUMBER: PFPrA1124

STRUCTURE:



CAS #: 422-64-0

MOLECULAR FORMULA: $C_3HF_5O_2$
CONCENTRATION: 50.0 ± 2.5 µg/mL
MOLECULAR WEIGHT: 164.03
SOLVENT(S): Methanol
Water (<1%)

CHEMICAL PURITY: >98%
LAST TESTED: (mm/dd/yyyy) 11/20/2024
EXPIRY DATE: (mm/dd/yyyy) 11/20/2029
RECOMMENDED STORAGE: Store ampoule in a cool, dark place

DOCUMENTATION/ DATA ATTACHED:

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

ADDITIONAL INFORMATION:

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

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 01/07/2025 (mm/dd/yyyy)
B.G. Chittim, General Manager

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

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

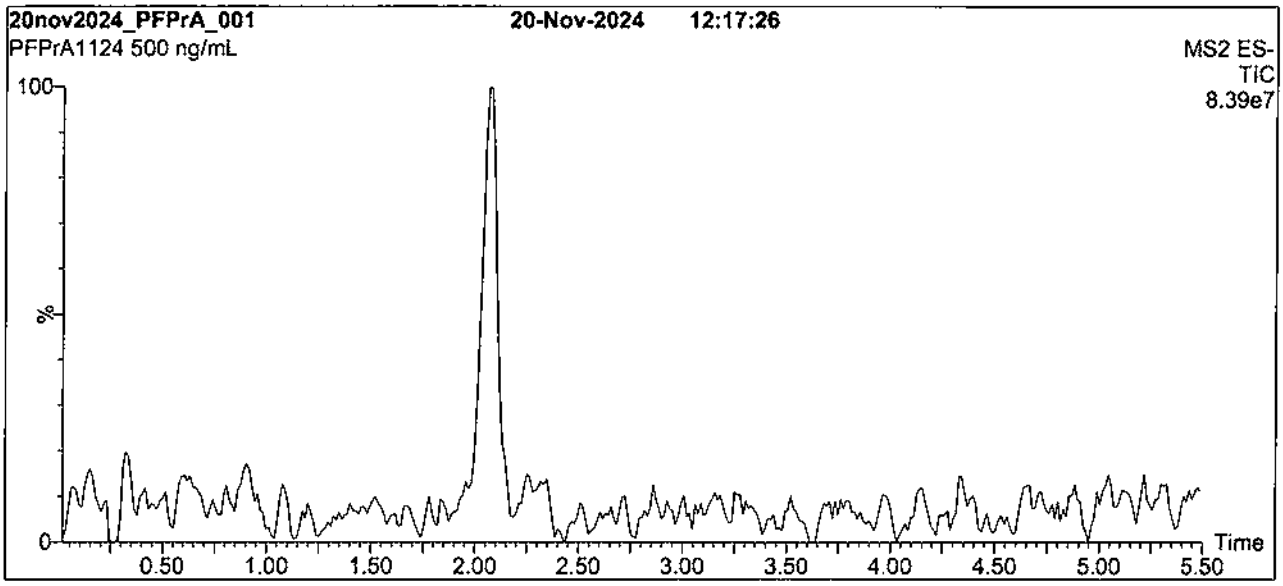
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

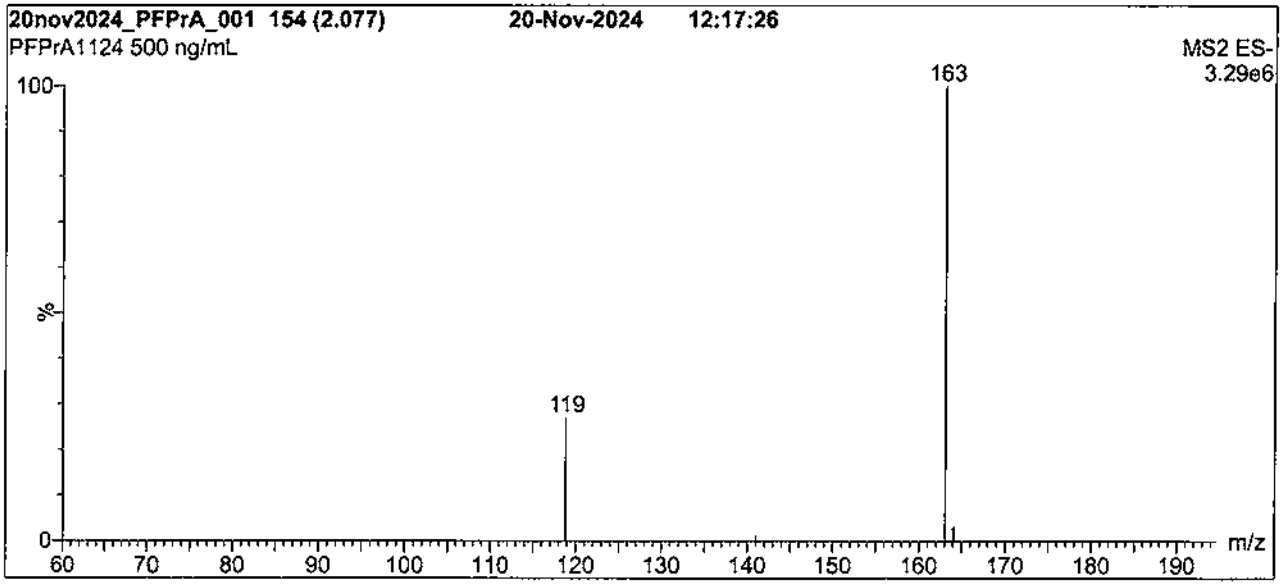
CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **PFPrA; LC/MS Data (Full Scan and Mass Spectrum)**





Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Restek Raptor Polar X
2.7 µm, 2.1 x 50 mm

Mobile phase: Gradient
Start: 50% H_2O (with 10 mM NH_4COOH buffer)
50% (60:40 ACN:MeOH)
(both with 0.05% formic acid)
Ramp to 90% organic over 7 min and hold for 1 min before returning to initial conditions in 0.5 min.
Time: 10 min

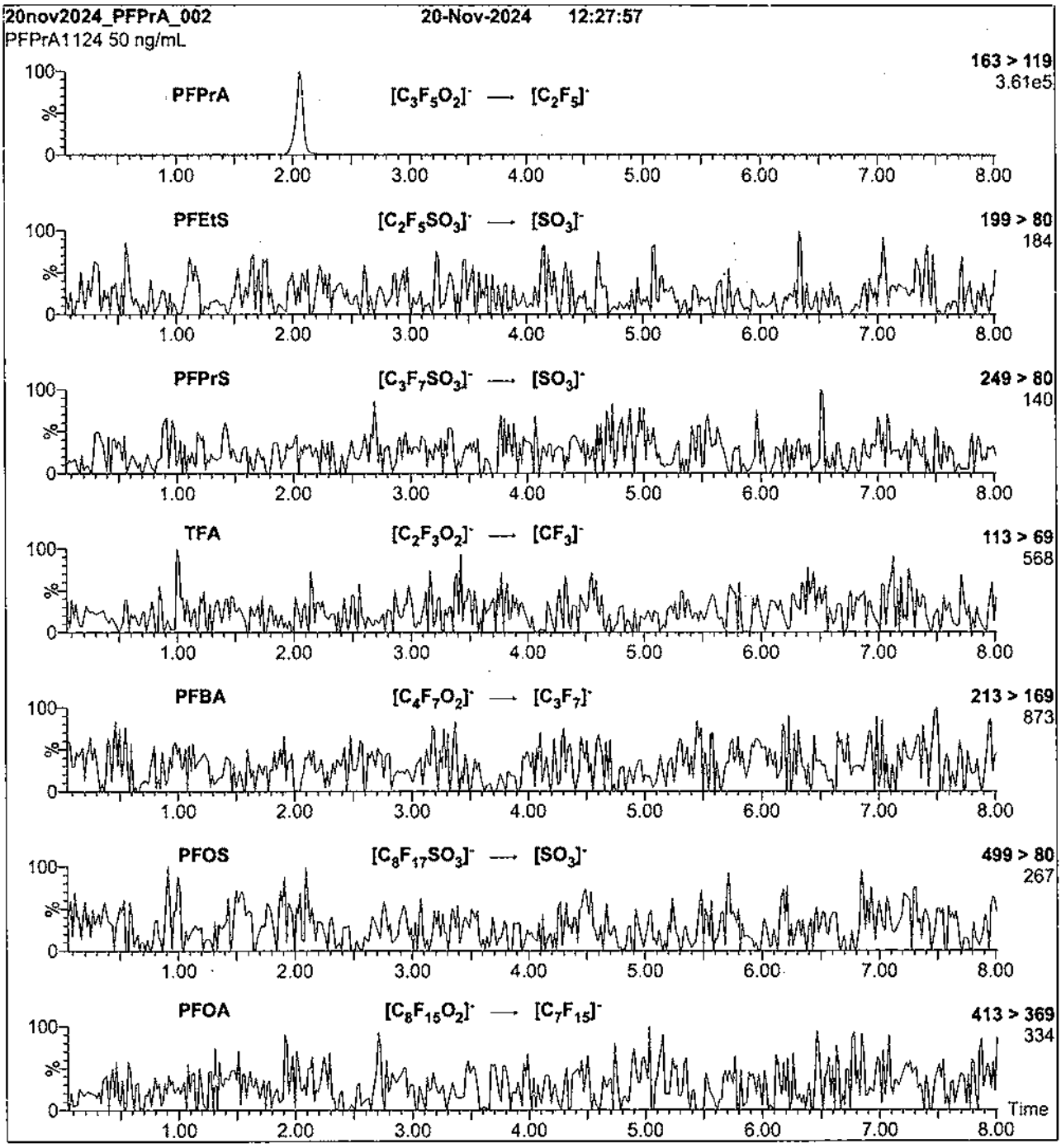
Flow: 300 µL/min

MS Parameters:

Experiment: Full Scan (60 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = 10.00
Desolvation Temperature (°C) = 500
Desolvation Gas Flow (L/hr) = 1000

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



Conditions for Figure 2:

Injection: On-column (PFPrA)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 6.40e-3
Collision Energy (eV) = 8

2220 ① SMK 11/4/24
24013-157 rcc 8/28/24 QLL

125 Market Street
New Haven, CT 06511
USA

AccuStandard, Inc.

Tel: (203) 786-5290
Fax: (203) 786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: PFOS-030S
Description: Bis(trifluoromethane)sulfonimide lithium salt (HQ-115)
Lot: 224061564
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Jun 27, 2024
Expiration: Jul 27, 2026
Sample Size: 1 mL
Components: 1
Storage Condition: Freeze (< -10 °C)

Certified Reference Material

ANAB AR-1463 H2G-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Bis(trifluoromethane)sulfonimide lithium salt	90076-65-6	97.0	104.6[4]	101.5

Re-logged into live LIMS:
-Standard ID = 496878
-Lab Lot ID = 1023233
JHT 01.29.2025

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

[1] Weight compensated to 100% purity

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix

[2] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4% and was determined in accordance with ISO 17034. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[3] All weights are traceable through NIST Test No. 684/291344-18 & 684/292805-19

[4] Purity/identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point

Labels and certificates follow U.S. Conventions in reporting numerical values. A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements
   Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_c = \sqrt{u(V)^2 + u(m)^2 + u(lts)^2 + u(lts)^2 + u(RO)^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of $k=2$ is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

24280-075
rec 2/11/25
SMK

1023340
REC. 02/18/25 BY SMK
Bkgd. --/--/-- By --
Oban --/--/-- By --

Certified Reference Material

▪ Certificate of Analysis ▪

Product:	WatR™ Pollution PFAS in Wastewater
Catalog Number:	404
Lot No.	P336-404
Certificate Issue Date:	March 13, 2023
Expiration Date:	December 12, 2025
Revision Number:	1.0
Revision Date:	April 18, 2023

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #404 revision 123022.

Parameter	Certified Value[1]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	ng/L	%	ng/L	ng/L
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	259	10.0	190 - 329	155 - 363
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	381	9.32	279 - 484	229 - 533
4,8-dioxa-3H-perfluorononanoic acid (DONA)	283	9.41	207 - 359	170 - 396
N-Ethylperfluorooctanesulfonamide (NEtFOSA)	80.0	9.36	58.6 - 102	48.0 - 112
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	80.0	9.36	58.6 - 102	48.0 - 112
N-Ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	110	15.6	80.6 - 140	66.0 - 154
Hexafluoropropylene oxide dimer acid (HFPO-DA)	367	9.35	269 - 466	220 - 514
N-Methylperfluorooctanesulfonamide (NMeFOSA)	120	9.38	88.0 - 152	72.0 - 168
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	75.0	9.36	55.0 - 95.2	45.0 - 105
N-Methylperfluorooctanesulfonamidoethanol (NMeFOSE)	150	16.2	110 - 190	90.0 - 210
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	292	9.35	214 - 371	175 - 409
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	224	13.1	164 - 284	134 - 314

16341 Table Mountain Pkwy • Golden, CO 80403 • T: 800.372.0122 • 303.431.8454 • www.eraqc.com

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	ng/L	%	ng/L	ng/L
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	131	9.40	96.0 - 166	78.6 - 183
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	152	12.5	111 - 193	91.2 - 213
2H-perfluoro-2-decenoic acid (FOUEA)	120	9.77	88.0 - 152	72.0 - 168
2H-perfluoro-2-octenoic acid (FHUEA)	53.3	9.57	39.1 - 67.7	32.0 - 74.6
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	300	9.35	220 - 381	180 - 420
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	392	9.35	287 - 498	235 - 549
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	333	9.35	244 - 423	200 - 466
Perfluorobutanesulfonic acid (PFBS)	138	12.0	101 - 175	82.8 - 193
Perfluorobutanoic acid (PFBA)	192	9.52	141 - 244	115 - 269
Perfluorodecane sulfonic acid (PFDS)	177	10.9	130 - 225	106 - 248
Perfluorodecanoic acid (PFDA)	103	9.38	75.5 - 131	61.8 - 144
Perfluorododecanesulfonic acid (PFDoS)	186	9.33	136 - 236	112 - 260
Perfluorododecanoic acid (PFDoA)	147	9.38	108 - 187	88.2 - 206
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	116	9.34	85.0 - 147	69.6 - 162
Perfluoroheptane sulfonic acid (PFHpS)	47.6	9.72	34.9 - 60.5	28.6 - 66.6
Perfluoroheptanoic acid (PFHpA)	117	8.34	85.8 - 149	70.2 - 164
Perfluorohexanesulfonic acid (PFHxS)	94.0	6.22	68.9 - 119	56.4 - 132
Perfluorohexanoic acid (PFHxA)	113	8.98	82.8 - 144	67.8 - 158
Perfluoro-4-methoxybutanoic acid (PFMBA)	325	9.35	238 - 413	195 - 455

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	ng/L	%	ng/L	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	300	9.56	220 - 381	180 - 420
Perfluorononane sulfonic acid (PFNS)	27.2	10.1	19.9 - 34.5	16.3 - 38.1
Perfluorononanoic acid (PFNA)	48.3	9.69	35.4 - 61.3	29.0 - 67.6
Perfluorooctanesulfonamide (PFOSA)	73.3	8.05	53.7 - 93.1	44.0 - 103
Perfluorooctanesulfonic acid (PFOS)	162	7.14	119 - 206	97.2 - 227
Perfluorooctanoic acid (PFOA)	175	9.68	128 - 222	105 - 245
Perfluoropentane sulfonic acid (PFPeS)	128	9.32	93.8 - 163	76.8 - 179
Perfluoropentanoic acid (PFPeA)	375	9.37	275 - 476	225 - 525
Pentafluoropropanoic acid (PFPrA)	264	7.92	194 - 335	158 - 370
Perfluorotetradecanoic acid (PFTDA)	96.7	9.38	70.9 - 123	58.0 - 135
Perfluorotridecanoic acid (PFTrDA)	123	9.47	90.2 - 156	73.8 - 172
Perfluoroundecanoic acid (PFUnA)	71.7	9.36	52.6 - 91.1	43.0 - 100
Bis(trifluoromethane)sulfonimide	247	7.94	181 - 314	148 - 346

ADDITIONAL ASSESSMENT

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	ng/L	ng/L	%			%
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	259	235	90.6	45	-	-
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	381	338	88.7	45	-	-
4,8-dioxa-3H-perfluorononanoic acid (DONA)	283	261	92.3	46	-	-
N-Ethylperfluorooctanesulfonamide (NEtFOSA)	80.0	72.4	90.5	34	-	-

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	ng/L	ng/L	%			%
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	80.0	74.2	92.7	45	-	-
N-Ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	110	103	93.9	34	-	-
Hexafluoropropylene oxide dimer acid (HFPO-DA)	367	351	95.5	46	-	-
N-Methylperfluorooctanesulfonamide (NMeFOSA)	120	110	91.9	37	-	-
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	75.0	68.7	91.6	44	-	-
N-Methylperfluorooctanesulfonamidoethanol (NMeFOSE)	150	140	93.6	34	-	-
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	292	262	89.6	34	-	-
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	224	209	93.3	46	-	-
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	131	120	91.4	45	-	-
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	152	143	94.4	45	-	-
2H-perfluoro-2-decenoic acid (FOUEA)	120	97.6	81.3	4	-	-
2H-perfluoro-2-octenoic acid (FHUEA)	53.3	44.6	83.7	4	-	-
2H, 2H, 3H, 3H-perfluorodecanoic acid (7:3 FTCA)	300	273	91.1	29	-	-
2H, 2H, 3H, 3H-perfluorohexanoic acid (3:3 FTCA)	392	363	92.5	29	-	-
2H, 2H, 3H, 3H-perfluorooctanoic acid (5:3 FTCA)	333	316	94.8	29	-	-

16341 Table Mountain Pkwy • Golden, CO 80403 • T: 800.372.0122 • 303.431.8454 • www.eraqc.com

Certified Reference Material

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	ng/L	ng/L	%			%
Perfluorobutanesulfonic acid (PFBS)	138	126	91.4	49	-	-
Perfluorobutanoic acid (PFBA)	192	180	93.5	46	-	-
Perfluorodecane sulfonic acid (PFDS)	177	164	92.5	44	-	-
Perfluorodecanoic acid (PFDA)	103	99.1	96.2	48	-	-
Perfluorododecanesulfonic acid (PFDoS)	186	171	92.1	33	-	-
Perfluorododecanoic acid (PFDoA)	147	141	95.9	47	-	-
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	116	110	94.7	33	-	-
Perfluoroheptane sulfonic acid (PFHpS)	47.6	45.3	95.2	44	-	-
Perfluoroheptanoic acid (PFHpA)	117	109	92.9	48	-	-
Perfluorohexanesulfonic acid (PFHxS)	94.0	86.2	91.7	49	-	-
Perfluorohexanoic acid (PFHxA)	113	107	94.8	49	-	-
Perfluoro-4-methoxybutanoic acid (PFMBA)	325	309	95.2	34	-	-
Perfluoro-3-methoxypropanoic acid (PFMPA)	300	279	93.1	34	-	-
Perfluorononane sulfonic acid (PFNS)	27.2	26.2	96.2	42	-	-
Perfluorononanoic acid (PFNA)	48.3	46.3	95.9	48	-	-
Perfluorooctanesulfonamide (PFOSA)	73.3	65.9	90.0	42	-	-
Perfluorooctanesulfonic acid (PFOS)	162	154	95.3	50	-	-
Perfluorooctanoic acid (PFOA)	175	167	95.4	50	-	-
Perfluoropentane sulfonic acid (PFPeS)	128	122	95.1	45	-	-
Perfluoropentanoic acid (PFPeA)	375	349	93.1	46	-	-
Pentafluoropropanoic acid (PFPrA)	264	220	83.5	6	-	-

16341 Table Mountain Pkwy • Golden, CO 80403 • T: 800.372.0122 • 303.431.8454 • www.eraqc.com

Certified Reference Material

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	ng/L	ng/L	%			%
Perfluorotetradecanoic acid (PFTDA)	96.7	88.0	91.0	45	-	-
Perfluorotridecanoic acid (PFTrDA)	123	115	93.3	45	-	-
Perfluoroundecanoic acid (PFUnA)	71.7	69.1	96.3	48	-	-
Bis(trifluoromethane)sulfonimide	247	241	97.6	1	-	-

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Certified Reference Material

▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery** (%) = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

8. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Senior Technical Manager

Craig Huff

ACCREDITED ACCREDITED

16341 Table Mountain Pkwy • Golden, CO 80403 • T: 800.372.0122 • 303.431.8454 • www.eraqc.com

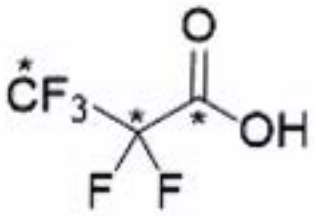
Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover, MA 01810 USA

1023691
REC 04/28/25 BY SMK
Exp. --/--/-- By --
Open --/--/-- By --

24280-130
rec 4/28/25
SMK

Certificate of Analysis

Perfluoropropanoic acid (PFPrA) ($^{13}C_3$,99%) 50 µg/mL in MeOH w/4 molar equivalents NaOH



Catalog #:	CLM-11324-A-S
Batch #:	**B003784**
Chemical Formula:	*C3HF5O2
Molecular Weight:	167.01
Labeled CAS #:	NA
Unlabeled CAS #:	422-64-0
Manufacture Date:	4/9/2025
Retest Date:	4/8/2030

Storage: Store at room temperature away from light and moisture.

Intended Use: For Research Use Only. Not for use in diagnostic procedures.

Quality Control Tests and Results

Test	Specification	Result
Concentration Based on Gravimetry	50 ± 5 µg/mL	50.0 ± 0.4 µg/mL, (k=2)

Certification

- Cambridge Isotope Laboratories, Inc. certifies that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible. Results are representative of QC testing at time of release from Quality Control unless otherwise stated. The COA also applies to the CIL finished good catalog number. Some possible packaging sizes and their corresponding suffix are -1.2, -1, -0.5, -10, or -0.1. The expiration date is valid only for unopened vials or ampoules that have been stored as recommended. CIL Certificates of Analysis are occasionally updated with new data following recertification. We recommend checking the website for the latest version.
- Gravimetric concentrations are compensated for the measured Chemical Purity of the neat material. Gravimetry is traceable to the NIST through calibrated balances and certified, calibrated, standard weights. The calibrations are traceable to the SI through NIST. The calibrations also meet specifications outlined in ISO 17034, ISO/IEC 17025, and applicable subdocuments.
- For compounds that are enriched at 2 or more sites within the molecule, the value given for isotopic enrichment will be different from the percent species abundance of the fully enriched molecule. To learn more about isotopic enrichment and species abundance, please visit https://isotope.com/en-us/enrichment.
- Concentration is verified through multiple analysis and is calculated as the average of the multiple analysis compared to an independently prepared calibration solution. The calculation and reporting of uncertainty conforms to the practices outlined in the Eurachem/CITAC Guide. "Quantifying Uncertainty in Analytical Measurement", Second Edition.

Marina Kleinsky
Quality Review

Date: 4/23/2025

Revision 1

24280-134
rec 5/1/25
SMK

1023715
REC. 25/01/28 BY SMK
Exp. __/__/__ By __
Open __/__/__ By __

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1633STK

U.S. EPA Method 1633
Native PFAS Stock Solution/Mixture

PRODUCT CODE:	EPA-1633STK
LOT NUMBER:	1633STK0125
SOLVENT(S):	Methanol/Isopropanol (0.5%)/Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	01/22/2025
LAST TESTED: (mm/dd/yyyy)	01/27/2025
EXPIRY DATE: (mm/dd/yyyy)	01/27/2029
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

EPA-1633STK is a solution/mixture of native perfluoroalkylcarboxylic acids (C_4-C_7, C_{10}-C_{14} linear; C_8 and C_9 linear and branched), perfluoroalkanesulfonates (C_4, C_5, C_7, C_9, C_{10}, and C_{12} linear; C_6 and C_8 linear and branched), fluorotelomer sulfonates (4:2, 6:2, and 8:2), perfluorooctanesulfonamides (linear and branched), perfluorooctanesulfonamidoacetic acids (linear and branched), perfluorooctanesulfonamidoethanols (linear and branched), hexafluoropropylene oxide dimer acid (GenX, HFPO-DA), sodium dodecafluoro-3H-4,8-dioxanonanoate (NaDONA), perfluoroalkyl ether carboxylic acids (PF4OPeA, PF5OHxA, and 3,6-OPFHpA), the major and minor components of F-53B (9Cl-PF3ONS and 11Cl-PF3OUdS), a perfluoroalkyl ether sulfonate (PFEESA), and fluorotelomer carboxylic acids. The components and their concentrations are given in Table A.

The individual components of this mixture all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Table B: Isomeric Composition of PFOA
Table C: Isomeric Composition of PFNA
Table D: Isomeric Composition of FOSA
Table E: Isomeric Composition of N-MeFOSA
Table F: Isomeric Composition of N-EtFOSA
Table G: Isomeric Composition of N-MeFOSAA
Table H: Isomeric Composition of N-EtFOSAA
Table I: Isomeric Composition of N-MeFOSE
Table J: Isomeric Composition of N-EtFOSE
Table K: Isomeric Composition of PFHxSK
Table L: Isomeric Composition of PFOSK
Figure 1: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.
- It is recommended to integrate and quantify the linear and branched isomers separately as their response factors can vary depending on optimized acquisition parameters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

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

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots or equivalent products in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2,...x_n$ on which it depends is:

$$u_c(y(x_1, x_2,...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1633STK; Components and Concentrations (ng/mL, ± 5% in methanol/isopropanol (0.5%)/water (<1%))**

Compound	Acronym	CAS #	Concentration* (ng/mL)	
Perfluoro-n-butanoic acid	PFBA	375-22-4	1000	
Perfluoro-n-pentanoic acid	PFPeA	2706-90-3	500	
Perfluoro-n-hexanoic acid	PFHxA	307-24-4	250	
Perfluoro-n-heptanoic acid	PFHpA	375-85-9	250	
Perfluorooctanoic acid[a]	PFOA: linear isomer	335-67-1	250	166
	PFOA: ∑ branched isomers	-		84.3
Perfluorononanoic acid[b]	PFNA: linear isomer	375-95-1	250	163
	PFNA: ∑ branched isomers	-		86.8
Perfluoro-n-decanoic acid	PFDA	335-76-2	250	
Perfluoro-n-undecanoic acid	PFUdA	2058-94-8	250	
Perfluoro-n-dodecanoic acid	PFDoA	307-55-1	250	
Perfluoro-n-tridecanoic acid	PFTrDA	72629-94-8	250	
Perfluoro-n-tetradecanoic acid	PFTeDA	376-06-7	250	
Perfluorooctanesulfonamide[c]	FOSA: linear isomer	754-91-6	250	167
	FOSA: ∑ branched isomers	-		84.0
N-Methylperfluorooctanesulfonamide[d]	N-MeFOSA: linear isomer	31506-32-8	250	181
	N-MeFOSA: ∑ branched isomers	-		69.1
N-Ethylperfluorooctanesulfonamide[e]	N-EtFOSA: linear isomer	4151-50-2	250	186
	N-EtFOSA: ∑ branched isomers	-		65.5
N-Methylperfluorooctanesulfonamidoacetic acid[f]	N-MeFOSAA: linear isomer	2355-31-9	250	190
	N-MeFOSAA: ∑ branched isomers	-		60.0
N-Ethylperfluorooctanesulfonamidoacetic acid[g]	N-EtFOSAA: linear isomer	2991-50-6	250	194
	N-EtFOSAA: ∑ branched isomers	-		56.3
2-(N-Methylperfluorooctanesulfonamido)ethanol[h]	N-MeFOSE: linear isomer	24448-09-7	2500	1690
	N-MeFOSE: ∑ branched isomers	-		813
2-(N-Ethylperfluorooctanesulfonamido)ethanol[i]	N-EtFOSE: linear isomer	1691-99-2	2500	1620
	N-EtFOSE: ∑ branched isomers	-		888
rac-2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid	HFPO-DA	13252-13-6	1000	
Perfluoro-4-oxapentanoic acid	PF4OPeA	377-73-1	500	
Perfluoro-5-oxahexanoic acid	PF5OHxA	863090-89-5	500	
Perfluoro-3,6-dioxaheptanoic acid	3,6-OPFHpA	151772-58-6	500	
3-Perfluoropropyl propanoic acid	FPrPA	356-02-5	1250	
3-Perfluoropentyl propanoic acid	FPePA	914637-49-3	6250	
3-Perfluoroheptyl propanoic acid	FHpPA	812-70-4	6250	

* Concentrations have been rounded to three significant figures.

[a] See Table B for percent composition of linear and branched PFOA isomers.
[b] See Table C for percent composition of linear and branched PFNA isomers.
[c] See Table D for percent composition of linear and branched FOSA isomers
[d] See Table E for percent composition of linear and branched N-MeFOSA isomers.
[e] See Table F for percent composition of linear and branched N-EtFOSA isomers.
[f] See Table G for percent composition of linear and branched N-MeFOSAA isomers.
[g] See Table H for percent composition of linear and branched N-EtFOSAA isomers.
[h] See Table I for percent composition of linear and branched N-MeFOSE isomers.
[i] See Table J for percent composition of linear and branched N-EtFOSE isomers.

Table A: **EPA-1633STK; Components and Concentrations (ng/mL, ± 5% in methanol/isopropanol (0.5%)/water (<1%))**

Compound	Acronym	CAS #	Concentration* (ng/mL)		
			as the salt		as the acid
Potassium perfluoro-1-butanesulfonate	L-PFBS	29420-49-3	250		222
Sodium perfluoro-1-pentanesulfonate	L-PFPeS	630402-22-1	250		235
Potassium perfluorohexanesulfonate[1]	PFHxSK: linear isomer	3871-99-6	250	203	185
	PFHxSK: ∑ branched isomers	-		47.3	43.1
Sodium perfluoro-1-heptanesulfonate	L-PFHpS	21934-50-9	250		238
Potassium perfluorooctanesulfonate[2]	PFOSK: linear isomer	2795-39-3	250	197	183
	PFOSK: ∑ branched isomers	-		52.8	49.0
Sodium perfluoro-1-nonanesulfonate	L-PFNS	98789-57-2	250		240
Sodium perfluoro-1-decanesulfonate	L-PFDS	2806-15-7	250		241
Sodium perfluoro-1-dodecanesulfonate	L-PFDoS	1260224-54-1	250		242
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate	4:2FTS	27619-93-8	1000		937
Sodium 1H,1H,2H,2H-perfluorooctanesulfonate	6:2FTS	27619-94-9	1000		951
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate	8:2FTS	27619-96-1	1000		960
Sodium *rac*-dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	2250081-67-3	1000		945
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9Cl-PF3ONS	73606-19-6	1000		933
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate	11Cl-PF3OUdS	83329-89-9	1000		943
Potassium perfluoro(2-ethoxyethane)sulfonate	PFEESA	117205-07-9	500		446

* Concentrations have been rounded to three significant figures.

[1] See Table K for percent composition of linear and branched PFHxSK isomers.
[2] See Table L for percent composition of linear and branched PFOSK isomers.

Certified By: _____ **Date:** 01/28/2025
(mm/dd/yyyy)
B.G. Chittim, General Manager

Table B: **PFOA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	Perfluoro-n-octanoic acid	66.3	66.3
2	Perfluoro-3-methylheptanoic acid	5.0	33.7
3	Perfluoro-4-methylheptanoic acid	6.9	
4	Perfluoro-5-methylheptanoic acid	7.2	
5	Perfluoro-6-methylheptanoic acid	13.3	
6	Perfluoro-5,5-dimethylhexanoic acid	0.4	
7	Perfluoro-4,5-dimethylhexanoic acid	0.5	
8	Perfluoro-3,5-dimethylhexanoic acid	0.2	
9	Perfluoro-4,4-dimethylhexanoic acid	0.2	
10	Perfluoro-3,3-dimethylhexanoic acid		

* Percent of total perfluorooctanoic acid isomers only.

Table C: **PFNA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	Perfluoro-n-nonanoic acid	65.2	65.2
2	Perfluoro-4-methyloctanoic acid	5.7	34.7
3	Perfluoro-5-methyloctanoic acid	4.9	
4	Perfluoro-6-methyloctanoic acid	8.1	
5	Perfluoro-7-methyloctanoic acid	14.6	
6	Perfluoro-6,6-dimethylheptanoic acid	0.4	
7	Unknown Double Branched Isomers	1.0	

* Percent of total perfluorononanoic acid isomers only.

Table D: **FOSA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	Perfluoro-1-octanesulfonamide	66.6	66.6
2	Perfluoro-1-methyl-1-heptanesulfonamide**	0.8	33.6
3	Perfluoro-2-methyl-1-heptanesulfonamide	0.3	
4	Perfluoro-3-methyl-1-heptanesulfonamide	4.2	
5	Perfluoro-4-methyl-1-heptanesulfonamide	3.5	
6	Perfluoro-5-methyl-1-heptanesulfonamide	7.8	
7	Perfluoro-6-methyl-1-heptanesulfonamide	16.8	
8	Perfluoro-5,5-dimethyl-1-hexanesulfonamide	0.2	

* Percent of total perfluorooctanesulfonamide isomers only.
** Systematic Name: Perfluoro-2-octanesulfonamide.

Table E: **N-MeFOSA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	N-Methylperfluoro-1-octanesulfonamide	72.3	72.3
2	N-Methylperfluoro-3-methyl-1-heptanesulfonamide	2.1	27.6
3	N-Methylperfluoro-4-methyl-1-heptanesulfonamide	2.6	
4	N-Methylperfluoro-5-methyl-1-heptanesulfonamide	6.7	
5	N-Methylperfluoro-6-methyl-1-heptanesulfonamide	16.2	
6	N-Methylperfluoro-5,5-dimethyl-1-hexanesulfonamide	0.04	

* Percent of total N-methylperfluorooctanesulfonamide isomers only.

Table F: **N-EtFOSA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	N-Ethylperfluoro-1-octanesulfonamide	73.8	73.8
2	N-Ethylperfluoro-1-methyl-1-heptanesulfonamide**	0.1	26.2
3	N-Ethylperfluoro-3-methyl-1-heptanesulfonamide	2.3	
4	N-Ethylperfluoro-4-methyl-1-heptanesulfonamide	2.6	
5	N-Ethylperfluoro-5-methyl-1-heptanesulfonamide	6.2	
6	N-Ethylperfluoro-6-methyl-1-heptanesulfonamide	14.8	
7	N-Ethylperfluoro-5,5-dimethyl-1-hexanesulfonamide	0.2	

* Percent of total N-ethylperfluorooctanesulfonamide isomers only.
** Systemative Name: N-Ethylperfluoro-2-octanesulfonamide.

Table G: **N-MeFOSAA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	N-Methylperfluoro-1-octanesulfonamidoacetic acid	76.0	76.0
2	N-Methylperfluoro-3-methyl-1-heptanesulfonamidoacetic acid	0.7	24.0
3	N-Methylperfluoro-4-methyl-1-heptanesulfonamidoacetic acid	2.0	
4	N-Methylperfluoro-5-methyl-1-heptanesulfonamidoacetic acid	6.0	
5	N-Methylperfluoro-6-methyl-1-heptanesulfonamidoacetic acid	14.0	
6	N-Methylperfluoro-5,5-dimethyl-1-hexanesulfonamidoacetic acid	0.2	
7	Other Unidentified Isomers	1.1	

* Percent of total N-methylperfluorooctanesulfonamidoacetic acid isomers only.

Table H: **N-EtFOSAA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	N-Ethylperfluoro-1-octanesulfonamidoacetic acid	77.5	77.5
2	N-Ethylperfluoro-3-methyl-1-heptanesulfonamidoacetic acid	2.3	22.5
3	N-Ethylperfluoro-4-methyl-1-heptanesulfonamidoacetic acid	2.2	
4	N-Ethylperfluoro-5-methyl-1-heptanesulfonamidoacetic acid	5.4	
5	N-Ethylperfluoro-6-methyl-1-heptanesulfonamidoacetic acid	10.4	
6	N-Ethylperfluoro-5,5-dimethyl-1-hexanesulfonamidoacetic acid	0.3	
7	N-Ethylperfluoro-4,5-dimethyl-1-hexanesulfonamidoacetic acid	0.3	
8	N-Ethylperfluoro-3,5-dimethyl-1-hexanesulfonamidoacetic acid	0.3	
9	Other Unidentified Isomers	1.3	

* Percent of total N-ethylperfluorooctanesulfonamidoacetic acid isomers only.

Table I: **N-MeFOSE; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	2-(N-Methylperfluoro-1-octanesulfonamido)ethanol	67.6	67.6
2	2-(N-Methylperfluoro-3-methyl-1-heptanesulfonamido)ethanol	3.9	32.5
3	2-(N-Methylperfluoro-4-methyl-1-heptanesulfonamido)ethanol	3.2	
4	2-(N-Methylperfluoro-5-methyl-1-heptanesulfonamido)ethanol	7.7	
5	2-(N-Methylperfluoro-6-methyl-1-heptanesulfonamido)ethanol	17.5	
6	2-(N-Methylperfluoro-5,5-dimethyl-1-hexanesulfonamido)ethanol	0.2	

* Percent of total 2-(N-methylperfluorooctanesulfonamido)ethanol isomers only.

Table J: **N-EtFOSE; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	2-(N-Ethylperfluoro-1-octanesulfonamido)ethanol	64.6	64.6
2	2-(N-Ethylperfluoro-2-methyl-1-heptanesulfonamido)ethanol	0.2	35.5
3	2-(N-Ethylperfluoro-3-methyl-1-heptanesulfonamido)ethanol	4.1	
4	2-(N-Ethylperfluoro-4-methyl-1-heptanesulfonamido)ethanol	4.3	
5	2-(N-Ethylperfluoro-5-methyl-1-heptanesulfonamido)ethanol	8.8	
6	2-(N-Ethylperfluoro-6-methyl-1-heptanesulfonamido)ethanol	17.8	
7	2-(N-Ethylperfluoro-5,5-dimethyl-1-hexanesulfonamido)ethanol	0.3	

* Percent of total 2-(N-ethylperfluorooctanesulfonamido)ethanol isomers only.

Table K: **PFHxSK; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	Potassium perfluoro-1-hexanesulfonate	81.1	81.1
2	Potassium perfluoro-1-methyl-1-pentanesulfonate**	2.9	18.9
3	Potassium perfluoro-2-methyl-1-pentanesulfonate	1.4	
4	Potassium perfluoro-3-methyl-1-pentanesulfonate	5.0	
5	Potassium perfluoro-4-methyl-1-pentanesulfonate	8.9	
6	Potassium perfluoro-3,3-dimethyl-1-butanesulfonate	0.2	
7	Other Unidentified Isomers	0.5	

* Percent of total perfluorohexanesulfonate isomers only.
** Systematic Name: Potassium perfluorohexane-2-sulfonate.

Table L: **PFOSK; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Percent Composition by ^{19}F-NMR	
1	Potassium perfluoro-1-octanesulfonate	78.8	78.8
2	Potassium perfluoro-1-methyl-1-heptanesulfonate**	1.2	21.1
3	Potassium perfluoro-2-methyl-1-heptanesulfonate	0.6	
4	Potassium perfluoro-3-methyl-1-heptanesulfonate	1.9	
5	Potassium perfluoro-4-methyl-1-heptanesulfonate	2.2	
6	Potassium perfluoro-5-methyl-1-heptanesulfonate	4.5	
7	Potassium perfluoro-6-methyl-1-heptanesulfonate	10.0	
8	Potassium perfluoro-5,5-dimethyl-1-hexanesulfonate	0.2	
9	Potassium perfluoro-4,4-dimethyl-1-hexanesulfonate	0.03	
10	Potassium perfluoro-4,5-dimethyl-1-hexanesulfonate	0.4	
11	Potassium perfluoro-3,5-dimethyl-1-hexanesulfonate	0.07	

* Percent of total perfluorooctanesulfonate isomers only.
** Systematic Name: Potassium perfluoro-2-octanesulfonate.

Figure 1: EPA-1633STK; LC/MS/MS Data (Selected MRM Transitions)

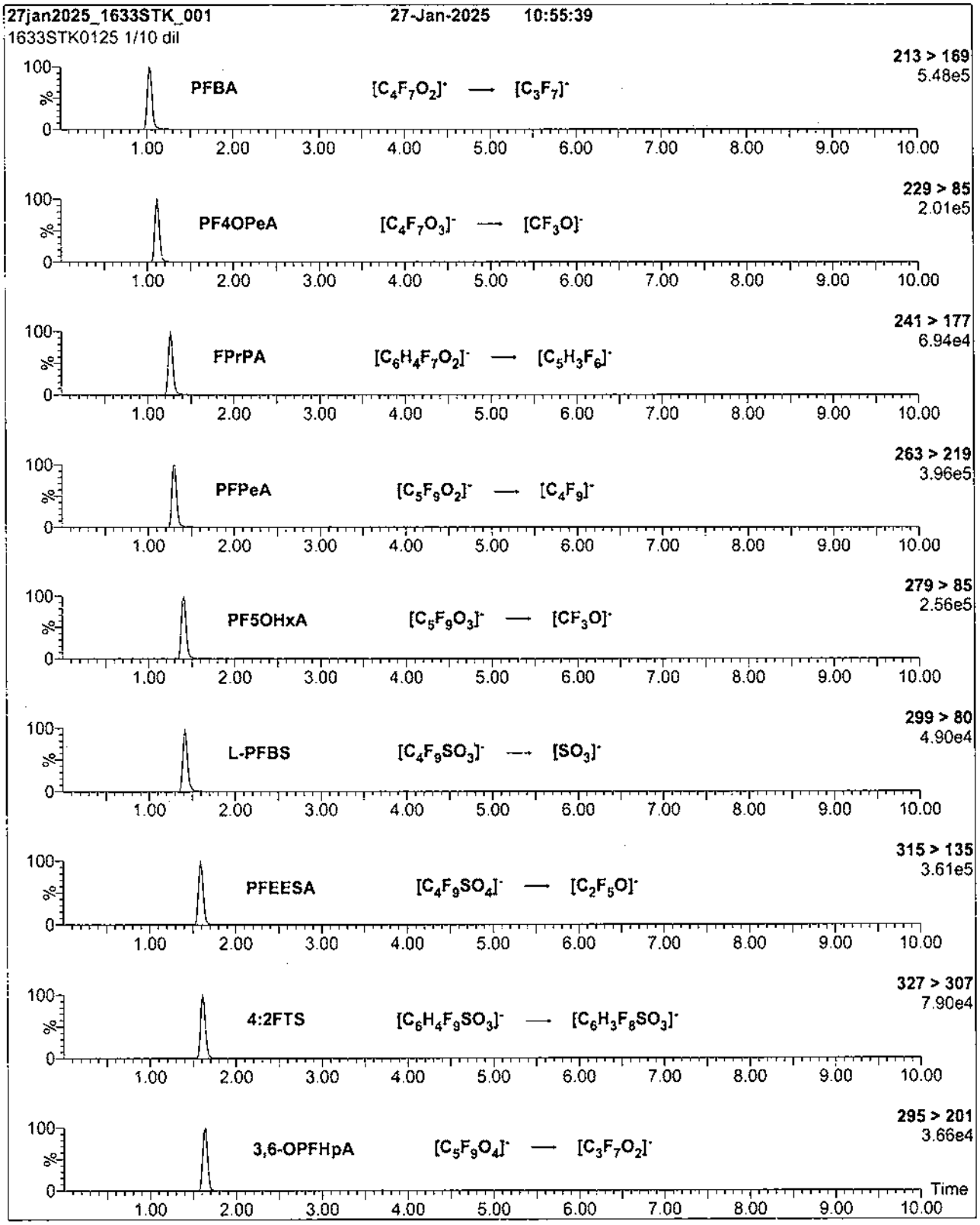


Figure 1: EPA-1633STK; LC/MS/MS Data (Selected MRM Transitions)

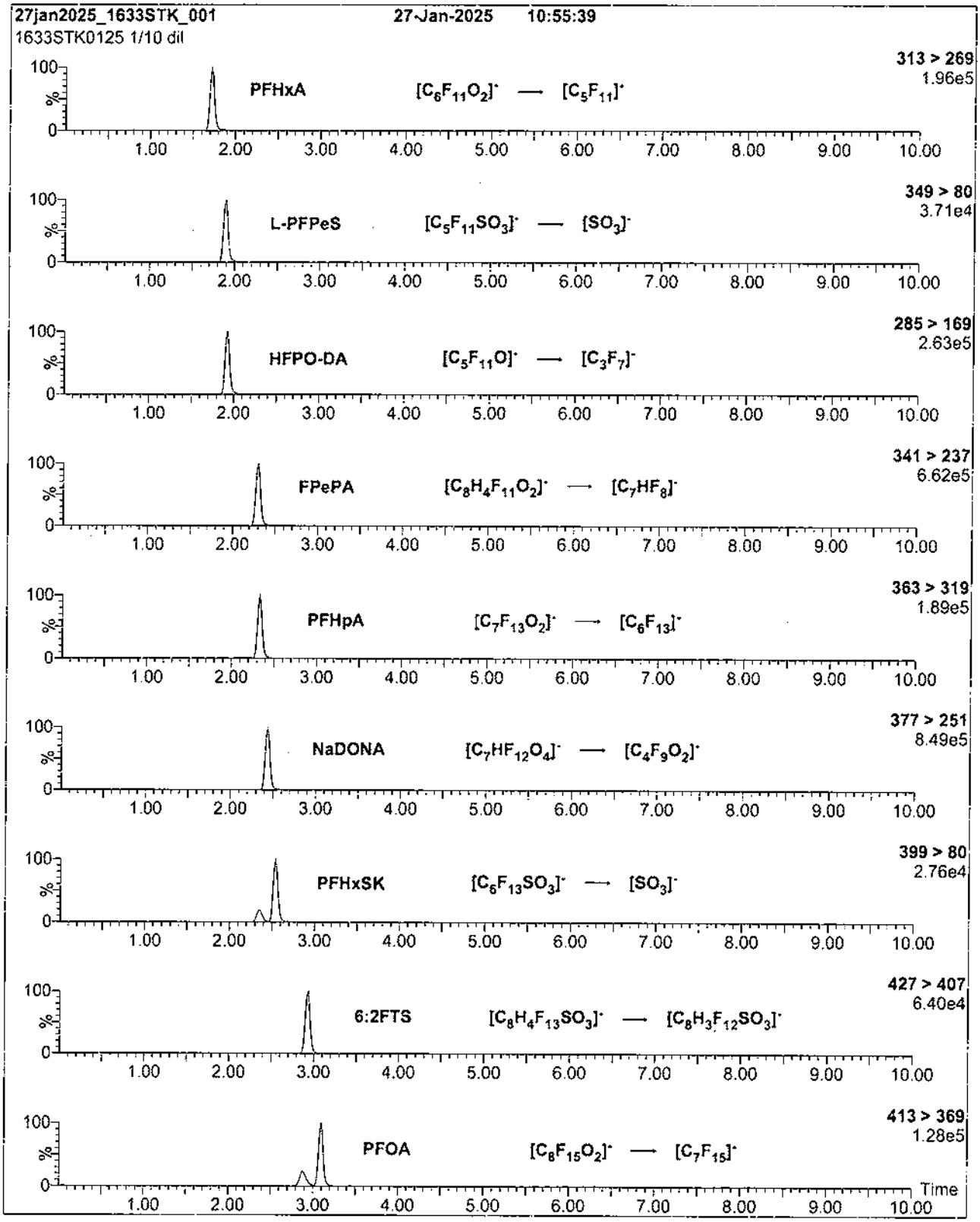


Figure 1: EPA-1633STK; LC/MS/MS Data (Selected MRM Transitions)

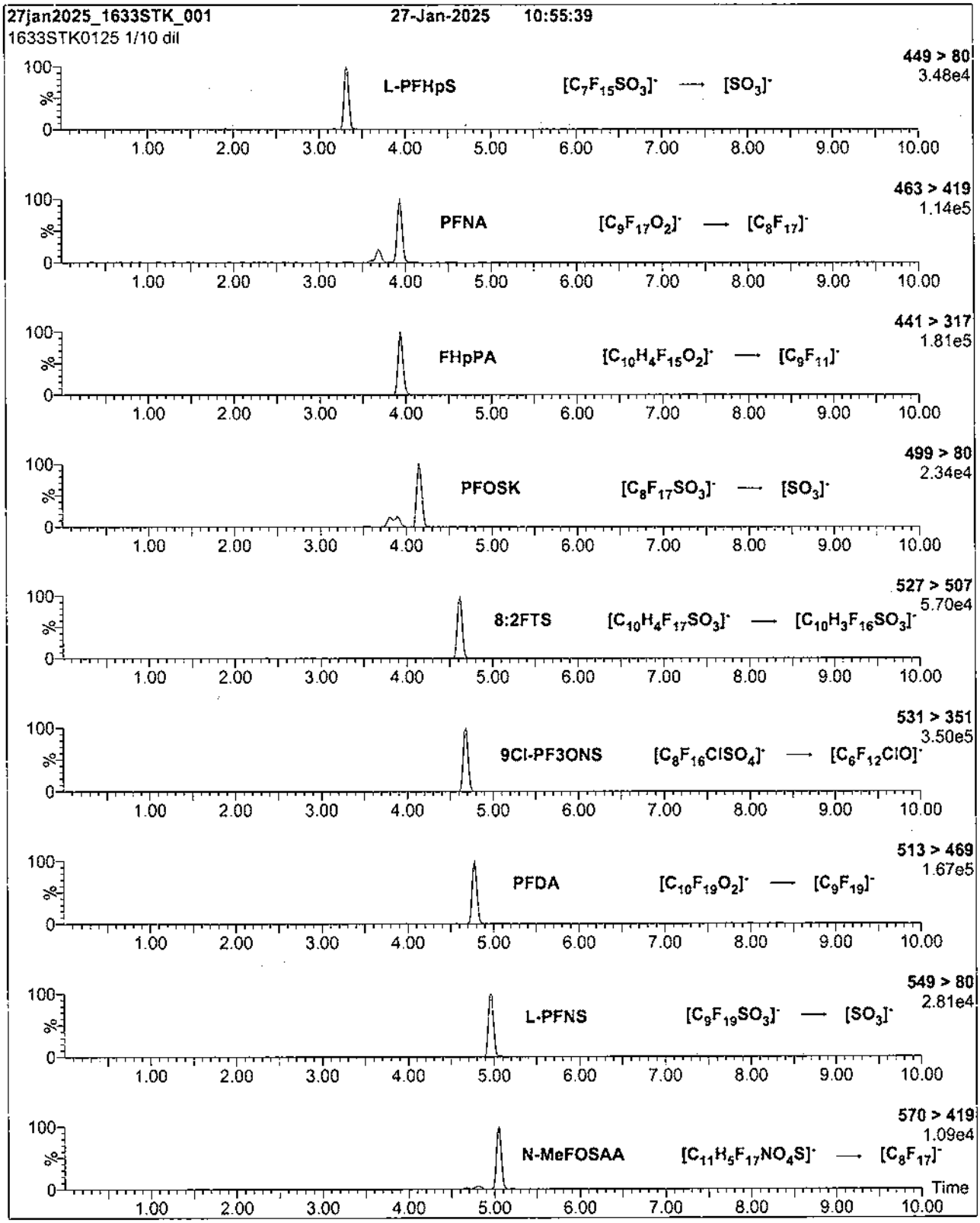


Figure 1: EPA-1633STK; LC/MS/MS Data (Selected MRM Transitions)

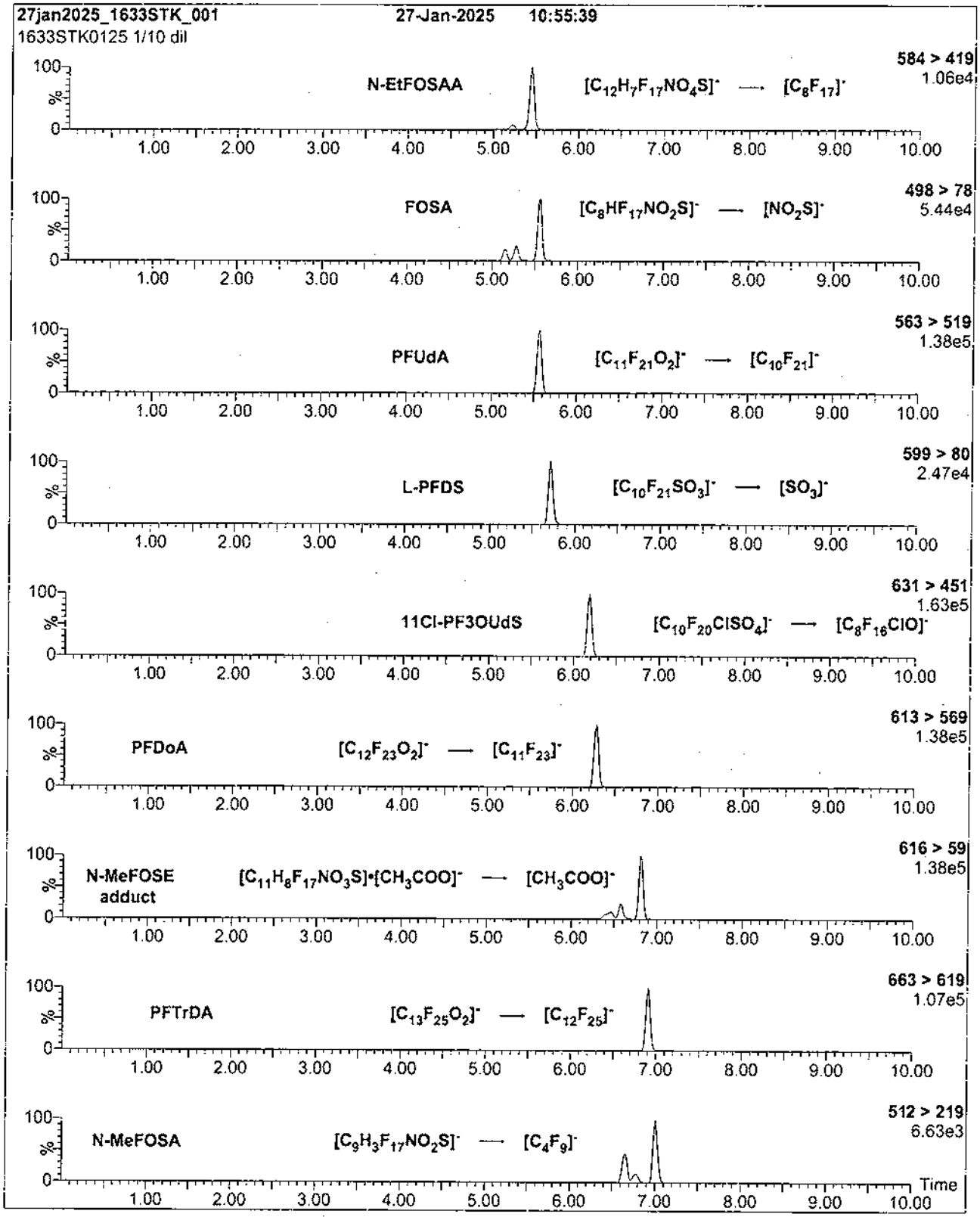
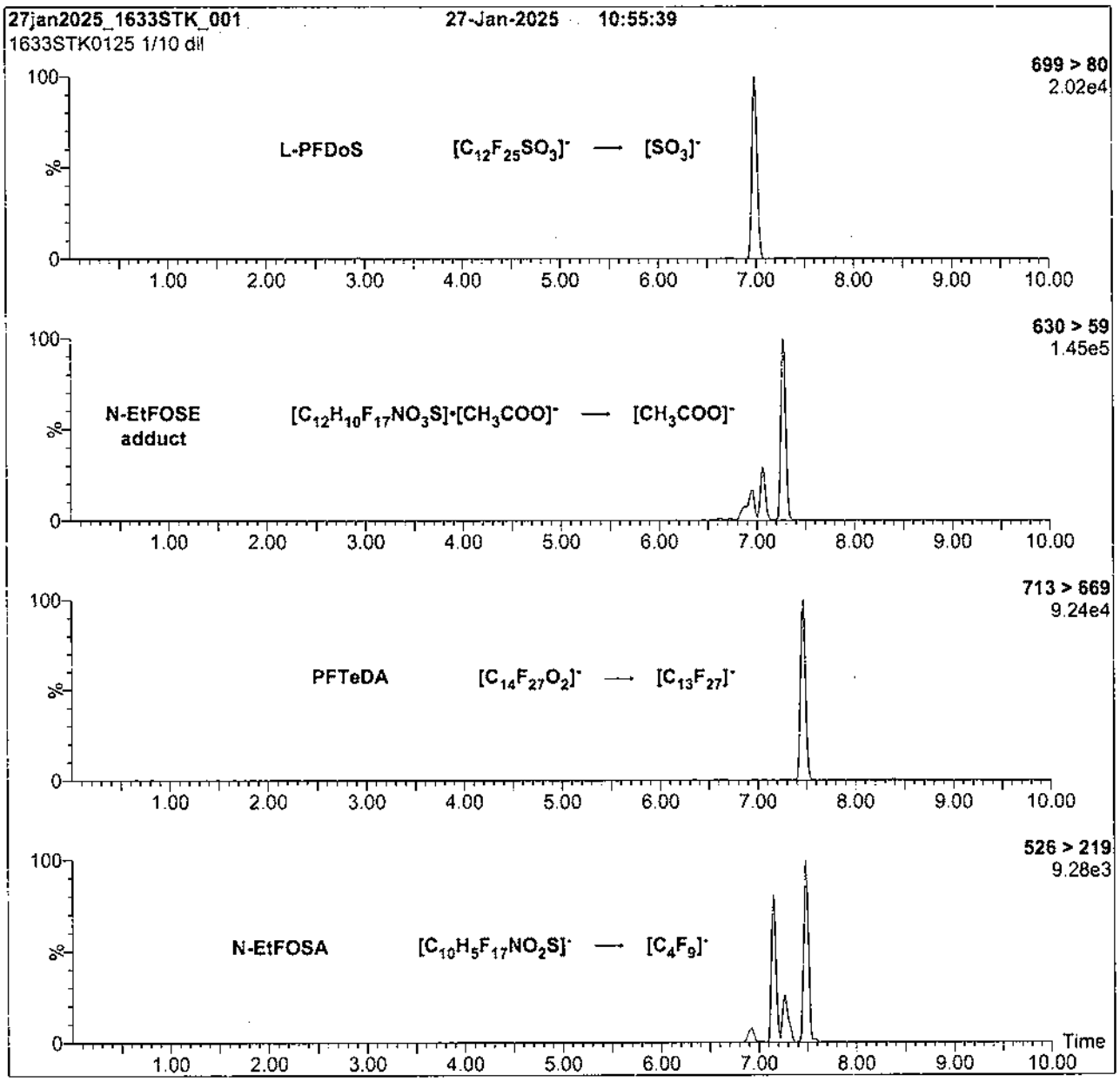


Figure 1: EPA-1633STK; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18} (1.7 µm, 2.1 x 100 mm)
Flow: 300 µL/min

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

MS Parameters:

Source: Electrospray (negative)

Capilary Voltage (kV) = 2.00
Cone Voltage (V) = 2-74
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000
Collision Gas (mbar) = 4.29e-3
Collision Energy (eV) = 6-60

24280-137
rec 5/14/25 SMK 1023803
REC. 05/14/25 BY SMK
Exp. __/__/__ By __
Open __/__/__ By __

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

MPFAC-HIF-ES

Mass-Labelled PFAS Extraction
Standard Solution/Mixture

PRODUCT CODE:	MPFAC-HIF-ES
LOT NUMBER:	MPFACHIFES0924
SOLVENT(S):	Methanol/Isopropanol (1%)/Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	09/24/2024
LAST TESTED: (mm/dd/yyyy)	09/26/2024
EXPIRY DATE: (mm/dd/yyyy)	09/26/2028
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

MPFAC-HIF-ES is a solution/mixture of mass-labelled (^{13}C) perfluoroalkylcarboxylic acids (C_4-C_{12}, C_{14}), mass-labelled (^{13}C) perfluoroalkanesulfonates (C_4, C_6, and C_8), mass-labelled (one ^{13}C and two ^{2}H) perfluoro-1-octanesulfonamides, mass-labelled (^{13}C) fluorotelomer sulfonates (4:2, 6:2, and 8:2), mass-labelled (^{2}H) perfluoro-1-octanesulfonamidoacetic acids, mass-labelled (^{2}H) perfluoro-1-octanesulfonamidoethanols, and mass-labelled (^{13}C) hexafluoropropylene oxide dimer acid ($^{13}C_3$-GenX, M3HFPO-DA). The components and their concentrations are given in Table A.

The individual ^{13}C-labelled components all have chemical purities >98% and isotopic purities of ≥99%. The individual ^{2}H-labelled components all have chemical purities >98% and isotopic purities of ≥98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

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

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots or equivalent products in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **MPFAC-HIF-ES; Components and Concentrations (ng/mL, ± 5% in methanol/isopropanol (1%)/water (<1%))**

Compound	Acronym	CAS #	Concentration (ng/mL)
Perfluoro-n-($^{13}C_4$)butanoic acid	MPFBA	1017281-29-6	2000
Perfluoro-n-($^{13}C_5$)pentanoic acid	M5PFPeA	2283397-79-3	1000
Perfluoro-n-(1,2,3,4,6-$^{13}C_5$)hexanoic acid	M5PFHxA	2328024-54-8	500
Perfluoro-n-(1,2,3,4-$^{13}C_4$)heptanoic acid	M4PFHpA	2328024-55-9	500
Perfluoro-n-($^{13}C_8$)octanoic acid	M8PFOA	1350614-84-4	500
Perfluoro-n-($^{13}C_9$)nonanoic acid	M9PFNA	2283397-80-6	250
Perfluoro-n-(1,2,3,4,5,6-$^{13}C_6$)decanoic acid	M6PFDA	2328024-56-0	250
Perfluoro-n-(1,2,3,4,5,6,7-$^{13}C_7$)undecanoic acid	M7PFUdA	-	250
Perfluoro-n-(1,2-$^{13}C_2$)dodecanoic acid	MPFDoA	960315-52-0	250
Perfluoro-n-(1,2-$^{13}C_2$)tetradecanoic acid	M2PFTeDA	2708218-82-8	250
Perfluoro-1-($^{13}C_8$)octanesulfonamide	M8FOSA	1365803-60-6	500
N-Methyl-d_3-perfluoro-1-octanesulfonamide	d-N-MeFOSA	936109-37-4	500
N-Ethyl-d_5-perfluoro-1-octanesulfonamide	d-N-EtFOSA	936109-40-9	500
N-Methyl-d_3-perfluoro-1-octanesulfonamidoacetic acid	d3-N-MeFOSAA	1400690-70-1	1000
N-Ethyl-d_5-perfluoro-1-octanesulfonamidoacetic acid	d5-N-EtFOSAA	1265205-97-7	1000
2-(N-Methyl-d_3-perfluoro-1-octanesulfonamido)ethan-d_4-ol	d7-N-MeFOSE	1265205-95-5	5000
2-(N-Ethyl-d_5-perfluoro-1-octanesulfonamido)ethan-d_4-ol	d9-N-EtFOSE	1265205-96-6	5000
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)($^{13}C_3$)propanoic acid	M3HFPO-DA	3030247-97-0	2000

Compound	Acronym	CAS #	Concentration* (ng/mL)	
			as the salt	as the acid
Sodium perfluoro-1-(2,3,4-$^{13}C_3$)butanesulfonate	M3PFBS	2708218-84-0	500	466
Sodium perfluoro-1-(1,2,3-$^{13}C_3$)hexanesulfonate	M3PFHxS	2708218-86-2	500	474
Sodium perfluoro-1-($^{13}C_8$)octanesulfonate	M8PFOS	2522762-16-7	500	479
Sodium 1H,1H,2H,2H-perfluoro(1,2-$^{13}C_2$)hexanesulfonate	M2-4:2FTS	2708218-88-4	1000	938
Sodium 1H,1H,2H,2H-perfluoro(1,2-$^{13}C_2$)octanesulfonate	M2-6:2FTS	2708218-89-5	1000	951
Sodium 1H,1H,2H,2H-perfluoro(1,2-$^{13}C_2$)decanesulfonate	M2-8:2FTS	2708218-90-8	1000	960

* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 10/04/2024
(mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: MPFAC-HIF-ES; LC/MS/MS Data (Selected MRM Transitions)

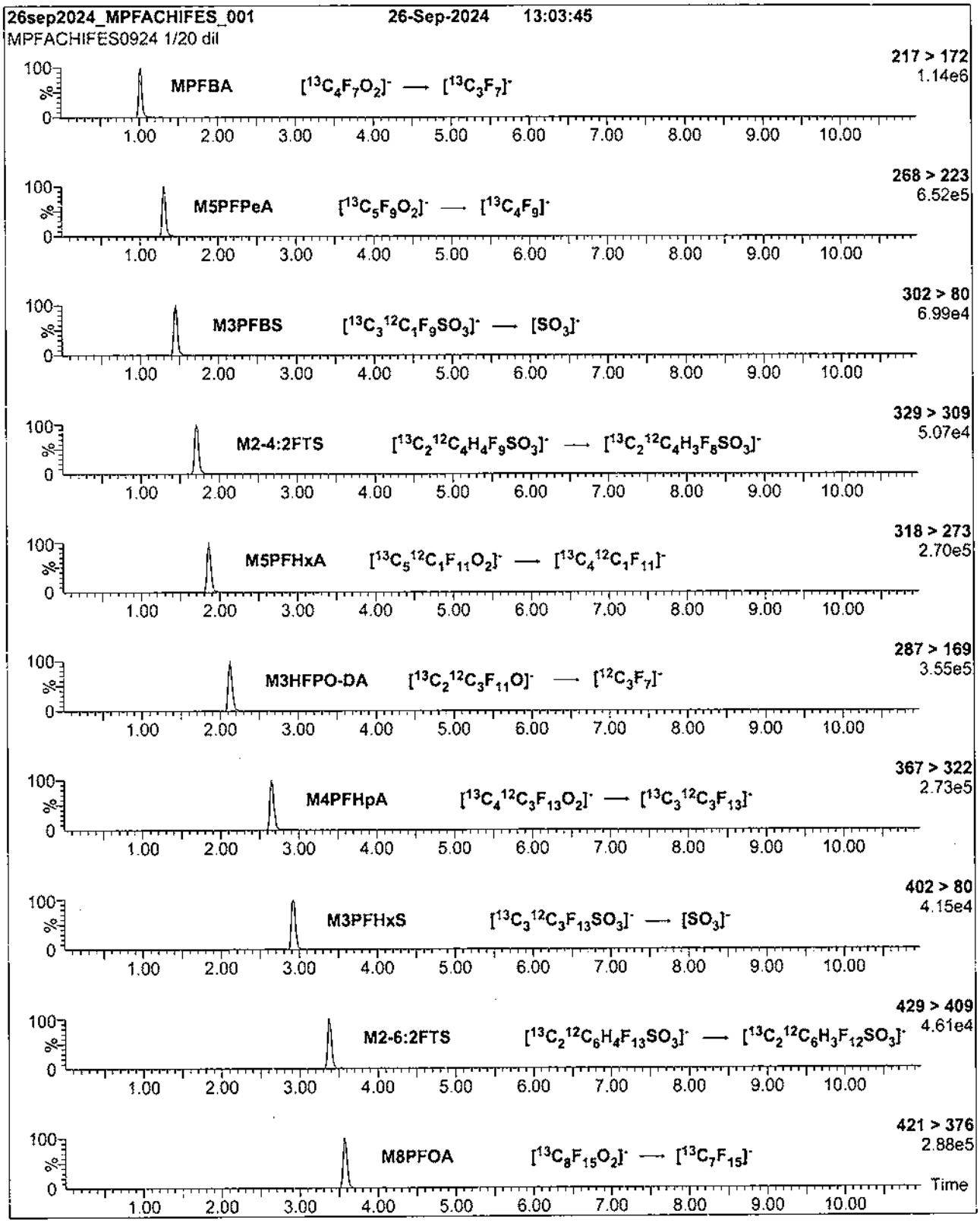


Figure 1: **MPFAC-HIF-ES; LC/MS/MS Data (Selected MRM Transitions)**

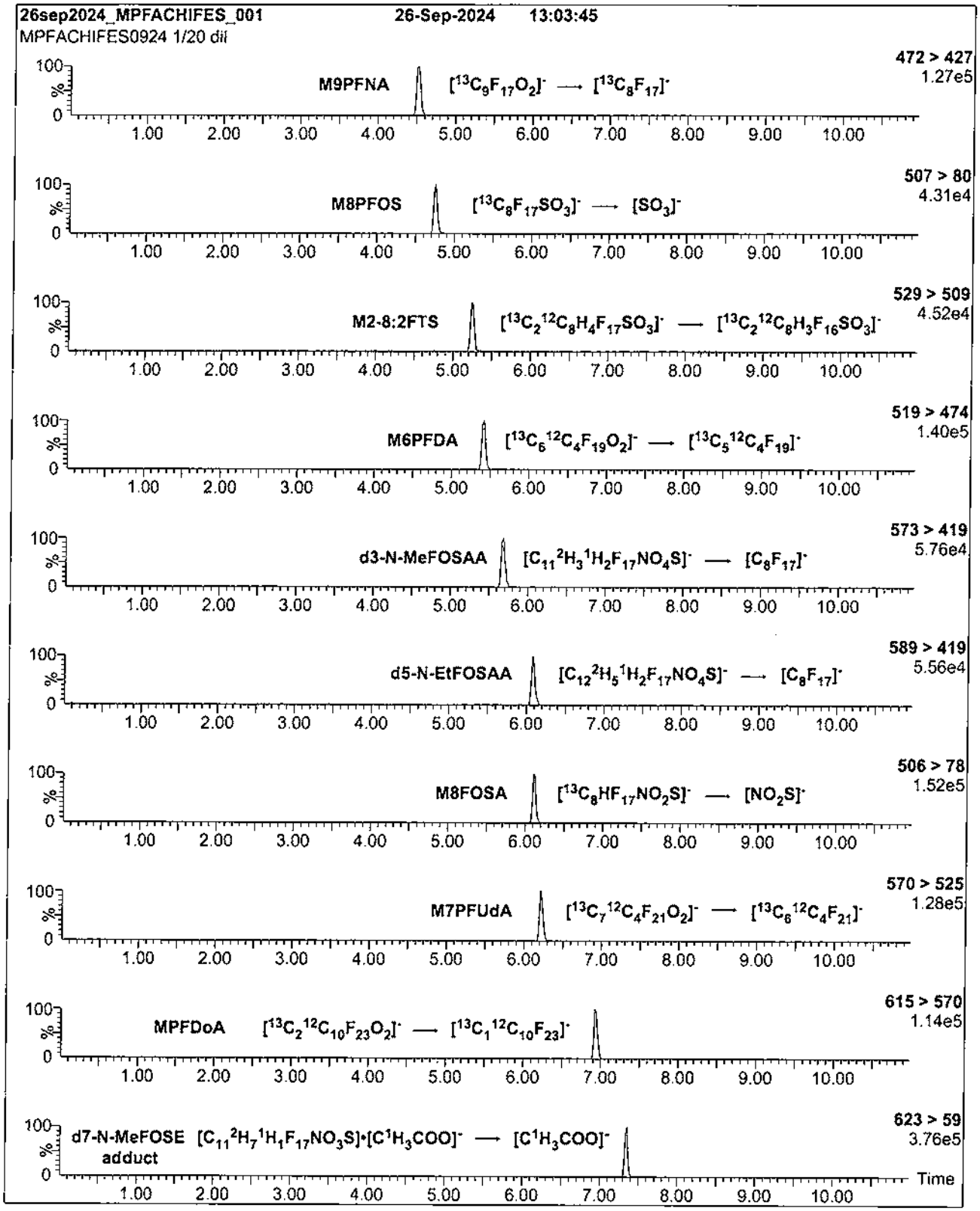
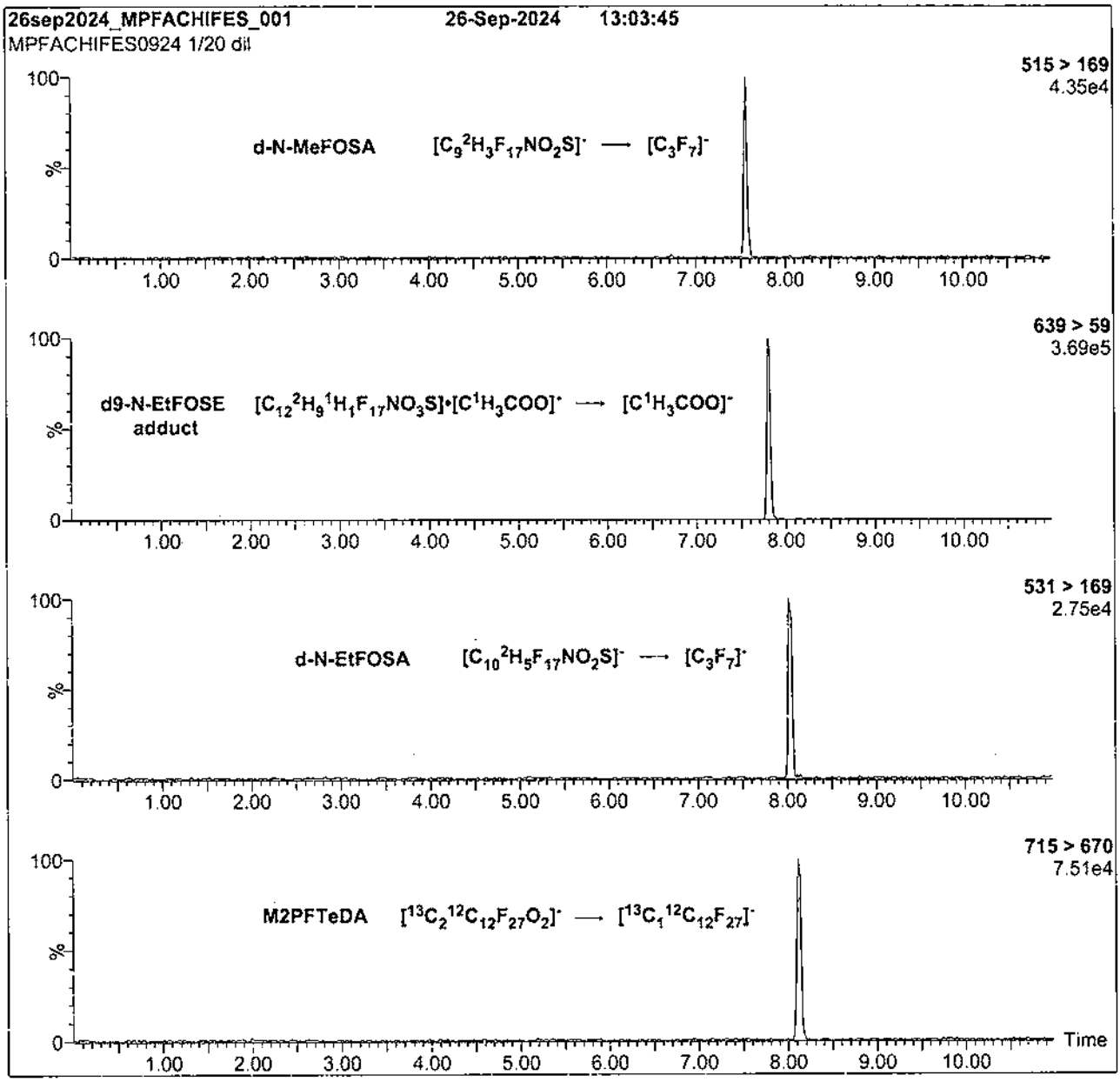


Figure 1: **MPFAC-HIF-ES; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18} (1.7 µm, 2.1 x 100 mm)
Flow: 300 µL/min

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

MS Parameters:

Source: Electrospray (negative)

Capilary Voltage (kV) = 2.00
Cone Voltage (V) = 2-64
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000
Collision Gas (mbar) = 4.41e-3
Collision Energy (eV) = 4-64

24280-138
rec 5/14/25
SMK

1023804
REC.05/14/25 BY SMK
Exp. __/__/__ By __
Open __/__/__ By __

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

MPFAC-HIF-IS

Mass-Labelled PFAS Injection Standard Solution/Mixture

PRODUCT CODE:	MPFAC-HIF-IS
LOT NUMBER:	MPFACHIFIS0425
SOLVENT(S):	Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	04/28/2025
LAST TESTED: (mm/dd/yyyy)	04/29/2025
EXPIRY DATE: (mm/dd/yyyy)	04/29/2030
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-HIF-IS is a solution/mixture of mass-labelled (^{13}C) perfluoroalkylcarboxylic acids (C_4, C_6, C_8-C_{10}) and mass-labelled (^{18}O and ^{13}C) perfluoroalkanesulfonates (C_6 and C_8). The components and their concentrations are given in Table A.

The individual mass-labelled components all have chemical purities of >98% and isotopic purities of ≥99% per ^{13}C or >94% per ^{18}O.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

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

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots or equivalent products in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a *relative* standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

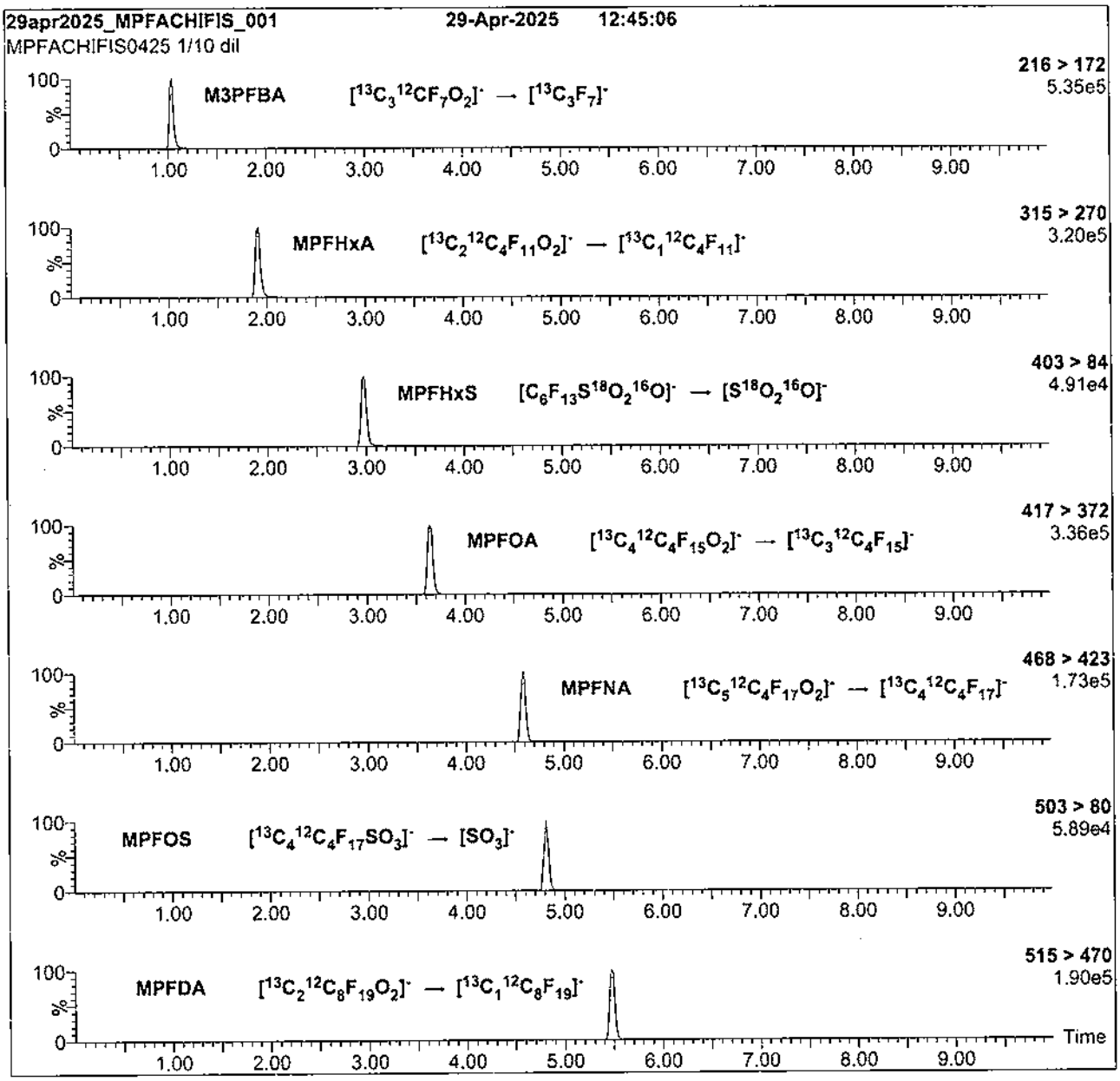
Table A: **MPFAC-HIF-IS; Components and Concentrations (ng/mL, ± 5% in methanol/water (<1%))**

Compound	Acronym	CAS #	Concentration (ng/mL)	
Perfluoro-n-(2,3,4-$^{13}C_3$)butanoic acid	M3PFBA	2483735-33-5	1000	
Perfluoro-n-(1,2-$^{13}C_2$)hexanoic acid	MPFHxA	960315-47-3	500	
Perfluoro-n-(1,2,3,4-$^{13}C_4$)octanoic acid	MPFOA	960315-48-4	500	
Perfluoro-n-(1,2,3,4,5-$^{13}C_5$)nonanoic acid	MPFNA	960315-49-5	250	
Perfluoro-n-(1,2-$^{13}C_2$)decanoic acid	MPFDA	960315-50-8	250	
Compound	**Acronym**	**CAS #**	**Concentration* (ng/mL)**	
			as the salt	**as the acid**
Sodium perfluoro-1-hexane($^{18}O_2$)sulfonate	MPFHxS	1585941-14-5	500	474
Sodium perfluoro-1-(1,2,3,4-$^{13}C_4$)octanesulfonate	MPFOS	960315-53-1	500	479

* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 04/30/2025
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: MPFAC-HIF-IS; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18} (1.7 µm, 2.1 x 100 mm)
Flow: 300 µL/min

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

MS Parameters:

Source: Electrospray (negative)

Capilary Voltage (kV) = 2.00
Cone Voltage (V) = 2-44
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000
Collision Gas (mbar) = 4.21e-3
Collision Energy (eV) = 6-64

NSR

rec: 5/22/25

24780 - 144

1023836
REC. 05/22/26 BY NSR
Exp. --/--/-- By --
Open --/--/-- By --

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

MPFAC-HIF-IS

Mass-Labelled PFAS Injection Standard Solution/Mixture

PRODUCT CODE:	MPFAC-HIF-IS
LOT NUMBER:	MPFACHIFIS0425
SOLVENT(S):	Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	04/28/2025
LAST TESTED: (mm/dd/yyyy)	04/29/2025
EXPIRY DATE: (mm/dd/yyyy)	04/29/2030
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-HIF-IS is a solution/mixture of mass-labelled (^{13}C) perfluoroalkylcarboxylic acids (C_4, C_5, C_8-C_{10}) and mass-labelled (^{18}O and ^{13}C) perfluoroalkanesulfonates (C_6 and C_8). The components and their concentrations are given in Table A.

The individual mass-labelled components all have chemical purities of >98% and isotopic purities of ≥99% per ^{13}C or >94% per ^{18}O.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

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

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound(s) it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS, SFC/UV/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS, and/or SFC/UV/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots or equivalent products in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ± 5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by Intertek SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by the ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **MPFAC-HIF-IS; Components and Concentrations (ng/mL, ± 5% in methanol/water (<1%))**

Compound	Acronym	CAS #	Concentration (ng/mL)
Perfluoro-n-(2,3,4-$^{13}C_3$)butanoic acid	M3PFBA	2483735-33-5	1000
Perfluoro-n-(1,2-$^{13}C_2$)hexanoic acid	MPFHxA	960315-47-3	500
Perfluoro-n-(1,2,3,4-$^{13}C_4$)octanoic acid	MPFOA	960315-48-4	500
Perfluoro-n-(1,2,3,4,5-$^{13}C_5$)nonanoic acid	MPFNA	960315-49-5	250
Perfluoro-n-(1,2-$^{13}C_2$)decanoic acid	MPFDA	960315-50-8	250

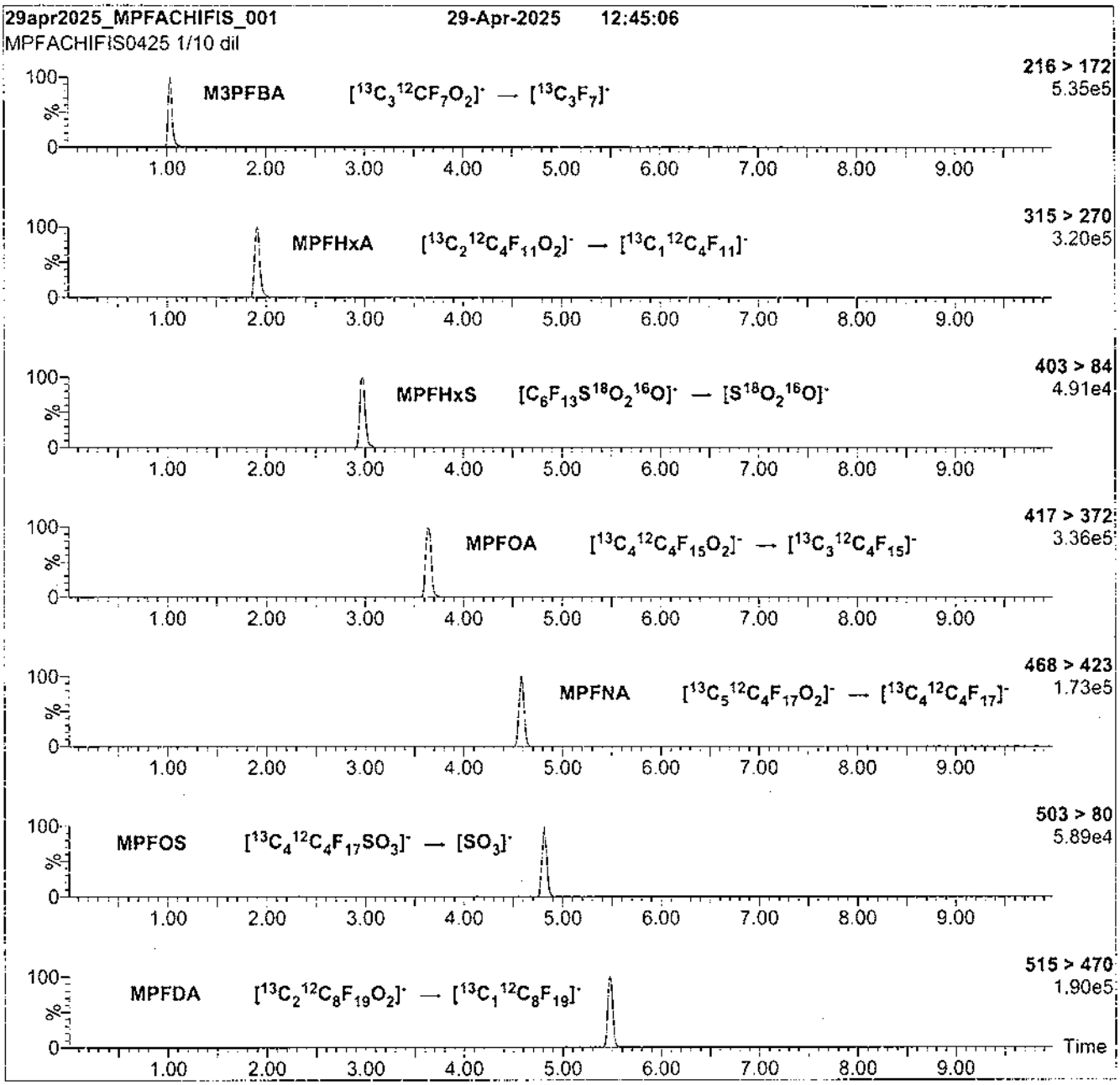
Compound	Acronym	CAS #	Concentration* (ng/mL)	
			as the salt	as the acid
Sodium perfluoro-1-hexane($^{18}O_2$)sulfonate	MPFHxS	1585941-14-5	500	474
Sodium perfluoro-1-(1,2,3,4-$^{13}C_4$)octanesulfonate	MPFOS	960315-53-1	500	479

* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 04/30/2025
(mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: **MPFAC-HIF-IS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 1:

Waters Acquity UPLC I-Class
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18} (1.7 µm, 2.1 x 100 mm)
Flow: 300 µL/min

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc)
Ramp to 90% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 12 min

MS Parameters:

Source: Electrospray (negative)

Capilary Voltage (kV) = 2.00
Cone Voltage (V) = 2-44
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000
Collision Gas (mbar) = 4.21e-3
Collision Energy (eV) = 6-64

ANALYTICAL REPORT

Jul 07, 2025

INTERA - Albuquerque, NM

a le eli er rou : L1868831

a les Recei ed: 06/12/2025

Project Nu ber:

escri tion:

Re ort To: L nda Price
2440 Louisiana l d
uite 700
Albuquerque, NM 87110

Entire Re ort Re ie ed :

Jordan N Zito
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Gl: Glossary of Terms 5

Al: Accreditations & Locations 6

Sc: Sample Chain of Custody 7

-24 L1868831-01

Collected by	Collected date/time	Received date/time
	06/10/25 14:30	06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2537281	1	07/03/25 00:00	07/03/25 00:00	SSD	Minneapolis, MN 55414

-92 L1868831-02

Collected by	Collected date/time	Received date/time
	06/10/25 14:30	06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2537281	1	07/03/25 00:00	07/03/25 00:00	SSD	Minneapolis, MN 55414

TRIP LAN L1868831-03

Collected by	Collected date/time	Received date/time
	06/10/25 14:30	06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2537281	1	07/03/25 00:00	07/03/25 00:00	SSD	Minneapolis, MN 55414

A E NARRATI E

All sa le aliquots ere recei ed at t e correct te erature, in t e ro er containers, it t e a ro riate reser ati es, and it in et od s ecified olding ti es, unless qualified or notated it in t e re ort ere a licable, all M L L and R L L alues re orted for en iron ental sa les a e been corrected for t e dilution factor used in t e anal sis All Met od and atc ualit ontrol are it in establis ed criteria e ce t ere addressed in t is case narrati e, a non-confor ance for or ro erl qualified it in t e sa le results digital signature belo , l affir to t e best of no ledge, all roble s/ano alies obser ed b t e laborator as a ing t e otential to affect t e qualit of t e data a e been identified b t e laborator , and no infor ation or data a e been no ingl it eld t at ould affect t e qualit of t e data

Jordan N Zito
Project Manager

Project Narrati e

L1868831 -01, -02, -03 contains subout data t at is included after t e c ain of custod

uide to Reading and nderstanding our Laborator Re ort

T e infor ation belo is designed to better e lain t e arious ter s used in our re ort of anal tical results fro t e Laborator T is is not intended as a co re ensi e e lanation, and if ou a e additional questions lease contact our roject re resentati e

Results isclai er - Infor ation t at a be ro ided b t e custo er, and contained it in t is re ort, include Per it Li its, Project Na e, a le I , a le Matri , a le Preser ation, ield lan s, ield i es, ield u licates, n- ite ata, a ling ollection ates/Ti es, and a ling Location Results relate to t e accurac of t is infor ation ro ided, and as t e sa les are recei ed

Abbre iations and efinitions

	a le eli er rou
ncertaint Radioc e istr	onfidence le el of 2 sig a
Radioc e istr	Result Error M A
J Radioc e istr	Result M A Result Error M A
ase Narrati e n	A brief discussion about t e included sa le results, including a discussion of an non-confor ances to rotocol obser ed eit er at sa le recei t b t e laborator fro t e field or during t e anal tical rocess If resent, t ere ill be a section in t e ase Narrati e to discuss t e eaning of an data qualifiers used in t e re ort
ualit ontrol u ar c	T is section of t e re ort includes t e results of t e laborator qualit control anal ses required b rocedure or anal tical et ods to assist in e aluating t e alidit of t e results re orted for our sa les T ese anal ses are not being erfor ed on our sa les t ical , but on laborator generated aterial
a le ain of ustod c	T is is t e docu ent created in t e field en our sa les ere initiall collected T is is used to erif t e ti e and date of collection, t e erson collecting t e sa les, and t e anal ses t at t e laborator is requested to erfor T is c ain of custod also docu ents all ersons e cluding co ercial s i ers t at a e ad control or ossession of t e sa les fro t e ti e of collection until deli er to t e laborator for anal sis
a le Results r	T is section of our re ort ill ro ide t e results of all testing erfor ed on our sa les T ese results are ro ided b sa le I and are se arated b t e anal ses erfor ed on eac sa le T e eader line of eac anal sis section for eac sa le ill ro ide t e na e and et od nu ber for t e anal sis re orted
a le u ar s	T is section of t e Anal tical Re ort defines t e s ecific anal ses erfor ed for eac sa le I , including t e dates and ti es of re aration and/or anal sis

ualifier escri tion

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Anal tical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

L1868832

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

5.5 + 0.4 = 5.9 TUB

Sample Receipt Checklist

COC Seal Present/Intact:	Y N NF	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N	Condition: NCF	OK
RA Screen <0.5 mR/hr:	Y N		

Company Name:	INTERA Incorporated
Street Address:	2440 Louisiana Blvd Suite 700 ABQ
Customer Project #:	
Project Name:	SFC PFAS
Site Collection Info/Facility ID (as applicable):	
Time Zone Collected:	[ ] AK [ ] PT [X] MT [ ] CT [ ] ET
Data Deliverables:	[ ] Level II [ ] Level III [X] Level IV [ ] EQuIS [ ] Other
Contact/Report To:	Lynda Price
Phone #:	512-492-2072
E-Mail:	lprice@intera.com
Cc E-Mail:	
Invoice to:	Same as above
Invoice E-mail:	
Purchase Order # (if applicable):	
Quote #:	
County / State origin of sample(s):	NM
Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [ ] No
Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other	DW PWSID # or WW Permit # as applicable:
Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No
	Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	PFAS 1633	Sample Comment
DWS-24	GW	Grab	6/10/25	1430			2			X	
DWS-92	GW	Grab	6/10/25	1543			2			X	
TRIP Blank	AQ	/	6/10/25	0900			1			X	

* Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore (9) 90mL, (10) Other

** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: | Acct/Num / Client ID: | Table #: K212 | Profile / | Prelog / Bottle Ord. ID: | Preservation non-conformance identified

Additional Instructions from Pace®: Level 4 Data Package

Collected By: Printed Name: LYNDA PRICE Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers	Thermometer ID:	Correction Factor (°C):	Obs. Temp (°C):	Corrected Temp (°C):	[ ] On Ice

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	6/11/25 1540	Fedex Ops	6/12/25 0900

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

July 03, 2025

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1868831 WG2537281
Pace Project No.: 10738535

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for Testing & Innovation

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: L1868831 WG2537281
Pace Project No.: 10738535

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification via A2LA #: R-036
North Dakota Certification via MN #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: L1868831 WG2537281
Pace Project No.: 10738535

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10738535001	**DWS-24**	Water	06/10/25 14:30	06/13/25 08:50
10738535002	**DWS-92**	Water	06/10/25 14:30	06/13/25 08:50
10738535003	**TRIP BLANK**	Water	06/10/25 14:30	06/13/25 08:50

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: L1868831 WG2537281
Pace Project No.: 10738535

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10738535001	**DWS-24**	EPA 1633	CS4	65	PASI-M
10738535002	**DWS-92**	EPA 1633	CS4	65	PASI-M
10738535003	**TRIP BLANK**	EPA 1633	CS4	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1868831 WG2537281
Pace Project No.: 10738535

Sample: DWS-24 **Lab ID: 10738535001** Collected: 06/10/25 14:30 Received: 06/13/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 506.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.3	1	06/30/25 13:40	07/01/25 13:42	763051-92-9	
3:3 FTCA	ND	ng/L	7.9	1	06/30/25 13:40	07/01/25 13:42	356-02-5	
4:2 FTS	ND	ng/L	6.3	1	06/30/25 13:40	07/01/25 13:42	757124-72-4	
5:3 FTCA	ND	ng/L	39.5	1	06/30/25 13:40	07/01/25 13:42	914637-49-3	
6:2 FTS	ND	ng/L	6.3	1	06/30/25 13:40	07/01/25 13:42	27619-97-2	
7:3 FTCA	ND	ng/L	39.5	1	06/30/25 13:40	07/01/25 13:42	812-70-4	
8:2 FTS	ND	ng/L	6.3	1	06/30/25 13:40	07/01/25 13:42	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.3	1	06/30/25 13:40	07/01/25 13:42	756426-58-1	
ADONA	ND	ng/L	6.3	1	06/30/25 13:40	07/01/25 13:42	919005-14-4	
HFPO-DA	ND	ng/L	6.3	1	06/30/25 13:40	07/01/25 13:42	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	4151-50-2	
NEtFOSE	ND	ng/L	15.8	1	06/30/25 13:40	07/01/25 13:42	1691-99-2	
NFDHA	ND	ng/L	3.2	1	06/30/25 13:40	07/01/25 13:42	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	31506-32-8	
NMeFOSE	ND	ng/L	15.8	1	06/30/25 13:40	07/01/25 13:42	24448-09-7	
PFBS	**5.5**	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	375-73-5	
PFDA	**3.6**	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	335-76-2	
PFHxA	**15.9**	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	307-24-4	
PFBA	**9.0**	ng/L	6.3	1	06/30/25 13:40	07/01/25 13:42	375-22-4	
PFDS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	335-77-3	
PFDoS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	79780-39-5	
PFEESA	ND	ng/L	3.2	1	06/30/25 13:40	07/01/25 13:42	113507-82-7	
PFHpS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	375-92-8	
PFMBA	ND	ng/L	3.2	1	06/30/25 13:40	07/01/25 13:42	863090-89-5	
PFMPA	ND	ng/L	3.2	1	06/30/25 13:40	07/01/25 13:42	377-73-1	
PFNS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	68259-12-1	
PFOSA	**2.5**	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	754-91-6	
PFPeA	**16.9**	ng/L	3.2	1	06/30/25 13:40	07/01/25 13:42	2706-90-3	
PFPeS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	2706-91-4	
PFDoA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	307-55-1	
PFHpA	**2.5**	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	375-85-9	
PFHxS	**3.9**	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	355-46-4	
PFNA	**3.3**	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	375-95-1	
PFOS	**27.0**	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	1763-23-1	
PFOA	**16.6**	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	335-67-1	
PFTeDA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	376-06-7	
PFTrDA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	72629-94-8	
PFUnA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 13:42	2058-94-8	
Surrogates								
13C2-PFDoA (S)	40	%.	10-130	1	06/30/25 13:40	07/01/25 13:42		
13C3HFPO-DA (S)	44	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		
13C3-PFBS (S)	42	%.	40-135	1	06/30/25 13:40	07/01/25 13:42		
13C3-PFHxS (S)	43	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1868831 WG2537281
Pace Project No.: 10738535

Sample: DWS-24 **Lab ID: 10738535001** Collected: 06/10/25 14:30 Received: 06/13/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 506.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	47	%.	5-130	1	06/30/25 13:40	07/01/25 13:42		
13C4-PFHpA (S)	42	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		
13C5-PFHxA (S)	43	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		
13C5-PFPeA (S)	42	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		
13C6-PFDA (S)	41	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		
13C8-PFOA (S)	42	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		
13C8-PFOS (S)	41	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		
13C8-PFOSA (S)	37	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		S0
13C9-PFNA (S)	41	%.	40-130	1	06/30/25 13:40	07/01/25 13:42		
d3-MeFOSAA (S)	40	%.	40-170	1	06/30/25 13:40	07/01/25 13:42		
d3-NMeFOSA (S)	29	%.	10-130	1	06/30/25 13:40	07/01/25 13:42		
d5-EtFOSAA (S)	39	%.	25-135	1	06/30/25 13:40	07/01/25 13:42		
d5-NEtFOSA (S)	27	%.	10-130	1	06/30/25 13:40	07/01/25 13:42		
d7-NMeFOSE (S)	34	%.	10-130	1	06/30/25 13:40	07/01/25 13:42		
d9-NEtFOSE (S)	33	%.	10-130	1	06/30/25 13:40	07/01/25 13:42		
13C2-PFTA (S)	42	%.	10-130	1	06/30/25 13:40	07/01/25 13:42		
13C7-PFUdA (S)	46	%.	30-130	1	06/30/25 13:40	07/01/25 13:42		
13C24:2FTS (S)	41	%.	40-200	1	06/30/25 13:40	07/01/25 13:42		
13C26:2FTS (S)	50	%.	40-200	1	06/30/25 13:40	07/01/25 13:42		
13C28:2FTS (S)	52	%.	40-300	1	06/30/25 13:40	07/01/25 13:42		
13C3-PFPrA (S)	28	%.	5-130	1	06/30/25 13:40	07/01/25 13:42		

Sample: DWS-92 **Lab ID: 10738535002** Collected: 06/10/25 14:30 Received: 06/13/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 517.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.2	1	06/30/25 13:40	07/01/25 13:52	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	1	06/30/25 13:40	07/01/25 13:52	356-02-5	
4:2 FTS	ND	ng/L	6.2	1	06/30/25 13:40	07/01/25 13:52	757124-72-4	
5:3 FTCA	ND	ng/L	38.7	1	06/30/25 13:40	07/01/25 13:52	914637-49-3	
6:2 FTS	ND	ng/L	6.2	1	06/30/25 13:40	07/01/25 13:52	27619-97-2	
7:3 FTCA	ND	ng/L	38.7	1	06/30/25 13:40	07/01/25 13:52	812-70-4	
8:2 FTS	ND	ng/L	6.2	1	06/30/25 13:40	07/01/25 13:52	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.2	1	06/30/25 13:40	07/01/25 13:52	756426-58-1	
ADONA	ND	ng/L	6.2	1	06/30/25 13:40	07/01/25 13:52	919005-14-4	
HFPO-DA	ND	ng/L	6.2	1	06/30/25 13:40	07/01/25 13:52	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	2991-50-6	
NEtFOSA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	4151-50-2	
NEtFOSE	ND	ng/L	15.5	1	06/30/25 13:40	07/01/25 13:52	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1868831 WG2537281
Pace Project No.: 10738535

Sample: DWS-92 **Lab ID: 10738535002** Collected: 06/10/25 14:30 Received: 06/13/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 517.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.1	1	06/30/25 13:40	07/01/25 13:52	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	2355-31-9	
NMeFOSA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	31506-32-8	
NMeFOSE	ND	ng/L	15.5	1	06/30/25 13:40	07/01/25 13:52	24448-09-7	
PFBS	**12.2**	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	375-73-5	
PFDA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	335-76-2	
PFHxA	**15.8**	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	307-24-4	
PFBA	ND	ng/L	6.2	1	06/30/25 13:40	07/01/25 13:52	375-22-4	
PFDS	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	335-77-3	
PFDoS	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	79780-39-5	
PFEESA	ND	ng/L	3.1	1	06/30/25 13:40	07/01/25 13:52	113507-82-7	
PFHpS	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	375-92-8	
PFMBA	ND	ng/L	3.1	1	06/30/25 13:40	07/01/25 13:52	863090-89-5	
PFMPA	ND	ng/L	3.1	1	06/30/25 13:40	07/01/25 13:52	377-73-1	
PFNS	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	68259-12-1	
PFOSA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	754-91-6	
PFPeA	**21.1**	ng/L	3.1	1	06/30/25 13:40	07/01/25 13:52	2706-90-3	
PFPeS	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	2706-91-4	
PFDoA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	307-55-1	
PFHpA	**4.7**	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	375-85-9	
PFHxS	**8.4**	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	355-46-4	
PFNA	**1.6**	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	375-95-1	
PFOS	**5.0**	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	1763-23-1	
PFOA	**20.1**	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	335-67-1	
PFTeDA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	376-06-7	
PFTrDA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	72629-94-8	
PFUnA	ND	ng/L	1.5	1	06/30/25 13:40	07/01/25 13:52	2058-94-8	
Surrogates								
13C2-PFDoA (S)	54	%.	10-130	1	06/30/25 13:40	07/01/25 13:52		
13C3HFPO-DA (S)	55	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
13C3-PFBS (S)	54	%.	40-135	1	06/30/25 13:40	07/01/25 13:52		
13C3-PFHxS (S)	54	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
13C4-PFBA (S)	55	%.	5-130	1	06/30/25 13:40	07/01/25 13:52		
13C4-PFHpA (S)	52	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
13C5-PFHxA (S)	52	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
13C5-PFPeA (S)	52	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
13C6-PFDA (S)	52	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
13C8-PFOA (S)	53	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
13C8-PFOS (S)	52	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
13C8-PFOSA (S)	45	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
13C9-PFNA (S)	53	%.	40-130	1	06/30/25 13:40	07/01/25 13:52		
d3-MeFOSAA (S)	52	%.	40-170	1	06/30/25 13:40	07/01/25 13:52		
d3-NMeFOSA (S)	33	%.	10-130	1	06/30/25 13:40	07/01/25 13:52		
d5-EtFOSAA (S)	50	%.	25-135	1	06/30/25 13:40	07/01/25 13:52		
d5-NEtFOSA (S)	33	%.	10-130	1	06/30/25 13:40	07/01/25 13:52		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1868831 WG2537281
Pace Project No.: 10738535

Sample: DWS-92 **Lab ID: 10738535002** Collected: 06/10/25 14:30 Received: 06/13/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 517.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	42	%.	10-130	1	06/30/25 13:40	07/01/25 13:52		
d9-NEtFOSE (S)	40	%.	10-130	1	06/30/25 13:40	07/01/25 13:52		
13C2-PFTA (S)	56	%.	10-130	1	06/30/25 13:40	07/01/25 13:52		
13C7-PFUdA (S)	56	%.	30-130	1	06/30/25 13:40	07/01/25 13:52		
13C24:2FTS (S)	57	%.	40-200	1	06/30/25 13:40	07/01/25 13:52		
13C26:2FTS (S)	56	%.	40-200	1	06/30/25 13:40	07/01/25 13:52		
13C28:2FTS (S)	59	%.	40-300	1	06/30/25 13:40	07/01/25 13:52		
13C3-PFPrA (S)	48	%.	5-130	1	06/30/25 13:40	07/01/25 13:52		

Sample: TRIP BLANK **Lab ID: 10738535003** Collected: 06/10/25 14:30 Received: 06/13/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 495 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.5	1	06/30/25 13:40	07/01/25 14:03	763051-92-9	
3:3 FTCA	ND	ng/L	8.1	1	06/30/25 13:40	07/01/25 14:03	356-02-5	
4:2 FTS	ND	ng/L	6.5	1	06/30/25 13:40	07/01/25 14:03	757124-72-4	
5:3 FTCA	ND	ng/L	40.4	1	06/30/25 13:40	07/01/25 14:03	914637-49-3	
6:2 FTS	ND	ng/L	6.5	1	06/30/25 13:40	07/01/25 14:03	27619-97-2	
7:3 FTCA	ND	ng/L	40.4	1	06/30/25 13:40	07/01/25 14:03	812-70-4	
8:2 FTS	ND	ng/L	6.5	1	06/30/25 13:40	07/01/25 14:03	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.5	1	06/30/25 13:40	07/01/25 14:03	756426-58-1	
ADONA	ND	ng/L	6.5	1	06/30/25 13:40	07/01/25 14:03	919005-14-4	
HFPO-DA	ND	ng/L	6.5	1	06/30/25 13:40	07/01/25 14:03	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	4151-50-2	
NEtFOSE	ND	ng/L	16.2	1	06/30/25 13:40	07/01/25 14:03	1691-99-2	
NFDHA	ND	ng/L	3.2	1	06/30/25 13:40	07/01/25 14:03	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	31506-32-8	
NMeFOSE	ND	ng/L	16.2	1	06/30/25 13:40	07/01/25 14:03	24448-09-7	
PFBS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	375-73-5	
PFDA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	335-76-2	
PFHxA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	307-24-4	
PFBA	ND	ng/L	6.5	1	06/30/25 13:40	07/01/25 14:03	375-22-4	
PFDS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	335-77-3	
PFDoS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	79780-39-5	
PFEESA	ND	ng/L	3.2	1	06/30/25 13:40	07/01/25 14:03	113507-82-7	
PFHpS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	375-92-8	
PFMBA	ND	ng/L	3.2	1	06/30/25 13:40	07/01/25 14:03	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1868831 WG2537281
Pace Project No.: 10738535

Sample: TRIP BLANK **Lab ID: 10738535003** Collected: 06/10/25 14:30 Received: 06/13/25 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 495 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.2	1	06/30/25 13:40	07/01/25 14:03	377-73-1	
PFNS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	68259-12-1	
PFOSA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	754-91-6	
PFPeA	ND	ng/L	3.2	1	06/30/25 13:40	07/01/25 14:03	2706-90-3	
PFPeS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	2706-91-4	
PFDoA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	307-55-1	
PFHpA	**2.4**	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	375-85-9	
PFHxS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	355-46-4	
PFNA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	375-95-1	
PFOS	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	1763-23-1	
PFOA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	335-67-1	
PFTeDA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	376-06-7	
PFTrDA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	72629-94-8	
PFUnA	ND	ng/L	1.6	1	06/30/25 13:40	07/01/25 14:03	2058-94-8	
Surrogates								
13C2-PFDoA (S)	60	%.	10-130	1	06/30/25 13:40	07/01/25 14:03		
13C3HFPO-DA (S)	78	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
13C3-PFBS (S)	80	%.	40-135	1	06/30/25 13:40	07/01/25 14:03		
13C3-PFHxS (S)	80	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
13C4-PFBA (S)	79	%.	5-130	1	06/30/25 13:40	07/01/25 14:03		
13C4-PFHpA (S)	76	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
13C5-PFHxA (S)	72	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
13C5-PFPeA (S)	75	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
13C6-PFDA (S)	73	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
13C8-PFOA (S)	74	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
13C8-PFOS (S)	78	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
13C8-PFOSA (S)	63	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
13C9-PFNA (S)	76	%.	40-130	1	06/30/25 13:40	07/01/25 14:03		
d3-MeFOSAA (S)	72	%.	40-170	1	06/30/25 13:40	07/01/25 14:03		
d3-NMeFOSA (S)	44	%.	10-130	1	06/30/25 13:40	07/01/25 14:03		
d5-EtFOSAA (S)	68	%.	25-135	1	06/30/25 13:40	07/01/25 14:03		
d5-NEtFOSA (S)	44	%.	10-130	1	06/30/25 13:40	07/01/25 14:03		
d7-NMeFOSE (S)	57	%.	10-130	1	06/30/25 13:40	07/01/25 14:03		
d9-NEtFOSE (S)	54	%.	10-130	1	06/30/25 13:40	07/01/25 14:03		
13C2-PFTA (S)	58	%.	10-130	1	06/30/25 13:40	07/01/25 14:03		
13C7-PFUdA (S)	75	%.	30-130	1	06/30/25 13:40	07/01/25 14:03		
13C24:2FTS (S)	80	%.	40-200	1	06/30/25 13:40	07/01/25 14:03		
13C26:2FTS (S)	82	%.	40-200	1	06/30/25 13:40	07/01/25 14:03		
13C28:2FTS (S)	84	%.	40-300	1	06/30/25 13:40	07/01/25 14:03		
13C3-PFPrA (S)	84	%.	5-130	1	06/30/25 13:40	07/01/25 14:03		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1868831 WG2537281
Pace Project No.: 10738535

QC Batch: 1015500
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10738535001, 10738535002, 10738535003

METHOD BLANK: 5294402 Matrix: Water
Associated Lab Samples: 10738535001, 10738535002, 10738535003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	07/01/25 11:00	
3:3 FTCA	ng/L	ND	8.0	07/01/25 11:00	
4:2 FTS	ng/L	ND	6.4	07/01/25 11:00	
5:3 FTCA	ng/L	ND	40.0	07/01/25 11:00	
6:2 FTS	ng/L	ND	6.4	07/01/25 11:00	
7:3 FTCA	ng/L	ND	40.0	07/01/25 11:00	
8:2 FTS	ng/L	ND	6.4	07/01/25 11:00	
9Cl-PF3ONS	ng/L	ND	6.4	07/01/25 11:00	
ADONA	ng/L	ND	6.4	07/01/25 11:00	
HFPO-DA	ng/L	ND	6.4	07/01/25 11:00	
NEtFOSA	ng/L	ND	1.6	07/01/25 11:00	
NEtFOSAA	ng/L	ND	1.6	07/01/25 11:00	
NEtFOSE	ng/L	ND	16.0	07/01/25 11:00	
NFDHA	ng/L	ND	3.2	07/01/25 11:00	
NMeFOSA	ng/L	ND	1.6	07/01/25 11:00	
NMeFOSAA	ng/L	ND	1.6	07/01/25 11:00	
NMeFOSE	ng/L	ND	16.0	07/01/25 11:00	
PFBA	ng/L	ND	6.4	07/01/25 11:00	
PFBS	ng/L	ND	1.6	07/01/25 11:00	
PFDA	ng/L	ND	1.6	07/01/25 11:00	
PFDoA	ng/L	ND	1.6	07/01/25 11:00	
PFDoS	ng/L	ND	1.6	07/01/25 11:00	
PFDS	ng/L	ND	1.6	07/01/25 11:00	
PFEESA	ng/L	ND	3.2	07/01/25 11:00	
PFHpA	ng/L	ND	1.6	07/01/25 11:00	
PFHpS	ng/L	ND	1.6	07/01/25 11:00	
PFHxA	ng/L	ND	1.6	07/01/25 11:00	
PFHxS	ng/L	ND	1.6	07/01/25 11:00	
PFMBA	ng/L	ND	3.2	07/01/25 11:00	
PFMPA	ng/L	ND	3.2	07/01/25 11:00	
PFNA	ng/L	ND	1.6	07/01/25 11:00	
PFNS	ng/L	ND	1.6	07/01/25 11:00	
PFOA	ng/L	ND	1.6	07/01/25 11:00	
PFOS	ng/L	ND	1.6	07/01/25 11:00	
PFOSA	ng/L	ND	1.6	07/01/25 11:00	
PFPeA	ng/L	ND	3.2	07/01/25 11:00	
PFPeS	ng/L	ND	1.6	07/01/25 11:00	
PFTeDA	ng/L	ND	1.6	07/01/25 11:00	
PFTrDA	ng/L	ND	1.6	07/01/25 11:00	
PFUnA	ng/L	ND	1.6	07/01/25 11:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1868831 WG2537281
Pace Project No.: 10738535

METHOD BLANK: 5294402 Matrix: Water
Associated Lab Samples: 10738535001, 10738535002, 10738535003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	54	10-130	07/01/25 11:00	
13C2-PFTA (S)	%.	54	10-130	07/01/25 11:00	
13C24:2FTS (S)	%.	63	40-200	07/01/25 11:00	
13C26:2FTS (S)	%.	59	40-200	07/01/25 11:00	
13C28:2FTS (S)	%.	61	40-300	07/01/25 11:00	
13C3-PFBS (S)	%.	59	40-135	07/01/25 11:00	
13C3-PFHxS (S)	%.	57	40-130	07/01/25 11:00	
13C3-PFPrA (S)	%.	86	5-130	07/01/25 11:00	
13C3HFPO-DA (S)	%.	63	40-130	07/01/25 11:00	
13C4-PFBA (S)	%.	63	5-130	07/01/25 11:00	
13C4-PFHpA (S)	%.	61	40-130	07/01/25 11:00	
13C5-PFHxA (S)	%.	59	40-130	07/01/25 11:00	
13C5-PFPeA (S)	%.	61	40-130	07/01/25 11:00	
13C6-PFDA (S)	%.	57	40-130	07/01/25 11:00	
13C7-PFUdA (S)	%.	63	30-130	07/01/25 11:00	
13C8-PFOA (S)	%.	55	40-130	07/01/25 11:00	
13C8-PFOS (S)	%.	56	40-130	07/01/25 11:00	
13C8-PFOSA (S)	%.	52	40-130	07/01/25 11:00	
13C9-PFNA (S)	%.	58	40-130	07/01/25 11:00	
d3-MeFOSAA (S)	%.	48	40-170	07/01/25 11:00	
d3-NMeFOSA (S)	%.	46	10-130	07/01/25 11:00	
d5-EtFOSAA (S)	%.	46	25-135	07/01/25 11:00	
d5-NEtFOSA (S)	%.	47	10-130	07/01/25 11:00	
d7-NMeFOSE (S)	%.	57	10-130	07/01/25 11:00	
d9-NEtFOSE (S)	%.	59	10-130	07/01/25 11:00	

LABORATORY CONTROL SAMPLE: 5294403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	67.6	90	55-160	
3:3 FTCA	ng/L	99.2	67.5	68	65-130	
4:2 FTS	ng/L	75.2	68.6	91	70-145	
5:3 FTCA	ng/L	496	435	88	70-135	
6:2 FTS	ng/L	76.8	69.6	91	65-155	
7:3 FTCA	ng/L	496	413	83	50-145	
8:2 FTS	ng/L	76.8	70.5	92	60-150	
9Cl-PF3ONS	ng/L	75.2	69.3	92	70-155	
ADONA	ng/L	75.2	67.2	89	65-145	
HFPO-DA	ng/L	80	68.3	85	70-140	
NEtFOSA	ng/L	19.2	17.2	89	65-145	
NEtFOSAA	ng/L	19.2	17.6	92	70-145	
NEtFOSE	ng/L	192	173	90	70-135	
NFDHA	ng/L	40	34.0	85	50-150	
NMeFOSA	ng/L	19.2	17.8	93	60-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1868831 WG2537281
Pace Project No.: 10738535

LABORATORY CONTROL SAMPLE: 5294403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ng/L	19.2	17.1	89	50-140	
NMeFOSE	ng/L	192	175	91	70-145	
PFBA	ng/L	80	71.0	89	70-140	
PFBS	ng/L	17.6	15.7	89	60-145	
PFDA	ng/L	19.2	17.0	89	70-140	
PFDoA	ng/L	19.2	17.8	93	70-140	
PFDoS	ng/L	19.2	16.8	88	50-145	
PFDS	ng/L	19.2	15.6	81	60-145	
PFEESA	ng/L	35.2	32.5	92	70-140	
PFHpA	ng/L	19.2	16.3	85	70-150	
PFHpS	ng/L	19.2	16.3	85	70-150	
PFHxA	ng/L	19.2	17.2	90	70-145	
PFHxS	ng/L	17.6	15.2	86	65-145	
PFMBA	ng/L	40	35.4	89	60-150	
PFMPA	ng/L	40	35.3	88	55-140	
PFNA	ng/L	19.2	17.6	92	70-150	
PFNS	ng/L	19.2	16.9	88	65-145	
PFOA	ng/L	19.2	16.8	87	70-150	
PFOS	ng/L	19.2	15.6	81	55-150	
PFOSA	ng/L	19.2	17.4	90	70-145	
PFPeA	ng/L	40	35.2	88	65-135	
PFPeS	ng/L	19.2	16.5	86	65-140	
PFTeDA	ng/L	19.2	17.7	92	60-140	
PFTrDA	ng/L	19.2	18.4	96	65-140	
PFUnA	ng/L	19.2	17.4	91	70-145	
13C2-PFDoA (S)	%.			68	10-130	
13C2-PFTA (S)	%.			66	10-130	
13C24:2FTS (S)	%.			61	40-200	
13C26:2FTS (S)	%.			65	40-200	
13C28:2FTS (S)	%.			73	40-300	
13C3-PFBS (S)	%.			65	40-135	
13C3-PFHxS (S)	%.			68	40-130	
13C3-PFPrA (S)	%.			85	5-130	
13C3HFPO-DA (S)	%.			71	40-130	
13C4-PFBA (S)	%.			67	5-130	
13C4-PFHpA (S)	%.			72	40-130	
13C5-PFHxA (S)	%.			69	40-130	
13C5-PFPeA (S)	%.			67	40-130	
13C6-PFDA (S)	%.			69	40-130	
13C7-PFUdA (S)	%.			73	30-130	
13C8-PFOA (S)	%.			67	40-130	
13C8-PFOS (S)	%.			70	40-130	
13C8-PFOSA (S)	%.			62	40-130	
13C9-PFNA (S)	%.			68	40-130	
d3-MeFOSAA (S)	%.			65	40-170	
d3-NMeFOSA (S)	%.			54	10-130	
d5-EtFOSAA (S)	%.			61	25-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1868831 WG2537281
Pace Project No.: 10738535

LABORATORY CONTROL SAMPLE: 5294403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			54	10-130	
d7-NMeFOSE (S)	%.			69	10-130	
d9-NEtFOSE (S)	%.			70	10-130	

LABORATORY CONTROL SAMPLE: 5294404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	10.1	84	55-160	
3:3 FTCA	ng/L	15.9	11.4	72	65-130	
4:2 FTS	ng/L	12	10.4	86	70-145	
5:3 FTCA	ng/L	79.4	75.4	95	70-135	
6:2 FTS	ng/L	12.3	10.8	88	65-155	
7:3 FTCA	ng/L	79.4	78.3	99	50-145	
8:2 FTS	ng/L	12.3	10.7	87	60-150	
9Cl-PF3ONS	ng/L	12	11.7	98	70-155	
ADONA	ng/L	12	11.5	95	65-145	
HFPO-DA	ng/L	12.8	11.1	87	70-140	
NEtFOSA	ng/L	3.1	2.9	94	65-145	
NEtFOSAA	ng/L	3.1	2.7	87	70-145	
NEtFOSE	ng/L	30.7	27.7	90	70-135	
NFDHA	ng/L	6.4	5.5	86	50-150	
NMeFOSA	ng/L	3.1	3.1	101	60-150	
NMeFOSAA	ng/L	3.1	3.1	100	50-140	
NMeFOSE	ng/L	30.7	27.6	90	70-145	
PFBA	ng/L	12.8	10.9	85	70-140	
PFBS	ng/L	2.8	2.5	89	60-145	
PFDA	ng/L	3.1	2.7	89	70-140	
PFDoA	ng/L	3.1	2.9	94	70-140	
PFDoS	ng/L	3.1	2.5	80	50-145	
PFDS	ng/L	3.1	2.8	90	60-145	
PFEESA	ng/L	5.6	5.1	90	70-140	
PFHpA	ng/L	3.1	2.8	93	70-150	
PFHpS	ng/L	3.1	3.0	99	70-150	
PFHxA	ng/L	3.1	2.8	90	70-145	
PFHxS	ng/L	2.8	2.5	87	65-145	
PFMBA	ng/L	6.4	5.6	87	60-150	
PFMPA	ng/L	6.4	5.6	87	55-140	
PFNA	ng/L	3.1	2.6	85	70-150	
PFNS	ng/L	3.1	2.8	91	65-145	
PFOA	ng/L	3.1	2.9	93	70-150	
PFOS	ng/L	3.1	2.8	92	55-150	
PFOSA	ng/L	3.1	2.8	92	70-145	
PFPeA	ng/L	6.4	5.5	86	65-135	
PFPeS	ng/L	3.1	2.5	83	65-140	
PFTeDA	ng/L	3.1	3.1	100	60-140	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1868831 WG2537281
Pace Project No.: 10738535

LABORATORY CONTROL SAMPLE: 5294404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ng/L	3.1	2.6	86	65-140	
PFUnA	ng/L	3.1	2.9	95	70-145	
13C2-PFDoA (S)	%.			78	10-130	
13C2-PFTA (S)	%.			65	10-130	
13C24:2FTS (S)	%.			63	40-200	
13C26:2FTS (S)	%.			58	40-200	
13C28:2FTS (S)	%.			56	40-300	
13C3-PFBS (S)	%.			90	40-135	
13C3-PFHxS (S)	%.			88	40-130	
13C3-PFPrA (S)	%.			101	5-130	
13C3HFPO-DA (S)	%.			87	40-130	
13C4-PFBA (S)	%.			90	5-130	
13C4-PFHpA (S)	%.			85	40-130	
13C5-PFHxA (S)	%.			89	40-130	
13C5-PFPeA (S)	%.			91	40-130	
13C6-PFDA (S)	%.			88	40-130	
13C7-PFUdA (S)	%.			88	30-130	
13C8-PFOA (S)	%.			87	40-130	
13C8-PFOS (S)	%.			88	40-130	
13C8-PFOSA (S)	%.			83	40-130	
13C9-PFNA (S)	%.			87	40-130	
d3-MeFOSAA (S)	%.			64	40-170	
d3-NMeFOSA (S)	%.			59	10-130	
d5-EtFOSAA (S)	%.			63	25-135	
d5-NEtFOSA (S)	%.			64	10-130	
d7-NMeFOSE (S)	%.			77	10-130	
d9-NEtFOSE (S)	%.			70	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: L1868831 WG2537281
Pace Project No.: 10738535

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10738535003

[1] The ion ratio is outside of the control limits for PFHpA

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1868831 WG2537281
Pace Project No.: 10738535

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10738535001	**DWS-24**	EPA 1633	1015500	EPA 1633	1016477
10738535002	**DWS-92**	EPA 1633	1015500	EPA 1633	1016477
10738535003	**TRIP BLANK**	EPA 1633	1015500	EPA 1633	1016477

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sub-Contract Chain of Custody

Batch Date/Time: 06/12/25 15:59
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2537281
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 07/03/25
ESC Purchase Order #: L1868831
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
DWS-24 250mlHDPE NoPres - 52373924 250mlHDPE NoPres - 52373925	GW	NM	06/10/25 14:30	PFAS1633	1. L1868831-01	Level 4
DWS-92 250mlHDPE NoPres - 52373926 250mlHDPE NoPres - 52373927	GW	NM	06/10/25 14:30	PFAS1633	2. L1868831-02	Level 4
TRIP BLANK 250mlHDPE NoPres - 52373928	GW	NM	06/10/25 14:30	PFAS1633	3. L1868831-03	Level 4

*= Container used for multiple Samples and/or Analyses

Relinquished by: _____ Date 6-12-25

Received by: TW Pace Date 6/13/25 850

Relinquished by: _____ Date _____

Received by: _____ Date _____

WO# : 10738535

10738535

ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: JNW 6/13/25 PROJECT #: **WO#: 10738535**

PM: TKL Due Date: 07/07/25

CLIENT: PASI-TN

Client Name: Pace MPLS

Custody Seal Present: ☑ YES ☐ NO Seals Intact: ☑ YES ☐ NO

Tracking Number: 4580 6308 7908 ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☐ Bubble Bags ☐ Bubble Wrap ☑ None ☐ Other: _____ Biological Tissue Frozen: ☐ YES ☑ NO

Thermometer: ☐ T1 (0461) ☐ T2 (0431) ☐ T3 (0459) ☑ T4 (0402) ☐ T5 (0187) ☐ T6 (0396) ☐ T7 (0377) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Temp Blank: ☑ YES ☐ NO

NOTE: Temp should be ≤ 6°C, but above freezing.

Read Temp w/Temp Blank: 5.3 °C

Correction Factor: -0.2

Corrected Temp w/Temp Blank: 5.1 °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): _____

☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☐ N/A – Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☐ NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☐	☑	3. IR
Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr	☑	☐		4.
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other:
Rush Turn Around Time Requested?	☑	☐		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date: 7/3/25 PFAS
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	☑	☐		7.
Correct Containers Used? -- Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? (If NO, fill out section 11.) Matrix: ☐ Oil ☐ Soil ☑ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.
Sample #: ☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____ **pH Paper Lot #:** ☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip _____ Positive for Residual Chlorine (NaOH containers only): ☐ YES ☐ NO				
Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0142
EXCECTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐	☐	☑	
Extra labels present on soil VOA or WIDRO containers? (soil only)	☐	☐	☑	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION:

Labeled By: JNW Line: 3

Person Contacted & Date/Time: _____ PM Review & Date: Archer Richardson 6/13/25

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.

ANALYTICAL REPORT

August 19, 2025

Re ised Re ort

INTERA - Albuquerque, NM

a le eli er rou : L1886340

a les Recei ed: 08/08/2025

Project Nu ber:

escri tion: P A

Re ort To: L nda Price
2440 Louisiana l d
uite 700
Albuquerque, NM 87110

Entire Re ort Re ie ed :

Jordan N Zito
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



TA LE NTENT

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Gl: Glossary of Terms 5

Al: Accreditations & Locations 6

Sc: Sample Chain of Custody 7

-06 L1886340-01

Collected by: Stella Finch | Collected date/time: 08/07/25 09:09 | Received date/time: 08/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2575921	1	08/19/25 00:00	08/19/25 00:00	ANF	Minneapolis, MN 55414

-07 L1886340-02

Collected by: Stella Finch | Collected date/time: 08/07/25 09:38 | Received date/time: 08/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2575921	1	08/19/25 00:00	08/19/25 00:00	ANF	Minneapolis, MN 55414

-04 L1886340-03

Collected by: Stella Finch | Collected date/time: 08/07/25 10:28 | Received date/time: 08/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2575921	1	08/19/25 00:00	08/19/25 00:00	ANF	Minneapolis, MN 55414

-93 L1886340-04

Collected by: Stella Finch | Collected date/time: 08/07/25 12:28 | Received date/time: 08/08/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2575921	1	08/19/25 00:00	08/19/25 00:00	ANF	Minneapolis, MN 55414

All sa le aliquots ere recei ed at t e correct te erature, in t e ro er containers, it t e a ro riate reser ati es, and it in et od s ecified olding ti es, unless qualified or notated it in t e re ort ere a licable, all M L L and R L L alues re orted for en iron ental sa les a e been corrected for t e dilution factor used in t e anal sis All Met od and atc ualit ontrol are it in establis ed criteria e ce t ere addressed in t is case narrati e, a non-confor ance for or ro erl qualified it in t e sa le results digital signature belo , l affir to t e best of no ledge, all roble s/ano alies obser ed b t e laborator as a ing t e otential to affect t e qualit of t e data a e been identified b t e laborator , and no infor ation or data a e been no ingl it eld t at ould affect t e qualit of t e data



Jordan N Zito
Project Manager

Re ort Re ision istor

Le el II Re ort - ersion 1: 08/19/25 15:32

Project Narrati e

L1886340 -01, -02, -03, -04 contains subout data t at is included after t e c ain of custod

uide to Reading and nderstanding our Laborator Re ort

T e infor ation belo is designed to better e lain t e arious ter s used in our re ort of anal tical results fro t e Laborator T is is not intended as a co re ensi e e lanation, and if ou a e additional questions lease contact our roject re resentati e

Results isclai er - Infor ation t at a be ro ided b t e custo er, and contained it in t is re ort, include Per it Li its, Project Na e, a le I , a le Matri , a le Preser ation, ield lan s, ield i es, ield u licates, n- ite ata, a ling ollection ates/Ti es, and a ling Location Results relate to t e accurac of t is infor ation ro ided, and as t e sa les are recei ed

Abbre iations and efinitions

	a le eli er rou
ncertaint Radioc e istr	onfidence le el of 2 sig a
Radioc e istr	Result Error M A
J Radioc e istr	Result M A Result Error M A
ase Narrati e n	A brief discussion about t e included sa le results, including a discussion of an non-confor ances to rotocol obser ed eit er at sa le recei t b t e laborator fro t e field or during t e anal tical rocess If resent, t ere ill be a section in t e ase Narrati e to discuss t e eaning of an data qualifiers used in t e re ort
ualit ontrol u ar c	T is section of t e re ort includes t e results of t e laborator qualit control anal ses required b rocedure or anal tical et ods to assist in e aluating t e alidit of t e results re orted for our sa les T ese anal ses are not being erfor ed on our sa les t ical , but on laborator generated aterial
a le ain of ustod c	T is is t e docu ent created in t e field en our sa les ere initiall collected T is is used to erif t e ti e and date of collection, t e erson collecting t e sa les, and t e anal ses t at t e laborator is requested to erfor T is c ain of custod also docu ents all ersons e cluding co ercial s i ers t at a e ad control or ossession of t e sa les fro t e ti e of collection until deli er to t e laborator for anal sis
a le Results r	T is section of our re ort ill ro ide t e results of all testing erfor ed on our sa les T ese results are ro ided b sa le I and are se arated b t e anal ses erfor ed on eac sa le T e eader line of eac anal sis section for eac sa le ill ro ide t e na e and et od nu ber for t e anal sis re orted
a le u ar s	T is section of t e Anal tical Re ort defines t e s ecific anal ses erfor ed for eac sa le I , including t e dates and ti es of re aration and/or anal sis

ualifier escri tion

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Anal tical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
INTERA - Albuquerque, NM

2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Billing Information:
Lynda Price
2440 Louisiana Blvd
Suite 700
Albuquerque, NM 87110

Pres Chk

Report to:
Lynda Price

Email To: lprice@intera.com

Project Description:
SFC PFAS

City/State Collected: NM

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc): —

Client Project #

Lab Project #
INTERAANM-PFAS

Collected by (print):
Stella Finch

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day X STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

SUBPFAS1633 PFAS-500HDPE-NoPres

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

J048

L1886340

Acctnum: INTERAANM
Template: T271065
Prelogin: P1167014
PM: 942 - Jordan N Zito
PB: 01/23/25

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SUBPFAS1633 PFAS-500HDPE-NoPres	Remarks	Sample # (lab only)
SWS-06	Grab	SW	—	8/7/25	0909	2	X		-01
SWS-07	Grab	SW	—	8/7/25	0938	2	X		02
SWS-04	Grab	SW	—	8/7/25	1020	2	X		03
DWS-93	GRAB	GW	—	8/7/25	1228	2	X		04
		GW							
		GW							
		GW							

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Lynda Price	8/7/25	1430		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.5 °C Bottles Received: 8
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/8/25 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

August 19, 2025

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1886340 WG2575921
Pace Project No.: 10745472

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on August 09, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for Testing & Innovation

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: L1886340 WG2575921
Pace Project No.: 10745472

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification via A2LA #: R-036
North Dakota Certification via MN #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: L1886340 WG2575921
Pace Project No.: 10745472

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10745472001	**SWS-06**	Water	08/07/25 09:09	08/09/25 09:15
10745472002	**SWS-07**	Water	08/07/25 09:38	08/09/25 09:15
10745472003	**SWS-04**	Water	08/07/25 10:28	08/09/25 09:15
10745472004	**DWS-93**	Water	08/07/25 12:28	08/09/25 09:15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: L1886340 WG2575921
Pace Project No.: 10745472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10745472001	**SWS-06**	EPA 1633	NBH	65	PASI-M
10745472002	**SWS-07**	EPA 1633	NBH	65	PASI-M
10745472003	**SWS-04**	EPA 1633	NBH	65	PASI-M
10745472004	**DWS-93**	EPA 1633	NBH	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1886340 WG2575921
Pace Project No.: 10745472

Sample: SWS-06 **Lab ID: 10745472001** Collected: 08/07/25 09:09 Received: 08/09/25 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 483.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.6	1	08/14/25 07:45	08/16/25 17:32	763051-92-9	
3:3 FTCA	ND	ng/L	8.3	1	08/14/25 07:45	08/16/25 17:32	356-02-5	
4:2 FTS	ND	ng/L	6.6	1	08/14/25 07:45	08/16/25 17:32	757124-72-4	
5:3 FTCA	ND	ng/L	41.4	1	08/14/25 07:45	08/16/25 17:32	914637-49-3	
6:2 FTS	ND	ng/L	6.6	1	08/14/25 07:45	08/16/25 17:32	27619-97-2	
7:3 FTCA	ND	ng/L	41.4	1	08/14/25 07:45	08/16/25 17:32	812-70-4	
8:2 FTS	ND	ng/L	6.6	1	08/14/25 07:45	08/16/25 17:32	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.6	1	08/14/25 07:45	08/16/25 17:32	756426-58-1	
ADONA	ND	ng/L	6.6	1	08/14/25 07:45	08/16/25 17:32	919005-14-4	
HFPO-DA	ND	ng/L	6.6	1	08/14/25 07:45	08/16/25 17:32	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	4151-50-2	
NEtFOSE	ND	ng/L	16.5	1	08/14/25 07:45	08/16/25 17:32	1691-99-2	
NFDHA	ND	ng/L	3.3	1	08/14/25 07:45	08/16/25 17:32	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	31506-32-8	
NMeFOSE	ND	ng/L	16.5	1	08/14/25 07:45	08/16/25 17:32	24448-09-7	
PFBS	**2.6**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	375-73-5	
PFDA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	335-76-2	
PFHxA	**15.0**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	307-24-4	
PFBA	**9.4**	ng/L	6.6	1	08/14/25 07:45	08/16/25 17:32	375-22-4	
PFDS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	335-77-3	
PFDoS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	79780-39-5	
PFEESA	ND	ng/L	3.3	1	08/14/25 07:45	08/16/25 17:32	113507-82-7	
PFHpS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	375-92-8	
PFMBA	ND	ng/L	3.3	1	08/14/25 07:45	08/16/25 17:32	863090-89-5	
PFMPA	ND	ng/L	3.3	1	08/14/25 07:45	08/16/25 17:32	377-73-1	
PFNS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	68259-12-1	
PFOSA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	754-91-6	
PFPeA	**25.7**	ng/L	3.3	1	08/14/25 07:45	08/16/25 17:32	2706-90-3	
PFPeS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	2706-91-4	
PFDoA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	307-55-1	
PFHpA	**1.7**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	375-85-9	
PFHxS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	355-46-4	
PFNA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	375-95-1	
PFOS	**2.5**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	1763-23-1	
PFOA	**9.5**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	335-67-1	
PFTeDA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	376-06-7	
PFTrDA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	72629-94-8	
PFUnA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:32	2058-94-8	
Surrogates								
13C2-PFDoA (S)	70	%.	10-130	1	08/14/25 07:45	08/16/25 17:32		
13C3HFPO-DA (S)	86	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		
13C3-PFBS (S)	83	%.	40-135	1	08/14/25 07:45	08/16/25 17:32		
13C3-PFHxS (S)	86	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1886340 WG2575921
Pace Project No.: 10745472

Sample: SWS-06 **Lab ID: 10745472001** Collected: 08/07/25 09:09 Received: 08/09/25 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 483.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	77	%.	5-130	1	08/14/25 07:45	08/16/25 17:32		
13C4-PFHpA (S)	84	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		
13C5-PFHxA (S)	87	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		
13C5-PFPeA (S)	85	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		
13C6-PFDA (S)	86	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		
13C8-PFOA (S)	86	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		
13C8-PFOS (S)	82	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		
13C8-PFOSA (S)	77	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		
13C9-PFNA (S)	81	%.	40-130	1	08/14/25 07:45	08/16/25 17:32		
d3-MeFOSAA (S)	83	%.	40-170	1	08/14/25 07:45	08/16/25 17:32		
d3-NMeFOSA (S)	69	%.	10-130	1	08/14/25 07:45	08/16/25 17:32		
d5-EtFOSAA (S)	78	%.	25-135	1	08/14/25 07:45	08/16/25 17:32		
d5-NEtFOSA (S)	64	%.	10-130	1	08/14/25 07:45	08/16/25 17:32		
d7-NMeFOSE (S)	61	%.	10-130	1	08/14/25 07:45	08/16/25 17:32		
d9-NEtFOSE (S)	58	%.	10-130	1	08/14/25 07:45	08/16/25 17:32		
13C2-PFTA (S)	50	%.	10-130	1	08/14/25 07:45	08/16/25 17:32		
13C7-PFUdA (S)	82	%.	30-130	1	08/14/25 07:45	08/16/25 17:32		
13C24:2FTS (S)	103	%.	40-200	1	08/14/25 07:45	08/16/25 17:32		
13C26:2FTS (S)	125	%.	40-200	1	08/14/25 07:45	08/16/25 17:32		
13C28:2FTS (S)	113	%.	40-300	1	08/14/25 07:45	08/16/25 17:32		
13C3-PFPrA (S)	3	%.	5-130	1	08/14/25 07:45	08/16/25 17:32		S0

Sample: SWS-07 **Lab ID: 10745472002** Collected: 08/07/25 09:38 Received: 08/09/25 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 446.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	7.2	1	08/14/25 07:45	08/16/25 17:42	763051-92-9	
3:3 FTCA	ND	ng/L	9.0	1	08/14/25 07:45	08/16/25 17:42	356-02-5	
4:2 FTS	ND	ng/L	7.2	1	08/14/25 07:45	08/16/25 17:42	757124-72-4	
5:3 FTCA	ND	ng/L	44.8	1	08/14/25 07:45	08/16/25 17:42	914637-49-3	
6:2 FTS	ND	ng/L	7.2	1	08/14/25 07:45	08/16/25 17:42	27619-97-2	
7:3 FTCA	ND	ng/L	44.8	1	08/14/25 07:45	08/16/25 17:42	812-70-4	
8:2 FTS	ND	ng/L	7.2	1	08/14/25 07:45	08/16/25 17:42	39108-34-4	
9Cl-PF3ONS	ND	ng/L	7.2	1	08/14/25 07:45	08/16/25 17:42	756426-58-1	
ADONA	ND	ng/L	7.2	1	08/14/25 07:45	08/16/25 17:42	919005-14-4	
HFPO-DA	ND	ng/L	7.2	1	08/14/25 07:45	08/16/25 17:42	13252-13-6	
NEtFOSAA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	2991-50-6	
NEtFOSA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	4151-50-2	
NEtFOSE	ND	ng/L	17.9	1	08/14/25 07:45	08/16/25 17:42	1691-99-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1886340 WG2575921
Pace Project No.: 10745472

Sample: SWS-07 **Lab ID: 10745472002** Collected: 08/07/25 09:38 Received: 08/09/25 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 446.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
NFDHA	ND	ng/L	3.6	1	08/14/25 07:45	08/16/25 17:42	151772-58-6	
NMeFOSAA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	2355-31-9	
NMeFOSA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	31506-32-8	
NMeFOSE	ND	ng/L	17.9	1	08/14/25 07:45	08/16/25 17:42	24448-09-7	
PFBS	**3.7**	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	375-73-5	
PFDA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	335-76-2	
PFHxA	**16.3**	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	307-24-4	
PFBA	**9.1**	ng/L	7.2	1	08/14/25 07:45	08/16/25 17:42	375-22-4	
PFDS	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	335-77-3	
PFDoS	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	79780-39-5	
PFEESA	ND	ng/L	3.6	1	08/14/25 07:45	08/16/25 17:42	113507-82-7	
PFHpS	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	375-92-8	
PFMBA	ND	ng/L	3.6	1	08/14/25 07:45	08/16/25 17:42	863090-89-5	
PFMPA	ND	ng/L	3.6	1	08/14/25 07:45	08/16/25 17:42	377-73-1	
PFNS	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	68259-12-1	
PFOSA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	754-91-6	
PFPeA	**24.9**	ng/L	3.6	1	08/14/25 07:45	08/16/25 17:42	2706-90-3	
PFPeS	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	2706-91-4	
PFDoA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	307-55-1	
PFHpA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	375-85-9	
PFHxS	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	355-46-4	
PFNA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	375-95-1	
PFOS	**2.5**	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	1763-23-1	
PFOA	**9.6**	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	335-67-1	
PFTeDA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	376-06-7	
PFTrDA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	72629-94-8	
PFUnA	ND	ng/L	1.8	1	08/14/25 07:45	08/16/25 17:42	2058-94-8	
Surrogates								
13C2-PFDoA (S)	39	%.	10-130	1	08/14/25 07:45	08/16/25 17:42		
13C3HFPO-DA (S)	44	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		
13C3-PFBS (S)	41	%.	40-135	1	08/14/25 07:45	08/16/25 17:42		
13C3-PFHxS (S)	41	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		
13C4-PFBA (S)	54	%.	5-130	1	08/14/25 07:45	08/16/25 17:42		
13C4-PFHpA (S)	42	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		
13C5-PFHxA (S)	43	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		
13C5-PFPeA (S)	47	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		
13C6-PFDA (S)	39	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		S0
13C8-PFOA (S)	42	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		
13C8-PFOS (S)	42	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		
13C8-PFOSA (S)	39	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		S0
13C9-PFNA (S)	41	%.	40-130	1	08/14/25 07:45	08/16/25 17:42		
d3-MeFOSAA (S)	38	%.	40-170	1	08/14/25 07:45	08/16/25 17:42		S0
d3-NMeFOSA (S)	34	%.	10-130	1	08/14/25 07:45	08/16/25 17:42		
d5-EtFOSAA (S)	38	%.	25-135	1	08/14/25 07:45	08/16/25 17:42		
d5-NEtFOSA (S)	33	%.	10-130	1	08/14/25 07:45	08/16/25 17:42		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1886340 WG2575921
Pace Project No.: 10745472

Sample: SWS-07 **Lab ID: 10745472002** Collected: 08/07/25 09:38 Received: 08/09/25 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 446.7 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
d7-NMeFOSE (S)	33	%.	10-130	1	08/14/25 07:45	08/16/25 17:42		
d9-NEtFOSE (S)	32	%.	10-130	1	08/14/25 07:45	08/16/25 17:42		
13C2-PFTA (S)	33	%.	10-130	1	08/14/25 07:45	08/16/25 17:42		
13C7-PFUdA (S)	40	%.	30-130	1	08/14/25 07:45	08/16/25 17:42		
13C24:2FTS (S)	47	%.	40-200	1	08/14/25 07:45	08/16/25 17:42		
13C26:2FTS (S)	50	%.	40-200	1	08/14/25 07:45	08/16/25 17:42		
13C28:2FTS (S)	49	%.	40-300	1	08/14/25 07:45	08/16/25 17:42		
13C3-PFPrA (S)	3	%.	5-130	1	08/14/25 07:45	08/16/25 17:42		S0

Sample: SWS-04 **Lab ID: 10745472003** Collected: 08/07/25 10:28 Received: 08/09/25 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 462.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.9	1	08/14/25 07:45	08/16/25 17:52	763051-92-9	
3:3 FTCA	ND	ng/L	8.7	1	08/14/25 07:45	08/16/25 17:52	356-02-5	
4:2 FTS	ND	ng/L	6.9	1	08/14/25 07:45	08/16/25 17:52	757124-72-4	
5:3 FTCA	ND	ng/L	43.3	1	08/14/25 07:45	08/16/25 17:52	914637-49-3	
6:2 FTS	ND	ng/L	6.9	1	08/14/25 07:45	08/16/25 17:52	27619-97-2	
7:3 FTCA	ND	ng/L	43.3	1	08/14/25 07:45	08/16/25 17:52	812-70-4	
8:2 FTS	ND	ng/L	6.9	1	08/14/25 07:45	08/16/25 17:52	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.9	1	08/14/25 07:45	08/16/25 17:52	756426-58-1	
ADONA	ND	ng/L	6.9	1	08/14/25 07:45	08/16/25 17:52	919005-14-4	
HFPO-DA	ND	ng/L	6.9	1	08/14/25 07:45	08/16/25 17:52	13252-13-6	
NEtFOSAA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	2991-50-6	
NEtFOSA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	4151-50-2	
NEtFOSE	ND	ng/L	17.3	1	08/14/25 07:45	08/16/25 17:52	1691-99-2	
NFDHA	ND	ng/L	3.5	1	08/14/25 07:45	08/16/25 17:52	151772-58-6	
NMeFOSAA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	2355-31-9	
NMeFOSA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	31506-32-8	
NMeFOSE	ND	ng/L	17.3	1	08/14/25 07:45	08/16/25 17:52	24448-09-7	
PFBS	**4.2**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	375-73-5	
PFDA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	335-76-2	
PFHxA	**15.6**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	307-24-4	
PFBA	**14.1**	ng/L	6.9	1	08/14/25 07:45	08/16/25 17:52	375-22-4	
PFDS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	335-77-3	
PFDoS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	79780-39-5	
PFEESA	ND	ng/L	3.5	1	08/14/25 07:45	08/16/25 17:52	113507-82-7	
PFHpS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	375-92-8	
PFMBA	ND	ng/L	3.5	1	08/14/25 07:45	08/16/25 17:52	863090-89-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1886340 WG2575921
Pace Project No.: 10745472

Sample: SWS-04 **Lab ID: 10745472003** Collected: 08/07/25 10:28 Received: 08/09/25 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 462.3 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
PFMPA	ND	ng/L	3.5	1	08/14/25 07:45	08/16/25 17:52	377-73-1	
PFNS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	68259-12-1	
PFOSA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	754-91-6	
PFPeA	**23.8**	ng/L	3.5	1	08/14/25 07:45	08/16/25 17:52	2706-90-3	
PFPeS	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	2706-91-4	
PFDoA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	307-55-1	
PFHpA	**2.0**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	375-85-9	
PFHxS	**2.4**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	355-46-4	
PFNA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	375-95-1	
PFOS	**6.0**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	1763-23-1	
PFOA	**11.5**	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	335-67-1	
PFTeDA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	376-06-7	
PFTrDA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	72629-94-8	
PFUnA	ND	ng/L	1.7	1	08/14/25 07:45	08/16/25 17:52	2058-94-8	
Surrogates								
13C2-PFDoA (S)	75	%.	10-130	1	08/14/25 07:45	08/16/25 17:52		
13C3HFPO-DA (S)	91	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
13C3-PFBS (S)	82	%.	40-135	1	08/14/25 07:45	08/16/25 17:52		
13C3-PFHxS (S)	90	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
13C4-PFBA (S)	81	%.	5-130	1	08/14/25 07:45	08/16/25 17:52		
13C4-PFHpA (S)	86	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
13C5-PFHxA (S)	89	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
13C5-PFPeA (S)	87	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
13C6-PFDA (S)	88	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
13C8-PFOA (S)	85	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
13C8-PFOS (S)	86	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
13C8-PFOSA (S)	77	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
13C9-PFNA (S)	86	%.	40-130	1	08/14/25 07:45	08/16/25 17:52		
d3-MeFOSAA (S)	76	%.	40-170	1	08/14/25 07:45	08/16/25 17:52		
d3-NMeFOSA (S)	72	%.	10-130	1	08/14/25 07:45	08/16/25 17:52		
d5-EtFOSAA (S)	75	%.	25-135	1	08/14/25 07:45	08/16/25 17:52		
d5-NEtFOSA (S)	69	%.	10-130	1	08/14/25 07:45	08/16/25 17:52		
d7-NMeFOSE (S)	64	%.	10-130	1	08/14/25 07:45	08/16/25 17:52		
d9-NEtFOSE (S)	60	%.	10-130	1	08/14/25 07:45	08/16/25 17:52		
13C2-PFTA (S)	67	%.	10-130	1	08/14/25 07:45	08/16/25 17:52		
13C7-PFUdA (S)	87	%.	30-130	1	08/14/25 07:45	08/16/25 17:52		
13C24:2FTS (S)	102	%.	40-200	1	08/14/25 07:45	08/16/25 17:52		
13C26:2FTS (S)	108	%.	40-200	1	08/14/25 07:45	08/16/25 17:52		
13C28:2FTS (S)	104	%.	40-300	1	08/14/25 07:45	08/16/25 17:52		
13C3-PFPrA (S)	2	%.	5-130	1	08/14/25 07:45	08/16/25 17:52		S0

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1886340 WG2575921
Pace Project No.: 10745472

Sample: DWS-93 **Lab ID: 10745472004** Collected: 08/07/25 12:28 Received: 08/09/25 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 507.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	6.3	1	08/14/25 07:45	08/16/25 18:02	763051-92-9	
3:3 FTCA	ND	ng/L	7.9	1	08/14/25 07:45	08/16/25 18:02	356-02-5	
4:2 FTS	ND	ng/L	6.3	1	08/14/25 07:45	08/16/25 18:02	757124-72-4	
5:3 FTCA	ND	ng/L	39.4	1	08/14/25 07:45	08/16/25 18:02	914637-49-3	
6:2 FTS	ND	ng/L	6.3	1	08/14/25 07:45	08/16/25 18:02	27619-97-2	
7:3 FTCA	ND	ng/L	39.4	1	08/14/25 07:45	08/16/25 18:02	812-70-4	
8:2 FTS	ND	ng/L	6.3	1	08/14/25 07:45	08/16/25 18:02	39108-34-4	
9Cl-PF3ONS	ND	ng/L	6.3	1	08/14/25 07:45	08/16/25 18:02	756426-58-1	
ADONA	ND	ng/L	6.3	1	08/14/25 07:45	08/16/25 18:02	919005-14-4	
HFPO-DA	ND	ng/L	6.3	1	08/14/25 07:45	08/16/25 18:02	13252-13-6	
NEtFOSAA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	2991-50-6	
NEtFOSA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	4151-50-2	
NEtFOSE	ND	ng/L	15.8	1	08/14/25 07:45	08/16/25 18:02	1691-99-2	
NFDHA	ND	ng/L	3.2	1	08/14/25 07:45	08/16/25 18:02	151772-58-6	
NMeFOSAA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	2355-31-9	
NMeFOSA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	31506-32-8	
NMeFOSE	ND	ng/L	15.8	1	08/14/25 07:45	08/16/25 18:02	24448-09-7	
PFBS	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	375-73-5	
PFDA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	335-76-2	
PFHxA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	307-24-4	
PFBA	ND	ng/L	6.3	1	08/14/25 07:45	08/16/25 18:02	375-22-4	
PFDS	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	335-77-3	
PFDoS	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	79780-39-5	
PFEESA	ND	ng/L	3.2	1	08/14/25 07:45	08/16/25 18:02	113507-82-7	
PFHpS	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	375-92-8	
PFMBA	ND	ng/L	3.2	1	08/14/25 07:45	08/16/25 18:02	863090-89-5	
PFMPA	ND	ng/L	3.2	1	08/14/25 07:45	08/16/25 18:02	377-73-1	
PFNS	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	68259-12-1	
PFOSA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	754-91-6	
PFPeA	ND	ng/L	3.2	1	08/14/25 07:45	08/16/25 18:02	2706-90-3	
PFPeS	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	2706-91-4	
PFDoA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	307-55-1	
PFHpA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	375-85-9	
PFHxS	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	355-46-4	
PFNA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	375-95-1	
PFOS	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	1763-23-1	
PFOA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	335-67-1	
PFTeDA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	376-06-7	
PFTrDA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	72629-94-8	
PFUnA	ND	ng/L	1.6	1	08/14/25 07:45	08/16/25 18:02	2058-94-8	
Surrogates								
13C2-PFDoA (S)	66	%.	10-130	1	08/14/25 07:45	08/16/25 18:02		
13C3HFPO-DA (S)	81	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		
13C3-PFBS (S)	76	%.	40-135	1	08/14/25 07:45	08/16/25 18:02		
13C3-PFHxS (S)	75	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: L1886340 WG2575921
Pace Project No.: 10745472

Sample: DWS-93 **Lab ID: 10745472004** Collected: 08/07/25 12:28 Received: 08/09/25 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water	Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 507.4 mL Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C4-PFBA (S)	78	%.	5-130	1	08/14/25 07:45	08/16/25 18:02		
13C4-PFHpA (S)	79	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		
13C5-PFHxA (S)	82	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		
13C5-PFPeA (S)	81	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		
13C6-PFDA (S)	74	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		
13C8-PFOA (S)	77	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		
13C8-PFOS (S)	77	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		
13C8-PFOSA (S)	66	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		
13C9-PFNA (S)	77	%.	40-130	1	08/14/25 07:45	08/16/25 18:02		
d3-MeFOSAA (S)	69	%.	40-170	1	08/14/25 07:45	08/16/25 18:02		
d3-NMeFOSA (S)	64	%.	10-130	1	08/14/25 07:45	08/16/25 18:02		
d5-EtFOSAA (S)	67	%.	25-135	1	08/14/25 07:45	08/16/25 18:02		
d5-NEtFOSA (S)	65	%.	10-130	1	08/14/25 07:45	08/16/25 18:02		
d7-NMeFOSE (S)	65	%.	10-130	1	08/14/25 07:45	08/16/25 18:02		
d9-NEtFOSE (S)	62	%.	10-130	1	08/14/25 07:45	08/16/25 18:02		
13C2-PFTA (S)	68	%.	10-130	1	08/14/25 07:45	08/16/25 18:02		
13C7-PFUdA (S)	75	%.	30-130	1	08/14/25 07:45	08/16/25 18:02		
13C24:2FTS (S)	71	%.	40-200	1	08/14/25 07:45	08/16/25 18:02		
13C26:2FTS (S)	80	%.	40-200	1	08/14/25 07:45	08/16/25 18:02		
13C28:2FTS (S)	79	%.	40-300	1	08/14/25 07:45	08/16/25 18:02		
13C3-PFPrA (S)	6	%.	5-130	1	08/14/25 07:45	08/16/25 18:02		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1886340 WG2575921
Pace Project No.: 10745472

QC Batch: 1023728
QC Batch Method: EPA 1633
Analysis Method: EPA 1633
Analysis Description: EPA 1633F Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10745472001, 10745472002, 10745472003, 10745472004

METHOD BLANK: 5335432 Matrix: Water
Associated Lab Samples: 10745472001, 10745472002, 10745472003, 10745472004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	6.4	08/16/25 16:41	
3:3 FTCA	ng/L	ND	8.0	08/16/25 16:41	
4:2 FTS	ng/L	ND	6.4	08/16/25 16:41	
5:3 FTCA	ng/L	ND	40.0	08/16/25 16:41	
6:2 FTS	ng/L	ND	6.4	08/16/25 16:41	
7:3 FTCA	ng/L	ND	40.0	08/16/25 16:41	
8:2 FTS	ng/L	ND	6.4	08/16/25 16:41	
9Cl-PF3ONS	ng/L	ND	6.4	08/16/25 16:41	
ADONA	ng/L	ND	6.4	08/16/25 16:41	
HFPO-DA	ng/L	ND	6.4	08/16/25 16:41	
NEtFOSA	ng/L	ND	1.6	08/16/25 16:41	
NEtFOSAA	ng/L	ND	1.6	08/16/25 16:41	
NEtFOSE	ng/L	ND	16.0	08/16/25 16:41	
NFDHA	ng/L	ND	3.2	08/16/25 16:41	
NMeFOSA	ng/L	ND	1.6	08/16/25 16:41	
NMeFOSAA	ng/L	ND	1.6	08/16/25 16:41	
NMeFOSE	ng/L	ND	16.0	08/16/25 16:41	
PFBA	ng/L	ND	6.4	08/16/25 16:41	
PFBS	ng/L	ND	1.6	08/16/25 16:41	
PFDA	ng/L	ND	1.6	08/16/25 16:41	
PFDoA	ng/L	ND	1.6	08/16/25 16:41	
PFDoS	ng/L	ND	1.6	08/16/25 16:41	
PFDS	ng/L	ND	1.6	08/16/25 16:41	
PFEESA	ng/L	ND	3.2	08/16/25 16:41	
PFHpA	ng/L	ND	1.6	08/16/25 16:41	
PFHpS	ng/L	ND	1.6	08/16/25 16:41	
PFHxA	ng/L	ND	1.6	08/16/25 16:41	
PFHxS	ng/L	ND	1.6	08/16/25 16:41	
PFMBA	ng/L	ND	3.2	08/16/25 16:41	
PFMPA	ng/L	ND	3.2	08/16/25 16:41	
PFNA	ng/L	ND	1.6	08/16/25 16:41	
PFNS	ng/L	ND	1.6	08/16/25 16:41	
PFOA	ng/L	ND	1.6	08/16/25 16:41	
PFOS	ng/L	ND	1.6	08/16/25 16:41	
PFOSA	ng/L	ND	1.6	08/16/25 16:41	
PFPeA	ng/L	ND	3.2	08/16/25 16:41	
PFPeS	ng/L	ND	1.6	08/16/25 16:41	
PFTeDA	ng/L	ND	1.6	08/16/25 16:41	
PFTrDA	ng/L	ND	1.6	08/16/25 16:41	
PFUnA	ng/L	ND	1.6	08/16/25 16:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1886340 WG2575921
Pace Project No.: 10745472

METHOD BLANK: 5335432 Matrix: Water
Associated Lab Samples: 10745472001, 10745472002, 10745472003, 10745472004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	68	10-130	08/16/25 16:41	
13C2-PFTA (S)	%.	74	10-130	08/16/25 16:41	
13C24:2FTS (S)	%.	67	40-200	08/16/25 16:41	
13C26:2FTS (S)	%.	83	40-200	08/16/25 16:41	
13C28:2FTS (S)	%.	90	40-300	08/16/25 16:41	
13C3-PFBS (S)	%.	69	40-135	08/16/25 16:41	
13C3-PFHxS (S)	%.	67	40-130	08/16/25 16:41	
13C3-PFPrA (S)	%.	65	5-130	08/16/25 16:41	
13C3HFPO-DA (S)	%.	67	40-130	08/16/25 16:41	
13C4-PFBA (S)	%.	69	5-130	08/16/25 16:41	
13C4-PFHpA (S)	%.	66	40-130	08/16/25 16:41	
13C5-PFHxA (S)	%.	68	40-130	08/16/25 16:41	
13C5-PFPeA (S)	%.	69	40-130	08/16/25 16:41	
13C6-PFDA (S)	%.	66	40-130	08/16/25 16:41	
13C7-PFUdA (S)	%.	69	30-130	08/16/25 16:41	
13C8-PFOA (S)	%.	70	40-130	08/16/25 16:41	
13C8-PFOS (S)	%.	67	40-130	08/16/25 16:41	
13C8-PFOSA (S)	%.	62	40-130	08/16/25 16:41	
13C9-PFNA (S)	%.	68	40-130	08/16/25 16:41	
d3-MeFOSAA (S)	%.	72	40-170	08/16/25 16:41	
d3-NMeFOSA (S)	%.	55	10-130	08/16/25 16:41	
d5-EtFOSAA (S)	%.	73	25-135	08/16/25 16:41	
d5-NEtFOSA (S)	%.	53	10-130	08/16/25 16:41	
d7-NMeFOSE (S)	%.	79	10-130	08/16/25 16:41	
d9-NEtFOSE (S)	%.	79	10-130	08/16/25 16:41	

LABORATORY CONTROL SAMPLE: 5335433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	75.2	74.1	98	55-160	
3:3 FTCA	ng/L	99.2	70.3	71	65-130	
4:2 FTS	ng/L	75.2	77.6	103	70-145	
5:3 FTCA	ng/L	496	488	98	70-135	
6:2 FTS	ng/L	76.8	74.6	97	65-155	
7:3 FTCA	ng/L	496	467	94	50-145	
8:2 FTS	ng/L	76.8	75.8	99	60-150	
9Cl-PF3ONS	ng/L	75.2	76.3	101	70-155	
ADONA	ng/L	75.2	81.0	108	65-145	
HFPO-DA	ng/L	80	78.1	98	70-140	
NEtFOSA	ng/L	19.2	19.9	104	65-145	
NEtFOSAA	ng/L	19.2	19.4	101	70-145	
NEtFOSE	ng/L	192	192	100	70-135	
NFDHA	ng/L	40	40.4	101	50-150	
NMeFOSA	ng/L	19.2	20.9	109	60-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1886340 WG2575921
Pace Project No.: 10745472

LABORATORY CONTROL SAMPLE: 5335433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ng/L	19.2	20.2	105	50-140	
NMeFOSE	ng/L	192	204	106	70-145	
PFBA	ng/L	80	80.0	100	70-140	
PFBS	ng/L	17.6	17.1	97	60-145	
PFDA	ng/L	19.2	19.0	99	70-140	
PFDoA	ng/L	19.2	20.7	108	70-140	
PFDoS	ng/L	19.2	17.7	92	50-145	
PFDS	ng/L	19.2	18.2	95	60-145	
PFEESA	ng/L	35.2	36.3	103	70-140	
PFHpA	ng/L	19.2	20.2	105	70-150	
PFHpS	ng/L	19.2	18.8	98	70-150	
PFHxA	ng/L	19.2	20.8	108	70-145	
PFHxS	ng/L	17.6	17.6	100	65-145	
PFMBA	ng/L	40	40.3	101	60-150	
PFMPA	ng/L	40	37.7	94	55-140	
PFNA	ng/L	19.2	19.5	102	70-150	
PFNS	ng/L	19.2	18.8	98	65-145	
PFOA	ng/L	19.2	18.3	95	70-150	
PFOS	ng/L	19.2	16.4	85	55-150	
PFOSA	ng/L	19.2	19.3	101	70-145	
PFPeA	ng/L	40	40.4	101	65-135	
PFPeS	ng/L	19.2	18.5	96	65-140	
PFTeDA	ng/L	19.2	19.6	102	60-140	
PFTrDA	ng/L	19.2	21.5	112	65-140	
PFUnA	ng/L	19.2	20.4	106	70-145	
13C2-PFDoA (S)	%.			69	10-130	
13C2-PFTA (S)	%.			80	10-130	
13C24:2FTS (S)	%.			70	40-200	
13C26:2FTS (S)	%.			77	40-200	
13C28:2FTS (S)	%.			90	40-300	
13C3-PFBS (S)	%.			72	40-135	
13C3-PFHxS (S)	%.			71	40-130	
13C3-PFPrA (S)	%.			77	5-130	
13C3HFPO-DA (S)	%.			76	40-130	
13C4-PFBA (S)	%.			77	5-130	
13C4-PFHpA (S)	%.			73	40-130	
13C5-PFHxA (S)	%.			73	40-130	
13C5-PFPeA (S)	%.			75	40-130	
13C6-PFDA (S)	%.			77	40-130	
13C7-PFUdA (S)	%.			75	30-130	
13C8-PFOA (S)	%.			76	40-130	
13C8-PFOS (S)	%.			70	40-130	
13C8-PFOSA (S)	%.			66	40-130	
13C9-PFNA (S)	%.			76	40-130	
d3-MeFOSAA (S)	%.			75	40-170	
d3-NMeFOSA (S)	%.			57	10-130	
d5-EtFOSAA (S)	%.			75	25-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1886340 WG2575921
Pace Project No.: 10745472

LABORATORY CONTROL SAMPLE: 5335433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			57	10-130	
d7-NMeFOSE (S)	%.			77	10-130	
d9-NEtFOSE (S)	%.			82	10-130	

LABORATORY CONTROL SAMPLE: 5335434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ng/L	12	11.8	98	55-160	
3:3 FTCA	ng/L	15.9	10.9	69	65-130	
4:2 FTS	ng/L	12	12.2	101	70-145	
5:3 FTCA	ng/L	79.4	75.3	95	70-135	
6:2 FTS	ng/L	12.3	12.3	100	65-155	
7:3 FTCA	ng/L	79.4	73.7	93	50-145	
8:2 FTS	ng/L	12.3	12.0	98	60-150	
9Cl-PF3ONS	ng/L	12	11.9	99	70-155	
ADONA	ng/L	12	12.1	100	65-145	
HFPO-DA	ng/L	12.8	12.7	99	70-140	
NEtFOSA	ng/L	3.1	3.2	103	65-145	
NEtFOSAA	ng/L	3.1	2.9	95	70-145	
NEtFOSE	ng/L	30.7	29.9	97	70-135	
NFDHA	ng/L	6.4	5.8	90	50-150	
NMeFOSA	ng/L	3.1	2.9	95	60-150	
NMeFOSAA	ng/L	3.1	3.2	105	50-140	
NMeFOSE	ng/L	30.7	31.0	101	70-145	
PFBA	ng/L	12.8	12.4	97	70-140	
PFBS	ng/L	2.8	3.0	106	60-145	
PFDA	ng/L	3.1	3.1	99	70-140	
PFDoA	ng/L	3.1	3.0	98	70-140	
PFDoS	ng/L	3.1	2.8	92	50-145	
PFDS	ng/L	3.1	2.9	93	60-145	
PFEESA	ng/L	5.6	5.7	101	70-140	
PFHpA	ng/L	3.1	3.0	99	70-150	
PFHpS	ng/L	3.1	2.9	94	70-150	
PFHxA	ng/L	3.1	3.2	104	70-145	
PFHxS	ng/L	2.8	3.1	108	65-145	
PFMBA	ng/L	6.4	6.3	99	60-150	
PFMPA	ng/L	6.4	6.0	94	55-140	
PFNA	ng/L	3.1	3.1	100	70-150	
PFNS	ng/L	3.1	2.8	92	65-145	
PFOA	ng/L	3.1	2.8	92	70-150	
PFOS	ng/L	3.1	3.0	98	55-150	
PFOSA	ng/L	3.1	3.1	101	70-145	
PFPeA	ng/L	6.4	6.2	97	65-135	
PFPeS	ng/L	3.1	3.1	99	65-140	
PFTeDA	ng/L	3.1	3.1	100	60-140	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: L1886340 WG2575921
Pace Project No.: 10745472

LABORATORY CONTROL SAMPLE: 5335434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ng/L	3.1	3.2	104	65-140	
PFUnA	ng/L	3.1	3.0	99	70-145	
13C2-PFDoA (S)	%.			86	10-130	
13C2-PFTA (S)	%.			88	10-130	
13C24:2FTS (S)	%.			88	40-200	
13C26:2FTS (S)	%.			95	40-200	
13C28:2FTS (S)	%.			98	40-300	
13C3-PFBS (S)	%.			87	40-135	
13C3-PFHxS (S)	%.			85	40-130	
13C3-PFPrA (S)	%.			92	5-130	
13C3HFPO-DA (S)	%.			90	40-130	
13C4-PFBA (S)	%.			91	5-130	
13C4-PFHpA (S)	%.			89	40-130	
13C5-PFHxA (S)	%.			88	40-130	
13C5-PFPeA (S)	%.			91	40-130	
13C6-PFDA (S)	%.			93	40-130	
13C7-PFUdA (S)	%.			91	30-130	
13C8-PFOA (S)	%.			90	40-130	
13C8-PFOS (S)	%.			91	40-130	
13C8-PFOSA (S)	%.			82	40-130	
13C9-PFNA (S)	%.			93	40-130	
d3-MeFOSAA (S)	%.			92	40-170	
d3-NMeFOSA (S)	%.			75	10-130	
d5-EtFOSAA (S)	%.			91	25-135	
d5-NEtFOSA (S)	%.			77	10-130	
d7-NMeFOSE (S)	%.			85	10-130	
d9-NEtFOSE (S)	%.			89	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: L1886340 WG2575921
Pace Project No.: 10745472

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1886340 WG2575921
Pace Project No.: 10745472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10745472001	**SWS-06**	EPA 1633	1023728	EPA 1633	1024469
10745472002	**SWS-07**	EPA 1633	1023728	EPA 1633	1024469
10745472003	**SWS-04**	EPA 1633	1023728	EPA 1633	1024469
10745472004	**DWS-93**	EPA 1633	1023728	EPA 1633	1024469

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sub-Contract Chain of Custody

Batch Date/Time: 08/08/25 15:00
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2575921
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 08/22/25
ESC Purchase Order #: L1886340
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only	
SWS-06							
PFAS-500HDPE-NoPres - 53095788	WW	NM	08/07/25 09:09	SUBPFAS1633	1. L1886340-01	Level 4	001
PFAS-500HDPE-NoPres - 53095789							
SWS-07							
PFAS-500HDPE-NoPres - 53095790	WW	NM	08/07/25 09:38	SUBPFAS1633	2. L1886340-02	Level 4	002
PFAS-500HDPE-NoPres - 53095791							
SWS-04							
PFAS-500HDPE-NoPres - 53095792	WW	NM	08/07/25 10:28	SUBPFAS1633	3. L1886340-03	Level 4	003
PFAS-500HDPE-NoPres - 53095793							
DWS-93							
PFAS-500HDPE-NoPres - S52869921	GW	NM	08/07/25 12:28	PFAS1633	4. L1886340-04	Level 4	004
PFAS-500HDPE-NoPres - S52869922							

*= Container used for multiple Samples and/or Analyses

Relinquished by: _____ **Date** 8.8.25

Received by: _____ **Date** 8/9/25 9:15

Relinquished by: _____ **Date** _____

Received by: _____ **Date** _____

WO# : 10745472

10745472

ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: KRM 8/9/25 PROJECT # **WO#: 10745472**

PM: TKL Due Date: 09/02/25

CLIENT: PASI-TN

Client Name: Pace MTJL

Custody Seal Present: [X] YES [ ] NO Seals Intact: [X] YES [ ] NO

Tracking Number: 4980 6325 0682 [ ] See Exceptions form ENV-FRM-MIN4-0142.

Courier: [ ] Client [ ] Commercial [X] FedEx [ ] Pace Courier/Field [ ] SpeeDee [ ] UPS [ ] USPS

Packing Material: [X] Bubble Bags [ ] Bubble Wrap [ ] None [ ] Other: _____ Biological Tissue Frozen: [ ] YES [X] NO

Thermometer: [ ] T1 (0461) [X] T2 (0431) [ ] T3 (0459) [ ] T4 (0402) [ ] T5 (0187) [ ] T6 (0396) [ ] T7 (0377) [ ] T8 (0775) [ ] T9 (0428) [ ] 01339252 (0710)

Type of Ice: [ ] Blue [ ] Dry [X] Wet [ ] Melted [ ] None

Temp Blank: [X] YES [ ] NO

NOTE: Temp should be ≤ 6°C, but above freezing.

Read Temp w/Temp Blank: 1.9 °C

Correction Factor: +0.3

Corrected Temp w/Temp Blank: 2.2 °C

Did Samples Originate in West Virginia: [ ] YES [X] NO (list temps on exception)

Were All Container Temps Taken: [ ] YES [ ] NO [X] N/A

Average Corrected Temp (No Temp Blank Only): _____

[ ] See Exceptions form ENV-FRM-MIN4-0142. [ ] 1 Container

USDA Regulated Soil: [X] N/A – Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): [ ] YES [ ] NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): [ ] YES [ ] NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): [ ] DULUTH [X] MINNEAPOLIS [ ] VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	[X]	[ ]		1.
Chain of Custody Relinquished?	[X]	[ ]		2.
Sampler Name and/or Signature on COC?	[ ]	[ ]	[X]	3.
Samples Arrived within Hold Time? If Fecal: [ ] <8 hrs [ ] >8 hr but <24 hr [ ] >24 hr	[X]	[ ]		4.
Short Hold Time Analysis (<72 hr)?	[ ]	[X]		5. [ ] BOD / cBOD [ ] Fecal coliform [ ] Hex Chrom [ ] HPC [ ] Nitrate [ ] Nitrite [ ] Ortho Phos [ ] Total coliform/E. coli [ ] Turbidity [ ] Other:
Rush Turn Around Time Requested?	[X]	[ ]		6. [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] 5 Day Due Date: 8/22/25
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	[X]	[ ]		7.
Correct Containers Used? – Pace Containers Used?	[X] [X]	[ ] [ ]	[ ]	8.
Containers Intact?	[X]	[ ]		9.
Field Filtered Volume Received for Dissolved Tests?	[ ]	[ ]	[X]	10. Is sediment visible in the dissolved container: [ ] YES [ ] NO
ID/Date/Time Match? (If NO, fill out section 11.) Matrix: [ ] Oil [ ] Soil [X] Water [ ] Other	[X]	[ ]	[ ]	11. [ ] See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	[ ]	[ ]	[X]	12.
Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	[ ]	[ ]	[X]	[ ] See Exceptions form ENV-FRM-MIN4-0142
EXCECTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	[ ]	[ ]	[X]	
Extra labels present on soil VOA or WIDRO containers? (soil only)	[ ]	[ ]	[X]	13.
Headspace in Methyl Mercury Container?	[ ]	[ ]	[X]	14.
Headspace in VOA Vials (greater than 6mm)?	[ ]	[ ]	[X]	[ ] See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	[ ]	[ ]	[X]	15.
Trip Blank Custody Seals Present?	[ ]	[ ]	[X]	Pace Trip Blank Lot # (if purchased):

Sample #:

[ ] HNO3 _____ [ ] H2SO4 _____ [ ] NaOH _____ [ ] Zinc Acetate _____

pH Paper Lot #:

[ ] Residual Chlorine _____ [ ] 0-6 Roll _____ [ ] 0-6 Strip _____ [ ] 0-14 Strip _____

Positive for Residual Chlorine (NaOH containers only): [ ] YES [ ] NO

CLIENT NOTIFICATION / RESOLUTION:

Labeled By: KRM Line: 3

Person Contacted & Date/Time: _____ PM Review & Date: 8/11/25

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.